



BICC
BRAND



ENERGY WIRE AND CABLE FOR POWER GENERATION,
TRANSMISSION AND DISTRIBUTION
APRIL 2010

Electric Utility

This catalog contains in-depth information on the most comprehensive line of utility products available today for the electric utility marketplace.

The product and technical sections have been developed with an easy-to-use “spec-on-a-page” format. They feature the latest information on electric utility products, from applications and construction to detailed technical and specification data. There’s also a user-friendly index.

From low-, medium-, high-, and extra-high-voltage wire and cable for power generation, power distribution and power transmission, both overhead and underground, General Cable offers a broad spectrum of BICC® Brand cables and Silec cables for electric utilities, rural electric co-ops and independent power producers.

General Cable

All information in this catalog is presented solely as a guide to product selection and is believed to be reliable. All printing errors are subject to correction in subsequent releases of this catalog. Although General Cable has taken precautions to ensure the accuracy of the product specifications at the time of publication, the specifications of all products contained herein are subject to change without notice.

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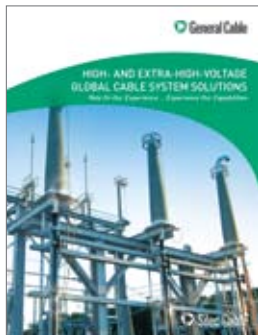
Empowr® Fill and PowrPak cables with General Cable's semi-conducting shields are protected by U.S. patents 6,274,066; 5,556,697 and other patents pending.

Empowr® Link cables with General Cable's semi-conducting shields are protected by U.S. patents 6,274,066; 6,291,772; 6,491,849 and other patents pending.

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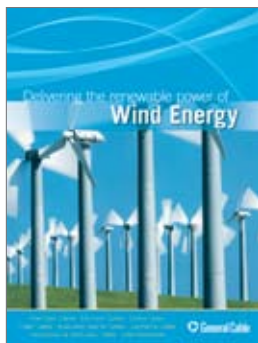
What's New?

SILEC CABLE



For close to half a century, Silec Cable has been a recognized leader in the global electric utility market. With unrivaled expertise and turnkey project management, Silec Cable provides the innovation, quality and service to reliably and cost-effectively bring power from the grid into major urban areas. Having **pioneered the development of solid-dielectric extruded high- and extra-high-voltage cable systems for nearly 50 years**, Silec Cable provides its global customers with superior cable system solutions that offer maximum flexibility and service life.

THE POWER OF WIND ENERGY



Delivering the Renewable Power of Wind Energy

Whether it's terrestrial direct buried cables or offshore wind farms requiring high-performance submarine cables, General Cable has one of the most diverse and expansive ranges of products to meet virtually every application in the wind power industry. From fiber optic and bare overhead conductors to underground URD and low-voltage power, control, and instrumentation cables, General Cable offers the full array of cables needed for wind turbines to generate, distribute, and transmit energy.

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General Cable

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**Our Green Initiative symbol recognizes our role
and responsibility in promoting sustainability.**

**The symbol also reflects our commitment to achieving
industry-leading standards and responding
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Connecting the World

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General Cable is a leader in the development, design, manufacture, marketing and distribution of copper, aluminum and fiber optic wire and cable for the energy, industrial, specialty and communications markets.

Our products inspire progress worldwide ... customers use our value-added products to create global infrastructure that improves the standard of living for people everywhere.

Each day we're building business momentum — developing ideas into innovative solutions and industry-leading products, expanding geographic access and furthering our investment in highly capable associates, Lean Manufacturing, material science and technology resources.

Building Bridges in the Sky

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General Cable is influencing the world ... with more than two-thirds of our sales generated outside North America and more than 11,000 associates in 45 manufacturing facilities throughout 22 countries. As one of the largest wire and cable manufacturers, we are the *One Company Connecting the World*.

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Our cables carry energy across the world — through the air, underground and under the sea. Increasing demand for energy is accelerating investment in exploration, extraction, power generation, transmission and distribution — whether based on coal, natural gas, oil, nuclear, wind, solar or water.

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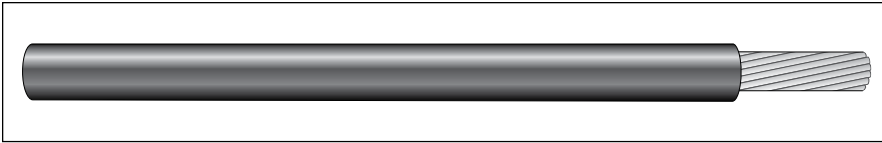
Our cables keep information flowing — facilitating a non-stop stream of words and images around the world. We meet the high-speed bandwidth needs of global communications networks from fiber optic submarine communications cables, copper and fiber aerial and underground cables to copper and fiber optic enterprise cables and system solutions.

World Headquarters

General Cable
4 Tesseneer Drive
Highland Heights, KY
41076-9753 U.S.A.



Low-Voltage Power Cable



PowrNet® Underground Network Cable

General Cable's PowrNet® cable was developed for use in congested urban networks (particularly in duct systems) where high-reliability, easy-to-install, low-smoke and -fume cables are needed. PowrNet® cables are suitable in wet or dry locations and for direct burial or installations in ducts.

PowrNet® cables are manufactured in accordance with the NEMA WC70/ICEA S-95-658 standard and ICEA T-33-655 guide.

PowrNet® Cables Options:

- **Multiplexed constructions of 2 to 6 conductors** – Provide phase and neutral or bare ground conductors on one reel for easy installation.
- **Compact copper conductors** – Reduce overall diameter and use less insulation material.
- **Tinned copper conductors** – Provide additional protective coverage over the conductor.
- **Type RHH/RHW-2 rating to UL 44** – Used in accordance with Article 310 and other applicable parts of the National Electrical Code (NEC).
- **Type USE-2 per UL 854** – Used in accordance with Article 338 and other applicable parts of the National Electrical Code (NEC).
- **UL OIL RES 1** – Improves performance when exposed to oil.
- **UL ST-1 limited smoke designation (sizes 1/0 AWG and larger)** – Presents limited smoke when burning.
- **UL "For CT Use" (sizes 1/0 AWG and larger)** – Used in cable trays. Passed UL vertical flame test.

PowrServ® Underground Secondary Distribution Cable

General Cable manufactures a complete line of insulated underground secondary cable. General Cable's PowrServ® service cables are intended to provide power from secondary power transformers that are pad-mounted.

Underground products are manufactured in accordance with ANSI/ICEA Standards S-105-692 and S-81-570.

General Cable's PowrServ® service cables are available in numerous insulation types, conductor alloys and numbers of conductors to meet a customer's particular requirements. The most common styles are generally available from stock.

PowrServ® Underground Cable Options:

- **Aluminum 1350 – H16 (¾ hard) conductor** – Provides more flexibility than H19 (full hard), but yields less tensile strength.
- **Copper conductors** – Primarily used when more ampacity is needed and/or there are limitations to the overall cable diameter.
- **Sizes 250 through 500 kcmil available with reduced insulation wall thickness (0.080")**
- **CDC® Combined Duct & Cable** – Designed for direct burial. The pre-installed system reduces the installation and repair cost. Various designs of wall thickness HDPE conduits are available.
- **Reeless package** – Supplied in coils without the wooden reel. Provides an environmentally friendly packaging option to avoid the disposal cost and save landfill space.
- **Alloy 8000 Aluminum Conductor** – Developed to overcome mechanical connection problems associated with circuit sizes 10 to 14 AWG
- **Type RHH/RHW-2 rating to UL 44** – Used in accordance with Article 310 and other applicable parts of the National Electrical Code (NEC).
- **Type USE-2 per UL 854** – Used in accordance with Article 338 and other applicable parts of the National Electrical Code (NEC).
- **Other phase identification methods** – Identified by different extruded or painted color stripes.
- **PE-insulated/HDPE-jacketed, rated 75°C, Type UD-S** – Used for 75°C normal service operation. Suited for applications requiring superior resistance to abrasion, scoring and crushing.

PowrServ® Overhead Secondary Distribution Cable

General Cable manufactures a complete line of insulated products for overhead secondary distribution.

General Cable's PowrServ® overhead service cables are intended to provide power from secondary power transformers that are pole-mounted. The overhead service cables can also be used as pole line secondary with service splices at the pole or mid-span.

Overhead products are manufactured in accordance with ANSI/ICEA Standard S-76-474.

General Cable's PowrServ® overhead service cables are available in numerous insulation types, conductor alloys and numbers of conductors to meet a customer's particular requirements. The most common styles are generally available from stock.

PowrServ® Overhead Cable Options:

- **Aluminum 1350 – H16 (¾ hard) conductor** – Provides more flexibility than H19 (full hard), but yields less tensile strength.
- **High-molecular-weight Polyethylene (PE) insulation** – Used for 75°C normal service operation.
- **High-Density Polyethylene (HDPE) insulation** – Used for 75°C normal service operation. Provides tough insulation.
- **Reeless package** – Supplied in coils without the wooden reel. Provides an environmentally friendly packaging option to avoid the disposal cost and save landfill space.

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PowrNet® 600 V Underground Network Cable

600 V Single Cu Conductor EPR Insulation LSHF Jacket

Product Construction:

Complete Cable:

General Cable's PowrNet® 600 V network cables consist of a Class B compressed copper conductor, covered with EPR insulation and a black Low-Smoke, Halogen-Free (LSHF) flame-retardant thermoset jacket. All cables are manufactured and tested in accordance with NEMA WC70/ICEA S-95-658 and ICEA Guide T-33-655.

Conductors:

Class B compressed copper meeting the requirements of ASTM B231 or B8.

Insulation/Jacket:

The extruded thermoset EPR insulation is Type II (Class E-2) insulation and meets the requirements of NEMA WC70/ICEA S-95-658. The extruded thermoset black jacket is a Type II, Low-Smoke, Halogen-Free (LSHF), flame-retardant thermoset polyolefin and meets the requirements of ICEA Guide T-33-655.

Features and Benefits:

General Cable's PowrNet® 600 V network cable was developed for use in congested urban networks (particularly in duct systems) where high-reliability, easy-to-install low-smoke and -fume cables are needed. This unique cable design provides advantages of a low-tracking, low-smoke and reduced-gas evolution in the event of a fire. These installed performance features are complemented by excellent abrasion and tear resistance properties coupled with a low coefficient of friction which allows easy pulling into existing duct systems. PowrNet® is rated 600 V and has a wet and dry conductor operating temperature rating of 90°C.

Applications:

General Cable's PowrNet® 600 V network cable was designed specifically for duct or direct buried 600 volt cables installed in either wet or dry locations where reliability and maximum performance are required.

Options:

- Multiplexed constructions of 2 to 6 conductors
- Multiplexed with bare ground conductors
- Compact copper conductors
- Tinned copper conductors
- Type RHH/RHW-2 per UL 44
- Type USE-2 per UL 854
- UL OIL RES 1
- UL ST-1 limited smoke designation (sizes 1/0 AWG and larger)
- UL "For CT Use" (sizes 1/0 AWG and larger)



600 V SINGLE COPPER CONDUCTOR EPR INSULATION LSHF JACKET

SIZE AWG OR kcmil	NO. OF WIRES	NOM. COND. O.D.	INS./JACKET NOM. THKN. INCHES	NOM. O.D. INCHES	NOM. WEIGHT LB/1000 FT		AMPACITY (1)	
					COPPER	TOTAL	DIRECT BURIED (2)	BURIED DUCT (3)
6	7	0.178	0.045 / 0.030	0.34	81	120	120	80
4	7	0.225	0.045 / 0.030	0.39	129	176	155	105
2	7	0.283	0.045 / 0.030	0.44	205	262	200	140
1	19	0.313	0.055 / 0.045	0.52	258	341	225	165
1/0	19	0.352	0.055 / 0.045	0.56	326	416	255	190
2/0	19	0.395	0.055 / 0.045	0.61	411	510	290	215
3/0	19	0.443	0.055 / 0.045	0.65	518	627	330	250
4/0	19	0.498	0.055 / 0.045	0.71	653	774	375	280
250	37	0.558	0.065 / 0.065	0.83	772	949	410	315
350	37	0.641	0.065 / 0.065	0.91	1081	1280	490	390
500	37	0.789	0.065 / 0.065	1.06	1544	1783	590	475
750	61	0.968	0.080 / 0.065	1.27	2316	2632	720	585
1000	61	0.117	0.080 / 0.065	1.42	3088	3448	820	670

(1) Ampacities are for non-code-complying installations. For installations covered by National Electrical Code (NEC), see the appropriate section of the NEC.

(2) Based on 90°C conductor temperature, 20°C earth ambient, 100% load factor, earth thermal resistivity (rho)=90°C-cm/watt for three cables together buried 36" deep, with all three conductors carrying equal current.

(3) Based on 90°C conductor temperature, 20°C earth ambient, 100% load factor, earth thermal resistivity (rho)=90°C-cm/watt for three cables together buried 36" deep, with all three conductors carrying equal current. Results may also be applied to a single 12 x 12 duct bank installation where the duct is encased in concrete.

PowrServ® XL Underground Distribution Cable

600 V Single Al Conductor XLPE Insulation



POWRSERV® XL CABLE-XLPE INSULATION-600 VOLTS

CODE WORD	SIZE AWG OR kcmil	NO. OF WIRES	INS. THKN. INCHES	NOM. O.D. INCHES	NOM. WEIGHT LB/1000 FT		AMPACITY (1)		PACKAGING 1000 FT REEL (4)
					AL.	TOTAL	DIRECT BURIED (2)	BURIED DUCT (3)	
Princeton/XLP	6	7	0.060	0.30	25	44	95	60	NR 24.12
Mercer/XLP	4	7	0.060	0.35	39	63	125	80	NR 24.12
Clemson/XLP	2	7	0.060	0.40	62	92	160	105	NR 24.12
Kenyon/XLP	1	19	0.080	0.47	78	120	180	125	NR 24.12
Harvard/XLP	1/0	19	0.080	0.51	99	145	205	140	NR 24.18
Yale/XLP	2/0	19	0.080	0.56	125	176	230	170	NR 24.18
Tufts/XLP	3/0	19	0.080	0.60	157	214	265	195	NR 27.18
Beloit/XLP	4/0	19	0.080	0.66	198	262	300	220	NR 27.18
Hofstra/XLP	250	37	0.095	0.75	234	317	330	245	NR 30.18
Gonzaga/XLP	300	37	0.095	0.78	281	369	360	275	NR 30.18
Rutgers/XLP	350	37	0.095	0.85	328	426	395	300	NR 32.24
Dartmouth/XLP	400	37	0.095	0.90	375	479	420	325	NR 32.24
Emory/XLP	500	37	0.095	0.98	469	584	475	375	NR 32.24
Duke/XLP	600	61	0.110	1.09	562	707	525	420	NR 36.24
Furman/XLP	700	61	0.110	1.16	656	811	570	455	NR 40.24
Sewanee/XLP	750	61	0.110	1.19	703	864	590	480	NR 40.24
Fordham/XLP	1000	61	0.110	1.34	937	1122	680	560	NR 42.26

(1) Ampacities are for non-code-complying installations. For installations covered by National Electrical Code (NEC), see the appropriate section of the NEC.

(2) Based on 90°C conductor temperature, 20°C earth ambient, 100% load factor, earth thermal resistivity (ρ)=90°C-cm/watt for three cables together buried 36" deep, random lay, with all three conductors carrying current.

(3) Based on 90°C conductor temperature, 40°C air ambient, coefficient of emissivity of 0.5, no wind, for three cables in non-metallic duct above ground with all three conductors carrying current.

(4) Reel sizes may vary. Reeless package (large coil) is available—see Section 6 for reeless package description and typical dimensions for selected low-voltage products.

Product Construction:

Complete Cable:

600 V PowrServ® XL cables consist of an aluminum conductor insulated with extruded Cross-Linked Polyethylene (XLPE). These XLPE insulated cables are manufactured and tested in accordance with ANSI/ICEA standard S-105-692. When specified, the cable is produced in accordance with UL 854 and listed as a Type USE-2 cable.

Conductors:

Class B compressed aluminum 1350-H19 meeting the requirements of ASTM B231.

Insulation:

The insulation is black extruded Cross-Linked Polyethylene (XLPE).

Features and Benefits:

600 V PowrServ® XL underground distribution cables are suitable for direct burial or installations in ducts and are resistant to abrasion, impact and sunlight. For NEC-complying applications, the maximum conductor operating temperature is 90°C in wet or dry locations. This cable is also suitable for non-code-complying temperature of 90°C in wet or dry locations in accordance with ICEA specifications.

Applications:

PowrServ® XL underground distribution cable is intended for use in underground systems operated at 600 volts or less.

Options:

- Aluminum 1350-H16 conductor
- Copper conductors
- Sizes 250 through 500 kcmil available with thin wall (0.080") insulation
- CDC® Combined Duct & Cable
- Reeless package
- Alloy 8000 aluminum conductor
- Type RHH/RHW-2 per UL 44
- Type USE-2 per UL 854

PowrServ® XL Underground Distribution Cable

600 V Duplex Al Conductor XLPE Insulation

Product Construction:

Complete Cable:

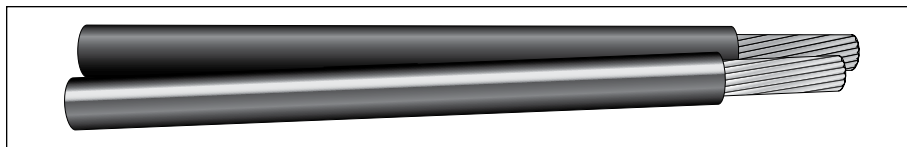
Duplex 600 V PowrServ® XL cables consist of one phase conductor and one neutral conductor that are insulated with extruded Cross-Linked Polyethylene (XLPE). The cables are twisted together to form a duplex assembly. These XLPE insulated cables are manufactured and tested in accordance with ANSI/ICEA standard S-105-692. When specified, the cable is produced in accordance with UL 854 and listed as a Type USE-2 cable.

Conductors:

Class B compressed aluminum 1350-H19 meeting the requirements of ASTM B231.

Insulation:

The insulation is extruded Cross-Linked Polyethylene (XLPE). The phase conductor is black, and the neutral conductor is black, identified by three extruded yellow stripes.



POWRSERV® XL DUPLEX CABLE—XLPE INSULATION—600 VOLTS

CODE WORD	PHASE CONDUCTOR			NEUTRAL CONDUCTOR			EFF. O.D. INCHES	NOM. WEIGHT LB/1000 FT		AMPACITY (1)		PACKAGING 1000 FEET REEL (4)
	SIZE AWG OR kcmil	NO. OF WIRES	INS. THKN. INCHES	SIZE AWG OR kcmil	NO. OF WIRES	INS. THKN. INCHES		AL.	TOTAL	DIRECT BURIAL (2)	BURIED DUCT (3)	
Clafin/XLP/EYS	6	7	0.060	6	7	0.060	0.60	49	89	110	70	NR 24.18
Delgado/XLP/EYS	4	7	0.060	4	7	0.060	0.69	78	127	145	90	NR 24.18
Everett/XLP/EYS	2	7	0.060	2	7	0.060	0.81	125	185	185	120	NR 27.18
-none-	1/0	19	0.080	1/0	19	0.080	1.02	199	291	235	160	NR 32.24
Findlay/XLP/EYS	2/0	19	0.080	2/0	19	0.080	1.11	250	353	270	185	NR 32.24
-none-	3/0	19	0.080	3/0	19	0.080	1.21	315	430	305	210	NR 36.24
Hanover/XLP/EYS	4/0	19	0.080	4/0	19	0.080	1.32	398	526	350	245	NR 40.24

(1) Ampacities are for non-code-complying installations. For installations covered by National Electrical Code (NEC), see the appropriate section of the NEC.

(2) Based on 90°C conductor temperature, 20°C earth ambient, 100% load factor, earth thermal resistivity (ρ_{th})=90°C-Cm/watt for cables buried 36" deep with both phase and neutral conductors carrying current.

(3) Based on 90°C conductor temperature, 40°C air ambient, coefficient of emissivity of 0.5, no wind, for cables in non-metallic duct above ground with both phase and neutral conductors carrying current.

(4) Reel sizes may vary. Reeless package (large coil) is available—see Section 6 for Reeless Package description and typical dimensions for selected low-voltage products.

Features and Benefits:

600 V PowrServ® XL underground distribution cables are suitable for direct burial or installations in ducts and are resistant to abrasion, impact and sunlight. For NEC-complying applications, the maximum conductor operating temperature is 90°C in wet or dry locations. This cable is also suitable for non-code-complying installations with a maximum conductor temperature of 90°C in wet or dry locations in accordance with ICEA specifications.

Applications:

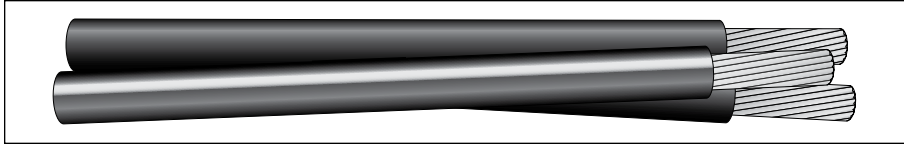
PowrServ® XL underground distribution cable is intended for use in underground systems operated at 600 volts or less.

Options:

- Aluminum 1350-H16 conductor
- Copper conductors
- Other phase identification methods
- CDC® Combined Duct & Cable
- Reeless package
- Alloy 8000 aluminum conductor
- Type RHH/RHW-2 per UL 44
- Type USE-2 per UL 854

PowrServ® XL Underground Distribution Cable

600 V Triplex Al Conductor XLPE Insulation



POWRSERV® XL TRIPLEX CABLE—XLPE INSULATION—600 VOLTS

CODE WORD	PHASE CONDUCTOR			NEUTRAL CONDUCTOR			EFF. O.D. INCHES	NOM. WEIGHT LB/1000 FT		AMPACITY (1)		PACKAGING 1000 FEET REEL (4)
	SIZE AWG OR kcmil	NO. OF WIRES	INS. THKN. INCHES	SIZE AWG OR kcmil	NO. OF WIRES	INS. THKN. INCHES		AL.	TOTAL	DIRECT BURIAL (2)	BURIED DUCT (3)	
Erskine/XLP/EYS	6	7	0.060	6	7	0.060	0.64	74	133	110	70	NR 27.18
Vassar/XLP/EYS	4	7	0.060	4	7	0.060	0.74	118	190	145	90	NR 30.18
Stephens/XLP/EYS	2	7	0.060	4	7	0.060	0.84	164	248	185	120	NR 32.24
Ramapo/XLP/EYS	2	7	0.060	2	7	0.060	0.87	187	277	185	120	NR 32.24
Brenau/XLP/EYS	1/0	19	0.080	2	7	0.060	1.04	261	384	235	160	NR 36.24
Bergen/XLP/EYS	1/0	19	0.080	1/0	19	0.080	1.10	298	437	235	160	NR 40.24
Converse/XLP/EYS	2/0	19	0.080	1	19	0.080	1.15	329	474	270	185	NR 40.24
Hunter/XLP/EYS	2/0	19	0.080	2/0	19	0.080	1.20	375	530	270	185	NR 40.24
Hollins/XLP/EYS	3/0	19	0.080	1/0	19	0.080	1.25	415	576	305	210	NR 40.24
Rockland/XLP/EYS	3/0	19	0.080	3/0	19	0.080	1.30	473	645	305	210	NR 42.26
Sweetbriar/XLP/EYS	4/0	19	0.080	2/0	19	0.080	1.36	523	702	350	245	NR 42.26
Monmouth/XLP/EYS	4/0	19	0.080	4/0	19	0.080	1.42	597	789	350	245	NR 45.28
Pratt/XLP/EYS	250	37	0.095	3/0	19	0.080	1.53	628	852	380	270	NR 45.28
Wesleyan/XLP/EYS	350	37	0.095	4/0	19	0.080	1.69	858	1111	455	325	NR 50.32
Rider/XLP/EYS	500	37	0.095	350	37	0.095	2.03	1269	1596	555	410	NR 58.32

(1) Ampacities are for non-code-complying installations. For installations covered by National Electrical Code (NEC), see the appropriate section of the NEC.

(2) Based on 90°C conductor temperature, 20°C earth ambient, 100% load factor, earth thermal resistivity (ρ_{90})=90°C-cm/watt for cables buried 36" deep assuming no current in the neutral conductor.

(3) Based on 90°C conductor temperature, 40°C air ambient, coefficient of emissivity of 0.5, no wind, for cables in non-metallic duct above ground assuming no current in the neutral conductor.

(4) Reel sizes may vary. Reeless package (large coil) is available—see Section 6 for Reeless Package description and typical dimensions for selected low-voltage products.

Product Construction:

Complete Cable:

Triplex 600 V PowrServ® XL cables consist of two phase conductors and one neutral conductor, all of which are insulated with extruded Cross-Linked Polyethylene (XLPE). The cables are twisted together to form a triplex assembly. These XLPE insulated cables are manufactured and tested in accordance with ANSI/ICEA standard S-105-692. When specified, the cable is produced in accordance with UL 854 and listed as a Type USE-2 cable.

Conductors:

Class B compressed aluminum 1350-H19 meeting the requirements of ASTM B231.

Insulation:

The insulation is extruded Cross-Linked Polyethylene (XLPE). The two phase conductors are black, and the neutral conductor is black, identified by three extruded yellow stripes.

Features and Benefits:

600 V PowrServ® XL underground distribution cables are suitable for direct burial or installations in ducts and are resistant to abrasion, impact and sunlight. For NEC-complying applications, the maximum conductor operating temperature is 90°C in wet or dry locations. This cable is also suitable for non-code-complying installations with a maximum conductor temperature of 90°C in wet or dry locations in accordance with ICEA specifications.

Applications:

PowrServ® XL underground distribution cable is intended for use in underground systems operated at 600 volts or less.

Options:

- Aluminum 1350-H16 conductor
- Copper conductors
- Other phase identification methods
- Sizes 250 through 500 kcmil available with thin wall (0.080") insulation
- CDC® Combined Duct & Cable
- Reeless package
- Alloy 8000 aluminum conductor
- Type RHH/RHW-2 per UL 44
- Type USE-2 per UL 854

PowrServ® XL Underground Distribution Cable

600 V Quadruplex Al Conductor XLPE Insulation

Product Construction:

Complete Cable:

Quadruplex 600 V PowrServ® XL cables consist of three phase conductors and one neutral conductor, all of which are insulated with extruded Cross-Linked Polyethylene (XLPE). The cables are twisted together to form a quadruplex assembly. These XLPE insulated cables are manufactured and tested in accordance with ANSI/ICEA standard S-105-692. When specified, the cable is produced in accordance with UL 854 and listed as a Type USE-2 cable.

Conductors:

Class B compressed aluminum 1350-H19 meeting the requirements of ASTM B231.

Insulation:

The insulation is extruded Cross-Linked Polyethylene (XLPE). The three phase conductors are black and the neutral conductor is black identified by three extruded yellow stripes.

Features and Benefits:

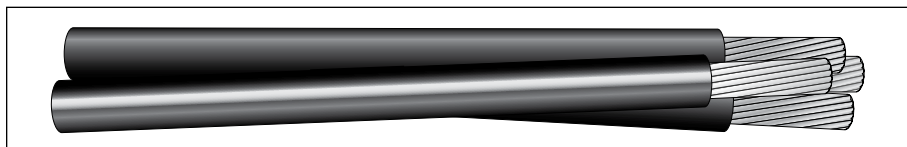
600 V PowrServ® XL underground distribution cables are suitable for direct burial or installations in ducts and are resistant to abrasion, impact and sunlight. For NEC-complying applications, the maximum conductor operating temperature is 90°C in wet or dry locations. This cable is also suitable for non-code-complying installations with a maximum conductor temperature of 90°C in wet or dry locations in accordance with ICEA specifications.

Applications:

PowrServ® XL underground distribution cable is intended for use in underground systems operated at 600 volts or less.

Options:

- Aluminum 1350-H16 conductor
- Copper conductors
- Other phase identification methods
- Sizes 250 through 500 kcmil available with thin wall (0.080") insulation
- CDC® Combined Duct & Cable
- Reeless package
- Alloy 8000 aluminum conductor
- Type RHH/RHW-2 per UL 44
- Type USE-2 per UL 854



POWRSERV® XL QUADRUPLEX CABLE—XLPE INSULATION—600 VOLTS

CODE WORD	PHASE CONDUCTOR			NEUTRAL CONDUCTOR			EFF. O.D. INCHES	NOM. WEIGHT LB/1000 FT		AMPACITY (1)		PACKAGING 1000 FEET REEL (4)
	SIZE AWG OR kcmil	NO. OF WIRES	INS. THKN. INCHES	SIZE AWG OR kcmil	NO. OF WIRES	INS. THKN. INCHES		DIRECT BURIAL		BURIED DUCT (2)	BURIED DUCT (3)	
								AL.	TOTAL			
Tulsa/XLP/EYS	4	7	0.060	4	7	0.060	0.83	157	253	125	80	NR 32.24
Dyke/XLP/EYS	2	7	0.060	4	7	0.060	0.94	226	340	160	105	NR 32.34
Wittenberg/XLP/EYS	2	7	0.060	2	7	0.060	0.97	250	369	160	105	NR 36.24
Notre Dame/XLP/EYS	1/0	19	0.080	2	7	0.060	1.17	360	529	205	140	NR 42.26
Purdue/XLP/EYS	1/0	19	0.080	1/0	19	0.080	1.24	397	583	205	140	NR 42.26
Syracuse/XLP/EYS	2/0	19	0.080	1	19	0.080	1.29	454	651	230	170	NR 42.26
Lafayette/XLP/EYS	2/0	19	0.080	2/0	19	0.080	1.34	501	707	230	170	NR 45.28
Swarthmore/XLP/EYS	3/0	19	0.080	1/0	19	0.080	1.40	573	791	265	195	NR 45.28
Davidson/XLP/EYS	3/0	19	0.080	3/0	19	0.080	1.46	631	860	265	195	NR 45.28
Wake Forest/XLP/EYS	4/0	19	0.080	2/0	19	0.080	1.53	722	965	300	220	NR 50.32
Earlham/XLP/EYS	4/0	19	0.080	4/0	19	0.080	1.59	796	1052	300	220	NR 50.32
Rust/XLP/EYS	250	37	0.095	3/0	19	0.080	1.72	863	1170	330	245	NR 50.32
Slippery Rock/XLP/EYS	350	37	0.095	4/0	19	0.080	1.91	1187	1535	395	300	NR 58.32
Wofferd/XLP/EYS	500	37	0.095	350	37	0.095	2.28	1739	2182	475	375	NR 66.36

(1) Ampacities are for non-code-complying installations. For installations covered by National Electrical Code (NEC), see the appropriate section of the NEC.

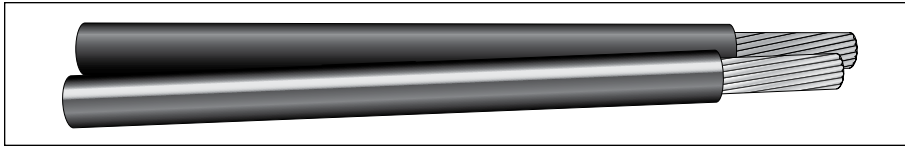
(2) Based on 90°C conductor temperature, 20°C earth ambient, 100% load factor, earth thermal resistivity (rho)=90°C-cm/watt for cables buried 36" deep assuming no current in the neutral conductor.

(3) Based on 90°C conductor temperature, 40°C air ambient, coefficient of emissivity of 0.5, no wind, for cables in non-metallic duct above ground assuming no current in the neutral conductor.

(4) Reel sizes may vary. Reeless package (large coil) is available—see Section 6 for Reeless Package description and typical dimensions for selected low-voltage products.

PowrServ® AR Underground Distribution Cable

600 V Duplex Jacketed Al Conductor XLPE Insulation HDXLPE Jacket



POWRSERV® AR DUPLEX CABLE—XLPE/HDXLPE—600 VOLTS

CODE WORD	PHASE CONDUCTOR				NEUTRAL CONDUCTOR				EFF. O.D. IN	NOM. WEIGHT LB/1000 FT		AMPACITY (1)		PKG. 1000 FEET REEL (4)
	SIZE AWG OR kcmil	NO. OF WIRES	INS. THKN. IN	JACKET THKN. IN	SIZE AWG OR kcmil	NO. OF WIRES	INS. THKN. IN	JACKET THKN. IN		AL.	TOTAL	DIRECT BURIAL (2)	DUCT IN AIR (3)	
Delgado/AR/EYS	4	7	0.030	0.030	4	7	0.030	0.030	0.69	78	127	145	90	NR 24.18
Everett/AR/EYS	2	7	0.030	0.030	2	7	0.030	0.030	0.81	125	185	185	120	NR 27.18
-none-	1/0	19	0.040	0.040	1/0	19	0.040	0.040	1.02	199	293	265	160	NR 32.24
Findlay/AR/EYS	2/0	19	0.040	0.040	2/0	19	0.040	0.040	1.11	250	355	270	185	NR 32.24
-none-	3/0	19	0.040	0.040	3/0	19	0.040	0.040	1.21	315	432	305	210	NR 36.24
Hanover/AR/EYS	4/0	19	0.040	0.040	4/0	19	0.040	0.040	1.32	398	528	350	245	NR 40.24

- (1) Ampacities are for non-code-complying installations. For installations covered by National Electrical Code (NEC), see the appropriate section of the NEC.
 (2) Based on 90°C conductor temperature, 20°C earth ambient, 100% load factor, earth thermal resistivity (ρ_{ho})=90°C-cm/watt for cables buried 36" deep with both phase and neutral conductors carrying current.
 (3) Based on 90°C conductor temperature, 40°C air ambient, coefficient of emissivity of 0.5, no wind, for cables in non-metallic duct above ground with both phase and neutral conductors carrying current.
 (4) Reel sizes may vary. Reeless package (large coil) is available—see Section 6 for Reeless Package description and typical dimensions for selected low-voltage products.

Product Construction:

Complete Cable:

Duplex PowrServ® abuse-resistant (AR) underground distribution cables consist of one phase and one neutral conductor, both of which are insulated with extruded Cross-Linked Polyethylene (XLPE) and jacketed with extruded High-Density Cross-Linked Polyethylene (HDXLPE). The cables are twisted together to form a duplex assembly. All cables are manufactured and tested in accordance with ANSI/ICEA standard S-81-570. When specified, the cable is produced in accordance with UL 854 and listed as a Type USE-2 cable.

Conductors:

Class B compressed aluminum 1350-H19 meeting the requirements of ASTM B231.

Insulation and Jacket:

The extruded cross-linked polyethylene insulation meets the requirements of ICEA S-81-570. The extruded high-density cross-linked polyethylene jacket meets the requirements of ASTM D1248, Type III. The phase conductor is black, and the neutral conductor is black, identified by three extruded yellow stripes.

Features and Benefits:

The dual extruded insulation/jacket system provides a very high degree of protection against insulation damage from unclean backfill material and from cuts and abrasions that can occur during installation. For NEC-complying applications, the maximum conductor operating temperature is 90°C in wet or dry locations. This cable is also suitable for non-code-complying installations with a maximum conductor temperature of 90°C in wet or dry locations in accordance with ICEA specifications.

Applications:

PowrServ® AR XLPE/HDXLPE underground distribution cable is intended for use in underground systems operated at 600 volts or less.

Options:

- Aluminum 1350-H16 conductor
- Copper conductors
- Other phase identification methods
- CDC® Combined Duct & Cable
- Reeless package
- PE insulated/HDPE jacketed rated 75°C, Type UD-S
- Type USE-2 per UL 854

PowrServ® AR Underground Distribution Cable

600 V Triplex Jacketed Al Conductor XLPE Insulation HDXLPE Jacket

Product Construction:

Complete Cable:

Triplex PowrServ® abuse-resistant (AR) cables consist of two phase conductors and one neutral conductor, all of which are insulated with extruded Cross-Linked Polyethylene (XLPE) and jacketed with extruded High-Density Cross-Linked Polyethylene (HDXLPE). The cables are twisted together to form a triplex assembly. All cables are manufactured and tested in accordance with ANSI/ICEA standard S-81-570. When specified, the cable is produced in accordance with UL 854 and listed as a Type USE-2 cable.

Conductors:

Class B compressed aluminum 1350-H19 meeting the requirements of ASTM B231.

Insulation and Jacket:

The extruded cross-linked polyethylene insulation meets the requirements of ICEA S-81-570. The extruded high-density cross-linked polyethylene jacket meets the requirements of ASTM D1248, Type III. The two phase conductors are black, and the neutral conductor is black, identified by three extruded yellow stripes.

Features and Benefits:

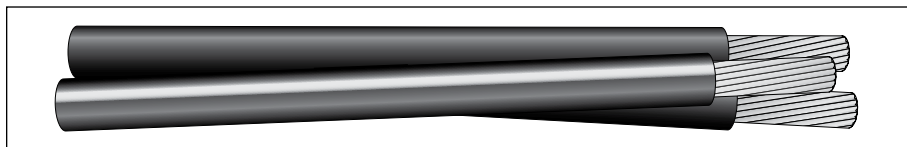
The dual extruded insulation/jacket system provides a very high degree of protection against insulation damage from unclean backfill material and from cuts and abrasions that can occur during installation. For NEC-complying applications, the maximum conductor operating temperature is 90°C in wet or dry locations. This cable is also suitable for non-code-complying installations with a maximum conductor temperature of 90°C in wet or dry locations in accordance with ICEA specifications.

Applications:

PowrServ® AR XLPE/HDXLPE underground distribution cable is intended for use in underground systems operated at 600 volts or less.

Options:

- Aluminum 1350-H16 conductor
- Copper conductors
- Other phase identification methods
- Sizes 250 through 500 kcmil available with thin wall (0.080") insulation
- CDC® Combined Duct & Cable
- Reeless package
- PE insulated/HDPE jacketed rated 75°C, Type UD-S
- Type USE-2 per UL 854



POWRSERV® AR TRIPLEX CABLE—XLPE/HDXLPE—600 VOLTS														
CODE WORD	PHASE CONDUCTOR				NEUTRAL CONDUCTOR				EFF. O.D. IN	NOM. WEIGHT LB/1000 FT		AMPACITY (1)		PKG. 1000 FEET REEL (4)
	SIZE AWG OR kcmil	NO. OF WIRES	INS. THKN. IN	JACKET THKN. IN	SIZE AWG OR kcmil	NO. OF WIRES	INS. THKN. IN	JACKET THKN. IN				DIRECT BURIAL (2)	DUCT IN AIR (3)	
										AL.	TOTAL			
Vassar/AR/EYS	4	7	0.030	0.030	4	7	0.030	0.030	0.74	118	191	145	90	NR 30.18
Stephens/AR/EYS	2	7	0.030	0.030	4	7	0.030	0.030	0.84	164	249	185	120	NR 32.24
Ramapo/AR/EYS	2	7	0.030	0.030	2	7	0.030	0.030	0.87	187	278	185	120	NR 32.24
-none-	1	19	0.040	0.040	2	7	0.030	0.030	1.00	220	337	210	140	NR 32.24
Grossmont/AR/EYS	1	19	0.040	0.040	1	19	0.040	0.040	1.04	236	367	210	140	NR 36.24
Brenau/AR/EYS	1/0	19	0.040	0.040	2	7	0.030	0.030	1.04	261	386	265	160	NR 36.24
Bergen/AR/EYS	1/0	19	0.040	0.040	1/0	19	0.040	0.040	1.10	298	439	265	160	NR 40.24
Converse/AR/EYS	2/0	19	0.040	0.040	1	19	0.040	0.040	1.15	329	476	270	185	NR 40.24
Hunter/AR/EYS	2/0	19	0.040	0.040	2/0	19	0.040	0.040	1.20	375	532	270	185	NR 40.24
Hollins/AR/EYS	3/0	19	0.040	0.040	1/0	19	0.040	0.040	1.25	415	578	305	210	NR 40.24
Rockland/AR/EYS	3/0	19	0.040	0.040	3/0	19	0.040	0.040	1.30	473	648	305	210	NR 42.26
Sweetbriar/AR/EYS	4/0	19	0.040	0.040	2/0	19	0.040	0.040	1.36	523	705	350	245	NR 42.26
Monmouth/AR/EYS	4/0	19	0.040	0.040	4/0	19	0.040	0.040	1.42	597	792	350	245	NR 45.28
Pratt/AR/EYS	250	37	0.045	0.050	3/0	19	0.040	0.040	1.53	628	855	380	270	NR 45.28
Yeshiva/AR/EYS	250	37	0.045	0.050	250	37	0.045	0.050	1.61	705	959	380	270	NR 50.32
-none-	300	37	0.045	0.050	4/0	19	0.040	0.040	1.65	763	1012	420	300	NR 50.32
-none-	300	37	0.045	0.050	300	37	0.045	0.050	1.73	846	1123	420	300	NR 50.32
Wesleyan/AR/EYS	350	37	0.045	0.050	4/0	19	0.040	0.040	1.69	858	1115	455	325	NR 50.32
Newark/AR/EYS	350	37	0.045	0.050	350	37	0.045	0.050	1.79	988	1277	455	325	NR 58.32
Rider/AR/EYS	500	37	0.045	0.050	350	37	0.045	0.050	2.03	1269	1601	555	410	NR 58.32

(1) Ampacities are for non-code-complying installations. For installations covered by National Electrical Code (NEC), see the appropriate section of the NEC.

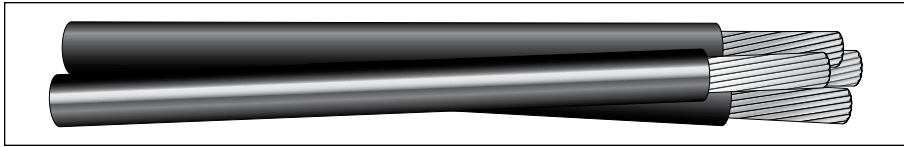
(2) Based on 90°C conductor temperature, 20°C earth ambient, 100% load factor, earth thermal resistivity (ρ_{90})=90°C-cm/watt for cables buried 36" deep assuming no current in the neutral conductor.

(3) Based on 90°C conductor temperature, 40°C air ambient, coefficient of emissivity of 0.5, no wind, for cables in non-metallic duct above ground assuming no current in the neutral conductor.

(4) Reel sizes may vary. Reeless package (large coil) is available—see Section 6 for Reeless Package description and typical dimensions for selected low-voltage products.

PowrServ® AR Underground Distribution Cable

600 V Quadruplex Jacketed Al Conductor XLPE Insulation HDXLPE Jacket



POWRSERV® AR QUADRUPLEX CABLE—XLPE/HDXLPE—600 VOLTS

CODE WORD	PHASE CONDUCTOR				NEUTRAL CONDUCTOR				EFF. O.D. IN	NOM. WEIGHT LB/1000 FT		AMPACITY (1)		PKG. 1000 FEET REEL (4)
	SIZE AWG OR kcmil	NO. OF WIRES	INS. THKN. IN	JACKET THKN. IN	SIZE AWG OR kcmil	NO. OF WIRES	INS. THKN. IN	JACKET THKN. IN		LB/1000 FT		DIRECT BURIAL (2)	DUCT IN AIR (3)	
										AL.	TOTAL			
Tulsa/AR/EYS	4	7	0.030	0.030	4	7	0.030	0.030	0.83	157	255	125	80	NR 32.24
Dyke/AR/EYS	2	7	0.030	0.030	4	7	0.030	0.030	0.94	226	342	160	105	NR 32.24
Wittenberg/AR/EYS	2	7	0.030	0.030	2	7	0.030	0.030	0.97	250	371	160	105	NR 36.24
-none-	1	19	0.040	0.040	2	7	0.030	0.030	1.12	298	460	180	125	NR 40.24
-none-	1	19	0.040	0.040	1	19	0.040	0.040	1.16	315	489	180	125	NR 40.24
Notre Dame/AR/EYS	1/0	19	0.040	0.040	2	7	0.030	0.030	1.17	360	532	205	140	NR 42.26
Purdue/AR/EYS	1/0	19	0.040	0.040	1/0	19	0.040	0.040	1.24	397	586	205	140	NR 42.26
Syracuse/AR/EYS	2/0	19	0.040	0.040	1	19	0.040	0.040	1.29	454	654	230	170	NR 42.26
Lafayette/AR/EYS	2/0	19	0.040	0.040	2/0	19	0.040	0.040	1.34	501	710	230	170	NR 45.28
Swarthmore/AR/EYS	3/0	19	0.040	0.040	1/0	19	0.040	0.040	1.40	573	794	265	195	NR 45.28
Davidson/AR/EYS	3/0	19	0.040	0.040	3/0	19	0.040	0.040	1.46	631	864	265	195	NR 45.28
Wake Forest/AR/EYS	4/0	19	0.040	0.040	2/0	19	0.040	0.040	1.53	722	969	300	220	NR 50.32
Earlham/AR/EYS	4/0	19	0.040	0.040	4/0	19	0.040	0.040	1.59	796	1056	300	220	NR 50.32
Rust/AR/EYS	250	37	0.045	0.050	3/0	19	0.040	0.040	1.72	863	1175	330	245	NR 50.32
Palomar/AR/EYS	250	37	0.045	0.050	250	37	0.045	0.050	1.81	940	1277	330	245	NR 58.32
-none-	300	37	0.045	0.050	4/0	19	0.040	0.040	1.85	1045	1386	360	275	NR 58.32
-none-	300	37	0.045	0.050	300	37	0.045	0.050	1.93	1128	1494	360	275	NR 58.32
Slippery Rock/AR/EYS	350	37	0.045	0.050	4/0	19	0.040	0.040	1.91	1187	1541	395	295	NR 58.32
Niagara/AR/EYS	350	37	0.045	0.050	350	37	0.045	0.050	2.09	1320	1768	390	255	NR 58.32
Wofferd/AR/EYS	500	37	0.045	0.050	350	37	0.045	0.050	2.28	1739	2189	475	375	NR 66.36

(1) Ampacities are for non-code-complying installations. For installations covered by National Electrical Code (NEC), see the appropriate section of the NEC.

(2) Based on 90°C conductor temperature, 20°C earth ambient, 100% load factor, earth thermal resistivity (ρ_{90})=90°C-cm/watt for cables buried 36" deep assuming no current in the neutral conductor.

(3) Based on 90°C conductor temperature, 40°C air ambient, coefficient of emissivity of 0.5, no wind, for cables in non-metallic duct above ground assuming no current in the neutral conductor.

(4) Reel sizes may vary. Reeless package (large coil) is available—see Section 6 for Reeless Package description and typical dimensions for selected low-voltage products.

Product Construction:

Complete Cable:

Quadruplex PowrServ® abuse-resistant (AR) cables consist of three phase conductors and one neutral conductor, all of which are insulated with extruded Cross-Linked Polyethylene (XLPE) and jacketed with extruded High-Density Cross-Linked Polyethylene (HDXLPE). The cables are twisted together to form a quadruplex assembly. All cables are manufactured and tested in accordance with ANSI/ICEA standard S-81-570. When specified, the cable is produced in accordance with UL 854 and listed as a Type USE-2 cable.

Conductors:

Class B compressed aluminum 1350-H19 meeting the requirements of ASTM B231.

Insulation and Jacket:

The extruded cross-linked polyethylene insulation meets the requirements of ICEA S-81-570. The extruded high-density cross-linked polyethylene jacket meets the requirements of ASTM D1248, Type III. The three phase conductors are black, and the neutral conductor is black, identified by three extruded yellow stripes.

Features and Benefits:

The dual extruded insulation/jacket system provides a very high degree of protection against insulation damage from unclean backfill material and from cuts and abrasions that can occur during installation. For NEC-complying applications, the maximum conductor operating temperature is 90°C in wet or dry locations. This cable is also suitable for non-code-complying installations with a maximum conductor temperature of 90°C in wet or dry locations in accordance with ICEA specifications.

Applications:

PowrServ® AR XLPE/HDXLPE underground distribution cable is intended for use in underground systems operated at 600 volts or less.

Options:

- Aluminum 1350-H16 conductor
- Copper conductors
- Other phase identification methods
- Sizes 250 through 500 kcmil available with thin wall (0.080") insulation
- CDC® Combined Duct & Cable
- Reeless package
- PE insulated/HDPE jacketed rated 75°C, Type UD-S
- Type USE-2 per UL 854

PowrServ® CDC® Underground Distribution—Secondary Combined Duct & Cable

Secondary Cable Installed in Extruded High-Density Polyethylene Duct

Product Construction:

Complete Assembly:

PowrServ® CDC® Combined Duct & Cable consists of insulated conductor(s) factory installed in a black high-density polyethylene conduit. The polyethylene conduit is extruded directly over any prior-made single or plexed 600 volt cable assembly.

Complete Cable:

All underground distribution cables in PowrServ® CDC® are manufactured and tested in accordance with applicable industry standards and/or individual customer specifications. See the appropriate catalog section for a complete cable description.

Conduit:

The high-density polyethylene EPEC-A conduit is manufactured and tested in accordance with NEMA standard TC7, "Smooth-wall Coilable Electrical Polyethylene Conduit."

Applications:

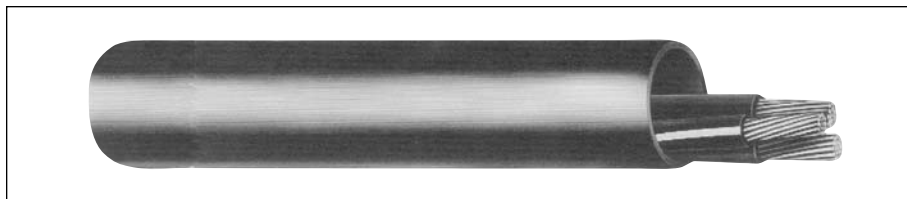
PowrServ® CDC® Combined Duct & Cable offers an economical alternative to pulling cable in previously installed short lengths of duct joined with sleeve couplings. The inherent construction advantages and versatility of the PowrServ® CDC® design are ideally suited for underground secondary distribution systems.

Features and Benefits:

In addition to the initial labor savings achieved from installation of cable and conduit in a single operation, cable replacement costs and ground disruption are significantly less for the PowrServ® CDC® cable system. Tough, yet light and flexible, high-density polyethylene conduit provides ease of installation and high impact resistance for cable protection.

Options:

- EPEC-B, EPEC-40 or EPEC-80 Smooth-Wall Coilable Electrical Polyethylene Conduit to NEMA TC 7
- Grey or red color
- Extruded red stripes



POWERSERV® CDC®

NOMINAL CONDUIT SIZE (INCHES)	MINIMUM I.D. (INCHES)	O.D. (± 0.012") (INCHES)	MINIMUM INSIDE AREA (SQ. INCHES)	APPROX. WEIGHT (LB/1000 FT)	MINIMUM* WALL THICKNESS (INCHES)	MINIMUM BEND RADIUS (INCHES)
1 1/4	1.408	1.660	1.557	240	0.100	18
1 1/2	1.618	1.900	2.056	310	0.115	21
2	2.033	2.375	3.246	475	0.145	26

*The maximum wall thickness is the minimum given above + 0.020 inches.

MAXIMUM CROSS-SECTIONAL AREA OF CONDUCTORS PER CONDUIT

NOMINAL CONDUIT SIZE (INCHES)	MINIMUM INSIDE AREA (SQ. INCHES)	MAXIMUM TOTAL CROSS-SECTIONAL AREA OF CONDUCTORS (SQ. INCHES)			
		53% FILL ONE CONDUCTOR	31% FILL TWO CONDUCTORS	40% FILL THREE CONDUCTORS	40% FILL FOUR CONDUCTORS
1 1/4	1.557	0.825	0.483	0.623	0.623
1 1/2	2.056	1.090	0.637	0.822	0.822
2	3.246	1.720	1.006	1.298	1.298

Note: The maximum percent fill used above is based on 1999 National Electrical Code recommendations. Larger fill areas can be furnished when required by the user.

MAXIMUM DIAMETER OF CONDUCTORS PER CONDUIT

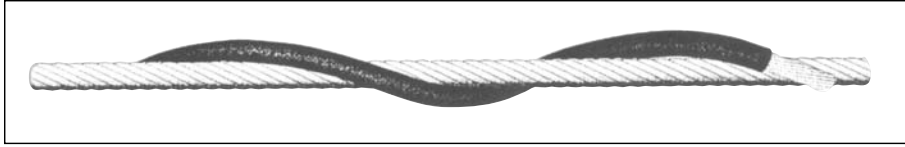
NOMINAL CONDUIT SIZE (INCHES)	MINIMUM I.D. (INCHES)	MAXIMUM DIAMETER OF EACH CONDUCTOR (INCHES)			
		ONE CONDUCTOR	TWO CONDUCTORS	THREE CONDUCTORS	FOUR CONDUCTORS
1 1/4	1.408	1.025	0.555	0.514	0.445
1 1/2	1.618	1.178	0.637	0.591	0.512
2	2.033	1.480	0.800	0.742	0.643

The maximum diameter of each conductor above is based on National Electrical Code recommendations. Larger conductor diameters can be furnished when required by the user. All conductors in the conduit are the same size.

Other conduit sizes may be furnished on request.

PowrServ® OH Service Drop Cable Neutral-Supported

600 V Duplex Al Conductor XLPE Insulation



POWRSERV® OH DUPLEX SERVICE DROP—XLPE INSULATION—600 VOLTS

CODE WORD	PHASE CONDUCTOR			NEUTRAL CONDUCTOR			EFF. O.D. INCHES	NOM. WEIGHT LB/1000 FT		AMPS (1)	PACKAGING (2)	
	SIZE AWG	NO. OF WIRES	INS. THKN. INCHES	SIZE AWG	NO. OF WIRES	RATED STRG. POUNDS		AL.	TOTAL		TYPE & SIZE	LENGTH FEET
ALUMINUM 1350 FULL-SIZE NEUTRAL MESSENGER												
Pekingese/XLP	6	1	0.045	6	7	563	0.44	49	61	110	COIL NR 27.18	1000 3600
Collie/XLP	6	7	0.045	6	7	563	0.45	49	64	110	COIL NR 27.18	1000 3300
Cocker/XLP	6	7	0.060	6	7	563	0.48	49	69	110	COIL NR 30.18	1000 3600
Dachshund/XLP	4	1	0.045	4	7	881	0.53	78	92	145	COIL NR 30.18	1000 2600
Spaniel/XLP	4	7	0.045	4	7	881	0.55	78	96	145	COIL NR 27.18	1000 2200
Cairn/XLP	4	7	0.060	4	7	881	0.58	78	103	145	COIL NR 30.18	1000 2200
Doberman/XLP	2	7	0.045	2	7	1350	0.67	125	147	195	COIL NR 32.24	500 2500
Airedale/XLP	1	19	0.060	1	7	1640	0.76	157	188	225	COIL NR 36.24	500 2500
Basset/XLP	1/0	7	0.060	1/0	7	1990	0.84	199	236	260	COIL NR 32.24	500 1500
Mastiff/XLP	1/0	19	0.060	1/0	7	1990	0.84	199	233	260	COIL NR 32.24	500 1500

(1) Ampacities are based on conductor temperature of 65°C over 25°C ambient, 2 ft/sec crosswind, .9 coefficient of emissivity, no sun.

(2) Normal length and shipping tolerances apply. Reel sizes may vary. Reeless package (large coil) is available—see Section 6 for Reeless Package description and typical dimensions for selected low-voltage products.

Product Construction:

Complete Cable:

Overhead (OH) duplex service drop cable consists of one aluminum conductor insulated Cross-Linked Polyethylene (XLPE), twisted around a bare conductor which serves as a supporting neutral. Service drop cable meets the requirements of ANSI/ICEA Standard S-76-474. Conductors meet ASTM standards B231, B232 and B399 as applicable.

Insulated Conductors:

The all-aluminum stranded conductors are Class A or Class B compressed 1350-H19 aluminum. Solid conductors are H16 temper.

Insulation:

Black extruded Cross-Linked Polyethylene (XLPE).

Bare Neutral:

The all-aluminum stranded conductors are Class AA or Class A 1350-H19 (AAC) or 6201-T81 alloy (AAAC). Class AA aluminum conductor steel reinforced (ACSR) is also available. The direction of lay of the outer layer is right-hand.

Features and Benefits:

The insulated conductors of service drop cables are resistant to weathering, abrasion, tearing, cutting and chemicals. This cable is rated at 600 volts with a maximum conductor operating temperature of 90°C for cross-linked polyethylene insulation.

Applications:

Duplex service drop cable is intended to deliver single phase power from the secondary power line or pole mounted transformer to the service-entrance conductors at the user's building or other structure. It may also be used as pole line secondary with service splices at the pole or in mid-span.

Options:

- Aluminum 1350-H16 conductor
- High-molecular-weight Polyethylene (PE) insulation
- High-Density Polyethylene (HDPE) insulation
- Reeless package

PowrServ® OH Service Drop Cable Neutral-Supported

600 V Duplex Al Conductor XLPE Insulation

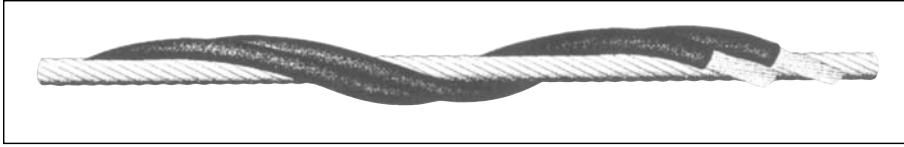
POWRSERV® OH DUPLEX SERVICE DROP—XLPE INSULATION—600 VOLTS												
CODE WORD	PHASE CONDUCTOR			BARE NEUTRAL			EFF. O.D. INCHES	NOM. WEIGHT LB/1000 FT		AMPS (1)	PACKAGING (2)	
	SIZE AWG	NO. OF WIRES	INS. THKN. INCHES	SIZE AWG OR kcmil	NO. OF WIRES	RATED STRG. POUNDS		AL.	TOTAL		TYPE & SIZE	LENGTH FEET
ACSR FULL-SIZE NEUTRAL MESSENGER												
Setter/XLP	6	1	0.045	6	6/1	1190	0.45	49	72	110	COIL NR 27.18	1000 3300
Shepherd/XLP	6	7	0.045	6	6/1	1190	0.47	49	75	110	COIL NR 30.18	1000 3300
Retriever/XLP	6	7	0.060	6	6/1	1190	0.50	49	80	110	COIL NR 30.18	1000 3300
Eskimo/XLP	4	1	0.045	4	6/1	1860	0.54	78	110	145	COIL NR 27.18	1000 2400
Terrier/XLP	4	7	0.045	4	6/1	1860	0.57	78	115	145	COIL NR 30.18	1000 2400
Yorkshire/XLP	4	7	0.060	4	6/1	1860	0.60	78	121	145	COIL NR 30.18	1000 2400
Chow/XLP	2	7	0.045	2	6/1	2850	0.69	125	177	195	COIL NR 32.24	500 2400
Labrador/XLP	1	19	0.060	1	6/1	3550	0.79	157	225	225	COIL NR 36.24	500 2400
Bloodhound/XLP	1/0	7	0.060	1/0	6/1	4380	0.87	198	283	260	COIL NR 32.24	500 1500
Bull/XLP	1/0	19	0.060	1/0	6/1	4380	0.87	198	279	260	COIL NR 32.24	500 1500
ALUMINUM 6201-T81 FULL-SIZE NEUTRAL MESSENGER												
Chihuahua/XLP	6	1	0.045	30.58	7	1110	0.45	53	65	110	COIL NR 27.18	1000 3600
Vizsla/XLP	6	7	0.045	30.58	7	1110	0.47	53	67	110	COIL NR 27.18	1000 3300
Harrier/XLP	4	1	0.045	48.69	7	1760	0.54	84	98	145	COIL NR 30.18	1000 2600
Whippet/XLP	4	7	0.045	48.69	7	1760	0.57	85	103	145	COIL NR 27.18	1000 2200
Schnauzer/XLP	2	7	0.045	77.47	7	2800	0.69	135	157	195	COIL NR 32.24	500 2500
Afghan/XLP	1/0	7	0.060	123.3	7	4270	0.88	215	252	260	COIL NR 32.24	500 1500
Heeler/XLP	1/0	19	0.060	123.3	7	4270	0.87	215	249	260	COIL NR 32.24	500 500

(1) Ampacities are based on conductor temperature of 65°C over 25°C ambient, 2 ft/sec crosswind, .9 coefficient of emissivity, no sun.

(2) Normal length and shipping tolerances apply. Reel sizes may vary. Reeless package (large coil) is available—see Section 6 for Reeless Package description and typical dimensions for selected low-voltage products.

PowrServ® OH Service Drop Cable Neutral-Supported

600 V Triplex Al Conductor XLPE Insulation



POWRSERV® OH TRIPLEX SERVICE DROP—XLPE INSULATION—600 VOLTS

CODE WORD	PHASE CONDUCTOR			NEUTRAL CONDUCTOR			EFF. O.D. INCHES	NOM. WEIGHT LB/1000 FT		AMPS (1)	PACKAGING (2)	
	SIZE AWG	NO. OF WIRES	INS. THKN. INCHES	SIZE AWG	NO. OF WIRES	RATED STRG. POUNDS		AL.	TOTAL		TYPE & SIZE	LENGTH FEET
ALUMINUM 1350 FULL-SIZE NEUTRAL MESSENGER												
Haiotis/XLP	6	1	0.045	6	7	563	0.50	73	97	110	COIL NR 30.18	1000 2500
Patella/XLP	6	7	0.045	6	7	563	0.53	74	102	110	COIL NR 30.18	1000 2200
Oyster/XLP	4	7	0.045	4	7	881	0.63	118	153	145	COIL NR 30.18	500 1500
Clam/XLP	2	7	0.045	2	7	1350	0.76	187	232	195	COIL NR 32.24	500 1800
Pyrula/XLP	1	7	0.060	1	7	1640	0.90	236	305	225	COIL NR 36.24	500 1500
Hyas/XLP	1	19	0.060	1	7	1640	0.87	236	297	225	COIL NR 36.24	500 1500
Murex/XLP	1/0	7	0.060	1/0	7	1990	0.97	298	373	260	COIL NR 36.24	500 1200
Purpura/XLP	1/0	19	0.060	1/0	7	1990	0.96	298	366	260	COIL NR 36.24	500 1200
Nassa/XLP	2/0	7	0.060	2/0	7	2510	1.06	375	461	300	NR 42.26	1500
Trophon/XLP	2/0	19	0.060	2/0	7	2510	1.05	375	451	300	NR 42.26	1500
Melita/XLP	3/0	19	0.060	3/0	19	3310	1.16	473	558	350	NR 42.26	1300
Coquina/XLP	4/0	7	0.060	4/0	7	3830	1.29	597	708	405	NR 42.26	1000
Portunus/XLP	4/0	19	0.060	4/0	19	4020	1.29	597	693	405	NR 42.26	1000

ALUMINUM 1350 REDUCED-SIZE NEUTRAL MESSENGER

Limpet/XLP	4	7	0.045	6	7	563	0.60	102	137	145	COIL NR 30.18	500 1500
Mussel/XLP	2	7	0.045	4	7	881	0.72	164	209	195	COIL NR 32.24	500 1800
Snail/XLP	1/0	7	0.060	2	7	1350	0.92	261	337	260	COIL NR 32.24	500 1200

(1) Ampacities are based on conductor temperature of 65°C over 25°C ambient, 2 ft/sec crosswind, .9 coefficient of emissivity, no sun.

(2) Normal length and shipping tolerances apply. Reel sizes may vary. Reeless package (large coil) is available—see Section 6 for Reeless Package description and typical dimensions for selected low-voltage products.

Product Construction:

Complete Cable:

Overhead (OH) triplex service drop cable consists of two aluminum conductors insulated with Cross-Linked Polyethylene (XLPE), twisted around a bare conductor which serves as a supporting neutral. Service drop cable meets the requirements of ANSI/ICEA standard S-76-474. Conductors meet ASTM standards B231, B232 and B399 as applicable.

Insulated Conductors:

The all-aluminum stranded conductors are Class A or Class B compressed 1350-H19 aluminum. Solid conductors are H16 temper.

Insulation:

Black extruded Cross-Linked Polyethylene (XLPE).

Bare Neutral:

The all-aluminum stranded conductors are Class AA or Class A 1350-H19 (AAC) or 6201-T81 alloy (AAAC). Class AA aluminum conductor steel reinforced (ACSR) is also available. The direction of lay of the outer layer is right-hand.

Features and Benefits:

The insulated conductors of service drop cables are resistant to weathering, abrasion, tearing, cutting and chemicals. This cable is rated at 600 volts with a maximum conductor operating temperature of 90°C for cross-linked polyethylene insulation.

Applications:

Triplex service drop cable is intended to deliver 3-wire single phase power from the secondary power line or pole mounted transformer to the service-entrance conductors at the user's building or other structure. It may also be used as pole line secondary with service splices at the pole or in mid-span.

Options:

- Aluminum 1350-H16 conductor
- High-molecular-weight Polyethylene (PE) insulation
- High-Density Polyethylene (HDPE) insulation
- Reeless package

PowrServ® OH Service Drop Cable Neutral-Supported

600 V Triplex Al Conductor XLPE Insulation

POWRSERV® OH TRIPLEX SERVICE DROP—XLPE INSULATION—600 VOLTS												
CODE WORD	PHASE CONDUCTOR			BARE NEUTRAL			EFF. O.D. INCHES	NOM. WEIGHT LB/1000 FT		AMPS (1)	PACKAGING (2)	
	SIZE AWG	NO. OF WIRES	INS. THKN. INCHES	SIZE AWG	NO. OF WIRES	RATED STRG. POUNDS		AL.	TOTAL		TYPE & SIZE	LENGTH FEET

ACSR FULL-SIZE NEUTRAL MESSENGER

Paludina/XLP	6	1	0.045	6	6/1	1190	0.51	73	108	110	COIL NR 30.18	1000 2500
Voluta/XLP	6	7	0.045	6	6/1	1190	0.54	74	114	110	COIL NR 30.18	1000 2200
Whelk/XLP	4	1	0.045	4	6/1	1860	0.61	116	163	145	COIL NR 30.18	500 1700
Weakfish/XLP	4	1	0.045	4	7/1	2360	0.62	116	173	145	COIL NR 30.18	500 1500
Periwinkle/XLP	4	7	0.045	4	6/1	1860	0.64	118	172	145	COIL NR 30.18	500 1500
Conch/XLP	2	7	0.045	2	6/1	2850	0.77	187	262	195	COIL NR 36.24	500 1800
Vermeths/XLP	1	7	0.060	1	6/1	3550	0.91	236	342	225	COIL NR 36.24	500 1500
Atya/XLP	1	19	0.060	1	6/1	3550	0.89	236	334	225	COIL NR 36.24	500 1500
Neritina/XLP	1/0	7	0.060	1/0	6/1	4380	0.99	297	420	260	COIL NR 36.24	500 1200
Cenia/XLP	1/0	19	0.060	1/0	6/1	4380	0.98	297	413	260	COIL NR 36.24	500 1200
Runcina/XLP	2/0	7	0.060	2/0	6/1	5300	1.09	375	520	300	NR 42.26	1500
Triton/XLP	2/0	19	0.060	2/0	6/1	5300	1.08	375	510	300	NR 42.26	1500
Cherrystone/XLP	3/0	7	0.060	3/0	6/1	6620	1.20	472	644	350	NR 42.26	1300
Mursia/XLP	3/0	19	0.060	3/0	6/1	6620	1.19	472	632	350	NR 42.26	1300
Razor/XLP	4/0	7	0.060	4/0	6/1	8350	1.32	596	801	405	NR 42.26	1000
Zuzara/XLP	4/0	19	0.060	4/0	6/1	8350	1.31	596	786	405	NR 42.26	1000

ACSR REDUCED-SIZE NEUTRAL MESSENGER

Scallop/XLP	4	1	0.045	6	6/1	1190	0.58	101	142	145	COIL NR 30.18	500 1700
Strombus/XLP	4	7	0.045	6	6/1	1190	0.61	103	150	145	COIL NR 30.18	500 1500
Cockle/XLP	2	7	0.045	4	6/1	1860	0.73	164	228	195	COIL NR 32.24	500 1800
Janthina/XLP	1/0	7	0.060	2	6/1	2850	0.93	261	366	260	COIL NR 32.24	500 1200
Ranella/XLP	1/0	19	0.060	2	6/1	2850	0.92	261	358	260	COIL NR 36.24	500 1200
Cavolina/XLP	2/0	7	0.060	1	6/1	3550	1.02	329	452	300	NR 40.24	1500
Clio/XLP	2/0	19	0.060	1	6/1	3550	1.01	329	442	300	NR 40.24	1500
Sanddollar/XLP	3/0	7	0.060	1/0	6/1	4380	1.13	414	558	350	NR 40.24	1300
Aega/XLP	3/0	19	0.060	1/0	6/1	4380	1.12	414	547	350	NR 40.24	1300
Cuttlefish/XLP	4/0	7	0.060	2/0	6/1	5300	1.24	522	692	405	NR 40.24	1000
Cerapus/XLP	4/0	19	0.060	2/0	6/1	5300	1.23	522	677	405	NR 40.24	1000

(1) Ampacities are based on conductor temperature of 65°C over 25°C ambient, 2 ft/sec crosswind, .9 coefficient of emissivity, no sun.

(2) Normal length and shipping tolerances apply. Reel sizes may vary. Reeless package (large coil) is available—see Section 6 for Reeless Package description and typical dimensions for selected low-voltage products.

PowrServ® OH Service Drop Cable Neutral-Supported

600 V Triplex Al Conductor XLPE Insulation

POWRSERV® OH TRIPLEX SERVICE DROP—XLPE INSULATION—600 VOLTS

CODE WORD	PHASE CONDUCTOR			BARE NEUTRAL			EFF. O.D. INCHES	NOM. WEIGHT LB/1000 FT		AMPS (1)	PACKAGING (2)	
	SIZE AWG	NO. OF WIRES	INS. THKN. INCHES	SIZE kcmil	NO. OF WIRES	RATED STRG. POUNDS		AL.	TOTAL		TYPE & SIZE	LENGTH FEET

6201-T81 FULL-SIZE NEUTRAL MESSENGER

Hippa/XLP	6	7	0.045	30.58	7	1110	0.54	78	106	110	COIL NR 30.18	1000 2200
Barnacles/XLP	4	7	0.045	48.69	7	1760	0.64	124	160	145	COIL NR 30.18	500 1500
Shrimp/XLP	2	7	0.045	77.47	7	2800	0.77	197	242	195	COIL NR 32.24	500 1800
Gammarus/XLP	1/0	7	0.060	123.3	7	4280	0.99	313	389	260	COIL NR 36.24	500 1200
Leda/XLP	1/0	19	0.060	123.3	7	4280	0.98	313	382	260	COIL NR 36.24	500 1200
Dungeness/XLP	2/0	7	0.060	155.4	7	5390	1.09	395	481	300	NR 42.26	1500
Cyclops/XLP	2/0	19	0.060	155.4	7	5390	1.08	395	472	300	NR 42.26	1500
Flustra/XLP	3/0	19	0.060	195.7	7	6790	1.19	497	584	350	NR 42.26	1300
Lepas/XLP	4/0	19	0.060	246.9	7	8560	1.31	627	724	405	NR 42.26	1000

6201-T81 REDUCED-SIZE NEUTRAL MESSENGER

Artemia/XLP	4	1	0.045	30.58	7	1110	0.58	106	134	145	COIL NR 30.18	500 1700
Crab/XLP	4	7	0.045	30.58	7	1110	0.61	107	143	145	COIL NR 30.18	500 1500
Solaster/XLP	2	7	0.045	48.69	7	1760	0.73	170	215	195	COIL NR 32.24	500 1800
Sandcrab/XLP	1/0	7	0.060	77.47	7	2800	0.93	271	347	260	COIL NR 32.24	500 200
Fulgar/XLP	3/0	19	0.060	123.3	7	4280	1.12	431	516	350	NR 40.24	1300
Squid/XLP	4/0	7	0.060	155.4	7	5390	1.24	543	654	405	NR 40.24	1000
Arca/XLP	4/0	19	0.060	155.4	7	5390	1.23	543	639	405	NR 40.24	1000

(1) Ampacities are based on conductor temperature of 65°C over 25°C ambient, 2 ft/sec crosswind, .9 coefficient of emissivity, no sun.

(2) Normal length and shipping tolerances apply. Reel sizes may vary. Reeless package (large coil) is available—see Section 6 for Reeless Package description and typical dimensions for selected low-voltage products.

PowrServ® OH Service Drop Cable Neutral-Supported

600 V Quadruplex Al Conductor XLPE Insulation

Product Construction:

Complete Cable:

Overhead (OH) Quadruplex Service Drop Cable consists of three aluminum conductors insulated with cross-linked polyethylene (XLPE), twisted around a bare conductor which serves as a supporting neutral. Service Drop Cable meets the requirements of ANSI/ICEA Standard S-76-474. Conductors meet ASTM Standards B231, B232 and B399 as applicable.

Insulated Conductors:

The all-aluminum stranded conductors are Class A or Class B compressed 1350-H19 aluminum. Solid conductors are H16 temper.

Insulation:

Black extruded cross-linked polyethylene (XLPE).

Bare Neutral:

The all-aluminum stranded conductors are Class AA or Class A 1350-H19 (AAC) or 6201-T81 alloy (AAAC). Class AA aluminum conductor steel reinforced (ACSR) is also available. The direction of lay of the outer layer is right-hand.

Features and Benefits:

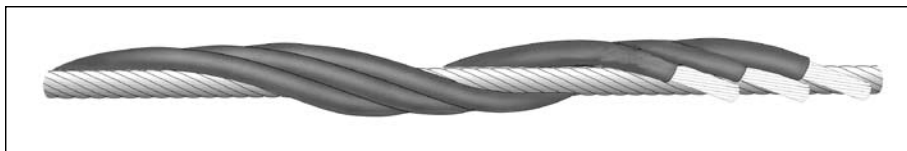
The insulated conductors of Service Drop Cables are resistant to weathering, abrasion, tearing, cutting and chemicals. This cable is rated at 600 volts with a maximum conductor operation temperature of 90°C for cross-linked polyethylene insulation.

Applications:

Quadruplex Service Drop Cable is intended to deliver 4-wire three phase power from the secondary power line or pole-mounted transformer to the service-entrance conductors at the user's building or other structure. It may also be used as pole line secondary with service splices at the pole or in mid-span.

Options:

- Aluminum 1350-H16 conductor
- High-molecular-weight polyethylene (PE) insulation
- High-density polyethylene (HDPE) insulation
- Reeless Package



POWRSERV® OH QUADRUPLEX SERVICE DROP—XLPE INSULATION—600 VOLTS

CODE WORD	PHASE CONDUCTOR			NEUTRAL CONDUCTOR			EFF. O.D. INCHES	NOM. WEIGHT LB/1000 FT		AMPS (1)	PACKAGING (2)	
	SIZE AWG	NO. OF WIRES	INS. THKN. INCHES	SIZE AWG	NO. OF WIRES	RATED STRG. POUNDS		AL.	TOTAL		TYPE & SIZE	LENGTH FEET
ALUMINUM 1350 FULL-SIZE NEUTRAL MESSENGER												
Quarter/XLP	6	1	0.045	6	7	563	0.57	97	133	105	COIL NR 32.24	500 2500
Clydesdale/XLP	4	1	0.045	4	7	881	0.67	155	197	135	COIL NR 32.24	500 1700
Pinto/XLP	4	7	0.045	4	7	881	0.71	157	210	135	COIL NR 32.24	500 1700
Mustang/XLP	2	7	0.045	2	7	1350	0.85	250	317	175	NR 40.24	1800
Shire/XLP	1	19	0.060	1	7	1640	1.00	315	408	205	NR 40.24	1500
Libyan/XLP	1/0	7	0.060	1/0	7	1990	1.09	397	510	240	NR 40.24	1200
Criollo/XLP	1/0	19	0.060	1/0	7	1990	1.08	397	499	240	NR 40.24	1200
Orloff/XLP	2/0	7	0.060	2/0	7	2510	1.20	501	629	280	NR 45.28	1500
Percheron/XLP	2/0	19	0.060	2/0	7	2510	1.19	501	614	280	NR 45.28	1500
Mongolian/XLP	3/0	7	0.060	3/0	7	3040	1.32	631	776	325	NR 45.28	1300
Hanoverian/XLP	3/0	19	0.060	3/0	19	3310	1.31	631	758	325	NR 45.28	1300
Singlefoot/XLP	4/0	7	0.060	4/0	7	3830	1.45	796	962	375	NR 50.32	1100
Oldenberg/XLP	4/0	19	0.060	4/0	19	4020	1.44	796	939	375	NR 50.32	1100

(1) Ampacities are based on conductor temperature of 65°C over 25°C ambient, 2 ft/sec crosswind, .9 coefficient of emissivity, no sun.

(2) Normal length and shipping tolerances apply. Reel sizes may vary. Reeless package (large coil) is available—see Section 6 for Reeless Package description and typical dimensions for selected low-voltage products.

PowrServ® OH Service Drop Cable Neutral-Supported

600 V Quadruplex Al Conductor XLPE Insulation

POWRSERV® OH QUADRUPLIX SERVICE DROP—XLPE INSULATION—600 VOLTS

CODE WORD	PHASE CONDUCTOR			BARE NEUTRAL			EFF. O.D. INCHES	NOM. WEIGHT LB/1000 FT		AMPS (1)	PACKAGING (2)	
	SIZE AWG	NO. OF WIRES	INS. THKN. INCHES	SIZE AWG OR kcmil	NO. OF WIRES	RATED STRG. POUNDS		AL.	TOTAL		TYPE & SIZE	LENGTH FEET

ACSR FULL-SIZE NEUTRAL MESSENGER

Morchuca/XLP	6	1	0.045	6	6/1	1190	0.58	97	144	105	COIL NR 32.24	500 2500
Chola/XLP	6	7	0.045	6	6/1	1190	0.61	99	153	105	COIL NR 32.24	500 2500
Morgan/XLP	4	1	0.045	4	6/1	1860	0.69	154	216	135	COIL NR 32.24	500 1700
Hackney/XLP	4	7	0.045	4	6/1	1860	0.72	157	229	135	COIL NR 32.24	500 1700
Palomino/XLP	2	7	0.045	2	6/1	2850	0.87	249	347	175	NR 40.24	1800
Albino/XLP	1	19	0.060	1	6/1	3550	1.02	314	446	205	NR 40.24	1500
Standardbred/ XLP	1/0	7	0.060	1/0	6/1	4380	1.11	397	557	240	NR 40.24	1203
Costena/XLP	1/0	19	0.060	1/0	6/1	4380	1.10	397	546	240	NR 42.26	1200
Chicoteagues/ XLP	2/0	7	0.060	2/0	6/1	5300	1.22	500	688	280	NR 45.28	1500
Grullo/XLP	2/0	19	0.060	2/0	6/1	5300	1.20	500	673	280	NR 45.28	1500
Mare/XLP	3/0	7	0.060	3/0	6/1	6620	1.34	630	850	325	NR 50.32	1300
Suffolk/XLP	3/0	19	0.060	3/0	6/1	6620	1.32	630	833	325	NR 50.32	1300
Stallion/XLP	4/0	7	0.060	4/0	6/1	8350	1.48	795	1055	375	NR 50.32	1100
Appaloosa/XLP	4/0	19	0.060	4/0	6/1	8350	1.46	795	1033	375	NR 50.32	1100

6201-T81 FULL-SIZE NEUTRAL MESSENGER

Arabian/XLP	4	7	0.045	48.69	7	1760	0.72	163	217	135	COIL NR 32.24	500 1700
Belgian/XLP	2	7	0.045	77.47	7	2800	0.87	260	327	175	NR 40.24	1800
Shetland/XLP	1/0	19	0.060	123.3	7	4270	1.10	413	515	240	NR 40.24	1200
Thoroughbred/ XLP	2/0	19	0.060	155.4	7	5390	1.20	521	635	280	NR 45.28	1500
Trotter/XLP	3/0	19	0.060	195.7	7	6790	1.32	656	784	325	NR 50.32	1300
Walking/XLP	4/0	19	0.060	246.9	7	8560	1.46	828	971	375	NR 50.32	1100

(1) Ampacities are based on conductor temperature of 65°C over 25°C ambient, 2 ft/sec crosswind, .9 coefficient of emissivity, no sun.

(2) Normal length and shipping tolerances apply. Reel sizes may vary. Reeless package (large coil) is available—see Section 6 for Reeless Package description and typical dimensions for selected low-voltage products.

PowrServ® OH Secondary Cable Neutral-Supported Type RTS

600 V Triplex Al Conductor XLPE Insulation Reverse Twist Secondary (RTS)

Product Construction:

Complete Cable:

Reverse Twist Secondary (RTS) cable consists of two aluminum conductors insulated with cross-linked polyethylene, reverse twisted around an aluminum alloy or an ACSR conductor which serves as a supporting neutral. RTS cable meets the requirements of ANSI/ICEA standard S-76-474 as applicable. Conductors meet ASTM standards B231, B232 and B399 as applicable.

Insulated Conductors:

The all-aluminum stranded conductors are Class A or Class B compressed 1350-H19 aluminum.

Insulation:

Black extruded Cross-Linked Polyethylene (XLPE).

Bare Neutral:

Class AA or Class A stranded 6201-T81 aluminum alloy, or Class AA aluminum conductor steel reinforced (ACSR). The outer layer is right-hand lay.

Lashing Wire:

Aluminum 1350 wire, either flat wire approximately #10 AWG with beveled edges or #10 AWG wire covered with high-density polyethylene.

Features and Benefits:

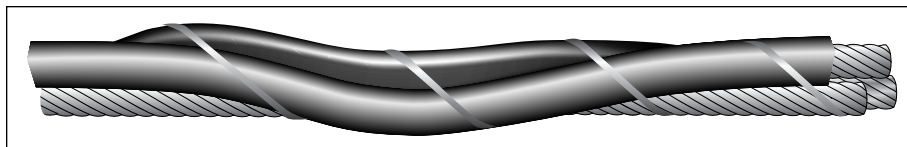
The insulated conductors of RTS cables are resistant to weathering, abrasion, tearing, cutting and chemicals. Conventional equipment can be used to string RTS. This cable is rated at 600 volts with a maximum conductor operations temperature of 90°C for extruded cross-linked polyethylene insulation.

Applications:

Reverse twist secondary cable is used as a secondary overhead distribution cable for 3-wire single phase power. The alternating lay direction (left-right-left) provides additional cable length for mid-span taps.

Options:

- Aluminum 1350-H16 conductor
- High-molecular-weight Polyethylene (PE) insulation
- High-Density Polyethylene (HDPE) insulation
- Separator tape under insulation



POWRSERV® OH TRIPLEX REVERSE TWIST SECONDARY-XLPE INSULATION

CODE WORD	PHASE CONDUCTOR			NEUTRAL CONDUCTOR			EFF. O.D. INCHES	NOM. WEIGHT LB/1000 FT		AMPS (1)	PACKAGING (2)	
	SIZE AWG	NO. OF WIRES	INS. THKN. INCHES	SIZE AWG OR kcmil	NO. OF WIRES	RATED STRG. POUNDS		AL.	TOTAL		TYPE & SIZE	LENGTH FEET

ALUMINUM 6201-T81 NEUTRAL MESSENGER

Pope/XLP	2	7	0.045	77.47	7	2800	0.77	197	242	195	NR 32.24 NR 42.26	1100 2100
Auburn/XLP	1/0	7	0.060	123.3	7	4270	0.98	314	382	260	NR 40.24 NR 50.32	1100 2500
Rockne/XLP	2/0	7	0.060	155.4	7	5390	1.08	396	472	300	NR 40.24 NR 50.32	1000 2000
Case/XLP	3/0	7	0.060	195.7	7	6790	1.19	499	584	350	NR 42.26 NR 58.32	1000 2500
Durant/XLP	4/0	7	0.060	246.9	7	8560	1.31	629	724	405	NR 50.32 NR 66.36 NR 66.36	1300 2700 3400
-none-	266.8	19	0.080	312.8	19	10500	1.54	794	941	470	NR 66.36 NR 66.36	1600 2400
-none-	336.4	19	0.080	394.5	19	13300	1.70	1002	1167	550	NR 66.36 NR 66.36	1500 2000
-none-	397.5	19	0.080	465.4	19	15600	1.83	1183	1363	610	NR 66.36 NR 66.36	1200 1600

ACSR FULL-SIZE NEUTRAL MESSENGER

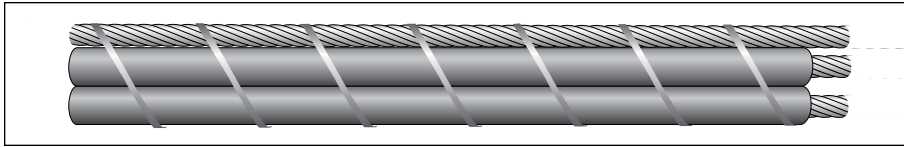
Edsel/XLP	2	7	0.045	2	6/1	2850	0.77	187	262	195	NR 32.24 NR 42.26	1100 2100
Essex/XLP	1/0	7	0.060	1/0	6/1	4380	0.98	297	413	260	NR 40.24 NR 50.32	1100 2500
Cord/XLP	2/0	7	0.060	2/0	6/1	5300	1.08	375	510	300	NR 40.24 NR 50.32	1000 2000
Stutz/XLP	3/0	7	0.060	3/0	6/1	6620	1.19	472	632	350	NR 42.26 NR 58.32	1000 2500
Reo/XLP	4/0	7	0.060	4/0	6/1	8350	1.31	596	786	405	NR 50.32 NR 66.36 NR 66.36	1300 2700 3400
-none-	266.8	19	0.080	266.8	26/7	11300	1.54	754	1018	470	NR 66.36 NR 66.36	1600 2400
-none-	336.4	19	0.080	336.4	26/7	14100	1.70	950	1263	550	NR 66.36 NR 66.36	1500 2000
-none-	397.5	19	0.080	397.5	26/7	16300	1.83	1123	1477	610	NR 66.36 NR 66.36	1200 1600

(1) Ampacities are based on conductor temperature of 65°C over 25°C ambient, 2 ft/sec crosswind, .9 coefficient of emissivity, no sun.

(2) Normal length and shipping tolerances apply. Reel sizes may vary.

PowrServ® OH Secondary Cable Neutral-Supported Type PLAC

600 V Triplex Al Conductor XLPE Insulation Parallel Secondary (PLAC)



POWRSERV® OH TRIPLEX PARALLEL SECONDARY–XLPE INSULATION

CODE WORD	PHASE CONDUCTOR			NEUTRAL CONDUCTOR			O.D. INCHES		NOM. WEIGHT LB/1000 FT		AMPS (1)	PACKAGING (2)	
	SIZE AWG	NO. OF WIRES	INS. THKN. INCHES	SIZE AWG OR kcmil	NO. OF WIRES	RATED STRG. POUNDS						TYPE & SIZE	LENGTH FEET
							MINOR	MAJOR	AL.	TOTAL			
ALUMINUM 6201-T81 NEUTRAL MESSENGER													
Fire Island/ XLP	2	7	0.045	77.47	7	2800	0.37	1.06	197	242	195	NR 40.26 NR 42.26	2100 3000
Hot Springs/ XLP	1/0	7	0.060	123.3	7	4270	0.47	1.34	314	382	260	NR 42.26 NR 50.32	2000 3500
Mesa Verde/ XLP	2/0	7	0.060	155.4	7	5390	0.52	1.48	396	472	300	NR 45.28 NR 50.32	1800 3010
Padre Island/ XLP	3/0	7	0.060	195.7	7	6790	0.56	1.63	499	584	350	NR 42.26 NR 50.32	1560 2690
Tumacacori/ XLP	4/0	7	0.060	246.9	7	8560	0.62	1.80	629	724	405	NR 45.28 NR 50.42 NR 58.32	1290 2100 2100
-none-	266.8	19	0.080	312.8	19	10500	0.73	2.11	794	941	470	NR 42.26 NR 50.32 NR 66.36 NR 72.36	930 1585 2730 3700
-none-	336.4	19	0.080	394.5	19	13300	0.81	2.33	1002	1167	550	NR 50.32 NR 66.36 NR 66.36	1260 2390 3000
-none-	397.5	19	0.080	465.4	19	15600	0.86	2.51	1183	1363	610	NR 50.32 NR 66.36 NR 72.36	1050 2050 2600

ACSR FULL-SIZE NEUTRAL MESSENGER

Flathead/ XLP	2	7	0.045	2	6/1	2850	0.37	1.06	187	262	195	NR 36.24 NR 42.26	2100 3000
Homochitto/ XLP	1/0	7	0.060	1/0	6/1	4380	0.47	1.34	297	413	260	NR 40.26 NR 50.32	2000 3500
Malheur/ XLP	2/0	7	0.060	2/0	6/1	5300	0.52	1.48	375	510	300	NR 45.28 NR 50.32	1800 3010
Payette/XLP	3/0	7	0.060	3/0	6/1	6620	0.56	1.63	472	632	350	NR 42.26 NR 58.32	1560 2690
Teton/XLP	4/0	7	0.060	4/0	6/1	8350	0.62	1.80	596	786	405	NR 45.28 NR 50.32 NR 58.32	1290 2100 2960
-none-	266.8	19	0.080	266.8	26/7	11300	0.73	2.11	754	1018	470	NR 42.26 NR 50.32 NR 66.36 NR 73.36	930 1585 2730 3700
-none-	336.4	19	0.080	336.4	26/7	14100	0.81	2.33	950	1263	550	NR 50.32 NR 66.36 NR 66.36	1260 2390 3000
-none-	397.5	19	0.080	397.5	26/7	16300	0.86	2.51	1123	1477	610	NR 50.32 NR 66.36 NR 72.36	1050 2050 2600

(1) Ampacities are based on conductor temperature of 65°C over 25°C ambient, 2 ft/sec crosswind, .9 coefficient of emissivity, no sun.

(2) Normal length and shipping tolerances apply. Reel sizes may vary.

Product Construction:

Complete Cable:

Triplex Parallel Lashed Aerial Cable (PLAC) consists of two aluminum conductors insulated with cross-linked polyethylene, and one bare aluminum alloy or an ACSR conductor laid parallel to each other. The bare conductor, which serves as a supporting neutral, is in the outside position. The cable is bound together with lashing wire with a lay of from four to six inches.

Type PLAC cable meets the requirements of ANSI/ICEA standard S-76-474. Conductors meet ASTM standards B231, B232 and B399 as applicable.

Insulated Conductors:

The all-aluminum stranded conductors are Class A or Class B compressed 1350-H19 aluminum.

Insulation:

Black extruded Cross-Linked Polyethylene (XLPE).

Bare Neutral:

Class AA or Class A stranded 6201-T81 aluminum alloy, or Class AA aluminum conductor steel-reinforced (ACSR). The outer layer is right-hand lay.

Lashing Wire:

Aluminum 1350 wire, either flat wire approximately #10 AWG with beveled edges or #10 AWG wire covered with high-density polyethylene.

Features and Benefits:

The insulated conductors are of Type PLAC cables and are resistant to weathering, abrasion, tearing, cutting and chemicals. This cable is rated at 600 volts with a maximum conductor operations temperature of 90°C for cross-linked polyethylene insulation.

Applications:

Triplexed parallel lashed aerial cable is used as a secondary overhead distribution cable for 3-wire single phase power.

Options:

- Aluminum 1350-H16 conductor
- High-molecular-weight Polyethylene (PE) insulation
- High-Density Polyethylene (HDPE) insulation
- Separator tape under insulation

Medium-Voltage Power Cable



EmPowr®

Underground Distribution and Shielded Power Cables

General Cable's EmPowr® underground distribution and shielded power cables are manufactured and tested in accordance with ANSI/ICEA S-94-649 for Type URD concentric neutral and flat strap cable designs or ANSI/ICEA S-97-682 for copper wire, tape and LACT shielded power cable designs. Our cables also meet the latest requirements of AEIC CS8 and RUS U-1 as applicable.

Conductors are available in solid or class B compressed concentric lay stranded aluminum or copper, meeting the appropriate requirements of ICEA and ASTM. Stranded conductors can be blocked to prevent longitudinal movement of moisture along the cable. When applicable, STRANDFILL® conductors are tested in accordance with ICEA T-31-610.

Exceptional measures are taken during the materials handling and extrusion processes to ensure our cable delivers the reliability and longevity expected by our customers. Semi-conducting shield compounds are supplied and handled in an ultra-clean environment. Compounds are supplied in specially designed ultra-clean containers (protective outer box with a sealed removable inner lining) and handled within Class 10,000 clean rooms. In addition to the special materials handling, the conductor shield, insulation and insulation shield are applied using triple extrusion technology. These extra measures provide our customers with the highest-quality cable products available in the industry.

Designs are available with either Tree-Retardant Crosslinked Polyethylene (TRXLPE) or Ethylene Propylene Rubber (EPR) insulation. Our EmPowr® Link TRXLPE insulated cables offer high dielectric strength with extremely low dielectric loss characteristics. TRXLPE insulation is an economical option for the high-volume usage in underground residential systems. Our EmPowr® Fill EPR insulated cables are flexible for easy handling and exhibit excellent heat and moisture resistance. The physical and thermal characteristics of EPR insulation result in a high resistance to deformation. EPR insulation is typically specified for heavily loaded circuits such as feeders and network systems.

Cables are available with various metallic shields that include round wires, helically applied copper tape, flat copper straps or longitudinally applied corrugated copper tape. Combinations of water-swallowable tapes and powders applied between the insulation shield and jacket provide maximum moisture migration protection. When applicable, BIFILL® and TRIFILL® water-blocked cables are tested in accordance with ICEA T-34-664.

A growing alternative to direct buried cable or pulling cable in rigid conduit is purchasing cable pre-installed in flexible duct. Our CDC® Combined Duct & Cable offers mechanical protection comparable to rigid polyethylene duct and saves labor to pull cable into rigid duct. CDC® can also save considerable costs associated with cable replacement as compared to direct buried cable installations.

General Cable provides a number of underground cables designed to meet special applications. For example, our PowrPak cables are intended for use in today's aging and expanding urban underground distribution systems of utilities where PILC has been used previously. Our unique PowrPak design and special manufacturing techniques allow a diameter reduction of more than 15 percent relative to standard AEIC solid dielectric cables. The smaller diameter permits PowrPak to be installed into existing ductwork ... a feat not always possible with other types of PILC replacement cable.

Medium-Voltage Options:

- **Copper conductor** – Primarily used when more ampacity is needed and/or there are limitations to the overall cable diameter.
- **STRANDFILL®** – Limits the ingress of water into the conductor during cable manufacture, storage, installation and after service failure.
- **BIFILL®** – Limits the ingress of water into the conductor and underneath the outer cable jacket during cable manufacture, storage, installation and after service failure.
- **EPR Type III 105°C rating** – Allows a slightly higher ampacity of the cable for a given installation condition.
- **TRXLPE Type III 105°C rating** – Allows a slightly higher ampacity of the cable for a given installation condition.
- **Dry cure for EPR insulated cables** – More of a preference.
- **Flat strap neutrals** – Reduce the overall cable diameter and can provide more protective coverage over the extruded cable core.
- **Red stripes** – Used for identifying medium-voltage power cables.
- **Semiconducting jackets** – Provide an electrical connection with the earth in direct burial applications, which allows a reduction of ground rods per mile in accordance with the NESC.
- **PVC jacket** – PVC can provide a flame-retardant cable design but is susceptible to degradation by some hydrocarbons, ketones, esters, and chlorinated hydrocarbons. This option should not be applied in applications where these materials can come in contact with the cable jacket. PVC cable jackets require a separator tape under jacket to protect the extruded semiconducting insulation shield from plasticizers.
- **Deformation-resistant Polypropylene (PP)** – Used in applications requiring an outer jacket that is more deformation-resistant at higher temperatures and/or provides better mechanical protection during installation.
- **CDC® Combined Duct & Cable** – Used for applications where future cable replacement is anticipated and access to the cable is prohibited. Combined Duct and Cable can also help protect the cable during direct burial installation.
- **UL Type MV-90 or MV-105** – Used in applications where UL Listed cable is required for NEC installations.
- **UltraPowr®** – A supersmooth and extra-clean thermoset conductor shield compound that provides a smoother interface with the insulation. This type of conductor shield is only used with TRXLPE and XLPE insulated cables.
- **Low strip insulation shield (TRXLPE only)** – An easier-stripping insulation shield, with adhesion to the insulation in the 3-10 lb range at room temperature.
- **Triplexed or paralleled** – Provides the user with all three phases on one reel for easier installation set-up.
- **Three conductor cable with an overall jacket** – More of a preference.
- **TRIFILL®** – Limits the ingress of water into the conductor, between the insulation shield/metallic shield and metallic shield/outer jacket during cable manufacture, storage, installation and after service failure. Used with LACT shielded cable only.
- **Class C copper** – Provides a more flexible conductor than the standard Class B stranding.
- **Reduced insulation wall** – A reduced wall insulation thickness is only recommended when a compact conductor, reduced extruded shield thickness, flat strap neutral and reduced outer jacket thickness have not reduced the overall cable diameter enough for adequate duct clearance during installation. Mainly used for replacement of PILC cables.

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Notes

EmPowr® Fill Underground Distribution Cable 5-46 kV

Al Conductor EPR Insulation Concentric Neutral LLDPE Jacket



UNDERGROUND DISTRIBUTION CABLE-15 kV-TYPE URD-FULL NEUTRAL

COMPRESSED CONDUCTOR		COPPER NEUTRAL		DIAMETER (1) INCHES			NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (2)	
AL. AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSULATION		ENCAP LLDPE JACKET		AL. COND.	CU. NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
				MIN.	MAX.							

175 mils NOMINAL EPR INSULATION-100% INSULATION LEVEL (3)

2	1	10	14	0.610	0.695	0.940	0.055	61	133	475	190	130
2	7	10	14	0.635	0.720	0.965	0.055	62	133	494	190	130
1	1	13	14	0.645	0.725	0.971	0.055	77	173	542	215	150
1	19	13	14	0.675	0.760	1.004	0.055	78	173	563	215	150
1/0	1	16	14	0.680	0.760	1.007	0.055	97	213	617	240	170
1/0	19	16	14	0.715	0.800	1.044	0.055	99	213	641	240	170
2/0	19	20	14	0.760	0.845	1.088	0.055	125	266	738	275	195
3/0	19	16	12	0.810	0.895	1.172	0.055	157	338	886	315	220
4/0	19	20	12	0.865	0.950	1.228	0.055	198	423	1034	360	250

220 mils NOMINAL EPR INSULATION-133% INSULATION LEVEL

2	1	10	14	0.700	0.790	1.030	0.055	61	133	542	190	130
2	7	10	14	0.725	0.815	1.055	0.055	62	133	563	190	130
1	1	13	14	0.735	0.820	1.061	0.055	77	173	612	215	150
1	19	13	14	0.765	0.855	1.094	0.055	78	173	635	215	150
1/0	1	16	14	0.770	0.855	1.097	0.055	97	213	689	240	170
1/0	19	16	14	0.805	0.895	1.134	0.055	99	213	716	240	170
2/0	19	20	14	0.850	0.935	1.178	0.055	125	267	816	275	195
3/0	19	16	12	0.900	0.985	1.262	0.055	158	338	970	315	220
4/0	19	20	12	0.955	1.045	1.318	0.055	199	423	1121	360	250

(1) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/ICEA S-94-649 for concentric neutral cables rated 5-46 kV and also meet the requirements of the latest revisions of AIEC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances.

(2) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values based on single phase operation, with full current return in the neutral wires.

(3) REA Bulletin 50-70 (U-1) dated 12/28/87 requires 220 mil insulation thickness for 15 kV cable and 345 mil insulation thickness for 25 kV cable.

Product Construction:

Complete Cable:

Cross-linked semi-conducting conductor shield, insulation and semi-conducting insulation shield are extruded over an aluminum conductor and cured in a single operation. Uncoated copper wires (helically applied) and extruded-to-fill black jacket are applied over the cable core.

Conductor:

Solid or Class B compressed concentric lay stranded 1350 aluminum meeting the requirements of ANSI/ICEA S-94-649.

Conductor Shield:

Extruded semi-conducting thermosetting polymeric stress control layer.

Insulation:

Extruded Ethylene Propylene Rubber (EPR) Class II and III as defined in ANSI/ICEA S-94-649.

Insulation Shield:

Extruded semi-conducting thermosetting layer, clean- and free-stripping from insulation.

Metallic Shield:

Helically applied, annealed, solid bare copper wires.

Jacket:

Black, non-conducting, Linear Low-Density Polyethylene (LLDPE) extruded to fill spaces between neutral wires.

Features and Benefits:

- Triple extruded for clean interfaces
- Class 10,000 environment utilized for material handling
- Flexibility for easy handling
- Excellent moisture resistance
- Deformation-resistant
- High dielectric strength
- Low dielectric loss
- Excellent resistance to treeing
- Clean-stripping insulation shield without the use of a release agent

Temperature Rating:

- Normal..... 105°C
- Emergency* 140°C
- Short Circuit 250°C

* Operation at the emergency overload temperature shall not exceed 1500 hours cumulative during the lifetime of the cable.

Standards and Specifications:

General Cable BICC® Brand Electric Utility Products meet the latest requirements of ANSI/ICEA S-94-649, AIEC CS8 and RUS U-1 as applicable for Ethylene Propylene Rubber (EPR) insulated concentric neutral cable.

EmPowr® Fill Underground Distribution Cable 5-46 kV

Al Conductor EPR Insulation Concentric Neutral LLDPE Jacket

Applications:

EmPowr® fill cables are intended for use in dry or wet locations for distribution of single- or three- phase medium-voltage power. Cables with a full neutral are designed for use on single-phase URD applications. One-third neutral cables are designed for use in three-phase URD applications. These cables may be installed in ducts or direct buried.

Options:

- Copper conductors
- STRANDFILL® blocked conductor. Tested in accordance with ICEA T-31-610
- BIFILL® blocked conductor and cable core/ jacket. Tested in accordance with ICEA T-34-664
- Dry nitrogen cure
- Flat strap concentric neutral
- Red stripes on jacket
- Semi-conducting thermoplastic jacket
- Overlaying PVC jacket with separator tape
- Deformation-resistant polypropylene jacket
- CDC® Combined Duct & Cable
- 3 X 1/C triplex or parallel
- Type MV-90 UL 1072
- Type MV-105 UL 1072 (PVC jacket only)
- UL listed

For information on conductor sizes or voltage ratings not shown in the tables, contact your General Cable sales representative or e-mail info@generalcable.com.

UNDERGROUND DISTRIBUTION CABLE-15 kV-TYPE URD-1/3 NEUTRAL												
COMPRESSED CONDUCTOR		COPPER NEUTRAL		DIAMETER (1) INCHES		NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (2)		
AL. AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSULATION			ENCAP LLDPE JACKET	AL. COND.	CU. NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
				MIN.	MAX.							

175 mils NOMINAL EPR INSULATION-100% INSULATION LEVEL (3)

2	1	6	14	0.610	0.695	0.940	0.055	61	80	427	170	130
2	7	6	14	0.635	0.720	0.965	0.055	62	80	446	170	130
1	1	6	14	0.645	0.725	0.971	0.055	77	80	459	195	150
1	19	6	14	0.675	0.760	1.004	0.055	78	80	480	195	150
1/0	1	6	14	0.680	0.760	1.007	0.055	97	80	497	225	170
1/0	19	6	14	0.715	0.800	1.044	0.055	99	80	521	225	170
2/0	19	7	14	0.760	0.845	1.088	0.055	125	93	583	255	200
3/0	19	9	14	0.810	0.895	1.138	0.055	158	120	666	290	225
4/0	19	11	14	0.865	0.950	1.194	0.055	199	147	761	330	255
250	37	13	14	0.920	1.005	1.250	0.055	234	173	851	365	280
350	37	18	14	1.025	1.110	1.373	0.055	329	240	1082	440	340
500	37	16	12	1.150	1.235	1.535	0.055	468	338	1414	530	420
750	61	24	12	1.340	1.425	1.772	0.080	703	508	1966	640	510
1000	61	20	10	1.485	1.575	1.963	0.080	937	673	2491	730	595

220 mils NOMINAL EPR INSULATION-133% INSULATION LEVEL

2	1	6	14	0.700	0.790	1.030	0.055	61	80	495	170	130
2	7	6	14	0.725	0.815	1.055	0.055	62	80	515	170	130
1	1	6	14	0.735	0.820	1.061	0.055	77	80	528	195	150
1	19	6	14	0.765	0.855	1.094	0.055	78	80	552	195	150
1/0	1	6	14	0.770	0.855	1.097	0.055	97	80	569	225	170
1/0	19	6	14	0.805	0.895	1.134	0.055	99	80	596	225	170
2/0	19	7	14	0.850	0.935	1.178	0.055	125	93	661	255	200
3/0	19	9	14	0.900	0.985	1.228	0.055	158	120	747	290	225
4/0	19	11	14	0.955	1.045	1.284	0.055	199	147	846	330	255
250	37	13	14	1.010	1.100	1.360	0.055	234	173	962	365	280
350	37	18	14	1.115	1.200	1.463	0.055	329	240	1181	440	340
500	37	16	12	1.240	1.330	1.625	0.055	468	339	1523	530	420
750	61	24	12	1.430	1.520	1.862	0.080	703	508	2092	640	510
1000	61	20	10	1.575	1.670	2.083	0.080	937	673	2678	730	595

(1) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/ICEA S-94-649 for concentric neutral cables rated 5-46 kV and also meet the requirements of the latest revisions of AIEC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances.

(2) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values are based on one three-phase circuit, one conductor per phase, in flat adjacent configuration with neutral wires bonded at each end.

(3) REA Bulletin 50-70 (U-1) dated 12/28/87 requires 220 mil insulation thickness for 15 kV cable and 345 mil insulation thickness for 25 kV cable.

EmPowr® Fill Underground Distribution Cable 5-46 kV

Al Conductor EPR Insulation Concentric Neutral LLDPE Jacket

UNDERGROUND DISTRIBUTION CABLE-25 kV-TYPE URD-FULL NEUTRAL

COMPRESSED CONDUCTOR		COPPER NEUTRAL		DIAMETER (1) INCHES		NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (2)		
AL. AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSULATION			ENCAP LLDPE JACKET	AL. COND.	CU. NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
				MIN.	MAX.							

260 mils NOMINAL EPR INSULATION-100% INSULATION LEVEL (4)

1	1	13	14	0.805	0.895	1.141	0.055	77	173	679	215	150
1	19	13	14	0.835	0.925	1.174	0.055	78	174	705	215	150
1/0	1	16	14	0.840	0.930	1.177	0.055	97	213	759	240	170
1/0	19	16	14	0.875	0.965	1.214	0.055	99	214	788	240	170
2/0	19	20	14	0.920	1.010	1.258	0.055	125	267	891	275	195
3/0	19	16	12	0.970	1.060	1.342	0.055	158	339	1050	315	220
4/0	19	20	12	1.025	1.115	1.418	0.055	199	423	1227	360	250

UNDERGROUND DISTRIBUTION CABLE-25 kV-TYPE URD-1/3 NEUTRAL

COMPRESSED CONDUCTOR		COPPER NEUTRAL		DIAMETER (1) INCHES			NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (3)	
AL. AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSULATION		ENCAP LLDP E JACKET		AL. COND.	CU. NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
				MIN.	MAX.							

260 mils NOMINAL EPR INSULATION-100% INSULATION LEVEL (4)

1	1	6	14	0.805	0.895	1.141	0.055	77	80	596	195	150
1	19	6	14	0.835	0.925	1.174	0.055	78	80	621	195	150
1/0	1	6	14	0.840	0.930	1.177	0.055	97	80	639	220	170
1/0	19	6	14	0.875	0.965	1.214	0.055	99	80	668	220	170
2/0	19	7	14	0.920	1.010	1.258	0.055	125	93	735	250	200
3/0	19	9	14	0.970	1.060	1.308	0.055	158	120	826	290	225
4/0	19	11	14	1.025	1.115	1.384	0.055	199	147	949	330	255
250	37	13	14	1.080	1.175	1.440	0.055	234	174	1048	360	280
350	37	18	14	1.185	1.275	1.543	0.055	329	240	1274	435	340
500	37	16	12	1.310	1.405	1.755	0.080	468	339	1681	525	420
750	61	24	12	1.500	1.595	1.942	0.080	703	508	2210	640	510
1000	61	20	10	1.645	1.740	2.163	0.080	937	673	2809	730	595

(1) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/ICEA S-94-649 for concentric neutral cables rated 5-46 kV and also meet the requirements of the latest revisions of AIEC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances.

(2) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values based on single phase operation, with full current return in the neutral wires.

(3) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values based on a three phase circuit, one conductor per phase, in flat adjacent configuration, with neutral wires bonded at each end.

(4) REA Bulletin 50-70 (U-1) dated 12/28/87 requires 220 mil insulation thickness for 15 kV cable and 345 mil insulation thickness for 25 kV cable.

EmPowr® Fill Underground Distribution Cable 5-46 kV

Al Conductor EPR Insulation Concentric Neutral LLDPE Jacket

UNDERGROUND DISTRIBUTION CABLE-28 kV-TYPE URD-FULL NEUTRAL

COMPRESSED CONDUCTOR		COPPER NEUTRAL		DIAMETER (1) INCHES		NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (2)		
AL. AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSULATION			ENCAP LLDPE JACKET	AL. COND.	CU. NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
				MIN.	MAX.							

280 mils NOMINAL EPR INSULATION-100% INSULATION LEVEL

1	1	13	14	0.845	0.935	1.181	0.055	77	173	715	215	150
1	19	13	14	0.875	0.970	1.214	0.055	78	174	742	215	150
1/0	1	16	14	0.880	0.970	1.217	0.055	97	214	795	240	170
1/0	19	16	14	0.915	1.010	1.254	0.055	99	214	826	240	170
2/0	19	20	14	0.960	1.055	1.298	0.055	125	267	930	275	195
3/0	19	16	12	1.010	1.105	1.402	0.055	158	339	1113	315	220
4/0	19	20	12	1.065	1.160	1.458	0.055	199	423	1271	360	250

UNDERGROUND DISTRIBUTION CABLE-28 kV-TYPE URD-1/3 NEUTRAL

COMPRESSED CONDUCTOR		COPPER NEUTRAL		DIAMETER (1) INCHES		NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (3)		
AL. AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSULATION			ENCAP LLDPE JACKET	AL. COND.	CU. NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
				MIN.	MAX.							

280 mils NOMINAL EPR INSULATION-100% INSULATION LEVEL

1	1	6	14	0.845	0.935	1.181	0.055	77	80	631	195	150
1	19	6	14	0.875	0.970	1.214	0.055	78	80	658	195	150
1/0	1	6	14	0.880	0.970	1.217	0.055	97	80	676	220	170
1/0	19	6	14	0.915	1.010	1.254	0.055	99	80	706	220	170
2/0	19	7	14	0.960	1.055	1.298	0.055	125	93	775	250	200
3/0	19	9	14	1.010	1.105	1.368	0.055	158	120	887	290	225
4/0	19	11	14	1.065	1.160	1.424	0.055	199	147	992	330	255
250	37	13	14	1.120	1.215	1.480	0.055	234	174	1093	360	280
350	37	18	14	1.225	1.320	1.583	0.055	329	240	1322	435	340
500	37	16	12	1.350	1.445	1.795	0.080	468	339	1736	525	420
750	61	24	12	1.540	1.635	2.012	0.080	703	508	2317	640	510
1000	61	20	10	1.685	1.785	2.203	0.080	937	673	2877	730	595

(1) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/ICEA S-94-649 for concentric neutral cables rated 5-46 kV and also meet the requirements of the latest revisions of AIEC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances.

(2) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values based on single phase operation, with full current return in the neutral wires.

(3) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values based on a three phase circuit, one conductor per phase, in flat adjacent configuration, with neutral wires bonded at each end.

EmPowr® Fill Underground Distribution Cable 5-46 kV

Al Conductor EPR Insulation Concentric Neutral LLDPE Jacket

UNDERGROUND DISTRIBUTION CABLE-35 kV-TYPE URD-FULL NEUTRAL

COMPRESSED CONDUCTOR		COPPER NEUTRAL		DIAMETER (1) INCHES		NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (2)		
AL. AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSULATION			ENCAP LLDPE JACKET	AL. COND.	CU. NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
				MIN.	MAX.							

345 mils NOMINAL EPR INSULATION-100% INSULATION LEVEL

1/0	1	16	14	1.010	1.105	1.367	0.055	97	214	944	240	170
1/0	19	16	14	1.045	1.145	1.404	0.055	99	214	979	240	170
2/0	19	20	14	1.090	1.190	1.448	0.055	125	267	1089	275	195
3/0	19	16	12	1.140	1.240	1.532	0.055	158	339	1259	315	220
4/0	19	20	12	1.195	1.295	1.588	0.055	199	423	1423	360	250

UNDERGROUND DISTRIBUTION CABLE-35 kV-TYPE URD-1/3 NEUTRAL

COMPRESSED CONDUCTOR		COPPER NEUTRAL		DIAMETER (1) INCHES		NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (3)		
AL. AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSULATION			ENCAP LLDPPE JACKET	AL. COND.	CU. NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
				MIN.	MAX.							

345 mils NOMINAL EPR INSULATION-100% INSULATION LEVEL

1/0	1	6	14	1.010	1.105	1.367	0.055	97	80	825	220	170
1/0	19	6	14	1.045	1.145	1.404	0.055	99	80	860	220	170
2/0	19	7	14	1.090	1.190	1.448	0.055	125	93	933	250	200
3/0	19	9	14	1.140	1.240	1.498	0.055	158	120	1031	290	225
4/0	19	11	14	1.195	1.295	1.554	0.055	199	147	1142	330	255
250	37	13	14	1.250	1.350	1.610	0.055	234	174	1249	360	280
350	37	18	14	1.355	1.445	1.763	0.080	329	240	1543	435	340
500	37	16	12	1.480	1.580	1.925	0.080	468	339	1922	525	420
750	61	24	12	1.670	1.770	2.142	0.080	703	508	2526	640	510
1000	61	20	10	1.815	1.920	2.333	0.080	937	673	3104	730	595

(1) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/ICEA S-94-649 for concentric neutral cables rated 5-46 kV and also meet the requirements of the latest revisions of AIEC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances.

(2) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values based on single phase operation, with full current return in the neutral wires.

(3) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values based on a three phase circuit, one conductor per phase, in flat adjacent configuration, with neutral wires bonded at each end.

EmPowr® Link Underground Distribution Cable 5-46 kV

Al Conductor TRXLPE Insulation Concentric Neutral LLDPE Jacket

Product Construction:

Complete Cable:

Cross-linked semi-conducting conductor shield, insulation and semi-conducting insulation shield are extruded over an aluminum conductor and cured in a single operation. Uncoated copper wires (helically applied) and extruded-to-fill black jacket are applied over the cable core.

Conductor:

Solid or Class B compressed concentric lay stranded 1350 aluminum meeting the requirements of ANSI/ICEA S-94-649.

Conductor Shield:

Extruded semi-conducting thermosetting polymeric stress control layer.

Insulation:

Extruded, unfilled Tree-Retardant Cross-linked Polyethylene (TRXLPE) as defined in ANSI/ICEA S-94-649.

Insulation Shield:

Extruded semi-conducting thermosetting layer, cleaned- and free-stripping from insulation.

Metallic Shield:

Helically applied, annealed, solid bare copper wires.

Jacket:

Black, non-conducting Linear Low-Density Polyethylene (LLDPE) extruded-to-fill spaces between neutral wires.

Features and Benefits:

- Triple-extruded for clean interfaces
- Dry nitrogen cure for enhanced performance
- Class 10,000 environment utilized for material handling
- Excellent moisture resistance
- High dielectric strength
- Low dielectric loss
- Excellent resistance to treeing
- Clean-stripping insulation shield

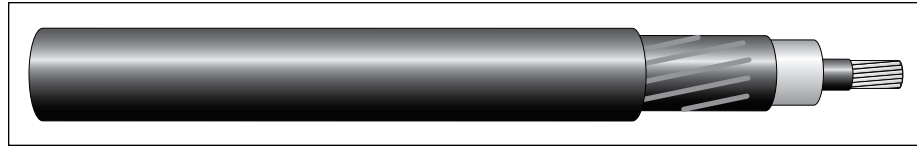
Temperature Rating:

- Normal.....90°C
- Emergency*130°C
- Short Circuit250°C

**Operation at the emergency overload temperature shall not exceed 1500 hours cumulative during the lifetime of the cable.*

Standards and Specifications:

General Cable BICC® Brand Electric Utility Products meet the latest requirements of ANSI/ICEA S-94-649, AEIC CS8 and RUS U-1 as applicable for Tree-Retardant Crosslinked Polyethylene (TRXLPE) insulated concentric neutral cable.



UNDERGROUND DISTRIBUTION CABLE-15 kV-TYPE URD-FULL NEUTRAL

COMPRESSED CONDUCTOR		COPPER NEUTRAL		DIAMETER (1) INCHES			NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (2)	
AL. AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSULATION		ENCAP LLDPE JACKET		AL. COND.	CU. NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
				MIN.	MAX.							

175 mils NOMINAL TRXLPE INSULATION-100% INSULATION LEVEL (3)

2	1	10	14	0.610	0.695	0.940	0.055	61	133	447	190	130
2	7	10	14	0.635	0.720	0.965	0.055	62	133	464	190	130
1	1	13	14	0.645	0.725	0.971	0.055	77	173	512	215	150
1	19	13	14	0.675	0.760	1.004	0.055	78	173	531	215	150
1/0	1	16	14	0.680	0.760	1.007	0.055	97	213	584	240	170
1/0	19	16	14	0.715	0.800	1.044	0.055	99	213	606	240	170
2/0	19	20	14	0.760	0.845	1.088	0.055	125	266	701	275	195
3/0	19	16	12	0.810	0.895	1.172	0.055	158	338	846	315	220
4/0	19	20	12	0.865	0.950	1.228	0.055	199	423	990	360	250

220 mils NOMINAL TRXLPE INSULATION-133% INSULATION LEVEL

2	1	10	14	0.700	0.790	1.030	0.055	61	133	504	190	130
2	7	10	14	0.725	0.815	1.055	0.055	62	133	522	190	130
1	1	13	14	0.735	0.820	1.061	0.055	77	173	571	215	150
1	19	13	14	0.765	0.855	1.094	0.055	78	173	592	215	150
1/0	1	16	14	0.770	0.855	1.097	0.055	97	213	645	240	170
1/0	19	16	14	0.805	0.895	1.134	0.055	99	213	669	240	170
2/0	19	20	14	0.850	0.935	1.178	0.055	125	267	766	275	195
3/0	19	16	12	0.900	0.985	1.262	0.055	158	338	916	315	220
4/0	19	20	12	0.955	1.045	1.318	0.055	199	423	1064	360	250

(1) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/ICEA S-94-649 for concentric neutral cables rated 5-46 kV and also meet the requirements of the latest revisions of AEIC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances.

(2) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values based on single phase operation, with full current return in the neutral wires.

(3) REA Bulletin 50-70 (U-1) dated 12/28/87 requires 220 mil insulation thickness for 15 kV cable and 345 mil insulation thickness for 25 kV cable.

EmPowr® Link Underground Distribution Cable 5-46 kV

Al Conductor TRXLPE Insulation Concentric Neutral LLDPE Jacket

UNDERGROUND DISTRIBUTION CABLE-15 kV-TYPE URD-1/3 NEUTRAL

COMPRESSED CONDUCTOR		COPPER NEUTRAL		DIAMETER (1) INCHES		NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (2)	
AL. AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSULATION	ENCAP LLDPE JACKET		AL. COND.	CU. NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
				MIN.	MAX.						

175 mils NOMINAL TRXLPE INSULATION-100% INSULATION LEVEL (3)

2	1	6	14	0.610	0.695	0.940	0.055	61	80	399	170	130
2	7	6	14	0.635	0.720	0.965	0.055	62	80	416	170	130
1	1	6	14	0.645	0.725	0.971	0.055	77	80	429	195	150
1	19	6	14	0.675	0.760	1.004	0.055	78	80	448	195	150
1/0	1	6	14	0.680	0.760	1.007	0.055	97	80	465	225	170
1/0	19	6	14	0.715	0.800	1.044	0.055	99	80	487	225	170
2/0	19	7	14	0.760	0.845	1.088	0.055	125	93	546	255	200
3/0	19	9	14	0.810	0.895	1.138	0.055	158	120	626	290	225
4/0	19	11	14	0.865	0.950	1.194	0.055	199	147	717	330	255
250	37	13	14	0.920	1.005	1.250	0.055	234	173	805	365	280
350	37	18	14	1.025	1.110	1.373	0.055	329	240	1029	440	340
500	37	16	12	1.150	1.235	1.535	0.055	468	338	1353	530	420
750	61	24	12	1.340	1.425	1.772	0.080	703	508	1895	640	510
1000	61	20	10	1.485	1.575	1.963	0.080	937	673	2410	730	595

220 mils NOMINAL TRXLPE INSULATION-133% INSULATION LEVEL

2	1	6	14	0.700	0.790	1.030	0.055	61	80	456	170	130
2	7	6	14	0.725	0.815	1.055	0.055	62	80	474	170	130
1	1	6	14	0.735	0.820	1.061	0.055	77	80	487	195	150
1	19	6	14	0.765	0.855	1.094	0.055	78	80	508	195	150
1/0	1	6	14	0.770	0.855	1.097	0.055	97	80	526	225	170
1/0	19	6	14	0.805	0.895	1.134	0.055	99	80	550	225	170
2/0	19	7	14	0.850	0.935	1.178	0.055	125	93	611	255	200
3/0	19	9	14	0.900	0.985	1.228	0.055	158	120	694	290	225
4/0	19	11	14	0.955	1.045	1.284	0.055	199	147	788	330	255
250	37	13	14	1.010	1.100	1.360	0.055	234	173	900	365	280
350	37	18	14	1.115	1.200	1.463	0.055	329	240	1111	440	340
500	37	16	12	1.240	1.330	1.625	0.055	468	339	1444	530	420
750	61	24	12	1.430	1.520	1.862	0.080	703	508	1999	640	510
1000	61	20	10	1.575	1.670	2.083	0.080	937	673	2573	730	595

(1) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/ICEA S-94-649 for concentric neutral cables rated 5-46 kV and also meet the requirements of the latest revisions of AIEC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances.

(2) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values are based on one three-phase circuit, one conductor per phase, in flat adjacent configuration with neutral wires bonded at each end.

(3) REA Bulletin 50-70 (U-1) dated 12/28/87 requires 220 mil insulation thickness for 15 kV cable and 345 mil insulation thickness for 25 kV cable.

Applications:

EmPowr® link cables are intended for use in dry or wet locations for distribution of single- or three-phase medium-voltage power. Cables with a full neutral are designed for use on single-phase URD applications. One-third neutral cables are designed for use in three-phase URD applications. These cables may be installed in ducts or direct buried.

Options:

- Copper conductors
- STRANDFILL® blocked conductor. Tested in accordance with ICEA T-31-610
- BIFILL® blocked conductor and cable core/jacket. Tested in accordance with ICEA T-34-664.
- UltraPowr® smoother and cleaner semi-conducting conductor shield
- Low-strip insulation shield
- Flat strap concentric neutral
- Red stripes on jacket
- Semi-conducting thermoplastic jacket
- Overlaying PVC jacket with separator tape
- Deformation-resistant polypropylene jacket
- CDC® Combined Duct & Cable
- 3 X 1/C triplex or parallel
- Type MV-90 UL 1072
- TRXLPE Class III insulation for 105°/140°C temperature rating
- Type MV-105 UL 1072 (PVC jacket only)
- UL listed

For information on conductor sizes or voltage ratings not shown in the tables, contact your General Cable sales representative or e-mail info@generalcable.com.

EmPowr® Link Underground Distribution Cable 5-46 kV

Al Conductor TRXLPE Insulation Concentric Neutral LLDPE Jacket

UNDERGROUND DISTRIBUTION CABLE-25 kV-TYPE URD-FULL NEUTRAL

COMPRESSED CONDUCTOR		COPPER NEUTRAL		DIAMETER (1) INCHES		NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (2)	
AL. AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSULATION			ENCAP LLDPE JACKET	AL. COND.	CU. NEUT. WIRES	TOTAL	DIRECT BURIED
				MIN.	MAX.						

260 mils NOMINAL TRXLPE INSULATION-100% INSULATION LEVEL (4)

1	1	13	14	0.805	0.895	1.141	0.055	77	173	627	215	150
1	19	13	14	0.835	0.925	1.174	0.055	78	174	650	215	150
1/0	1	16	14	0.840	0.930	1.177	0.055	97	213	703	240	170
1/0	19	16	14	0.875	0.965	1.214	0.055	99	214	729	240	170
2/0	19	20	14	0.920	1.010	1.258	0.055	125	267	828	275	195
3/0	19	16	12	0.970	1.060	1.342	0.055	158	339	983	315	220
4/0	19	20	12	1.025	1.115	1.418	0.055	199	423	1155	360	250

UNDERGROUND DISTRIBUTION CABLE-25 kV-TYPE URD-1/3 NEUTRAL

COMPRESSED CONDUCTOR		COPPER NEUTRAL		DIAMETER (1) INCHES		NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (3)		
AL. AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSULATION			ENCAP LLDPE JACKET	AL. COND.	CU. NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
				MIN.	MAX.							

260 mils NOMINAL TRXLPE INSULATION-100% INSULATION LEVEL (4)

1	1	6	14	0.805	0.895	1.141	0.055	77	80	544	195	150
1	19	6	14	0.835	0.925	1.174	0.055	78	80	566	195	150
1/0	1	6	14	0.840	0.930	1.177	0.055	97	80	584	220	170
1/0	19	6	14	0.875	0.965	1.214	0.055	99	80	610	220	170
2/0	19	7	14	0.920	1.010	1.258	0.055	125	93	673	250	200
3/0	19	9	14	0.970	1.060	1.308	0.055	158	120	759	290	225
4/0	19	11	14	1.025	1.115	1.384	0.055	199	147	877	330	255
250	37	13	14	1.080	1.175	1.440	0.055	234	174	971	360	280
350	37	18	14	1.185	1.275	1.543	0.055	329	240	1188	435	340
500	37	16	12	1.310	1.405	1.755	0.080	468	339	1584	525	420
750	61	24	12	1.500	1.595	1.942	0.080	703	508	2096	640	510
1000	61	20	10	1.645	1.740	2.163	0.080	937	673	2682	730	595

(1) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/ICEA S-94-649 for concentric neutral cables rated 5-46 kV and also meet the requirements of the latest revisions of AIEC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances.

(2) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values based on single phase operation, with full current return in the neutral wires.

(3) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values based on a three phase circuit, one conductor per phase, in flat adjacent configuration, with neutral wires bonded at each end.

(4) REA Bulletin 50-70 (U-1) dated 12/28/87 requires 220 mil insulation thickness for 15 kV cable and 345 mil insulation thickness for 25 kV cable.

EmPowr® Link Underground Distribution Cable 5-46 kV

Al Conductor TRXLPE Insulation Concentric Neutral LLDPE Jacket

UNDERGROUND DISTRIBUTION CABLE-28 kV-TYPE URD-FULL NEUTRAL

COMPRESSED CONDUCTOR		COPPER NEUTRAL		DIAMETER (1) INCHES		NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (2)		
AL. AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSULATION			ENCAP LLDPE JACKET	AL. COND.	CU. NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
				MIN.	MAX.							

280 mils NOMINAL TRXLPE INSULATION-100% INSULATION LEVEL

1	1	13	14	0.845	0.935	1.181	0.055	77	173	657	215	150
1	19	13	14	0.875	0.970	1.214	0.055	78	174	680	215	150
1/0	1	16	14	0.880	0.970	1.217	0.055	97	214	734	240	170
1/0	19	16	14	0.915	1.010	1.254	0.055	99	214	761	240	170
2/0	19	20	14	0.960	1.055	1.298	0.055	125	272	866	275	195
3/0	19	16	12	1.010	1.105	1.402	0.055	158	345	1045	315	220
4/0	19	20	12	1.065	1.160	1.458	0.055	199	432	1199	360	250

UNDERGROUND DISTRIBUTION CABLE-28 kV-TYPE URD-1/3 NEUTRAL

COMPRESSED CONDUCTOR		COPPER NEUTRAL		DIAMETER (1) INCHES			NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (3)	
AL. AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSULATION		ENCAP LLPE JACKET		AL. COND.	CU. NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
				MIN.	MAX.							

280 mils NOMINAL TRXLPE INSULATION-100% INSULATION LEVEL

1	1	6	14	0.845	0.935	1.181	0.055	77	80	573	195	150
1	19	6	14	0.875	0.970	1.214	0.055	78	80	597	195	150
1/0	1	6	14	0.880	0.970	1.217	0.055	97	80	614	220	170
1/0	19	6	14	0.915	1.010	1.254	0.055	99	80	641	220	170
2/0	19	7	14	0.960	1.055	1.298	0.055	125	93	705	250	200
3/0	19	9	14	1.010	1.105	1.368	0.055	157	120	813	290	225
4/0	19	11	14	1.065	1.160	1.424	0.055	198	147	913	330	255
250	37	13	14	1.120	1.215	1.480	0.055	234	174	1009	360	280
350	37	18	14	1.225	1.320	1.583	0.055	329	240	1227	435	340
500	37	16	12	1.350	1.445	1.795	0.080	468	339	1629	525	420
750	61	24	12	1.540	1.635	2.012	0.080	703	508	2192	640	510
1000	61	20	10	1.685	1.785	2.203	0.080	937	673	2737	730	595

(1) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/ICEA S-94-649 for concentric neutral cables rated 5-46 kV and also meet the requirements of the latest revisions of AIEC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances.

(2) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values based on single phase operation, with full current return in the neutral wires.

(3) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values based on a three phase circuit, one conductor per phase, in flat adjacent configuration, with neutral wires bonded at each end.

EmPowr® Link Underground Distribution Cable 5-46 kV

Al Conductor TRXLPE Insulation Concentric Neutral LLDPE Jacket

UNDERGROUND DISTRIBUTION CABLE-35 kV-TYPE URD-FULL NEUTRAL

COMPRESSED CONDUCTOR		COPPER NEUTRAL		DIAMETER (1) INCHES		NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (2)		
AL. AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSULATION			ENCAP LLDPE JACKET	AL. COND.	CU. NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
				MIN.	MAX.							

345 mils NOMINAL TRXLPE INSULATION-100% INSULATION LEVEL

1/0	1	16	14	1.010	1.105	1.367	0.055	97	214	861	240	170
1/0	19	16	14	1.045	1.145	1.404	0.055	99	214	891	240	170
2/0	19	20	14	1.090	1.190	1.448	0.055	125	267	996	275	195
3/0	19	16	12	1.140	1.240	1.532	0.055	158	339	1161	315	220
4/0	19	20	12	1.195	1.295	1.588	0.055	199	423	1318	360	250

UNDERGROUND DISTRIBUTION CABLE-35 kV-TYPE URD-1/3 NEUTRAL

COMPRESSED CONDUCTOR		COPPER NEUTRAL		DIAMETER (1) INCHES		NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (3)		
AL. AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSULATION			ENCAP LLDPE JACKET	AL. COND.	CU. NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
				MIN.	MAX.							

345 mils NOMINAL TRXLPE INSULATION-100% INSULATION LEVEL

1/0	1	6	14	1.010	1.105	1.367	0.055	97	80	741	220	170
1/0	19	6	14	1.045	1.145	1.404	0.055	99	80	772	220	170
2/0	19	7	14	1.090	1.190	1.448	0.055	125	93	840	250	200
3/0	19	9	14	1.140	1.240	1.498	0.055	158	120	932	290	225
4/0	19	11	14	1.195	1.295	1.554	0.055	199	147	1036	330	255
250	37	13	14	1.250	1.350	1.610	0.055	234	174	1137	360	280
350	37	18	14	1.355	1.455	1.763	0.080	329	240	1419	435	340
500	37	16	12	1.480	1.580	1.925	0.080	468	339	1783	525	420
750	61	24	12	1.670	1.770	2.142	0.080	703	508	2364	640	510
1000	61	20	10	1.815	1.920	2.333	0.080	937	673	2925	730	595

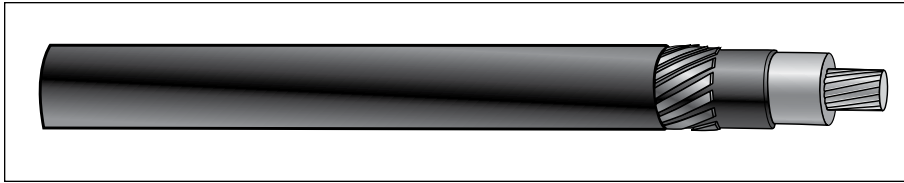
(1) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/ICEA S-94-649 for concentric neutral cables rated 5-46 kV and also meet the requirements of the latest revisions of AIEC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances.

(2) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values based on single phase operation, with full current return in the neutral wires.

(3) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values based on a three phase circuit, one conductor per phase, in flat adjacent configuration, with neutral wires bonded at each end.

PowrPak® Underground PILC Replacement Cable

Cu Conductor EPR Insulation Flat Strap Concentric Neutral LLDPE Jacket



PILC REPLACEMENT CABLE-15 kV-PowrPak®

COMPACT CONDUCTOR		FLAT STRAP SHIELD (1)		NOMINAL O.D. INCHES				NOM. JACKET THKN. INCHES	APPROX. WEIGHT LB/1000 FT			AMP. IN DUCT (2)	DUCT CLEARANCE (3)	
CU. AWG OR kcmil	MIN. NO. OF WIRES	NO. OF STRAPS	THKN. mils	WIDTH mils	INS. ± 25 mils	INS. SHIELD ± 30 mils	FLAT STRAP	ENCAP JACKET ± 50 mils	CU. COND.	CU. SHIELD	TOTAL		DUCT I.D. INCHES	MIN. CLEAR INCHES

175 mils NOMINAL EPR INSULATION-100% INSULATION LEVEL

4/0	18	12	20	175	0.865	0.925	0.965	1.065	0.050	653	178	1167	305	3.0	0.72
350	35	14	20	175	1.006	1.066	1.106	1.206	0.050	1081	208	1694	400	3.0	0.36
500	35	14	20	175	1.126	1.186	1.226	1.326	0.050	1544	208	2222	495	3.5	0.63
750	58	16	20	175	1.298	1.358	1.398	1.498	0.050	2316	237	3120	615	4.0	0.75
1000	58	16	20	175	1.450	1.510	1.550	1.650	0.050	3088	237	3980	705	4.0	0.36

PILC REPLACEMENT CABLE-25 kV-PowrPak®

COMPACT CONDUCTOR		FLAT STRAP SHIELD (1)		NOMINAL O.D. INCHES				NOM. JACKET THKN. INCHES	APPROX. WEIGHT LB/1000 FT			AMP. IN DUCT (2)	DUCT CLEARANCE (3)	
CU. AWG OR kcmil	MIN. NO. OF WIRES	NO. OF STRAPS	THKN. mils	WIDTH mils	INS. ± 25 mils	INS. SHIELD ± 30 mils	FLAT STRAP	ENCAP JACKET ± 50 mils	CU. COND.	CU. SHIELD	TOTAL		DUCT I.D. INCHES	MIN. CLEAR INCHES

260 mils NOMINAL EPR INSULATION-100% INSULATION LEVEL

4/0	18	12	20	175	1.035	1.095	1.135	1.235	0.050	653	179	1319	315	3.5	0.86
350	35	14	20	175	1.176	1.236	1.276	1.376	0.050	1081	208	1866	410	3.5	0.50
500	35	14	20	175	1.296	1.356	1.396	1.496	0.050	1544	208	2409	505	4.0	0.76
750	58	16	20	175	1.468	1.528	1.568	1.668	0.050	2316	238	3331	620	4.0	0.31
1000	58	16	20	175	1.620	1.680	1.720	1.820	0.050	3088	238	4211	730	5.0	1.15

- (1) Concentric neutral designs shown are for typical metallic shield requirements. The concentric neutral can be designed to fit the customer's fault current and time duration requirements. See fault current capability of typical designs on following page.
- (2) Ampacity based on three-phases in a duct and one duct load in the duct bank. Concrete thermal resistivity of 85°C-cm watt, earth thermal resistivity of 90°C-cm/watt, burial depth to top of duct bank is 30", 90°C conductor temperature, 20°C earth ambient temperature and 75% load factor.
- (3) Duct clearance based on maximum cable diameter and inside diameter of schedule 40 duct.

Product Construction:

Complete Cable:

Cross-linked semi-conducting conductor shield, insulation and semi-conducting insulation shield are extruded over stranded copper conductor and cured in a single operation. Uncoated copper flat strap neutrals (helically applied) and extruded-to-fill black jacket are applied over the cable core.

Conductor:

STRANDFILL®, bare, compact, Class B concentric lay stranded copper meeting the requirements of ANSI/ICEA S-94-649 and tested in accordance with ICEA T-31-610.

Conductor Shield:

Extruded semi-conducting thermosetting polymeric stress control layer.

Insulation:

Extruded Ethylene Propylene Rubber (EPR) Class II and III as defined in ANSI/ICEA S-94-649.

Insulation Shield:

Extruded semi-conducting thermosetting layer, clean- and free-stripping from insulation.

Metallic Shield:

Bare annealed copper flat strap neutrals designed to meet customer fault current requirements.

Jacket:

Black non-conducting Linear Low-Density Polyethylene (LLDPE) extruded to fill spaces between flat straps.

Features and Benefits:

- Triple-extruded for clean interfaces
- Class 10,000 environment utilized for material handling
- Flexibility for easy handling
- Excellent moisture resistance
- Improved temperature rating over PILC
- Low dielectric loss
- Deformation-resistant
- High dielectric strength
- Excellent resistance to treeing
- Clean-stripping insulation shield without the use of a release agent
- Reduced overall diameter for tight duct applications without reducing insulation wall
- No environmental concerns
- Higher emergency ampacity capabilities
- Less costly than PILC
- Millions of feet successfully installed and operated since its introduction in 1989

PowrPak® Underground PILC Replacement Cable

Cu Conductor EPR Insulation Flat Strap Concentric Neutral LLDPE Jacket

Temperature Rating:

- Normal..... 105°C
 - Emergency* 140°C
 - Short Circuit 250°C
- * Operation at the emergency overload temperature shall not exceed 1500 hours cumulative during the lifetime of the cable.

Standards and Specifications:

PowrPak® cables meet the latest ANSI/ICEA S-94-649 and AIEC CS8 specifications for Ethylene Propylene Rubber (EPR) insulated concentric neutral cable except for dimensional requirements.

Applications:

PowrPak® cables are intended for use in dry or wet locations for today's aging and expanding urban underground distribution systems of utilities where PILC has been used previously. It is specifically designed to be used in urban underground network systems where existing duct space is limited.

Options:

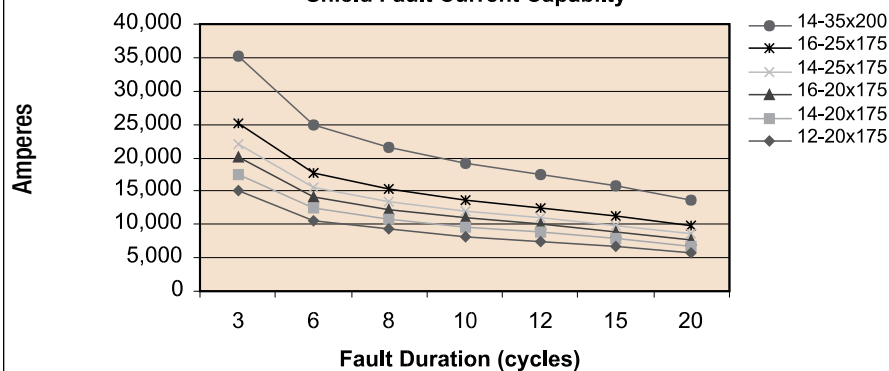
- Class C copper conductors
- Reduced insulation wall thickness
- BIFILL® blocked conductor and cable core/ jacket. Tested in accordance with ICEA T-34-664
- Dry nitrogen cure
- Red stripes on jacket
- Deformation-resistant polypropylene jacket
- 3 X 1/C triplex or parallel

For information on conductor sizes or voltage ratings not shown in the tables, contact your General Cable sales representative or e-mail info@generalcable.com.

FAULT CURRENT CAPABILITY OF FLAT STRAP NEUTRAL

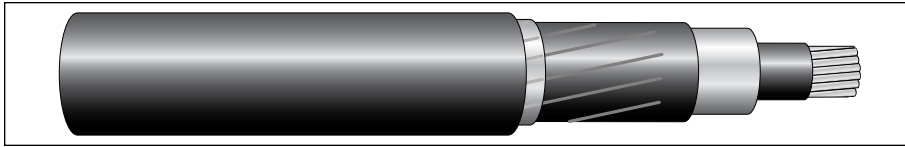
NO. STRAPS	THKN. mils	WIDTH mils	CROSS-SECTIONAL AREA (kcmil)	AMPERES FOR FAULT DURATION (CYCLES)						
				3	6	8	10	12	15	20
12	20	175	53.466	15,064	10,652	9,225	8,251	7,532	6,737	5,834
14	20	175	62.377	17,574	12,427	10,762	9,626	8,787	7,850	6,807
16	20	175	71.288	20,085	14,202	12,300	11,001	10,043	8,982	7,779
14	25	175	77.971	21,968	15,534	13,453	12,032	10,984	9,824	8,508
16	25	175	89.110	25,106	17,753	15,374	13,751	12,553	11,228	9,724
14	35	200	124.754	35,149	24,854	21,524	19,252	17,574	15,719	13,613

Shield Fault Current Capability



EmPowr® Fill Shielded Power Cable 5-46 kV

Al Conductor EPR Insulation Copper Wire PVC Jacket



COPPER WIRE SHIELDED POWER CABLE

COMPRESSED CONDUCTOR		COPPER NEUTRAL		DIAMETER (1) INCHES			NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (2)	
AL. AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSULATION		PVC JACKET		AL. COND.	CU. SHIELD	TOTAL	DIRECT BURIED	IN DUCT
				MIN.	MAX.							
115 mils NOMINAL EPR INSULATION-5 kV 133% OR 8 kV 100%												
2	7	9	24	0.525	0.605	0.787	0.065	62	12	284	165	125
1	19	6	22	0.565	0.645	0.837	0.065	78	13	315	190	145
1/0	19	7	22	0.605	0.685	0.907	0.065	99	15	378	215	165
2/0	19	7	22	0.650	0.725	0.951	0.080	125	15	423	245	185
3/0	19	7	22	0.700	0.775	1.001	0.080	158	15	478	280	215
4/0	19	8	22	0.755	0.835	1.057	0.080	199	17	545	320	245
250	37	8	22	0.810	0.890	1.113	0.080	234	17	607	355	275
350	37	9	22	0.905	0.980	1.216	0.080	329	19	749	430	335
500	37	6	20	1.040	1.120	1.357	0.080	468	20	948	525	410
750	61	7	20	1.230	1.310	1.544	0.080	703	23	1273	660	510
1000	61	8	20	1.375	1.460	1.693	0.080	937	27	1577	765	615
175 mils NOMINAL EPR INSULATION-15 kV 100% LEVEL												
2	7	9	24	0.635	0.720	0.937	0.080	62	12	388	165	125
1	19	6	22	0.675	0.760	0.987	0.080	78	13	424	190	145
1/0	19	7	22	0.715	0.800	1.027	0.080	99	15	468	215	165
2/0	19	7	22	0.760	0.845	1.071	0.080	125	15	517	245	185
3/0	19	7	22	0.810	0.895	1.121	0.080	158	15	576	280	215
4/0	19	8	22	0.865	0.950	1.177	0.080	199	17	649	320	245
250	37	8	22	0.920	1.005	1.233	0.080	234	17	716	355	275
350	37	9	22	1.015	1.100	1.336	0.080	329	19	868	430	335
500	37	6	20	1.150	1.235	1.477	0.080	468	20	1080	525	410
750	61	7	20	1.340	1.425	1.664	0.080	703	23	1422	660	510
1000	61	8	20	1.485	1.575	1.873	0.110	937	27	1840	765	615

(1) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/CEA S-97-682 for concentric neutral cables rated 5-46 kV and also meet the requirements of the latest revisions of AIEC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances.

(2) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values are based on one three-phase circuit, one conductor per phase, in flat adjacent configuration (direct buried) with metallic shield bonded at each end.

Product Construction:

Complete Cable:

Cross-linked semi-conducting conductor shield, insulation and semi-conducting insulation shield are extruded over an aluminum conductor and cured in a single operation. Uncoated copper wires (helically applied), separator tape and overlaying black PVC jacket are applied over the cable core.

Conductor:

Solid or Class B compressed concentric lay stranded 1350 aluminum meeting the requirements of ANSI/CEA S-97-682.

Conductor Shield:

Extruded semi-conducting thermosetting polymeric stress control layer.

Insulation:

Extruded Ethylene Propylene Rubber (EPR) Class II and III as defined in ANSI/CEA S-97-682.

Insulation Shield:

Extruded semi-conducting thermosetting layer, clean- and free-stripping from insulation.

Metallic Shield:

Helically applied annealed solid bare copper wires with a lapped non-metallic tape serving as a binder/separator.

Jacket:

Black, non-conducting, Polyvinyl Chloride (PVC).

Features and Benefits:

- Triple-extruded for clean interfaces
- Class 10,000 environment utilized for material handling
- Flexibility for easy handling
- Excellent moisture resistance
- Deformation-resistant
- High dielectric strength
- Low dielectric loss
- Excellent resistance to treeing
- Clean-stripping insulation shield without the use of a release agent

Temperature Rating:

- Normal..... 105°C
- Emergency*..... 140°C
- Short Circuit 250°C

* Operation at the emergency overload temperature shall not exceed 1500 hours cumulative during the lifetime of the cable.

EmPowr® Fill Shielded Power Cable 5-46 kV

Al Conductor EPR Insulation Copper Wire PVC Jacket

Standards and Specifications:

General Cable-BICC® Brand Electric Utility Products meet the latest requirements of ANSI/ICEA S-97-682 and AIEC CS8 as applicable for Ethylene Propylene Rubber (EPR) insulated shielded power cable.

Applications:

EmPowr® Fill cables are intended for use in dry or wet locations for distribution of three-phase medium-voltage power. These cables may be installed in ducts or direct buried.

Options:

- Copper conductors
- STRANDFILL® blocked conductor. Tested in accordance with ICEA T-31-610
- Dry nitrogen cure
- 3 X 1/C triplex or parallel
- Type MV-105 UL 1072
- UL listed

For information on conductor sizes or voltage ratings not shown in the tables, contact your General Cable sales representative or e-mail info@generalcable.com.

COPPER WIRE SHIELDED POWER CABLE												
COMPRESSED CONDUCTOR		COPPER NEUTRAL		DIAMETER (1) INCHES		NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (2)		
AL. AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSULATION			PVC JACKET	AL. COND.	CU. WIRES	TOTAL	DIRECT BURIED	IN DUCT
				MIN.	MAX.							

220 mils NOMINAL EPR INSULATION-15 kV 133% LEVEL

2	7	9	24	0.725	0.815	1.027	0.080	62	12	457	165	125
1	19	7	22	0.765	0.855	1.077	0.080	78	15	498	190	145
1/0	19	7	22	0.805	0.895	1.117	0.080	99	15	543	215	165
2/0	19	8	22	0.850	0.935	1.161	0.080	125	17	597	245	185
3/0	19	8	22	0.900	0.985	1.211	0.080	158	17	660	280	215
4/0	19	8	22	0.955	1.045	1.267	0.080	199	17	735	320	245
250	37	9	22	1.010	1.100	1.323	0.080	234	19	808	350	275
350	37	6	20	1.105	1.190	1.439	0.080	329	20	968	425	335
500	37	7	20	1.240	1.330	1.567	0.080	468	23	1189	520	410
750	61	8	20	1.430	1.520	1.814	0.110	703	27	1641	655	510
1000	61	9	20	1.575	1.670	1.963	0.110	937	30	1979	765	615

260 mils NOMINAL EPR INSULATION-25 kV 100% LEVEL

1	19	7	24	0.835	0.925	1.146	0.080	78	9	560	185	145
1/0	19	8	24	0.875	0.965	1.186	0.080	99	11	609	215	165
2/0	19	8	24	0.920	1.010	1.230	0.080	125	11	664	245	185
3/0	19	9	24	0.970	1.060	1.280	0.080	158	12	731	275	215
4/0	19	6	22	1.025	1.115	1.347	0.080	199	13	812	315	250
250	37	7	22	1.080	1.175	1.403	0.080	234	15	889	350	275
350	37	8	22	1.175	1.265	1.506	0.080	329	17	1055	420	335
500	37	9	22	1.310	1.405	1.634	0.080	468	19	1283	515	405
750	61	6	20	1.500	1.595	1.894	0.110	703	20	1751	650	520
1000	61	7	20	1.645	1.740	2.043	0.110	937	23	2098	755	605

345 mils NOMINAL EPR INSULATION-35 kV 100% LEVEL

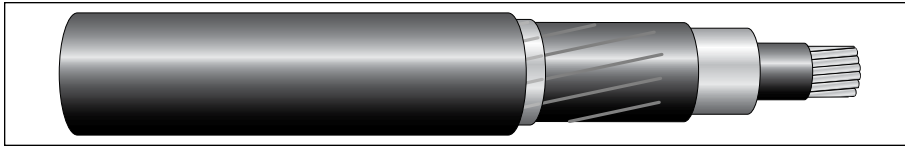
1/0	19	7	22	1.045	1.145	1.367	0.080	99	15	784	210	170
2/0	19	7	22	1.090	1.119	1.411	0.080	125	15	845	240	190
3/0	19	7	22	1.140	1.240	1.461	0.080	158	15	918	275	220
4/0	19	8	22	1.195	1.295	1.517	0.080	199	17	1007	310	250
250	37	8	22	1.250	1.350	1.573	0.080	234	17	1088	345	275
350	37	9	22	1.345	1.445	1.676	0.080	329	19	1268	415	340
500	37	6	20	1.480	1.580	1.877	0.110	468	20	1615	510	410
750	61	7	20	1.670	1.770	2.064	0.110	703	23	2017	640	525
1000	61	8	20	1.815	1.920	2.213	0.110	937	27	2385	745	615

(1) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/ICEA S-97-682 for concentric neutral cables rated 5-46 kV and also meet the requirements of the latest revisions of AIEC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances.

(2) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values are based on one three-phase circuit, one conductor per phase, in flat adjacent configuration (direct buried) with metallic shield bonded at each end.

EmPowr® Link Shielded Power Cable 5-46 kV

Al Conductor TRXLPE Insulation Copper Wire PVC Jacket



COPPER WIRE SHIELDED POWER CABLE

COMPRESSED CONDUCTOR		COPPER NEUTRAL		DIAMETER (1) INCHES			NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (2)	
AL. AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSULATION		PVC JACKET		AL. COND.	CU. WIRES	TOTAL	DIRECT BURIED	IN DUCT
				MIN.	MAX.							

115 mils NOMINAL TRXLPE INSULATION-5 kV 133% OR 8 kV 100%

2	7	9	24	0.525	0.605	0.787	0.065	62	12	267	165	125
1	19	6	22	0.565	0.645	0.837	0.065	78	13	296	190	145
1/0	19	7	22	0.605	0.685	0.907	0.065	99	15	358	215	165
2/0	19	7	22	0.650	0.725	0.951	0.080	125	15	401	245	185
3/0	19	7	22	0.700	0.775	1.001	0.080	158	15	454	280	215
4/0	19	8	22	0.755	0.835	1.057	0.080	199	17	519	320	245
250	37	8	22	0.810	0.890	1.113	0.080	234	17	607	355	275
350	37	9	22	0.905	0.980	1.216	0.080	329	19	717	430	335
500	37	6	20	1.040	1.120	1.357	0.080	468	20	911	525	410
750	61	7	20	1.230	1.310	1.544	0.080	703	23	1228	660	510
1000	61	8	20	1.375	1.460	1.693	0.080	937	27	1527	765	615

175 mils NOMINAL TRXLPE INSULATION-15 kV 100% LEVEL

2	7	9	24	0.635	0.720	0.937	0.080	62	12	358	165	125
1	19	6	22	0.675	0.760	0.987	0.080	78	13	392	190	145
1/0	19	7	22	0.715	0.800	1.027	0.080	99	15	433	215	165
2/0	19	7	22	0.760	0.845	1.071	0.080	125	15	480	245	185
3/0	19	7	22	0.810	0.895	1.121	0.080	158	15	536	280	215
4/0	19	8	22	0.865	0.950	1.177	0.080	199	17	606	320	245
250	37	8	22	0.920	1.005	1.233	0.080	234	17	670	355	275
350	37	9	22	1.015	1.100	1.336	0.080	329	19	815	430	335
500	37	6	20	1.150	1.235	1.477	0.080	468	20	1020	525	410
750	61	7	20	1.340	1.425	1.664	0.080	703	23	1351	660	510
1000	61	8	20	1.485	1.575	1.873	0.110	937	27	1760	765	615

(1) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/ICEA S-97-682 for concentric neutral cables rated 5-46 kV and also meet the requirements of the latest revisions of AIEC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances.

(2) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values are based on one three-phase circuit, one conductor per phase, in flat adjacent configuration (direct buried) with metallic shield bonded at each end.

Product Construction:

Complete Cable:

Cross-linked semi-conducting conductor shield, insulation and semi-conducting insulation shield are extruded over an aluminum conductor and cured in a single operation. Uncoated copper wires (helically applied), separator tape and overlaying black PVC jacket are applied over the cable core.

Conductor:

Solid or Class B compressed concentric lay stranded 1350 aluminum meeting the requirements of ANSI/ICEA S-97-682.

Conductor Shield:

Extruded semi-conducting thermosetting polymeric stress control layer.

Insulation:

Extruded, unfilled Tree-Retardant Cross-Linked Polyethylene (TRXLPE) as defined in ICEA S-97-682.

Insulation Shield:

Extruded semi-conducting thermosetting layer, clean- and free-stripping from insulation.

Metallic Shield:

Helically applied annealed solid bare copper wires with a lapped non-metallic tape serving as a binder/separator.

Jacket:

Black, non-conducting Polyvinyl Chloride (PVC).

Features and Benefits:

- Triple-extruded for clean interfaces
- Dry nitrogen cure for enhanced performance
- Class 10,000 environment utilized for material handling
- Excellent moisture resistance
- High dielectric strength
- Low dielectric loss
- Excellent resistance to treeing
- Clean-stripping insulation shield

Temperature Rating:

- Normal.....90°C
- Emergency*130°C
- Short Circuit250°C

**Operation at the emergency overload temperature shall not exceed 1500 hours cumulative during the lifetime of the cable.*

EmPowr® Link Shielded Power Cable 5-46 kV

Al Conductor TRXLPE Insulation Copper Wire PVC Jacket

Standards and Specifications:

General Cable–BICC® Brand Electric Utility Products meet the latest requirements of ANSI/ICEA S-97-682 and AEIC CS8 as applicable for Tree-Retardant Cross-Linked Polyethylene (TRXLPE) insulated shielded power cable.

Applications:

EmPowr® Link cables are intended for use in dry or wet locations for distribution of three-phase medium-voltage power. These cables may be installed in ducts or direct buried.

Options:

- Copper conductors
- STRANDFILL® blocked conductor. Tested in accordance with ICEA T-31-610
- UltraPowr® smoother and cleaner semi-conducting conductor shield
- Low-strip insulation shield
- 3 X 1/C triplex or parallel
- Type MV-90 UL 1072
- TRXLPE Class III insulation for 105°/140°C temperature rating
- Type MV-105 UL 1072
- UL listed

For information on conductor sizes or voltage ratings not shown in the tables, contact your General Cable sales representative or e-mail info@generalcable.com.

COPPER WIRE SHIELDED POWER CABLE												
COMPRESSED CONDUCTOR		COPPER NEUTRAL		DIAMETER (1) INCHES		NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (2)		
AL. AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSULATION			PVC JACKET	AL. COND.	CU. WIRES	TOTAL	DIRECT BURIED	IN DUCT
				MIN.	MAX.							

220 mils NOMINAL TRXLPE INSULATION–15 kV 133% LEVEL

2	7	9	24	0.725	0.815	1.027	0.080	62	12	416	165	125
1	19	7	22	0.765	0.855	1.077	0.080	78	15	455	190	145
1/0	19	7	22	0.805	0.895	1.117	0.080	99	15	496	215	165
2/0	19	8	22	0.850	0.935	1.161	0.080	125	17	547	245	185
3/0	19	8	22	0.900	0.985	1.211	0.080	158	17	607	280	215
4/0	19	8	22	0.955	1.045	1.267	0.080	199	17	677	320	245
250	37	9	22	1.010	1.100	1.323	0.080	234	19	746	350	275
350	37	6	20	1.105	1.190	1.439	0.080	329	20	899	425	335
500	37	7	20	1.240	1.330	1.567	0.080	468	23	1110	520	410
750	61	8	20	1.430	1.520	1.814	0.110	703	27	1548	655	510
1000	61	9	20	1.575	1.670	1.963	0.110	937	30	1875	765	615

260 mils NOMINAL TRXLPE INSULATION–25 kV 100% LEVEL

1	19	7	24	0.835	0.925	1.146	0.080	78	9	505	185	145
1/0	19	8	24	0.875	0.965	1.186	0.080	99	11	550	215	165
2/0	19	8	24	0.920	1.010	1.230	0.080	125	11	601	245	185
3/0	19	9	24	0.970	1.060	1.280	0.080	158	12	665	275	215
4/0	19	6	22	1.025	1.115	1.347	0.080	199	13	740	315	250
250	37	7	22	1.080	1.175	1.403	0.080	234	15	812	350	275
350	37	8	22	1.175	1.265	1.506	0.080	329	17	969	420	335
500	37	9	22	1.310	1.405	1.634	0.080	468	19	1186	515	405
750	61	6	20	1.500	1.595	1.894	0.110	703	20	1637	650	520
1000	61	7	20	1.645	1.740	2.043	0.110	937	23	1971	755	605

345 mils NOMINAL TRXLPE INSULATION–35 kV 100% LEVEL

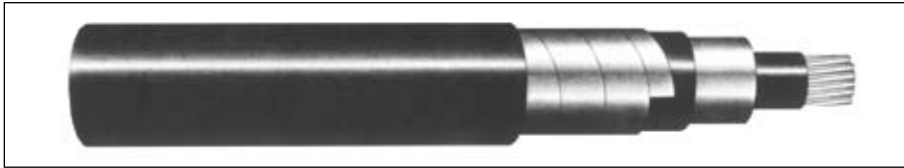
1/0	19	7	22	1.045	1.145	1.367	0.080	99	15	697	210	170
2/0	19	7	22	1.090	1.119	1.411	0.080	125	15	753	240	190
3/0	19	7	22	1.140	1.240	1.461	0.080	158	15	820	275	220
4/0	19	8	22	1.195	1.295	1.517	0.080	199	17	901	310	250
250	37	8	22	1.250	1.350	1.573	0.080	234	17	977	345	275
350	37	9	22	1.345	1.445	1.676	0.080	329	19	1145	415	340
500	37	6	20	1.480	1.580	1.877	0.110	468	20	1476	510	410
750	61	7	20	1.670	1.770	2.064	0.110	703	23	1857	640	525
1000	61	8	20	1.815	1.920	2.213	0.110	937	27	2206	745	615

(1) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/ICEA S-97-682 for concentric neutral cables rated 5-46 kV and also meet the requirements of the latest revisions of AEIC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances.

(2) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values are based on one three-phase circuit, one conductor per phase, in flat adjacent configuration (direct buried) with metallic shield bonded at each end.

EmPowr® Fill Shielded Power Cable 5-46 kV

Al Conductor EPR Insulation Copper Tape PVC Jacket



COPPER TAPE SHIELDED POWER CABLE

COMPRESSED CONDUCTOR		DIAMETER (1) INCHES				NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (2)	
AL. AWG OR kcmil	NO. OF WIRES	INSULATION		5 mil COPPER TAPE	PVC JACKET		AL. COND.	CU. SHIELD	TOTAL	DIRECT BURIED	IN DUCT
		MIN.	MAX.								

115 mils NOMINAL EPR INSULATION-5 kV 133% OR 8 kV 100%

2	7	0.525	0.605	0.621	0.750	0.065	62	44	307	165	125
1/0	19	0.605	0.685	0.700	0.829	0.065	99	49	378	215	165
2/0	19	0.650	0.725	0.744	0.903	0.080	125	53	448	245	185
3/0	19	0.700	0.775	0.794	0.953	0.080	158	56	506	280	210
4/0	19	0.755	0.835	0.850	1.009	0.080	199	60	575	320	240
250	37	0.810	0.890	0.906	1.065	0.080	234	64	640	350	275
350	37	0.905	0.980	1.009	1.168	0.080	329	71	787	425	330
500	37	1.040	1.120	1.137	1.296	0.080	468	81	991	520	405
750	61	1.230	1.310	1.324	1.483	0.080	703	94	133	655	510
1000	61	1.375	1.460	1.473	1.632	0.080	937	104	1635	760	610

175 mils NOMINAL EPR INSULATION-15 kV 100%

2	7	0.635	0.720	0.741	0.870	0.080	62	52	393	165	125
1	19	0.675	0.760	0.780	0.939	0.080	78	55	454	190	145
1/0	19	0.715	0.800	0.820	0.979	0.080	99	58	498	215	165
2/0	19	0.760	0.845	0.864	1.023	0.080	125	61	550	245	185
3/0	19	0.810	0.895	0.914	1.073	0.080	158	65	612	280	210
4/0	19	0.865	0.950	0.970	1.129	0.080	199	69	687	320	240
250	37	0.920	1.005	1.026	1.185	0.080	234	73	757	350	275
350	37	1.015	1.100	1.129	1.288	0.080	329	80	914	425	330
500	37	1.150	1.235	1.257	1.416	0.080	468	89	1130	520	405
750	61	1.340	1.425	1.444	1.603	0.080	703	102	1481	655	510
1000	61	1.485	1.575	1.593	1.812	0.110	937	113	1902	760	610

(1) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/ICEA S-97-682 for concentric neutral cables rated 5-46 kV and also meet the requirements of the latest revisions of AIEC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances.

(2) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values are based on one three-phase circuit, one conductor per phase, in flat adjacent configuration (direct buried) with metallic shield bonded at each end.

Product Construction:

Complete Cable:

Cross-linked semi-conducting conductor shield, insulation and semi-conducting insulation shield are extruded over an aluminum conductor and cured in a single operation. Uncoated copper tape (helically applied) and overlaying black PVC jacket are applied over the cable core.

Conductor:

Solid or Class B compressed concentric lay stranded 1350 aluminum meeting the requirements of ANSI/ICEA S-97-682.

Conductor Shield:

Extruded semi-conducting thermosetting polymeric stress control layer.

Insulation:

Extruded Ethylene Propylene Rubber (EPR) Class II and III as defined in ANSI/ICEA S-97-682.

Insulation Shield:

Extruded semi-conducting thermosetting layer, clean- and free-stripping from insulation.

Metallic Shield:

Flat uncoated 5-mil-thick copper tape helically applied with minimum 15% overlap.

Jacket:

Black, non-conducting Polyvinyl Chloride (PVC).

Features and Benefits:

- Triple-extruded for clean interfaces
- Class 10,000 environment utilized for material handling
- Flexibility for easy handling
- Excellent moisture resistance
- Deformation-resistant
- High dielectric strength
- Low dielectric loss
- Excellent resistance to treeing
- Clean-stripping insulation shield without the use of a release agent

Temperature Rating:

- Normal.....105°C
- Emergency*.....140°C
- Short Circuit.....250°C

* Operation at the emergency overload temperature shall not exceed 1500 hours cumulative during the lifetime of the cable.

EmPowr® Fill Shielded Power Cable 5-46 kV

Al Conductor EPR Insulation Copper Tape PVC Jacket

Standards and Specifications:

General Cable-BICC® Brand Electric Utility Products meet the latest requirements of ANSI/ICEA S-97-682 and AIEC CS8 as applicable for Ethylene Propylene Rubber (EPR) insulated shielded power cable.

Applications:

EmPowr® Fill cables are intended for use in dry or wet locations for distribution of three-phase medium-voltage power. These cables may be installed in ducts or direct buried.

Options:

- Copper conductors
- STRANDFILL® blocked conductor. Tested in accordance with ICEA T-31-610
- Dry nitrogen cure
- 3 X 1/C triplex or parallel
- 3 shielded cores cabled with fillers, with or without ground conductor, and with an overall jacket
- Type MV-90 UL 1072
- Type MV-105 UL 1072
- UL listed

For information on conductor sizes or voltage ratings not shown in the tables, contact your General Cable sales representative or e-mail info@generalcable.com.

COPPER TAPE SHIELDED POWER CABLE										
COMPRESSED CONDUCTOR		DIAMETER (1) INCHES				NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (2)
AL. AWG OR kcmil	NO. OF WIRES	INSULATION		5 mil COPPER TAPE	PVC JACKET		AL. COND.	CU. SHIELD	TOTAL	DIRECT BURIED
		MIN.	MAX.							IN DUCT

220 mils NOMINAL EPR INSULATION-15 kV 133%

2	7	0.725	0.815	0.831	0.990	0.080	62	59	492	165	125
1	19	0.765	0.855	0.870	1.029	0.080	78	62	531	190	145
1/0	19	0.805	0.895	0.910	1.069	0.080	99	64	578	215	165
2/0	19	0.850	0.935	0.954	1.113	0.080	125	68	633	245	185
3/0	19	0.900	0.985	1.004	1.163	0.080	158	71	700	280	210
4/0	19	0.955	1.045	1.060	1.219	0.080	199	75	778	320	240
250	37	1.010	1.100	1.116	1.275	0.080	234	79	852	350	275
350	37	1.105	1.190	1.219	1.378	0.080	329	86	1016	425	330
500	37	1.240	1.330	1.347	1.506	0.080	468	96	1242	520	405
750	61	1.430	1.520	1.534	1.693	0.080	703	109	1606	650	510
1000	61	1.575	1.670	1.683	1.902	0.110	937	119	2043	760	610

260 mils NOMINAL EPR INSULATION-25 kV 100%

1	19	0.835	0.925	0.950	1.109	0.080	78	67	606	185	145
1/0	19	0.875	0.965	0.990	1.149	0.080	99	70	655	215	165
2/0	19	0.920	1.010	1.034	1.193	0.080	125	73	713	245	185
3/0	19	0.970	1.060	1.084	1.243	0.080	158	77	783	275	215
4/0	19	1.025	1.115	1.140	1.299	0.080	199	81	865	315	250
250	37	1.080	1.175	1.196	1.355	0.080	234	85	943	350	275
350	37	1.175	1.265	1.299	1.458	0.080	329	92	1113	420	335
500	37	1.310	1.405	1.427	1.586	0.080	468	101	1347	515	405
750	61	1.500	1.595	1.614	1.833	0.110	703	115	1820	650	520
1000	61	1.645	1.740	1.763	1.982	0.110	937	125	2174	755	605

345 mils NOMINAL EPR INSULATION-35 kV 100%

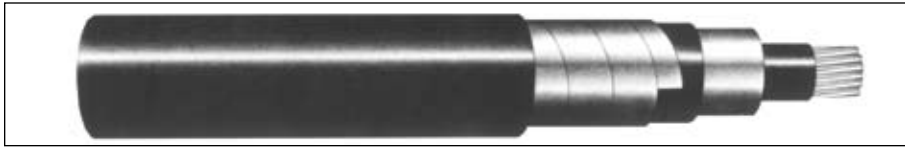
1/0	19	1.045	1.145	1.160	1.319	0.080	99	82	836	210	170
2/0	19	1.090	1.119	1.204	1.363	0.080	125	85	900	240	190
3/0	19	1.140	1.240	1.254	1.413	0.080	158	89	976	275	220
4/0	19	1.195	1.295	1.310	1.469	0.080	199	93	1066	310	250
250	37	1.250	1.350	1.366	1.525	0.080	234	97	1151	345	275
350	37	1.345	1.445	1.469	1.628	0.080	329	104	1336	415	340
500	37	1.480	1.580	1.597	1.816	0.110	468	113	1683	510	410
750	61	1.670	1.770	1.784	2.003	0.110	703	127	2095	640	525
1000	61	1.815	1.920	1.933	2.152	0.110	937	137	2468	745	615

(1) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/ICEA S-97-682 for concentric neutral cables rated 5-46 kV and also meet the requirements of the latest revisions of AIEC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances.

(2) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values are based on one three-phase circuit, one conductor per phase, in flat adjacent configuration (direct buried) with metallic shield bonded at each end.

EmPowr® Link Shielded Power Cable 5-46 kV

Al Conductor TRXLPE Insulation Copper Tape PVC Jacket



COPPER TAPE SHIELDED POWER CABLE

COMPRESSED CONDUCTOR		DIAMETER (1) INCHES				NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (2)	
AL. AWG OR kcmil	NO. OF WIRES	INSULATION		5 mil COPPER TAPE	PVC JACKET		AL. COND.	CU. SHIELD	TOTAL	DIRECT BURIED	IN DUCT
		MIN.	MAX.								

115 mils NOMINAL TRXLPE INSULATION-5 kV 133% OR 8 kV 100%

2	7	0.525	0.605	0.621	0.750	0.065	62	44	289	165	125
1/0	19	0.605	0.685	0.700	0.829	0.065	99	49	357	215	165
2/0	19	0.650	0.725	0.744	0.903	0.080	125	53	426	245	185
3/0	19	0.700	0.775	0.794	0.953	0.080	158	56	482	280	210
4/0	19	0.755	0.835	0.850	1.009	0.080	199	60	549	320	240
250	37	0.810	0.890	0.906	1.065	0.080	234	64	640	350	275
350	37	0.905	0.980	1.009	1.168	0.080	329	71	754	425	330
500	37	1.040	1.120	1.137	1.296	0.080	468	81	954	520	405
750	61	1.230	1.310	1.324	1.483	0.080	703	94	1279	655	510
1000	61	1.375	1.460	1.473	1.632	0.080	937	104	1584	760	610

175 mils NOMINAL TRXLPE INSULATION-15 kV 100%

2	7	0.635	0.720	0.741	0.870	0.080	62	52	364	165	125
1	19	0.675	0.760	0.780	0.939	0.080	78	55	422	190	145
1/0	19	0.715	0.800	0.820	0.979	0.080	99	58	463	215	165
2/0	19	0.760	0.845	0.864	1.023	0.080	125	61	513	245	185
3/0	19	0.810	0.895	0.914	1.073	0.080	158	65	572	280	210
4/0	19	0.865	0.950	0.970	1.129	0.080	199	69	643	320	240
250	37	0.920	1.005	1.026	1.185	0.080	234	73	710	350	275
350	37	1.015	1.100	1.129	1.288	0.080	329	80	861	425	330
500	37	1.150	1.235	1.257	1.416	0.080	468	89	1070	520	405
750	61	1.340	1.425	1.444	1.603	0.080	703	102	1410	655	510
1000	61	1.485	1.575	1.593	1.812	0.110	937	113	1822	760	610

(1) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/ICEA S-97-682 for concentric neutral cables rated 5-46 kV and also meet the requirements of the latest revisions of AIEC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances.

(2) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values are based on one three-phase circuit, one conductor per phase, in flat adjacent configuration (direct buried) with metallic shield bonded at each end.

Product Construction:

Complete Cable:

Cross-linked semi-conducting conductor shield, insulation and semi-conducting insulation shield are extruded over an aluminum conductor and cured in a single operation. Uncoated copper tape (helically applied) and overlaying black PVC jacket are applied over the cable core.

Conductor:

Solid or Class B compressed concentric lay stranded 1350 aluminum meeting the requirements of ANSI/ICEA S-97-682.

Conductor Shield:

Extruded semi-conducting thermosetting polymeric stress control layer.

Insulation:

Extruded, unfilled Tree-Retardant Cross-Linked Polyethylene (TRXLPE) as defined in ICEA S-97-682.

Insulation Shield:

Extruded semi-conducting thermosetting layer, clean- and free-stripping from insulation.

Metallic Shield:

Flat uncoated 5-mil-thick copper tape helically applied with minimum 15% overlap.

Jacket:

Black non-conducting Polyvinyl Chloride (PVC).

Features and Benefits:

- Triple-extruded for clean interfaces
- Dry nitrogen cure for enhanced performance
- Class 10,000 environment utilized for material handling
- Excellent moisture resistance
- High dielectric strength
- Low dielectric loss
- Excellent resistance to treeing
- Clean-stripping insulation shield

Temperature Rating:

- Normal.....90°C
- Emergency*130°C
- Short Circuit250°C

**Operation at the emergency overload temperature shall not exceed 1500 hours cumulative during the lifetime of the cable.*

EmPowr® Link Shielded Power Cable 5-46 kV

Al Conductor TRXLPE Insulation Copper Tape PVC Jacket

Standards and Specifications:

General Cable–BICC® Brand Electric Utility Products meet the latest requirements of ANSI/ICEA S-97-682 and AEIC CS8 as applicable for Tree-Retardant Cross-Linked Polyethylene (TRXLPE) insulated shielded power cable.

Applications:

EmPowr® Link cables are intended for use in dry or wet locations for distribution of three-phase medium-voltage power. These cables may be installed in ducts or direct buried.

Options:

- Copper conductors
- STRANDFILL® blocked conductor. Tested in accordance with ICEA T-31-610
- UltraPowr® smoother and cleaner semi-conducting conductor shield
- Low-strip insulation shield
- 3 X 1/C triplex or parallel
- 3 shielded cores cabled with fillers, with or without ground conductor, and with an overall jacket
- Type MV-90 UL 1072
- TRXLPE Class III insulation for 105°/140°C temperature rating
- Type MV-105 UL 1072
- UL listed

For information on conductor sizes or voltage ratings not shown in the tables, contact your General Cable sales representative or e-mail info@generalcable.com.

COPPER TAPE SHIELDED POWER CABLE											
COMPRESSED CONDUCTOR		DIAMETER (1) INCHES				NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (2)	
AL. AWG OR kcmil	NO. OF WIRES	INSULATION		5 mil COPPER TAPE	PVC JACKET		AL. COND.	CU. SHIELD	TOTAL	DIRECT BURIED	IN DUCT
		MIN.	MAX.								

220 mils NOMINAL TRXLPE INSULATION–15 kV 133%

2	7	0.725	0.815	0.831	0.990	0.080	62	59	451	165	125
1	19	0.765	0.855	0.870	1.029	0.080	78	62	488	190	145
1/0	19	0.805	0.895	0.910	1.069	0.080	99	64	532	215	165
2/0	19	0.850	0.935	0.954	1.113	0.080	125	68	584	245	185
3/0	19	0.900	0.985	1.004	1.163	0.080	158	71	646	280	210
4/0	19	0.955	1.045	1.060	1.219	0.080	199	75	720	320	240
250	37	1.010	1.100	1.116	1.275	0.080	234	79	790	350	275
350	37	1.105	1.190	1.219	1.378	0.080	329	86	947	425	330
500	37	1.240	1.330	1.347	1.506	0.080	468	96	1163	520	405
750	61	1.430	1.520	1.534	1.693	0.080	703	109	1513	650	510
1000	61	1.575	1.670	1.683	1.902	0.110	937	119	1939	760	610

260 mils NOMINAL TRXLPE INSULATION–25 kV 100%

1	19	0.835	0.925	0.950	1.109	0.080	78	67	551	185	145
1/0	19	0.875	0.965	0.990	1.149	0.080	99	70	597	215	165
2/0	19	0.920	1.010	1.034	1.193	0.080	125	73	651	245	185
3/0	19	0.970	1.060	1.084	1.243	0.080	158	77	716	275	215
4/0	19	1.025	1.115	1.140	1.299	0.080	199	81	793	315	250
250	37	1.080	1.175	1.196	1.355	0.080	234	85	866	350	275
350	37	1.175	1.265	1.299	1.458	0.080	329	92	1027	420	335
500	37	1.310	1.405	1.427	1.586	0.080	468	101	1250	515	405
750	61	1.500	1.595	1.614	1.833	0.110	703	115	1707	650	520
1000	61	1.645	1.740	1.763	1.982	0.110	937	125	2047	755	605

345 mils NOMINAL TRXLPE INSULATION–35 kV 100%

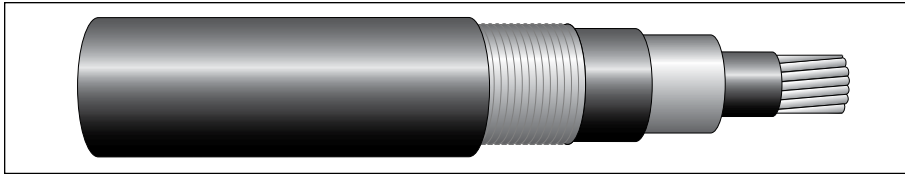
1/0	19	1.045	1.145	1.160	1.319	0.080	99	82	748	210	170
2/0	19	1.090	1.119	1.204	1.363	0.080	125	85	807	240	190
3/0	19	1.140	1.240	1.254	1.413	0.080	158	89	877	275	220
4/0	19	1.195	1.295	1.310	1.469	0.080	199	93	960	310	250
250	37	1.250	1.350	1.366	1.525	0.080	234	97	1039	345	275
350	37	1.345	1.445	1.469	1.628	0.080	329	104	1212	415	340
500	37	1.480	1.580	1.597	1.816	0.110	468	113	1544	510	410
750	61	1.670	1.770	1.784	2.003	0.110	703	127	1934	640	525
1000	61	1.815	1.920	1.933	2.152	0.110	937	137	2290	745	615

(1) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/ICEA S-97-682 for concentric neutral cables rated 5-46 kV and also meet the requirements of the latest revisions of AEIC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances.

(2) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values are based on one three-phase circuit, one conductor per phase, in flat adjacent configuration (direct buried) with metallic shield bonded at each end.

EmPowr® Fill Shielded Power Cable 5-46 kV

Al Conductor EPR Insulation Longitudinally Applied Corrugated Tape LLDPE Jacket



LONGITUDINALLY APPLIED CORRUGATED TAPE SHIELDED POWER CABLE

COMPRESSED CONDUCTOR		DIAMETER (1) INCHES					NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (2)	
AL. AWG OR kcmil	NO. OF WIRES	INSULATION		LACT SHIELD		LLDPE JACKET		AL. COND.	CU. SHIELD	TOTAL	DIRECT BURIED	IN DUCT
		MIN.	MAX.	THKN.	O.D.							

175 mils NOMINAL EPR INSULATION-15 kV 100% INSULATION LEVEL

250	37	0.920	1.005	0.008	1.104	1.264	0.080	234	131	860	370	285
250	37	0.920	1.005	0.010	1.110	1.270	0.080	234	164	895	370	285
350	37	1.015	1.100	0.008	1.207	1.367	0.080	329	157	1037	445	345
350	37	1.015	1.100	0.010	1.213	1.373	0.080	329	191	1073	445	345
500	37	1.150	1.235	0.008	1.335	1.495	0.080	468	157	1250	545	425
500	37	1.150	1.235	0.010	1.355	1.515	0.080	468	220	1323	545	425
750	61	1.340	1.425	0.008	1.536	1.696	0.080	703	199	1645	665	530
750	61	1.340	1.425	0.010	1.542	1.702	0.080	703	243	1691	665	530
1000	61	1.485	1.575	0.008	1.685	1.905	0.110	937	208	2077	780	630
1000	61	1.485	1.575	0.010	1.691	1.911	0.110	937	260	2130	780	630

220 mils NOMINAL EPR INSULATION-15 kV 133% INSULATION LEVEL

250	37	1.010	1.100	0.008	1.194	1.354	0.080	234	140	961	370	285
250	37	1.010	1.100	0.010	1.200	1.360	0.080	234	191	1012	370	285
350	37	1.105	1.190	0.008	1.297	1.457	0.080	329	157	1137	445	345
350	37	1.105	1.190	0.010	1.303	1.463	0.080	329	191	1173	445	345
500	37	1.240	1.330	0.008	1.439	1.599	0.080	468	185	1396	545	425
500	37	1.240	1.330	0.010	1.445	1.605	0.080	468	231	1444	545	425
750	61	1.430	1.520	0.008	1.626	1.846	0.110	703	203	1871	665	530
750	61	1.430	1.520	0.010	1.632	1.852	0.110	703	254	1923	665	530
1000	61	1.575	1.670	0.008	1.775	1.995	0.110	937	222	2228	780	630
1000	61	1.575	1.670	0.010	1.781	2.001	0.110	937	277	2285	780	630

(1) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/ICEA S-97-682 for concentric neutral cables rated 5-46 kV and also meet the requirements of the latest revisions of AIEC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances.

(2) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values are based on one three-phase circuit, one conductor per phase, in flat adjacent configuration (direct buried) with metallic shield bonded at each end.

Product Construction:

Complete Cable:

Cross-linked semi-conducting conductor shield, insulation and semi-conducting insulation shield are extruded over an aluminum conductor and cured in a single operation. Corrugated copper tape and an extruded black jacket are applied over the cable core.

Conductor:

Solid or Class B compressed concentric lay stranded 1350 aluminum meeting the requirements of ANSI/ICEA S-97-682.

Conductor Shield:

Extruded semi-conducting thermosetting polymeric stress control layer.

Insulation:

Extruded Ethylene Propylene Rubber (EPR) Class II and III as defined in ANSI/ICEA S-97-682.

Insulation Shield:

Extruded semi-conducting thermosetting layer, clean- and free-stripping from insulation.

Metallic Shield:

Copper, 8 or 10 mil thick Longitudinally Applied Corrugated Tape (LACT) with a minimum 375 mil overlap.

Jacket:

Black, non-conducting Linear Low-Density Polyethylene (LLDPE).

Features and Benefits:

- Even distribution of fault current and better heat dissipation
- Allows expansion/contraction of cable core
- Improved bending characteristics versus helical copper tape shield
- Triple-extruded for clean interfaces
- Class 10,000 environment utilized for material handling
- Flexibility for easy handling
- Excellent moisture resistance
- Deformation-resistant
- High dielectric strength
- Low dielectric loss
- Excellent resistance to treeing
- Clean-stripping insulation shield without the use of a release agent

Temperature Rating:

- Normal.....105°C
- Emergency*140°C
- Short Circuit250°C

**Operation at the emergency overload temperature shall not exceed 1500 hours cumulative during the lifetime of the cable.*

EmPowr® Fill Shielded Power Cable 5-46 kV

Al Conductor EPR Insulation Longitudinally Applied Corrugated Tape LLDPE Jacket

Standards and Specifications:

General Cable-BICC® Brand Electric Utility Products meet the latest requirements of ANSI/ICEA S-97-682 and AIEC CS8 as applicable for Ethylene Propylene Rubber (EPR) insulated shielded power cable.

Applications:

EmPowr® Fill cables are intended for use in dry or wet locations for distribution of three-phase medium-voltage power. These cables may be installed in ducts or direct buried.

Options:

- Copper conductors
- STRANDFILL® blocked conductor. Tested in accordance with ICEA T-31-610
- BIFILL® tested to ICEA T-34-664
 1. blocked conductor
 2. blocked cable core/LACT
- TRIFILL® tested to ICEA T-34-664
 1. blocked conductor
 2. blocked cable core/LACT
 3. sealed overlap and blocked LACT/jacket
- Sealed LACT overlap
- Dry nitrogen cure
- Red stripes on jacket
- Semi-conducting thermoplastic jacket
- 3 X 1/C triplex or parallel
- Type MV-90 UL 1072
- UL listed

For information on conductor sizes or voltage ratings not shown in the tables, contact your General Cable sales representative or e-mail info@generalcable.com.

LONGITUDINALLY APPLIED CORRUGATED TAPE SHIELDED POWER CABLE

COMPRESSED CONDUCTOR		DIAMETER (1) INCHES					NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (2)	
AL. AWG OR kcmil	NO. OF WIRES	INSULATION		LACT SHIELD		LLDPE JACKET		AL. COND.	CU. SHIELD	TOTAL	DIRECT BURIED	IN DUCT
		MIN.	MAX.	THKN.	O.D.							

260 mils NOMINAL EPR INSULATION-25 kV 100% INSULATION LEVEL

250	37	1.080	1.175	0.008	1.274	1.434	0.080	234	157	1064	370	285
250	37	1.080	1.175	0.010	1.280	1.440	0.080	234	191	1100	370	285
350	37	1.175	1.265	0.008	1.377	1.537	0.080	329	161	1235	445	345
350	37	1.175	1.265	0.010	1.397	1.557	0.080	329	220	1305	445	345
500	37	1.310	1.405	0.008	1.519	1.679	0.080	468	190	1503	545	425
500	37	1.310	1.405	0.010	1.525	1.685	0.080	468	237	1552	545	425
750	61	1.500	1.595	0.008	1.706	1.926	0.110	703	213	1998	665	530
750	61	1.500	1.595	0.010	1.712	1.932	0.110	703	266	2054	665	530
1000	61	1.645	1.740	0.008	1.855	2.075	0.110	937	227	2361	780	630
1000	61	1.645	1.740	0.010	1.861	2.081	0.110	937	289	2425	780	630

345 mils NOMINAL EPR INSULATION-35 kV 100% INSULATION LEVEL

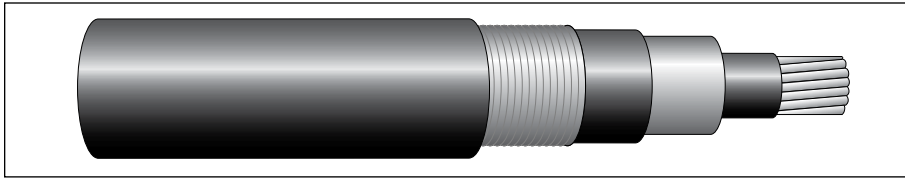
250	37	1.250	1.350	0.008	1.458	1.618	0.080	234	185	1305	360	295
250	37	1.250	1.350	0.010	1.464	1.624	0.080	234	231	1352	360	295
350	37	1.355	1.455	0.008	1.561	1.781	0.110	329	199	1594	430	355
350	37	1.355	1.455	0.010	1.567	1.787	0.110	329	243	1640	430	355
500	37	1.480	1.580	0.008	1.689	1.909	0.110	468	208	1858	530	430
500	37	1.480	1.580	0.010	1.695	1.915	0.110	468	260	1911	530	430
750	61	1.670	1.770	0.008	1.876	2.096	0.110	703	240	2294	650	550
750	61	1.670	1.770	0.010	1.882	2.102	0.110	703	289	2346	650	550
1000	61	1.815	1.920	0.008	2.025	2.245	0.110	937	245	2668	765	625
1000	61	1.815	1.920	0.010	2.031	2.251	0.110	937	306	2732	765	625

(1) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/ICEA S-97-682 for concentric neutral cables rated 5-46 kV and also meet the requirements of the latest revisions of AIEC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances.

(2) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values are based on one three-phase circuit, one conductor per phase, in flat adjacent configuration (direct buried) with metallic shield bonded at each end.

EmPowr® Link Shielded Power Cable 5-46 kV

Al Conductor TRXLPE Insulation Longitudinally Applied Corrugated Tape LLDPE Jacket



LONGITUDINALLY APPLIED CORRUGATED TAPE SHIELDED POWER CABLE

COMPRESSED CONDUCTOR		DIAMETER (1) INCHES					NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (2)	
AL. AWG OR kcmil	NO. OF WIRES	INSULATION		LACT SHIELD		LLDPE JACKET		AL. COND.	CU. SHIELD	TOTAL	DIRECT BURIED	IN DUCT
		MIN.	MAX.	THKN.	O.D.							

175 mils NOMINAL TRXLPE INSULATION-15 kV 100% INSULATION LEVEL

250	37	0.920	1.005	0.008	1.104	1.264	0.080	234	131	814	370	285
250	37	0.920	1.005	0.010	1.110	1.270	0.080	234	164	848	370	285
350	37	1.015	1.100	0.008	1.207	1.367	0.080	329	157	984	445	345
350	37	1.015	1.100	0.010	1.213	1.373	0.080	329	191	1020	445	345
500	37	1.150	1.235	0.008	1.335	1.495	0.080	468	157	1190	545	425
500	37	1.150	1.235	0.010	1.355	1.515	0.080	468	220	1263	545	425
750	61	1.340	1.425	0.008	1.536	1.696	0.080	703	199	1574	665	530
750	61	1.340	1.425	0.010	1.542	1.702	0.080	703	243	1620	665	530
1000	61	1.485	1.575	0.008	1.685	1.905	0.110	937	208	1996	780	630
1000	61	1.485	1.575	0.010	1.691	1.911	0.110	937	260	2050	780	630

220 mils NOMINAL TRXLPE INSULATION-15 kV 133% INSULATION LEVEL

250	37	1.010	1.100	0.008	1.194	1.354	0.080	234	140	899	370	285
250	37	1.010	1.100	0.010	1.200	1.360	0.080	234	191	950	370	285
350	37	1.105	1.190	0.008	1.297	1.457	0.080	329	157	1068	445	345
350	37	1.105	1.190	0.010	1.303	1.463	0.080	329	191	1103	445	345
500	37	1.240	1.330	0.008	1.439	1.599	0.080	468	185	1317	545	425
500	37	1.240	1.330	0.010	1.445	1.605	0.080	468	231	1365	545	425
750	61	1.430	1.520	0.008	1.626	1.846	0.110	703	203	1778	665	530
750	61	1.430	1.520	0.010	1.632	1.852	0.110	703	254	1830	665	530
1000	61	1.575	1.670	0.008	1.775	1.995	0.110	937	222	2124	780	630
1000	61	1.575	1.670	0.010	1.781	2.001	0.110	937	277	2181	780	630

(1) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/ICEA S-97-682 for concentric neutral cables rated 5-46 kV and also meet the requirements of the latest revisions of AIEC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances.

(2) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values are based on one three-phase circuit, one conductor per phase, in flat adjacent configuration (direct buried) with metallic shield bonded at each end.

Product Construction:

Complete Cable:

Cross-linked semi-conducting conductor shield, insulation and semi-conducting insulation shield are extruded over an aluminum conductor and cured in a single operation. Corrugated copper tape and an extruded black jacket are applied over the cable core.

Conductor:

Solid or Class B compressed concentric lay stranded 1350 aluminum meeting the requirements of ANSI/ICEA S-97-682.

Conductor Shield:

Extruded semi-conducting thermosetting polymeric stress control layer.

Insulation:

Extruded, unfilled Tree-Retardant Cross-Linked Polyethylene (TRXLPE) as defined in ICEA S-97-682.

Insulation Shield:

Extruded semi-conducting thermosetting layer, clean- and free-stripping from insulation.

Metallic Shield:

Copper, 8 or 10 mil thick Longitudinally Applied Corrugated Tape (LACT) with a minimum 375 mil overlap.

Jacket:

Black, non-conducting Linear Low-Density Polyethylene (LLDPE).

Features and Benefits:

- Even distribution of fault current and better heat dissipation
- Allows expansion/contraction of the cable core
- Improved bending characteristics versus helical copper tape shield
- Triple-extruded for clean interfaces
- Class 10,000 environment utilized for material handling
- Excellent moisture resistance
- High dielectric strength
- Low dielectric loss
- Excellent resistance to treeing
- Clean-stripping insulation shield

Temperature Rating:

- Normal.....90°C
- Emergency*130°C
- Short Circuit250°C

*Operation at the emergency overload temperature shall not exceed 1500 hours cumulative during the lifetime of the cable.

EmPowr® Link Shielded Power Cable 5-46 kV

Al Conductor TRXLPE Insulation Longitudinally Applied Corrugated Tape LLDPE Jacket

Standards and Specifications:

General Cable–BICC® Brand Electric Utility Products meet the latest requirements of ANSI/ICEA S-97-682 and AIEC CS8 as applicable for Tree-Retardant Cross-Linked Polyethylene (TRXLPE) insulated shielded power cable.

Applications:

EmPowr® Link cables are intended for use in dry or wet locations for distribution of three-phase medium-voltage power. These cables may be installed in ducts or direct buried.

Options:

- Copper conductors
- STRANDFILL® blocked conductor. Tested in accordance with ICEA T-31-610
- BIFILL® tested to ICEA T-34-664
 1. blocked conductor
 2. blocked cable core/LACT
- TRIFILL® tested to ICEA T-34-664
 1. blocked conductor
 2. blocked cable core/LACT
 3. sealed overlap and blocked LACT/jacket
- Sealed LACT overlap
- Low-strip insulation shield
- Red stripes on jacket
- Semi-conducting thermoplastic jacket
- 3 X 1/C triplex or parallel
- Type MV-90 UL 1072
- TRXLPE Class III insulation for 105°/140°C temperature rating
- UL listed

For information on conductor sizes or voltage ratings not shown in the tables, contact your General Cable sales representative or e-mail info@generalcable.com.

LONGITUDINALLY APPLIED CORRUGATED TAPE SHIELDED POWER CABLE												
COMPRESSED CONDUCTOR		DIAMETER (1) INCHES				NOMINAL JACKET THKN. INCHES (1)	APPROX. WEIGHT (1) LB/1000 FT			AMPACITY (2)		
AL. AWG OR kcmil	NO. OF WIRES	INSULATION		LACT SHIELD			LLDPE JACKET	AL. COND.	CU. SHIELD	TOTAL	DIRECT BURIED	IN DUCT
		MIN.	MAX.	THKN.	O.D.							

260 mils NOMINAL TRXLPE INSULATION–25 kV 100% INSULATION LEVEL

250	37	1.080	1.175	0.008	1.274	1.434	0.080	234	161	923	370	285
250	37	1.080	1.175	0.010	1.294	1.454	0.080	234	220	988	370	285
350	37	1.185	1.275	0.008	1.391	1.551	0.080	329	185	1105	445	345
350	37	1.185	1.275	0.010	1.397	1.557	0.080	329	231	1152	445	345
500	37	1.310	1.405	0.008	1.519	1.679	0.080	468	199	1331	545	425
500	37	1.310	1.405	0.010	1.525	1.685	0.080	468	249	1382	545	425
750	61	1.500	1.595	0.008	1.706	1.926	0.110	703	222	1769	665	530
750	61	1.500	1.595	0.010	1.712	1.932	0.110	703	277	1826	665	530
1000	61	1.645	1.740	0.008	1.855	2.075	0.110	937	240	2113	780	630
1000	61	1.645	1.740	0.010	1.861	2.081	0.110	937	301	2174	780	630

345 mils NOMINAL TRXLPE INSULATION–35 kV 100% INSULATION LEVEL

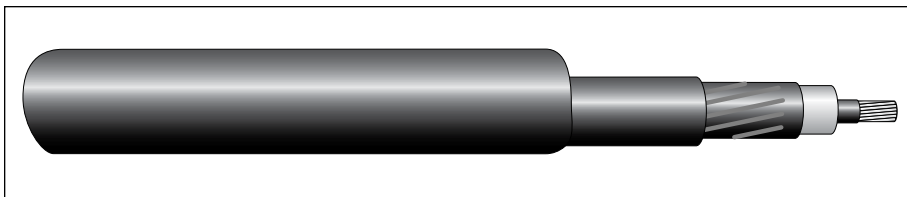
250	37	1.250	1.350	0.008	1.458	1.618	0.080	234	199	1125	360	295
250	37	1.250	1.350	0.010	1.464	1.624	0.080	234	243	1170	360	295
350	37	1.355	1.455	0.008	1.561	1.781	0.110	329	208	1365	430	355
350	37	1.355	1.455	0.010	1.567	1.787	0.110	329	260	1418	430	355
500	37	1.480	1.580	0.008	1.689	1.909	0.110	468	222	1609	530	430
500	37	1.480	1.580	0.010	1.695	1.915	0.110	468	277	1665	530	430
750	61	1.670	1.770	0.008	1.876	2.096	0.110	703	245	2002	650	550
750	61	1.670	1.770	0.010	1.882	2.102	0.110	703	306	2064	650	550
1000	61	1.815	1.920	0.008	2.025	2.245	0.110	937	259	2357	765	625
1000	61	1.815	1.920	0.010	2.031	2.251	0.110	937	324	2423	765	625

(1) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/ICEA S-97-682 for concentric neutral cables rated 5-46 kV and also meet the requirements of the latest revisions of AIEC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances.

(2) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values are based on one three-phase circuit, one conductor per phase, in flat adjacent configuration (direct buried) with metallic shield bonded at each end.

EmPowr® CDC® Underground Distribution—Primary Combined Duct & Cable

Primary Cable Installed in Extruded High-Density Polyethylene Duct



EMPOWR® CDC®

NOMINAL CONDUIT SIZE (INCHES)	MINIMUM I.D. (INCHES)	O.D. (± 0.012") (INCHES)	MINIMUM INSIDE AREA (SQ. INCHES)	APPROX. WEIGHT (LB/1000 FT)	MINIMUM* WALL THICKNESS (INCHES)	MINIMUM BEND RADIUS (INCHES)
1 1/4	1.408	1.660	1.557	240	0.100	18
1 1/2	1.618	1.900	2.056	310	0.115	21
2	2.033	2.375	3.246	475	0.145	26

*The maximum wall thickness is the minimum plus 0.020 inches.

MAXIMUM CROSS-SECTIONAL AREA OF CONDUCTORS PER CONDUIT

NOMINAL CONDUIT SIZE (INCHES)	MINIMUM INSIDE AREA (SQ. INCHES)	MAXIMUM TOTAL CROSS-SECTIONAL AREA OF CONDUCTORS (SQ. INCHES)
		53% FILL ONE CONDUCTOR (SQ. INCHES)
1 1/4	1.557	0.825
1 1/2	2.056	1.090
2	3.246	1.720

The maximum percent fill used above is based on National Electrical Code recommendations. Larger fill areas can be furnished when required by the user.

MAXIMUM DIAMETER OF CONDUCTORS PER CONDUIT

NOMINAL CONDUIT SIZE (INCHES)	MINIMUM INSIDE AREA (SQ. INCHES)	MAXIMUM CONDUCTOR DIAMETER
		ONE (1) CONDUCTOR (INCHES)
1 1/4	1.408	1.025
1 1/2	1.618	1.178
2	2.033	1.480

The maximum diameter of each conductor above is based on National Electrical Code recommendations. Larger conductor diameters can be furnished when required by the use. All conductors in the conduit are the same size. Other conduit sizes may be furnished on request.

Product Construction:

Complete Assembly:

EmPowr® CDC® Combined Duct & Cable consists of insulated conductor factory installed in a black high-density polyethylene conduit. The polyethylene conduit is extruded directly over any prior-made single medium-voltage cable.

Complete Cable:

All underground distribution cables in EmPowr® CDC® are manufactured and tested in accordance with applicable industry standards and/or individual customer specifications. See the appropriate catalog section for a complete cable description.

Conduit:

The high-density polyethylene EPEC-A Conduit is manufactured and tested in accordance with NEMA Standard TC7, "Smooth-wall Coilable Electrical Polyethylene Conduit."

Applications:

EmPowr® CDC® Combined Duct & Cable offers an economical alternative to pulling cable in previously installed short lengths of duct joined with sleeve couplings. The inherent construction advantages and versatility of the EmPowr® CDC® design are ideally suited for underground primary distribution systems up to 46 kV.

Features and Benefits:

In addition to the initial labor savings achieved from installation of cable and conduit in a single operation, cable replacement costs and ground disruption are significantly less for the EmPowr® CDC® cable system. Tough, yet light and flexible, high-density polyethylene conduit provides ease of installation and high impact resistance for cable protection.

Options:

- EPEC-B, EPEC-40 or EPEC-80 smooth-wall coilable electrical polyethylene conduit TC 7
- Grey or red color
- Extruded red stripes

EmPowr® Link Underground Distribution Cable 35 kV

Al Conductor TRXLPE Insulation Concentric Neutral LLDPE Jacket

Wind Farm Power Cable

In virtually every region of the world, increasing demand for energy is accelerating investment in exploration, extraction, power generation, transmission and distribution—whether based on coal, natural gas, oil, nuclear, water or wind. General Cable is meeting this growing need with a complete range of specialized products and technical expertise.

General Cable has been working with wind farm contractors, developers and wind turbine manufacturers to deliver clean, renewable power from the beginning of the wind power industry more than 20 years ago. We have been a key supplier to the global wind farm market, supporting major projects in Europe, Asia and North America with material supply, material development and engineering resources.



Product Construction:

Complete Cable:

Cross-Linked semi-conducting conductor shield, insulation and semi-conducting insulation shield are extruded over an aluminum conductor in a single operation. Helically applied, solid bare copper wires and black extruded jacket with a red stripe are applied over the cable core. The completed cable is a BIFILL® water-blocked construction, which includes a water-blocked conductor and cable core/jacket tested in accordance with ICEA T-34-664.

Conductor: (A)

Solid or Class B compressed concentric lay stranded 1350 aluminum meeting the requirements of ANSI/ICEA S-94-649.

Conductor Shield: (B)

Extruded semi-conducting thermosetting polymeric stress control layer.

Insulation: (C)

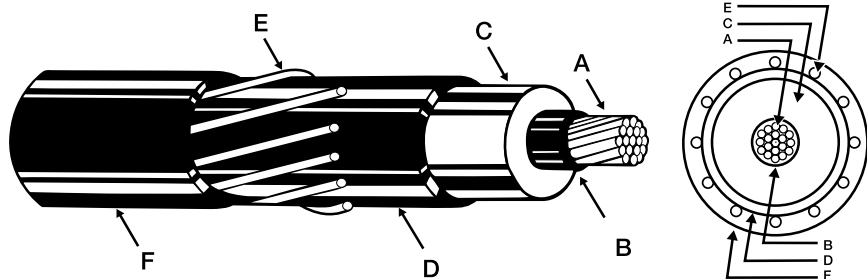
Extruded, unfilled Tree-Retardant Cross-Linked Polyethylene (TRXLPE) as defined in ANSI/ICEA S-94-649—100% insulation level.

Insulation Shield: (D)

Extruded semi-conducting thermosetting layer, clean- and free-stripping from insulation.

Concentric Neutral: (E)

Helically applied, annealed, solid bare copper wires.



Jacket: (F)

Black, non-conducting Linear Low-Density Polyethylene (LLDPE) extruded to fill spaces between neutral wires and extruded with red stripe.

Features and Benefits:

- Triple extruded for clean interfaces
- Dry nitrogen cure for enhanced performance
- Class 10,000 environment utilized for material handling
- Excellent moisture resistance
- High dielectric strength
- Low dielectric loss
- Excellent resistance to treeing
- Clean-stripping insulation shield

Insulation Temperature Rating:

- Normal 90°C
 - Emergency* 130°C
 - Short Circuit 250°C
- * Operation at the emergency overload temperature shall not exceed 1500 hours cumulative during the lifetime of the cable.*

Specifications:

General Cable BICC® Brand Utility products meet the latest requirements of ANSI/ICEA S-94-649, AEIC CS8 and ICEA T-34-664 as applicable for TRXLPE insulated concentric neutral cable.

Applications:

EmPowr® link cables are intended for use in wet or dry locations for distribution of single or three phase medium-voltage power. These cables may be installed in ducts or direct buried.

Options:

- EmPowr® Fill—EPR insulated cable
- Copper conductors
- UltraPowr™ super-smooth semi-conducting conductor shield
- Overlaying PVC jacket with separator tape
- 3X 1/C triplex or parallel
- UL Listed 1072 Type MV-90
- CSA certified

EmPowr® Link Underground Distribution Cable 35 kV

Al Conductor TRXLPE Insulation Concentric Neutral LLDPE Jacket

UNDERGROUND DISTRIBUTION CABLE—35 kV—TYPE URD—CONCENTRIC NEUTRAL

COMPRESSED CONDUCTOR CLASS B STRAND (A)			NEUTRAL CONFIGURATION (E)			DIAMETER (1) (INCHES)			NOM. JACKET THKN. (IN) (1)	APPROXIMATE WEIGHT LB/1000 FT			AMPACITY (2)		
AL. AWG or kcmil	NOM. COND. DIA. (IN)	NO. OF WIRES	NEUT. SIZE	NO. OF WIRES	WIRE SIZE AWG	MIN. INS. O.D. (C)	MAX. INS. O.D. (C)	NOM. JACKET O.D. (F)	ENCAP LLDPE JACKET (F)	AL. COND.	CU. NEUT. WIRES	TOTAL	DIRECT BURIED FLAT (3)	TREFOIL	BURIED IN DUCT (4)
345 mils NOMINAL TRXLPE INSULATION—100% INSULATION LEVEL															
1/0	0.362	19	Full	16	14	1.045	1.145	1.404	0.055	99	214	902	245	230	174
1/0	0.362	19	2/3	11	14	1.045	1.145	1.404	0.055	99	147	842	245	230	174
1/0	0.362	19	1/2	8	14	1.045	1.145	1.404	0.055	99	107	806	250	230	174
1/0	0.362	19	1/3	6	14	1.045	1.145	1.404	0.055	99	80	782	250	230	174
3/0	0.456	19	Full	16	12	1.140	1.240	1.532	0.055	158	339	1174	310	300	229
3/0	0.456	19	2/3	17	14	1.140	1.240	1.498	0.055	158	227	1041	315	300	229
3/0	0.456	19	1/2	13	14	1.140	1.240	1.498	0.055	158	174	994	315	300	229
3/0	0.456	19	1/3	9	14	1.140	1.240	1.498	0.055	158	120	946	320	300	229
4/0	0.512	19	Full	20	12	1.195	1.295	1.588	0.055	199	423	1334	350	340	262
4/0	0.512	19	2/3	21	14	1.195	1.295	1.554	0.055	199	280	1172	355	340	262
4/0	0.512	19	1/2	16	14	1.195	1.295	1.554	0.055	199	214	1112	355	340	262
4/0	0.512	19	1/3	11	14	1.195	1.295	1.554	0.055	199	147	1052	360	340	263
350	0.661	37	2/3	22	12	1.355	1.455	1.797	0.080	329	466	1686	440	445	352
350	0.661	37	1/2	17	12	1.355	1.455	1.797	0.080	329	360	1592	445	445	353
350	0.661	37	1/3	18	14	1.355	1.455	1.763	0.080	329	240	1446	455	450	354
350	0.661	37	1/6	9	14	1.355	1.455	1.763	0.080	329	120	1339	475	450	356
500	0.789	37	2/3	20	10	1.480	1.580	1.967	0.080	468	673	2170	505	535	427
500	0.789	37	1/2	24	12	1.480	1.580	1.925	0.080	468	508	1971	510	540	428
500	0.789	37	1/3	16	12	1.480	1.580	1.925	0.080	468	339	1820	525	545	432
500	0.789	37	1/6	13	14	1.480	1.580	1.891	0.080	468	174	1630	555	545	435
750	0.968	61	1/2	23	10	1.670	1.770	2.184	0.080	703	774	2718	585	655	532
750	0.968	61	1/3	24	12	1.670	1.770	2.142	0.080	703	508	2423	595	665	539
750	0.968	61	1/6	19	14	1.670	1.770	2.108	0.080	703	254	2149	645	675	548
1000	1.117	61	1/2	30	10	1.815	1.920	2.333	0.080	937	1010	3304	650	740	609
1000	1.117	61	1/3	20	10	1.815	1.920	2.333	0.080	937	673	3002	645	755	624
1000	1.117	61	1/6	16	12	1.815	1.920	2.291	0.080	937	339	2642	695	775	642
1250	1.251	91	1/3	25	10	1.960	2.065	2.481	0.080	1172	842	3539	690	825	687
1250	1.251	91	1/6	20	12	1.960	2.065	2.439	0.080	1172	424	3100	730	855	715
1250	1.251	91	1/12	16	14	1.960	2.065	2.405	0.080	1172	214	2859	815	880	733
1500	1.370	91	1/3	24	9	2.100	2.205	2.625	0.080	1406	1018	3975	730	875	730
1500	1.370	91	1/6	24	12	2.100	2.205	2.558	0.080	1406	509	3409	750	920	767
1500	1.370	91	1/12	19	14	2.100	2.205	2.524	0.080	1406	254	3126	845	950	793

(1) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/ICEA S-94-649 for concentric neutral cables rated 5-46 kV and also meet the requirements of the latest revisions of AIEC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances.

(2) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temperature, 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values are based on one three-phase circuit, one conductor per phase, with neutral wires bonded at each end.

(3) Cables buried in flat adjacent configuration with 7.5" spacing between conductors.

(4) Cables trefoil in a single duct; duct size is based on 40% fill.

High- and Extra-High-Voltage Transmission Cable

RELY ON OUR EXPERIENCE... EXPERIENCE OUR CAPABILITIES



For close to half a century, Silec Cable has been a recognized leader in the global electric utility market. With unrivaled expertise and turnkey project management, Silec Cable provides the innovation, quality and service to reliably and cost-effectively bring power from the grid into major urban areas. **Having pioneered the development of solid-dielectric extruded High- and Extra-High-Voltage (HV/EHV) cable systems for nearly fifty years**, Silec Cable provides its global customers with superior cable system solutions that offer maximum flexibility and service life.

When it comes to upgrading North America's aging utility grid with underground solid-dielectric cable systems, Silec North America understands the challenges that these significant and complex projects present, from system planning, engineering and project management to final testing and post-project maintenance. Underground transmission systems represent a considerable investment, requiring a long-term partner that has in-depth knowledge of the cables, accessories and installation methods — Silec North America is that partner.

- Decades of experience in underground solid-dielectric cable systems
- Comprehensive line of High- and Extra-High-Voltage cable and accessories
- Total turnkey project planning, installation, management and testing
- Optimized economics to keep projects on time and on budget
- Extremely reliable, low-maintenance and long-term performance
- Complete post-project maintenance and support

With the best experience, the best product and the best service, Silec North America is the best partner to meet your expectations.

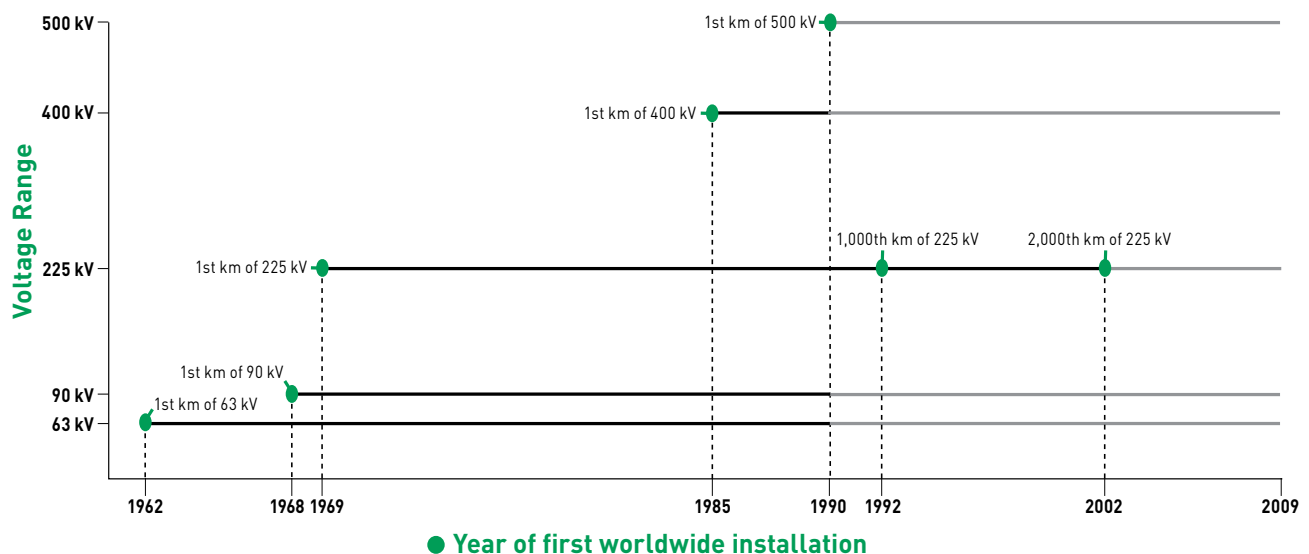
THE WORLD LEADER FOR HV/EHV UNDERGROUND TRANSMISSION CABLE SYSTEMS UP TO 500 kV



- 63-110 kV
- 132-160 kV
- 230 kV
- 345-500 kV

Voltage level (kV)	63-161	220-230	>330-500
Cable	>9,300 km	> 3,700 km	>360 km
Terminations	>25,000	> 7,300	>760
Joints	>12,500	> 6,250	>450

40 Years of Worldwide High- & Extra-High-Voltage Firsts

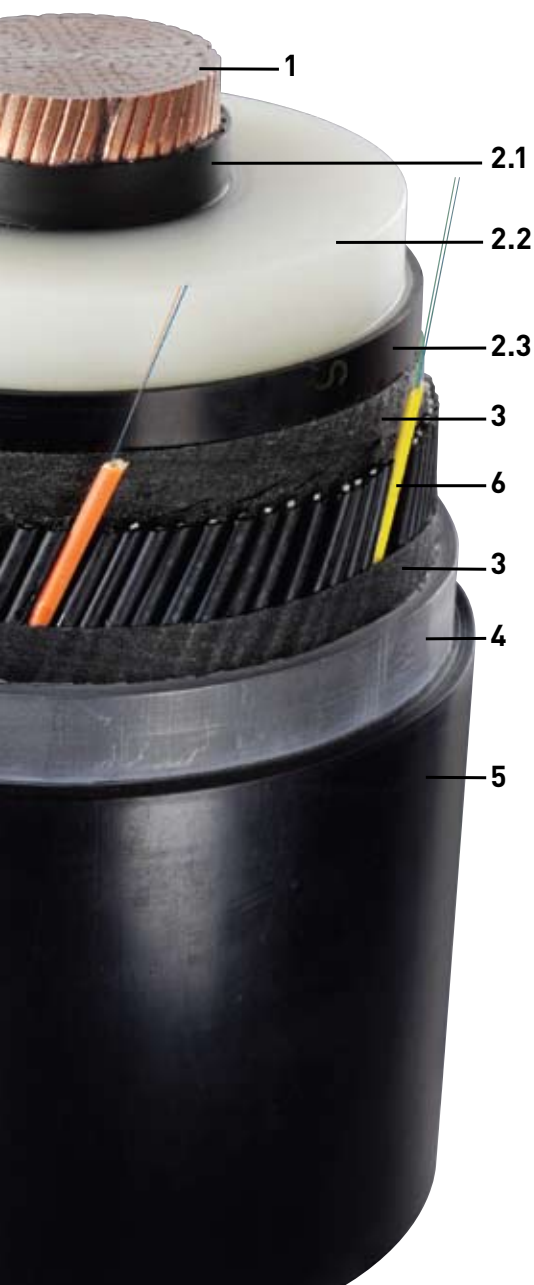


HIGH- & EXTRA-HIGH-VOLTAGE GLOBAL CABLE SOLUTIONS

The Silec name has been synonymous with solid-dielectric extruded cable solutions for nearly fifty years. Silec North America offers a fully integrated approach to providing a comprehensive range of quality High- and Extra-High-Voltage cable solutions that are designed, engineered and manufactured to ensure maximum service life and best-in-class performance while maintaining cost effectiveness.

Silec North America's HV/EHV underground transmission cables are reliable and environmentally sound to meet the needs of current and future utility transmission systems. They exceed the requirements of our customers' technical specifications while meeting international standards like ICEA S-108-720, AEIC CS9, IEC 60840, IEC 60287 and IEC 62067. Significant in-house testing includes:

- Qualification testing for cables up to 500 kV
- Testing capabilities for voltages up to 700 kV
- PD testing to <1 pC



The Most Comprehensive HV/EHV Solid-Dielectric Underground Transmission Cable Options in the Industry — Voltage Ratings up to 500 kV

1 Conductor

Manufacturing up to 5,000 kcmil (2,500 mm²) conductor.

- Copper or aluminum stranded wires – watertight or non-watertight
 - Compact round
 - Segmental for Milliken conductor (recommended at 2,000 kcmil [1,013 mm²] and above) to achieve high ampacities

2 Insulation

Triple-head extrusion processed on the only-one-of-its-kind 100 m deep vertical line shaft to achieve optimum insulation concentricity. The use of super-clean Cross-Linked Polyethylene (XLPE) provides high dielectric performance.

2.1 Inner semi-conductive layer

2.2 Insulation

2.3 Outer semi-conductive layer

3 Water Tightness

Swelling semi-conductive tape (under and over fiber tubes).

4 Metallic Sheath

Sheathing options for short circuit requirements and water barrier.

- Concentric neutral wires: copper or aluminum
- Laminated sheath: copper or aluminum
- Welded or TIG welded
- Lead sheath
- Metallic sheath designed to meet high short circuit applications

5 Jacket

Jacketing options for mechanical protection.

- Polyvinyl Chloride (PVC)
- Polyethylene (PE)
- High-Density Polyethylene (HDPE) or Low-Density Polyethylene (LDPE)

6 Additional Components

µCable (up to 2 FO) integrated into the High- or Extra-High-Voltage power cable for temperature monitoring via DTS system, PD detection and other diagnostic capabilities.

- Proprietary µCable (single- or multimode fiber) within a Polyethylene (PE) tube for flexibility and smaller overall diameter

HIGH- & EXTRA-HIGH-VOLTAGE CABLE ACCESSORIES



As part of a fully integrated approach and commitment to providing complete system performance, Silec North America offers a wide range of HV/EHV cable accessories. Vital components of an overall cable system, these accessories are designed, precision-controlled and manufactured to ensure best-in-class performance and long-term service reliability.

Thousands of accessories in service

Voltage level (kV)	63-161	220-230	330-500
Terminations	>25,000	> 7,300	>760
Joints	>12,500	> 6,250	>450



A COMPLETE RANGE OF High- and Extra-High-Voltage Cable Accessories

From 72.5 kV to 550 kV to connect cables up to 5,000 kcmil (2,500 mm²)

Silec Cable's advanced technology in compounding and molding of silicone, EPDM and resins translates into a complete range of high-performance accessories from 72.5 kV to 550 kV to connect cables up to 5,000 kcmil (2,500 mm²) per IEEE 48 and IEEE 404.

Engineering and Testing

Silec North America's HV/EHV cable accessories are 100% tested through a range of calculation, modeling and testing techniques that enable Silec to continuously adapt and optimize performance to meet the demands of our customers. Silec North America's kitting options and superior logistics and distribution also ensure that our customers get the accessories they need in days, not weeks or months.



Silec offers an engineered short joint that is more space-efficient and affordable and utilizes ester oil terminations, which improve on-site safety conditions and lessen termination time.

High- and Extra-High-Voltage Cable Accessories	Maximum Voltage			
	72.5 kV	123 kV to 170 kV	245 kV	>362 kV
Joints: with or without grounding system with shield interruption with solutions for water tightness (Cu casing, etc.)	Wrapped or EPDM Pre-Molded	EPDM Pre-Molded	Short Joint	Pre-Molded EPDM
Outdoor Composite or Porcelain Terminations	Pre-Molded Stress Cone	Ester Oil Termination	Pre-Molded Stress Cone	Pre-Molded EPDM
Synthetic Terminations	Pre-Molded Shed Pre-Molded Stress Cone		–	–
GIS and Transformer (SF₆ and/or Oil)	Silicon Pre-Molded – Epoxy Insulator			Pre-Molded EPDM – Epoxy Insulator
Transition Joints	Back-to-Back Joint with 2 GIS Terminations Back-to-Back Joint with One Insulator			Back-to-Back Joint with 2 GIS Terminations Side-by-Side Joint with 2 GIS Terminations
Link Boxes	Available according to the designed grounding system			
Additional Installation Materials	Designed, recommended and supplied by Silec North America Clamps, Support for Joints, Racking System, etc.			

HIGH- & EXTRA-HIGH-VOLTAGE TURNKEY SERVICES



With more than 13,000 km of cables, 33,000 terminations and 19,200 joints of HV/EHV cables installed and commissioned since 1962, Silec Cable is your best partner for the life of the entire cable system. From system engineering and installation to final testing and post-project services, Silec North America specializes in providing turnkey service management for new cable projects or the upgrading of existing cable circuits.

With decades of experience, Silec's HV/EHV North American specialists design, install and manage cable systems according to customer specifications, budgets and timelines. We then provide the comprehensive assessment, monitoring, training and service programs needed to **extend the lifetime of the system** while **reducing maintenance** and **optimizing operating costs**.

Silec North American Turnkey Services

Engineering: System and Installation Engineering

- Cable system design
- Civil design
- Complete construction specification

Management: Project Management

Safety Management

Environmental Management

Installation: Cable Pulling

Accessory Installation and Termination Services

- Experienced and skilled technicians
- On-site coordination

Testing:

On-Site Testing and Commissioning

- Visual inspection of cable system
- Testing of sheath bonding system
- AC commissioning test per IEC Standard 62067
- High-voltage resonant tests and partial discharge (PD) measurement
- Assessment of in-service systems
- Investigation of cable system faults and failures

Emergency: After-Sales Service

- Experienced and skilled technicians
- North American inventory of limited shelf life-type materials
- Expedited maintenance and replacement of any circuit part up to 500 kV
- Emergency failure repair

Technical Assessments

- Comprehensive site investigations and technical assessments
- Advanced North American laboratories for testing materials and components

Stand-By Links

- For voltages up to 275 kV
- Used in substations to bypass OHL
- Maintain power transmission in the case of unusual failures
- Substation repairs and spare product support

Other:

Training

- Customized training programs for maintenance crews



ONE COMPANY — YOUR SOURCE FOR GLOBAL HIGH-PERFORMANCE QUALITY CABLE, ACCESSORIES AND SERVICES



A Worldwide Partnership

As a 100% subsidiary of General Cable, Silec Cable's experience and innovation are backed by one of the most geographically diversified wire and cable companies in the world. General Cable's legacy of leadership, innovation and service spans more than 100 years, and the company is solely dedicated to the development and manufacturing of the most reliable and technologically advanced cable solutions, as well as first-rate distribution and customer service. General Cable serves customers through a global network of 45 manufacturing facilities in 22 countries and sales representatives and distribution centers worldwide.

Safety — Our First Priority

General Cable has one worldwide safety vision and goal – **ZERO AND BEYOND**. We measure safety performance globally, share best practices and implement sound health and safety management systems. Many of our facilities worldwide are OHSAS 18001 (safety management system) certified. All North American facilities have implemented an equivalent health and safety management system.

General Cable was a pioneer in obtaining the OHSAS 18001 Certificate for Occupational Health and Safety Management Systems in Europe and North Africa.



Environmental — Foundation of Our Actions

As a global leader in the wire and cable industry, General Cable recognizes our role and responsibility in promoting sustainability. Our strongest business value is continuous improvement in all areas of our company. Across our many businesses, the quest to introduce new and better products through continuous improvement in environmental designs reflects our commitment to achieving industry-leading standards and responding proactively to global environmental issues.

General Cable was the first cable manufacturer to obtain certification for its environmental management system, in accordance with the ISO 14001 and EMAS Standards.



Research and Development — Our Competitive Advantage

General Cable uses the latest technology and systems to ensure superior engineering and manufacturing, as well as industry-leading logistics. Our global resources deliver maximum value to customers through a powerful combination of product and service innovations. General Cable backs all operations with an unwavering dedication to responsive customer service and knowledgeable technical support.



Quality Assurance Guaranteed — Our Path to Excellence

Through ongoing quality assurance initiatives, General Cable ensures the quality of product design, manufacture, installation and expected service life, as well as respect for the environment through sustainable products, processes and policies. Continuous research and development, combined with process control, quality audits and stringent testing, provide an ever-growing range of materials and designs that meet the global approvals and standards of the electric utility industry.

Overhead Conductors

TransPowr® Bare Overhead Conductors for Transmission and Distribution

General Cable manufactures an extensive line of bare aluminum overhead products for both distribution and transmission applications.

For ACSR and ACSS concentric round or trapezoidal conductors, numerous aluminum and steel stranding combinations are available. A variety of steel strengths and types of coatings or claddings are available. Trapezoidal AAC, ACSR and ACSS conductor designs are listed in separate catalog sections. Compact aluminum and ACSR stranded conductor information may be found in the Canadian Electric Utility catalog.

General Cable's TransPowr® bare overhead conductors, included in this catalog, are manufactured in accordance with applicable ASTM specifications. Contact General Cable for further details on conductor designs manufactured to other international specifications.

TransPowr® Bare Overhead Options:

- **Non-Specular (NS)** – Overhead aluminum electrical conductors, when installed, typically have a shiny surface appearance. This “reflective” or “specular” surface can make a transmission line more noticeable in appearance against the background landscape. A factory treatment process of the outer surface of the aluminum wires can render the surface finish into a dull, Non-Specular matte grey finish. This non-reflective or “de-glared” surface finish allows the conductor to become less visible when observed from a distance and enables the transmission line to blend in with the skyline or landscape background. The “NS” surface finish option is available for all types of bare overhead conductors that have aluminum outer strand wires.
- **High-Conductivity Aluminum (HC)** – The normal 1350 hard-drawn aluminum material used for an ACSR-type conductor has a minimum average conductivity value of 61.2% IACS (International Association Copper Standard). By carefully selecting the feed stock of the raw materials and manufacturing process used to refine the aluminum and convert it into rolled rod, a purer grade of 1350 aluminum can be manufactured. When this is done, the aluminum conductivity value is increased to 62.0%. The use of the higher conductivity metal means the overall electrical resistance of the conductor is lowered. Lowering the electrical resistance means there are lower line losses incurred in the transmission line.

- “Mischmetal” Alloy-Coated Steel** – Inside an ACSR and ACSS conductor, there is the stranded steel core. To provide corrosion protection for the steel, traditionally zinc has been used to coat (galvanize) the steel. In recent years, a zinc alloy material has also been used. This material, a 95% zinc/5% aluminum alloy, is available as an optional steel wire coating material. The alloy, known as zinc-5% aluminum “mischmetal” alloy, demonstrates improved corrosion resistance and high temperature exposure compatibility as compared to regular zinc. For ACSS conductors, “mischmetal” alloy coated steel is recommended for applications where the conductor will see exposure to temperatures in excess of 200°C.
- Ultra-High-Strength Steel** – In response to industry needs, there are new high strength carbon steel materials now available for ACSR and ACSS conductors. The higher strength steel overcomes some of the previous transmission line design limitations encountered with conductor selection options available. The availability of these new steel materials boosts the conductor rated strength and can enable enhanced sag and tension calculation results. General Cable identifies the new ultra-high-strength steel as GA5 (for zinc coated steel) and MA5 (for the zinc-5% aluminum “mischmetal” alloy coated steel) strength grade designations. General Cable participated in the creation of two new ASTM standards to introduce these new steel types (ASTM B957 for GA5 steel and ASTM B958 for MA5 steel).
- Aluminum-Clad Steel (AW)** – In the USA, the “AW” identifier is used for aluminum-clad steel. Elsewhere in the world, other designations are used. Aluminum-clad steel is chosen for coastal locations or applications where there are severe corrosion concerns for the steel core and a zinc or “mischmetal” coated steel will not last. Aluminum-clad steel also offers the advantage of having a higher conductivity than conventional galvanized steel wires. The higher conductivity will reduce the line loss parameters of the transmission line, saving energy and reducing the day-to-day operating cost. In an ACSS conductor, aluminum-clad steel can allow the conductor to be operated up to 250°C.
- Compact (Smooth Body) Conductors** – While not popular in the USA, compact AAC and ACSR type conductors for *distribution conductor sizes* are used in Canada and elsewhere in the world. General Cable can supply compact AAC (to ASTM B400) and compact ACSR (to ASTM B401) “smooth body” type conductor products. Compact conductors reduce the overall diameter of the conductor, thus lowering the resultant wind and ice loads on the conductor. In heavy ice load locations, the compact conductor option may be an interesting design option to explore. Contact your General Cable sales representative for additional information.
- Trapezoidal (TW) Conductors** – For overhead *transmission conductor applications*, General Cable supplies TW compact style conductors. The aluminum strand wires in a “round wire” stranded conductor leave approximately 25% of an air gap space in between the aluminum strands. Compacting the aluminum strands into the trapezoidal (TW) shape allows you to significantly reduce this empty air space and fill it with aluminum. By “compacting” the metal space, it allows you to build a conductor that either a) has the same cross-sectional area of aluminum and a reduced overall conductor diameter or b) has the same overall conductor diameter as before, but now squeezes in more aluminum cross-sectional area. Reducing the overall diameter of the conductor provides the advantage of lowering the resultant ice and wind loading on the conductor. Maintaining the same diameter by increasing the aluminum metal content means you lower the power loss in the conductor for day-to-day operations, as well as having a higher overall conductor ampacity rating. With TW conductors, the growing trend is to utilize the same diameter/increased aluminum cross-sectional area option.

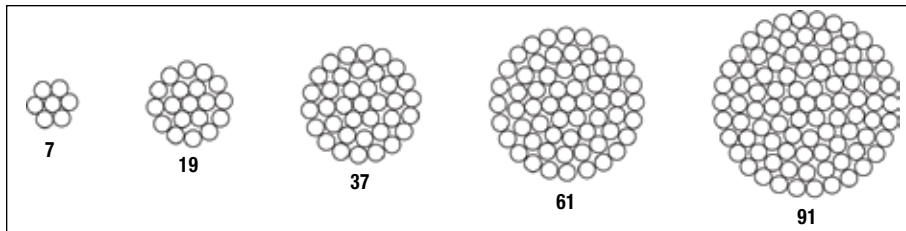
TransPowr® bare overhead conductors can be designed to meet special applications and requirements. For designs not found in these catalog pages, contact your General Cable sales representative.

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Notes

TransPowr® AAC Bare Overhead Conductor

All-Aluminum 1350 Conductor Concentric-Lay-Stranded



Product Construction:

Complete Conductor:

Bare all-aluminum 1350 Conductors (AAC) are concentric-lay-stranded, consisting of one or more layers of wire wrapped helically around a straight round central wire. Each successive layer has six wires more than the layer immediately beneath. Greater flexibility is provided by increasing the number of strands for a specific cross-sectional area. AAC conductors are manufactured in accordance with the requirements of the latest applicable issues of ASTM specifications B230 and B231. The more commonly used strandings are 7, 19, 37, 61 and 91. 127, 169 and 217 strandings are also available.

Complete Conductor (cont'd):

Class AA strandings are used for bare overhead lines. The direction of lay for the outer layer is right-hand and is normally reversed in successive layers. The temper is full hard drawn (H19).

Class A strandings are used primarily for overhead conductors which are to be covered with weather-resistant materials. Greater flexibility than Class AA is provided. The outer layer is right-hand, and the temper generally H19. Successive layers have reverse lay.

Features and Benefits:

Optimum economy is provided since the lighter weight means lower unit length costs, easier handling in installation and less-complex fittings. All-aluminum conductors have an inherent high corrosion resistance due to their homogeneous construction.

Applications:

Stranded bare all-aluminum 1350 conductors (AAC) are used in overhead line installations where design parameters do not require the higher strength or temperature ratings provided by ACSR, ACSS or other type conductors.

Options:

- Compact aluminum strands (ASTM B400)
- Trapezoidal-shaped aluminum strands (/TW)
- High-conductivity aluminum (/HC) (62.0% IACS)
- Non-specular surface finish (/NS)

For other conductor sizes, designs and/or specific installation requirements not shown in the tables, contact your General Cable sales representative or e-mail info@generalcable.com.

TransPowr® AAC Bare Overhead Conductor

All-Aluminum 1350 Conductor Concentric-Lay-Stranded

AAC, ALUMINUM 1350 CONDUCTORS – CONCENTRIC, LAY-STRANDED – (MECHANICAL PROPERTIES)

CODE WORD	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES	CLASS	CROSS-SECTION SQ. INCHES	O.D. INCHES	NOMINAL MASS LB/1000 FT	RATED STRENGTH LBS	STANDARD PACKAGES (1)		
								REEL DESIGNATION	WEIGHT LBS	LENGTH FT
Peachbell	6	7x0.0612	A	0.0206	0.184	24.6	560	NR 42.28 NR 36.22 COIL	1400 700 200	56910 28455 8130
Rose	4	7x0.0772	A	0.0328	0.232	39.1	880	NR 42.28 NR 36.22 COIL	1395 700 200	35710 17855 5100
Iris	2	7x0.0974	A, AA	0.0522	0.292	62.2	1350	NR 42.28 NR 36.22 COIL	1400 700 200	22470 11235 3210
Pansy	1	7x0.1093	A, AA	0.0657	0.328	78.4	1640	NR 42.28 NR 36.22 COIL	1400 700 200	17830 8915 2550
Poppy	1/0	7x0.1228	A, AA	0.0829	0.368	99.0	1990	NR 42.28 NR 36.22 COIL	1395 700 200	14130 7065 2020
Aster	2/0	7x0.1379	A, AA	0.1045	0.414	124.8	2510	NR 42.28 NR 36.22	1400 700	11210 5605
Phlox	3/0	7x0.1548	A, AA	0.1317	0.464	157.3	3040	NR 42.28 NR 36.22	1400 700	8890 4445
Oxlip	4/0	7x0.1739	A, AA	0.1663	0.522	198.3	3830	NR 42.28 NR 36.22	1400 700	7050 3525
Daisy	266.8	7x0.1953	AA	0.2095	0.586	250	4830	NR 42.28 NR 36.22	1400 700	5590 2795
Laurel	266.8	19x0.1185	A	0.2095	0.593	250	4970	RM 68.38 NR 66.28 NR 48.28 NR 42.28	3795 3795 1895 1265	15170 15170 7585 5055
Tulip	336.4	19x0.1331	A	0.2644	0.666	315	6150	RM 68.38 NR 66.28 NR 48.28 NR 42.28	3795 3795 1900 1265	12030 12030 6015 4010
Daffodil	350.0	19x0.1357	A	0.2748	0.679	328	6390	RM 68.38 NR 66.28 NR 48.28 NR 42.28	3790 3790 1895 1265	11560 11560 5780 3855
Canna	397.5	19x0.1447	A, AA	0.3120	0.723	373	7110	RM 68.38 NR 66.28 NR 48.28 NR 42.28	3790 3790 1895 1265	10180 10180 5090 3395
Cosmos	477.0	19x0.1584	AA	0.3744	0.792	447	8360	RM 68.38 NR 66.28 NR 48.28 NR 42.28	3795 3795 1895 1265	8490 8490 4245 2830
Syringa	477.0	37x0.1135	A	0.3744	0.795	447	8690	RMT 84.45 RM 68.38 NR 66.28 NR 48.28	7385 3695 3695 1850	16530 8265 8265 4135
Zinnia	500.0	19x0.1622	AA	0.3926	0.811	469	8760	RM 68.38	3795	8100
Hyacinth	500.0	37x0.1162	A	0.3924	0.813	469	9110	RMT 84.45 RM 68.38	7380 3690	15760 7880
Dahlia	556.5	19x0.1711	AA	0.4369	0.856	522	9750	RM 68.38 NR 66.28 NR 48.28 NR 42.28	3790 3790 1895 1265	7270 7270 3635 2425
Mistletoe	556.5	37x0.1226	A	0.4368	0.858	522	9940	RMT 84.45 RM 68.38 NR 66.28 NR 48.28	7385 3695 3695 1850	14170 7085 7085 3545
Meadowsweet	600.0	37x0.1273	A, AA	0.4709	0.891	562	10700	RMT 84.45 RM 68.38	7385 3690	13140 6570
Orchid	636.0	37x0.1311	A, AA	0.4995	0.918	596	11400	RMT 84.45 RM 68.38 NR 66.28 NR 48.28	7390 3695 3695 1850	12400 6200 6200 3100

(1) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® AAC Bare Overhead Conductor

All-Aluminum 1350 Conductor Concentric-Lay-Stranded

AAC, ALUMINUM 1350 CONDUCTORS – CONCENTRIC, LAY-STRANDED – (ELECTRICAL PROPERTIES)

CODE WORD	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES	CLASS	CROSS-SECTION SQ. INCHES	O.D. INCHES	RESISTANCE (2) OHMS/1000 FT			AMPACTITY 75°C (3)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000FT (4)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (4)
						DC @ 20°C	AC @ 25°C	AC @ 75°C				
Peachbell	6	7x0.0612	A	0.0206	0.184	0.659	0.672	0.805	105	0.0056	0.1194	0.7631
Rose	4	7x0.0772	A	0.0328	0.232	0.414	0.423	0.506	140	0.0070	0.1140	0.7268
Iris	2	7x0.0974	A, AA	0.0522	0.292	0.260	0.266	0.318	185	0.0088	0.1087	0.6905
Pansy	1	7x0.1093	A, AA	0.0657	0.328	0.207	0.211	0.252	215	0.0099	0.1060	0.6723
Poppy	1/0	7x0.1228	A, AA	0.0829	0.368	0.164	0.167	0.200	245	0.0111	0.1034	0.6541
Aster	2/0	7x0.1379	A, AA	0.1045	0.414	0.130	0.133	0.159	285	0.0125	0.1007	0.6360
Phlox	3/0	7x0.1548	A, AA	0.1317	0.464	0.103	0.105	0.126	330	0.0140	0.0980	0.6178
Oxlip	4/0	7x0.1739	A, AA	0.1663	0.522	0.0817	0.0835	0.0999	380	0.0158	0.0954	0.5997
Daisy	266.8	7x0.1953	AA	0.2095	0.586	0.0648	0.0663	0.0793	440	0.0177	0.0927	0.5815
Laurel	266.8	19x0.1185	A	0.2095	0.593	0.0648	0.0663	0.0793	445	0.0187	0.0914	0.5797
Tulip	336.4	19x0.1331	A	0.2644	0.666	0.0514	0.0526	0.0630	515	0.0210	0.0888	0.5616
Daffodil	350.0	19x0.1357	A	0.2748	0.679	0.0494	0.0506	0.0605	525	0.0214	0.0883	0.5585
Canna	397.5	19x0.1447	A, AA	0.3120	0.723	0.0435	0.0446	0.0534	570	0.0228	0.0869	0.5485
Cosmos	477.0	19x0.1584	AA	0.3744	0.792	0.0362	0.0373	0.0445	640	0.0250	0.0848	0.5342
Syringa	477.0	37x0.1135	A	0.3744	0.795	0.0362	0.0373	0.0445	640	0.0254	0.0844	0.5337
Zinnia	500.0	19x0.1622	AA	0.3926	0.811	0.0346	0.0356	0.0425	655	0.0256	0.0842	0.5305
Hyacinth	500.0	37x0.1162	A	0.3924	0.813	0.0346	0.0356	0.0425	660	0.0260	0.0838	0.5300
Dahlia	556.5	19x0.1711	AA	0.4369	0.856	0.0311	0.0320	0.0382	705	0.0270	0.0830	0.5221
Mistletoe	556.5	37x0.1226	A	0.4368	0.858	0.0311	0.0320	0.0382	705	0.0275	0.0826	0.5216
Meadowsweet	600.0	37x0.1273	A, AA	0.4709	0.891	0.0288	0.0298	0.0355	735	0.0285	0.0817	0.5157
Orchid	636.0	37x0.1311	A, AA	0.4995	0.918	0.0272	0.0281	0.0335	765	0.0294	0.0811	0.5112

(2) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

(3) Based on a conductor temperature of 75°C at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(4) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.



General Cable

TransPowr® AAC Bare Overhead Conductor

All-Aluminum 1350 Conductor Concentric-Lay-Stranded

AAC, ALUMINUM 1350 CONDUCTORS – CONCENTRIC, LAY-STRANDED – (MECHANICAL PROPERTIES)

CODE WORD	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES	CLASS	CROSS-SECTION SQ. INCHES	O.D. INCHES	NOMINAL MASS LB/1000 FT	RATED STRENGTH LBS	STANDARD PACKAGES (1)		
								REEL DESIGNATION	WEIGHT LBS	LENGTH FT
Violet	715.5	37x0.1391	AA	0.5623	0.974	671	12800	RMT 84.45 RM 68.38 NR 66.28 NR 48.28	7395 3695 3695 1850	11020 5510 5510 2755
Nasturtium	715.5	61x0.1083	A	0.5619	0.975	671	13100	RMT 90.45 RM 68.38	9745 4870	14530 7265
Petunia	750.0	37x0.1424	AA	0.5893	0.997	703	13100	RMT 84.45 RM 68.38 NR 48.28	7390 3695 1850	10510 5255 2630
Arbutus	795.0	37x0.1466	AA	0.6245	1.026	745	13900	RMT 84.45 RM 68.38 NR 66.28 NR 48.28	7395 3695 3695 1850	9920 4960 4960 2480
Lilac	795.0	61x0.1142	A	0.6248	1.028	745	14300	RMT 90.45 RM 68.38	9755 4875	13080 6540
Fuchsia	800.0	37x0.1470	AA	0.6287	1.029	750	14000	RMT 84.45 RM 68.38	7385 3695	9855 4930
Heliotrope	800.0	61x0.1145	A	0.6281	1.031	750	14400	RMT 90.45 RM 68.38	9745 4795	13000 6395
Anemone	874.5	37x0.1537	AA	0.6865	1.076	820	15000	RMT 84.45 RM 68.38 NR 66.28 NR 48.28	7380 3690 3690 1850	9010 4505 4505 2255
Crocus	874.5	61x0.1197	A	0.6864	1.078	820	15800	RMT 90.45 RM 68.38	9740 4870	11890 5945
Magnolia	954.0	37x0.1606	AA	0.7495	1.124	894	16400	RMT 84.45 RM 68.38 NR 66.28 NR 48.28	7390 3695 3695 1845	8260 4130 4130 2065
Goldenrod	954.0	61x0.1251	A	0.7498	1.126	894	16900	RMT 90.45 RM 68.38	9755 4875	10900 5450
Camellia	1000.0	61x0.1280	A	0.7849	1.152	937	17700	RMT 90.45 RM 68.38	9745 4870	10400 5200
Bluebell	1033.5	37x0.1671	AA	0.8114	1.170	969	17700	RMT 84.45 RM 68.38 NR 66.28 NR 48.28	7390 3695 3695 1850	7630 3815 3815 1910
Larkspur	1033.5	61x0.1302	A	0.8122	1.172	969	18300	RMT 90.45 RM 68.38	9750 4875	10060 5030
Marigold	1113.0	61x0.1351	A, AA	0.8744	1.216	1043	19700	RMT 90.45 RM 68.38	9750 4875	9340 4670
Hawthorn	1192.5	61x0.1398	A, AA	0.9363	1.258	1118	21100	RMT 90.45 RM 68.38	10435 4870	9340 4360
Narcissus	1272.0	61x0.1444	A, AA	0.9990	1.300	1192	22000	RMT 90.45 RM 68.38	9740 4870	8170 4085
Columbine	1351.5	61x0.1488	A, AA	1.0608	1.339	1267	23400	RMT 90.45 RM 68.38	9735 4870	7690 3845
Carnation	1431.0	61x0.1532	A, AA	1.1244	1.379	1341	24300	RMT 90.45 RM 68.38	9755 4880	7270 3635
Gladiolus	1510.5	61x0.1574	A, AA	1.1869	1.417	1416	25600	RMT 90.45 RM 68.38	9740 4870	6880 3440
Coreopsis	1590.0	61x0.1614	AA	1.2480	1.453	1490	27000	RMT 90.45 RM 68.38	9740 4870	6540 3270
Jessamine	1750.0	61x0.1694	AA	1.3748	1.525	1640	29700	RMT 90.45	9750	5940
Cowslip	2000.0	91x0.1482	A	1.5697	1.630	1875	34300	RMT 90.45	9085	4850
Sagebrush	2250.0	91x0.1572	A	1.7662	1.729	2130	37700	RMT 90.45	9085	4270
Pigweed	2300.0	61x0.1942	A	1.8069	1.748	2177	39000	RMT 90.45	9080	4170
Lupine	2500.0	91x0.1657	A	1.9623	1.823	2366	42000	RMT 90.45	9080	3840
Bitterroot	2750.0	91x0.1738	A	2.1589	1.912	2603	46100	RMT 90.45	9080	3490
Trillium	3000.0	127x0.1537	A	2.3564	1.998	2839	50300	RMT 90.45	9515	3350
Bluebonnet	3500.0	127x0.1660	A	2.7486	2.158	3345	58700	RMT 90.45	9495	2840

(1) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® AAC Bare Overhead Conductor

All-Aluminum 1350 Conductor Concentric-Lay-Stranded

AAC, ALUMINUM 1350 CONDUCTORS – CONCENTRIC, LAY-STRANDED – (ELECTRICAL PROPERTIES)

CODE WORD	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES	CLASS	CROSS-SECTION SQ. INCHES	O.D. INCHES	RESISTANCE (2) OHMS/1000 FT			AMPACITY 75°C (3)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (4)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (4)
						DC @ 20°C	AC @ 25°C	AC @ 75°C				
Violet	715.5	37x0.1391	AA	0.5623	0.974	0.0242	0.0251	0.0299	820	0.0311	0.0797	0.5020
Nasturtium	715.5	61x0.1083	A	0.5619	0.975	0.0242	0.0251	0.0299	825	0.0314	0.0796	0.5017
Petunia	750.0	37x0.1424	AA	0.5893	0.997	0.0230	0.0240	0.0286	845	0.0319	0.0792	0.4983
Arbutus	795.0	37x0.1466	AA	0.6245	1.026	0.0217	0.0227	0.0270	875	0.0328	0.0785	0.4937
Lilac	795.0	61x0.1142	A	0.6248	1.028	0.0217	0.0227	0.0270	880	0.0331	0.0784	0.4935
Fuchsia	800.0	37x0.1470	AA	0.6287	1.029	0.0216	0.0225	0.0268	900	0.0329	0.0784	0.4932
Heliotrope	800.0	61x0.1145	A	0.6281	1.031	0.0216	0.0225	0.0268	900	0.0332	0.0783	0.4930
Anemone	874.5	37x0.1537	AA	0.6865	1.076	0.0198	0.0207	0.0246	930	0.0344	0.0774	0.4862
Crocus	874.5	61x0.1197	A	0.6864	1.078	0.0198	0.0207	0.0246	930	0.0347	0.0773	0.4860
Magnolia	954.0	37x0.1606	AA	0.7495	1.124	0.0181	0.0191	0.0226	980	0.0360	0.0764	0.4794
Goldenrod	954.0	61x0.1251	A	0.7498	1.126	0.0181	0.0191	0.0226	980	0.0362	0.0763	0.4792
Camellia	1000.0	61x0.1280	A	0.7849	1.152	0.0173	0.0182	0.0216	1010	0.0371	0.0757	0.4755
Bluebell	1033.5	37x0.1671	AA	0.8114	1.170	0.0167	0.0177	0.0210	1030	0.0374	0.0755	0.4732
Larkspur	1033.5	61x0.1302	A	0.8122	1.172	0.0167	0.0177	0.0210	1030	0.0377	0.0753	0.4730
Marigold	1113.0	61x0.1351	A, AA	0.8744	1.216	0.0155	0.0165	0.0195	1080	0.0391	0.0745	0.4671
Hawthorn	1192.5	61x0.1398	A, AA	0.9363	1.258	0.0145	0.0155	0.0183	1125	0.0405	0.0737	0.4617
Narcissus	1272.0	61x0.1444	A, AA	0.9990	1.300	0.0136	0.0146	0.0173	1170	0.0418	0.0730	0.4567
Columbine	1351.5	61x0.1488	A, AA	1.0608	1.339	0.0128	0.0139	0.0163	1210	0.0431	0.0723	0.4519
Carnation	1431.0	61x0.1532	A, AA	1.1244	1.379	0.0121	0.0132	0.0155	1250	0.0444	0.0716	0.4475
Gladiolus	1510.5	61x0.1574	A, AA	1.1869	1.417	0.0114	0.0126	0.0147	1295	0.0456	0.0710	0.4432
Coreopsis	1590.0	61x0.1614	AA	1.2480	1.453	0.0109	0.0120	0.0141	1330	0.0468	0.0704	0.4392
Jessamine	1750.0	61x0.1694	AA	1.3748	1.525	0.00988	0.0111	0.0129	1405	0.0490	0.0693	0.4317
Cowslip	2000.0	91x0.1482	A	1.5697	1.630	0.00864	0.00994	0.0115	1515	0.0526	0.0677	0.4211
Sagebrush	2250.0	91x0.1572	A	1.7662	1.729	0.00776	0.00914	0.0105	1610	0.0558	0.0663	0.4119
Pigweed	2300.0	61x0.1942	A	1.8069	1.748	0.00759	0.00898	0.0104	1435	0.0562	0.0661	0.4103
Lupine	2500.0	91x0.1657	A	1.9623	1.823	0.00698	0.00844	0.00969	1705	0.0588	0.0651	0.4037
Bitterroot	2750.0	91x0.1738	A	2.1589	1.912	0.00635	0.00789	0.00900	1790	0.0617	0.0640	0.3962
Trillium	3000.0	127x0.1537	A	2.3564	1.998	0.00582	0.00743	0.00843	1875	0.0545	0.0668	0.3893
Bluebonnet	3500.0	127x0.1660	A	2.7486	2.158	0.00504	0.00676	0.00761	2015	0.0589	0.0651	0.3773

(2) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

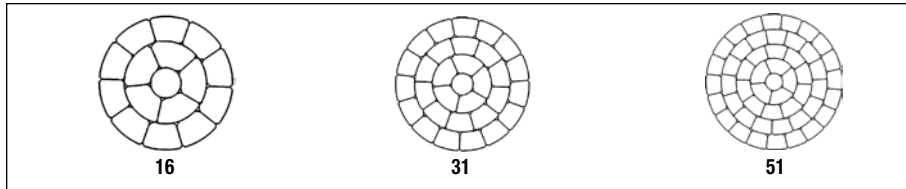
(3) Based on a conductor temperature of 75°C at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(4) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.

Notes

TransPowr® AAC/TW Bare Overhead Conductor

Trapezoidal All-Aluminum 1350 Concentric-Lay-Stranded



Product Construction:

Complete Conductor:

TransPowr® AAC/TW is a trapezoidal 1350 H19 aluminum (AAC) concentric-lay-stranded conductor. The aluminum strands are trapezoidal in shape. The wedge-shaped aluminum strands enable a more compact alignment of the aluminum wires.

Conductor designs that maintain the same circular mil cross-sectional area of aluminum as a conventional round conductor result in a TW conductor that is 10 to 15 percent smaller in overall diameter.

Conductor designs that maintain the same overall diameter as a conventional round conductor result in a TW conductor that has 20 to 25 percent more aluminum cross-sectional area packed in.

The AAC/TW conductors are manufactured in accordance with the requirements of the latest issue of ASTM B778.

The conductor consists of two, three, four or five layers of aluminum 1350-H19 wires. The sizes and constructions listed on this and the following pages are examples used in overhead lines.

Features and Benefits:

TransPowr® AAC/TW has a continuous operating temperature rating of 75°C. Operation of the conductor at elevated temperatures may increase the conductor sag properties and lower the rated tensile strength of the conductor.

AAC/TW conductors constructed of equivalent aluminum circular mil cross-sectional area provide a conductor that is smaller in overall diameter than the equivalent conventional round wire AAC conductor. The reduced conductor diameter is advantageous in reducing the effects of ice and wind loading on the conductor.

AAC/TW conductors constructed to equivalent overall diameter enable a greater circular mil cross-sectional area of aluminum within the conductor, allowing a significant increase in conductor current-carrying capacity.

Applications:

Trapezoidal 1350 H19 aluminum conductors (AAC/TW) are used for overhead transmission lines where design parameters do not require the higher strength or temperature ratings provided by ACSR, ACSS or other type conductors.

Electrical Parameters:

The electrical parameters for the trapezoidal AAC equivalent circular mil area and equivalent overall diameter conductors may be found in the last table of this section.

Options:

- High-conductivity aluminum (/HC) (62.0% IACS)
- Non-specular surface finish (/NS)

For other conductor sizes, designs and/or specific installation requirements not shown in the tables, contact your General Cable sales representative or e-mail info@generalcable.com.

TransPowr® AAC/TW Bare Overhead Conductor

Trapezoidal All-Aluminum 1350 Concentric-Lay-Stranded

AAC/TW CONDUCTORS (MECHANICAL PROPERTIES) – EQUIVALENT DIAMETER – CONDUCTORS SIZED TO HAVE EQUIVALENT CIRCULAR MIL AREA TO REGULAR AAC

CODE WORD	SIZE AWG OR kcmil	NO. OF AL. WIRES	EQUIVALENT STRAND WIRE DIA. INCHES	FILL FACTOR	CROSS-SECTION SQ. INCHES	O.D. INCHES	NOMINAL MASS LB/1000 FT	RATED STRENGTH LBS	STANDARD PACKAGES (1)		
									REEL DESIGNATION	WEIGHT LBS	LENGTH FT
Tulip/AAC/TW	336.4	16	0.1453	89.8	0.2654	0.61	315	6050	RMT 84.36 NR 60.28	4700 2360	14900 7500
Canna/AAC/TW	397.5	16	0.1579	91.0	0.3135	0.66	373	7000	RMT 84.36 NR 60.28	4690 2350	12600 6300
Cosmos/AAC/TW	477.0	16	0.1730	91.1	0.3760	0.72	447	8390	RMT 84.36 NR 60.28	4690 2370	10500 5300
Zinnia/AAC/TW	500.0	16	0.1771	92.3	0.3940	0.74	469	8790	RMT 84.36 NR 60.28	4690 2340	10000 5000
Mistletoe/AAC/TW	556.5	16	0.1868	92.6	0.4387	0.78	522	9790	RMT 84.36 NR 60.28	4690 2350	9000 4500
Meadowsweet/AAC/TW	600.0	16	0.1940	93.0	0.4729	0.80	562	10500	RMT 84.36 NR 60.28	4720 2360	8400 4200
Orchid/AAC/TW	636.0	16	0.1996	93.4	0.5007	0.83	596	11200	RMT 84.36 RM 68.38	4710 2320	7900 3900
Verbena/AAC/TW	700.0	16	0.2095	93.8	0.5514	0.86	656	12300	RMT 84.36 NR 60.28	4720 2360	7200 3600
Nasturtium/AAC/TW	750.0	16	0.2168	94.0	0.5908	0.89	703	12900	RMT 84.36 NR 60.28	4710 2390	6700 3400
Arbutus/AAC/TW	795.0	16	0.2231	94.1	0.6257	0.92	745	13600	RMT 84.36 NR 60.28	4690 2380	6300 3200
Cockscomb/AAC/TW	900.0	16	0.2376	91.8	0.7092	0.99	844	15400	RMT 84.36 NR 60.28	4720 2360	5600 2800
Magnolia/AAC/TW	954.0	31	0.1756	92.0	0.7509	1.02	894	16400	RMT 96.60 RMT 84.36	9120 4560	10200 5100
Hawkweed/AAC/TW	1000.0	31	0.1798	92.3	0.7868	1.04	937	17200	RMT 96.60 RMT 84.36	9090 4590	9700 4900
Bluebell/AAC/TW	1033.5	31	0.1827	92.5	0.8130	1.06	969	17700	RMT 96.60 RMT 84.36	9110 4550	9400 4700
Marigold/AAC/TW	1113.0	31	0.1897	92.8	0.8759	1.10	1043	19100	RMT 96.60 RMT 84.36	9080 4590	8700 4400
Hawthorn/AAC/TW	1192.5	31	0.1963	93.1	0.9382	1.13	1118	20500	RMT 96.60 RMT 84.36	9170 4580	8200 4100
Narcissus/AAC/TW	1272.0	31	0.2027	93.2	1.0006	1.17	1192	21800	RMT 96.60 RMT 84.36	9060 4530	7600 3800
Columbine/AAC/TW	1351.5	31	0.2090	93.6	1.0634	1.20	1267	23200	RMT 96.60 RMT 84.36	9120 4560	7200 3600
Carnation/AAC/TW	1431.0	31	0.2151	93.7	1.1260	1.24	1341	24000	RMT 96.60 RMT 84.36	9120 4560	6800 3400
Coreopsis/AAC/TW	1590.0	51	0.1767	91.9	1.2508	1.32	1490	27000	RMT 96.60 RMT 90.45	9980 7450	6700 5000
Jessamine/AAC/TW	1750.0	51	0.1853	92.3	1.3760	1.38	1640	29700	RMT 96.60 RMT 90.45	10010 7550	6100 4600
Cowslip/AAC/TW	2000.0	51	0.1981	92.8	1.5720	1.47	1875	33900	RMT 96.60 RMT 90.45	10030 7570	5300 4000
Lupine/AAC/TW	2500.0	71	0.1877	92.1	1.9655	1.65	2366	41900	RMT 108.74 RMT 96.60	19400 10410	8200 4400
Trillium/AAC/TW	3000.0	71	0.2056	92.7	2.3565	1.80	2839	50300	RMT 108.74 RMT 96.60	20070 10320	7000 3600

(1) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® AAC/TW Bare Overhead Conductor

Trapezoidal All-Aluminum 1350 Concentric-Lay-Stranded

AAC/TW CONDUCTORS (ELECTRICAL PROPERTIES) – EQUIVALENT DIAMETER – CONDUCTORS SIZED TO HAVE EQUIVALENT CIRCULAR MIL AREA TO REGULAR AAC

CODE WORD	SIZE kcmil	NO. OF AL. WIRES	EQUIVALENT STRAND WIRE DIA. INCHES	FILL FACTOR	CROSS-SECTION SQ. INCHES	O.D. INCHES	RESISTANCE (2) OHMS/1000 FT			AMPACITY 75°C (3)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (4)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (4)
							DC @ 20°C	AC @ 25°C	AC @ 75°C				
Tulip/AAC/TW	336.4	16	0.1453	89.8	0.2654	0.61	0.0514	0.0526	0.0630	500	0.0193	0.0907	0.5751
Canna/AAC/TW	397.5	16	0.1579	91.0	0.3135	0.66	0.0435	0.0446	0.0534	555	0.0209	0.0889	0.5630
Cosmos/AAC/TW	477.0	16	0.1730	91.1	0.3760	0.72	0.0362	0.0373	0.0445	625	0.0228	0.0869	0.5488
Zinnia/AAC/TW	500.0	16	0.1771	92.3	0.3940	0.74	0.0346	0.0356	0.0425	640	0.0232	0.0865	0.5461
Mistletoe/AAC/TW	556.5	16	0.1868	92.6	0.4387	0.78	0.0311	0.0320	0.0382	685	0.0245	0.0852	0.5380
Meadowsweet/AAC/TW	600.0	16	0.1940	93.0	0.4729	0.80	0.0288	0.0298	0.0355	715	0.0254	0.0844	0.5324
Orchid/AAC/TW	636.0	16	0.1996	93.4	0.5007	0.83	0.0272	0.0281	0.0335	745	0.0261	0.0838	0.5282
Verbena/AAC/TW	700.0	16	0.2095	93.8	0.5514	0.86	0.0247	0.0256	0.0305	790	0.0273	0.0827	0.5210
Nasturtium/AAC/TW	750.0	16	0.2168	94.0	0.5908	0.89	0.0230	0.0240	0.0286	820	0.0282	0.0820	0.5157
Arbutus/AAC/TW	795.0	16	0.2231	94.1	0.6257	0.92	0.0217	0.0227	0.0270	850	0.0291	0.0813	0.5112
Cockscomb/AAC/TW	900.0	16	0.2376	91.8	0.7092	0.99	0.0192	0.0201	0.0239	925	0.0313	0.0796	0.4997
Magnolia/AAC/TW	954.0	31	0.1756	92.0	0.7509	1.02	0.0181	0.0191	0.0226	955	0.0326	0.0787	0.4951
Hawkweed/AAC/TW	1000.0	31	0.1798	92.3	0.7868	1.04	0.0173	0.0182	0.0216	985	0.0333	0.0782	0.4917
Bluebell/AAC/TW	1033.5	31	0.1827	92.5	0.8130	1.06	0.0167	0.0177	0.0210	1005	0.0338	0.0778	0.4892
Marigold/AAC/TW	1113.0	31	0.1897	92.8	0.8759	1.10	0.0155	0.0165	0.0195	1050	0.0350	0.0770	0.4837
Hawthorn/AAC/TW	1192.5	31	0.1963	93.1	0.9382	1.13	0.0145	0.0155	0.0183	1095	0.0362	0.0763	0.4785
Narcissus/AAC/TW	1272.0	31	0.2027	93.2	1.0006	1.17	0.0136	0.0146	0.0173	1135	0.0374	0.0755	0.4736
Columbine/AAC/TW	1351.5	31	0.2090	93.6	1.0634	1.20	0.0128	0.0139	0.0163	1175	0.0384	0.0749	0.4691
Carnation/AAC/TW	1431.0	31	0.2151	93.7	1.1260	1.24	0.0121	0.0132	0.0155	1215	0.0395	0.0742	0.4647
Coreopsis/AAC/TW	1590.0	51	0.1767	91.9	1.2508	1.32	0.0109	0.0120	0.0141	1295	0.0423	0.0727	0.4549
Jessamine/AAC/TW	1750.0	51	0.1853	92.3	1.3760	1.38	0.00988	0.0111	0.0129	1370	0.0443	0.0716	0.4478
Cowslip/AAC/TW	2000.0	51	0.1981	92.8	1.5720	1.47	0.00864	0.00994	0.0115	1475	0.0472	0.0702	0.4377
Lupine/AAC/TW	2500.0	71	0.1877	92.1	1.9655	1.65	0.00698	0.00844	0.00969	1660	0.0531	0.0675	0.4196
Trillium/AAC/TW	3000.0	71	0.2056	92.7	2.3565	1.80	0.00582	0.00743	0.00843	1820	0.0580	0.0654	0.4059

(2) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

(3) Based on a conductor temperature of 75°C at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(4) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.

TransPowr® AAC/TW Bare Overhead Conductor

Trapezoidal All-Aluminum 1350 Concentric-Lay-Stranded

AAC/TW CONDUCTORS (MECHANICAL PROPERTIES) – EQUIVALENT DIAMETER – CONDUCTORS SIZED TO HAVE EQUIVALENT CIRCULAR MIL AREA TO REGULAR AAC

CODE WORD	SIZE AWG OR kcmil	NO. OF AL. WIRES	EQUIVALENT STRAND WIRE DIA. INCHES	FILL FACTOR	CROSS-SECTION SQ. INCHES	O.D. INCHES	NOMINAL MASS LB/1000 FT	RATED STRENGTH LBS	STANDARD PACKAGES (1)		
									REEL DESIGNATION	WEIGHT LBS	LENGTH FT
Logan/AAC/TW	322.5	16	0.1423	89.5	0.2546	0.60	302	5800	RMT 84.36 NR 60.28	4720 2360	15600 7800
- none -	384.5	16	0.1553	91.0	0.3032	0.65	360	6700	RMT 84.36 NR 60.28	4720 2340	13100 6500
Wheeler/AAC/TW	449.4	16	0.1679	91.7	0.3542	0.70	421	7900	RMT 84.36 NR 60.28	4720 2360	11200 5600
- none -	521.7	16	0.1808	92.7	0.4108	0.75	489	9100	RMT 84.36 NR 60.28	4690 2350	9600 4800
Robson/AAC/TW	595.8	16	0.1933	93.0	0.4693	0.80	558	10400	RMT 84.36 NR 60.28	4690 2350	8400 4200
- none -	678.2	16	0.2062	93.8	0.5343	0.85	636	11900	RMT 84.36 NR 60.28	4700 2350	7400 3700
McKinley/AAC/TW	761.5	16	0.2184	94.0	0.5995	0.90	714	13100	RMT 84.36 RM 68.38	4710 2360	6600 3300
- none -	854.2	16	0.2314	94.6	0.6726	0.95	801	14700	RMT 84.36 NR 60.28	4720 2320	5900 2900
Rainier/AAC/TW	918.8	31	0.1723	91.8	0.7227	1.00	861	15800	RMT 96.60 RMT 84.36	9130 4560	10600 5300
- none -	1020.0	31	0.1815	92.5	0.8023	1.05	956	17500	RMT 96.60 RMT 84.36	9080 4590	9500 4800
Helens/AAC/TW	1123.1	31	0.1905	92.8	0.8839	1.10	1053	19300	RMT 96.60 RMT 84.36	9160 4530	8700 4300
- none -	1234.2	31	0.1997	93.3	0.9707	1.15	1157	21200	RMT 96.60 RMT 84.36	9140 4510	7900 3900
Mazama/AAC/TW	1346.8	31	0.2085	93.5	1.0588	1.20	1262	23100	RMT 96.60 RMT 84.36	9090 4540	7200 3600
- none -	1467.9	31	0.2177	93.9	1.1542	1.25	1376	24700	RMT 96.60 RMT 84.36	9080 4540	6600 3300
Hood/AAC/TW	1583.2	31	0.2262	93.6	1.2457	1.30	1484	26600	RMT 96.60 RMT 84.36	9050 4600	6100 3100
- none -	1682.7	51	0.1817	92.3	1.3225	1.35	1577	28500	RMT 96.60 RMT 90.45	9940 7570	6300 4800
Whitney/AAC/TW	1812.7	51	0.1886	92.5	1.4243	1.40	1699	30800	RMT 96.60 RMT 90.45	10020 7480	5900 4400
- none -	1954.3	51	0.1959	92.9	1.5370	1.45	1832	33200	RMT 96.60 RMT 90.45	10070 7510	5500 4100
Powell/AAC/TW	2093.6	51	0.2027	93.0	1.6456	1.50	1982	35500	RMT 96.60 RMT 90.45	9910 7530	5000 3800
- none -	2245.4	51	0.2099	93.5	1.7653	1.55	2125	38100	RMT 96.60 RMT 90.45	9990 7440	4700 3500
Jefferson/AAC/TW	2388.1	51	0.2165	93.2	1.8782	1.60	2260	39700	RMT 96.60 RMT 90.45	9950 7460	4400 3300
- none -	2514.8	71	0.1883	92.4	1.9771	1.65	2380	42200	RMT 108.74 RMT 96.60	19520 10470	8200 4400
Shasta/AAC/TW	2667.2	71	0.1939	92.2	2.0957	1.70	2524	44700	RMT 108.74 RMT 96.60	19690 10350	7800 4100
- none -	2844.5	71	0.2003	92.9	2.2362	1.75	2692	47700	RMT 108.74 RMT 96.60	18850 10500	7000 3900
Adams/AAC/TW	3006.2	71	0.2058	92.7	2.3623	1.80	2873	50400	RMT 108.74 RMT 96.60	20110 10340	7000 3600

(1) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® AAC/TW Bare Overhead Conductor

Trapezoidal All-Aluminum 1350 Concentric-Lay-Stranded

AAC/TW CONDUCTORS (ELECTRICAL PROPERTIES) – EQUIVALENT DIAMETER – CONDUCTORS SIZED TO HAVE EQUIVALENT CIRCULAR MIL AREA TO REGULAR AAC

CODE WORD	SIZE AWG OR kcmil	NO. OF AL. WIRES	EQUIVALENT STRAND WIRE DIA. INCHES	FILL FACTOR	CROSS-SECTION SQ. INCHES	O.D. INCHES	RESISTANCE (2) OHMS/1000 FT			AMPACITY 75°C (3)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (4)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (4)
							DC @ 20°C	AC @ 25°C	AC @ 75°C				
Logan/AAC/TW	322.5	16	0.1423	89.5	0.2546	0.60	0.0536	0.0549	0.0657	490	0.0189	0.0912	0.5782
- none -	384.5	16	0.1553	91.0	0.3032	0.65	0.0450	0.0461	0.0551	545	0.0205	0.0893	0.5656
Wheeler/AAC/TW	449.4	16	0.1679	91.7	0.3542	0.70	0.0385	0.0395	0.0472	600	0.0221	0.0876	0.5540
- none -	521.7	16	0.1808	92.7	0.4108	0.75	0.0331	0.0341	0.0408	660	0.0237	0.0860	0.5431
Robson/AAC/TW	595.8	16	0.1933	93.0	0.4693	0.80	0.0290	0.0300	0.0358	715	0.0253	0.0845	0.5330
- none -	678.2	16	0.2062	93.8	0.5343	0.85	0.0255	0.0264	0.0315	775	0.0269	0.0831	0.5234
McKinley/AAC/TW	761.5	16	0.2184	94.0	0.5995	0.90	0.0227	0.0236	0.0281	830	0.0285	0.0818	0.5145
- none -	854.2	16	0.2314	94.6	0.6726	0.95	0.0202	0.0212	0.0252	890	0.0300	0.0805	0.5060
Rainier/AAC/TW	918.8	31	0.1723	91.8	0.7227	1.00	0.0188	0.0198	0.0235	935	0.0320	0.0791	0.4979
- none -	1020.0	31	0.1815	92.5	0.8023	1.05	0.0169	0.0179	0.0212	995	0.0336	0.0780	0.4903
Helens/AAC/TW	1123.1	31	0.1905	92.8	0.8839	1.10	0.0154	0.0164	0.0194	1055	0.0352	0.0769	0.4830
- none -	1234.2	31	0.1997	93.3	0.9707	1.15	0.0140	0.0150	0.0177	1115	0.0368	0.0759	0.4760
Mazama/AAC/TW	1346.8	31	0.2085	93.5	1.0588	1.20	0.0128	0.0139	0.0164	1175	0.0384	0.0749	0.4693
- none -	1467.9	31	0.2177	93.9	1.1542	1.25	0.0118	0.0129	0.0151	1235	0.0400	0.0740	0.4629
Hood/AAC/TW	1583.2	31	0.2262	93.6	1.2457	1.30	0.0109	0.0121	0.0141	1290	0.0416	0.0731	0.4567
- none -	1682.7	51	0.1817	92.3	1.3225	1.35	0.0103	0.0115	0.0134	1340	0.0434	0.0721	0.4508
Whitney/AAC/TW	1812.7	51	0.1886	92.5	1.4243	1.40	0.00954	0.0108	0.0125	1395	0.0450	0.0712	0.4452
- none -	1954.3	51	0.1959	92.9	1.5370	1.45	0.00884	0.0101	0.0118	1455	0.0467	0.0704	0.4396
Powell/AAC/TW	2093.6	51	0.2027	93.0	1.6456	1.50	0.00834	0.00966	0.0112	1505	0.0483	0.0697	0.4343
- none -	2245.4	51	0.2099	93.5	1.7653	1.55	0.00777	0.00915	0.0106	1565	0.0498	0.0689	0.4292
Jefferson/AAC/TW	2388.1	51	0.2165	93.2	1.8782	1.60	0.00731	0.00873	0.0100	1615	0.0515	0.0682	0.4242
- none -	2514.8	71	0.1883	92.4	1.9771	1.65	0.00694	0.00841	0.00964	1665	0.0532	0.0674	0.4194
Shasta/AAC/TW	2667.2	71	0.1939	92.2	2.0957	1.70	0.00654	0.00806	0.00921	1715	0.0548	0.0667	0.4146
- none -	2844.5	71	0.2003	92.9	2.2362	1.75	0.00614	0.00770	0.00877	1770	0.0564	0.0661	0.4102
Adams/AAC/TW	3006.2	71	0.2058	92.7	2.3623	1.80	0.00586	0.00746	0.00848	1815	0.0581	0.0654	0.4057

(2) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

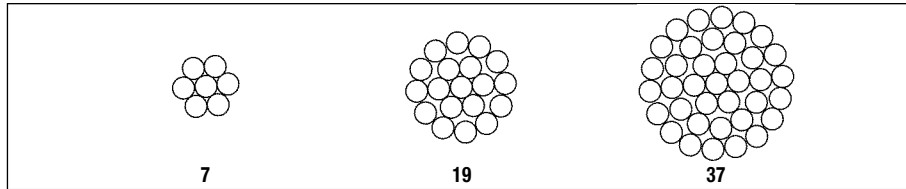
(3) Based on a conductor temperature of 75°C at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(4) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.

Notes

TransPowr® AAAC Bare Overhead Conductor

Aluminum Alloy Conductor Concentric-Lay-Stranded



Product Construction:

Complete Conductor:

AAAC is a high-strength aluminum alloy, concentric-lay-stranded conductor. It is similar in construction and appearance to the AAC all-aluminum conductor.

The AAAC conductor is manufactured in accordance with the requirements of the latest issue of ASTM B399. The AAAC conductor is manufactured from a heat-treated, magnesium-silicide high-strength 6201 T81 aluminum alloy.

The aluminum strands consist of a concentric-stranded cable of 7, 19, 37 or more wires. The sizes and strandings listed are common examples used in overhead lines. Metric (mm) sizes are also available.

Features and Benefits:

Aluminum alloy conductors have a number of advantages over the use of the ACSR or all-aluminum conductors.

- Lower power losses than for equivalent single-aluminum-layer ACSR conductors. (The inductive effect of the steel core in the ACSR is eliminated).
- Simpler fittings than those required for ACSR.
- Excellent corrosion resistance in environments conducive to galvanic corrosion in ACSR.
- Strength and sag approximately the same as for equivalent 6/1 and 26/7 ACSR conductors.
- Outside diameters are the same as for standard ACSR conductors, permitting interchangeability of fittings.
- Greater resistance to abrasion than that for 1350 wires in all-aluminum or ACSR conductors.

Applications:

AAAC aluminum alloy conductors are extensively used for overhead distribution and transmission lines adjacent to ocean coastlines where there can be a problem of corrosion in the steel of an ACSR construction.

The aluminum alloy conductors are used in place of single-layer ACSR conductors (i.e., #6 to #4/0 AWG) to reduce power losses in overhead distribution and transmission lines. The inductive effect of the ACSR's steel core is eliminated, hence increasing the operating efficiency of the line.

Options:

- Non-specular surface finish (/NS)

For other conductor sizes, designs and/or specific installation requirements not shown in the tables, contact your General Cable sales representative or e-mail info@generalcable.com.

TransPowr® AAAC Bare Overhead Conductor

Aluminum Alloy Conductor Concentric-Lay-Stranded

AAAC (MECHANICAL PROPERTIES) - CONDUCTOR SIZED TO HAVE DIAMETER EQUAL TO ACSR (1)

CODE WORD	SIZE AWG OR kcmil	EQUIVALENT ACSR SIZE (2)	EQUIVALENT AAC SIZE (3)	STRANDING NO. X DIA. INCHES	CLASS	CROSS-SECTION SQ. INCHES	O.D. INCHES	NOMINAL MASS LB/1000 FT	RATED STRENGTH LBS	STANDARD PACKAGES (4)		
										REEL DESIGNATION	WEIGHT LBS	LENGTH FT
Akron	30.58	6 (Turkey)	6	7x0.0661	A	0.0240	0.198	28.5	1110	NR 42.28 NR 36.22	1390 695	48780 24390
Alton	48.69	4 (Swan)	4	7x0.0834	A	0.0382	0.250	45.4	1760	NR 42.28 NR 36.22	1390 695	30630 15315
Ames	77.47	2 (Sparrow)	2	7x0.1052	A, AA	0.0608	0.316	72.2	2800	NR 42.28 NR 36.22	1390 695	19260 9630
Azusa	123.3	1/0 (Raven)	1/0	7x0.1327	A, AA	0.0968	0.398	115.0	4280	NR 42.28 NR 36.22	1390 695	12100 6050
Anaheim	155.4	2/0 (Quail)	2/0	7x0.1490	A, AA	0.1221	0.447	144.9	5390	NR 42.28 NR 36.22	1390 695	9600 4800
Amherst	195.7	3/0 (Pigeon)	3/0	7x0.1672	A, AA	0.1537	0.502	182.5	6790	NR 42.28 NR 36.22	1390 695	7620 3810
Alliance	246.9	4/0 (Penguin)	4/0	7x0.1878	AA	0.1939	0.563	230.2	8560	NR 42.28 NR 36.22	1390 695	6040 3020
Butte	312.8	266.8 (Partridge)	266.8	19x0.1283	A	0.2456	0.642	291.7	10500	RM 68.38 NR 48.28	3775 1890	12940 6470
Canton	394.5	336.4 (Linnet)	336.4	19x0.1441	A, AA	0.3099	0.721	367.9	13300	RM 68.38 NR 48.28	3775 1890	10260 5130
Cairo	465.4	397.5 (Ibis)	397.5	19x0.1565	AA	0.3655	0.783	434.0	15600	RM 68.38 NR 48.28	3775 1890	8700 4350
Darien	559.5	477.0 (Hawk)	477.0	19x0.1716	AA	0.4940	0.858	521.7	18800	RM 68.38 NR 48.28	3775 1890	7240 3620
Elgin	652.4	556.5 (Dove)	556.5	19x0.1853	AA	0.5124	0.927	608.4	21900	RM 68.38 NR 48.28	3775 1890	6210 3105
Flint	740.8	636.0 (Grosbeak)	636.0	37x0.1415	AA	0.5818	0.991	690.8	24400	RMT 96.60 NR 68.38	11025 3675	15960 5320
Greeley	927.2	795.0 (Drake)	795.0	37x0.1583	AA	0.7282	1.108	864.6	30500	RMT 96.60 NR 68.38	11025 3675	12750 4250

(1) General Cable utilizes an aluminum alloy that meets both the requirements of 6101 T81 and 6201 T81 designation.

(2) Equivalent ACSR Size refers to an ACSR conductor size of equal diameter.

(3) Equivalent AAC Size refers to an ASTM AAC 1350 conductor of approximate equivalent electrical resistance.

(4) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® AAAC Bare Overhead Conductor

Aluminum Alloy Conductor Concentric-Lay-Stranded

AAAC (ELECTRICAL PROPERTIES) - CONDUCTOR SIZED TO HAVE DIAMETER EQUAL TO ACSR (1)

CODE WORD	SIZE AWG OR kcmil	EQUIVALENT ACSR SIZE (2)	EQUIVALENT AAC SIZE (3)	STRANDING NO. X DIA. INCHES	CLASS	CROSS-SECTION SQ. INCHES	O.D. INCHES	RESISTANCE (4) OHMS/1000 FT			AMPACITY 75°C (5)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
								DC @ 20°C	AC @ 25°C	AC @ 75°C				
Akron	30.58	6 (Turkey)	6	7x0.0661	A	0.0240	0.198	0.6589	0.6704	0.7847	105	0.0060	0.1176	0.7512
Alton	48.69	4 (Swan)	4	7x0.0834	A	0.0382	0.250	0.4138	0.4210	0.4928	145	0.0076	0.1123	0.7147
Ames	77.47	2 (Sparrow)	2	7x0.1052	A, AA	0.0608	0.316	0.2601	0.2646	0.3098	190	0.0095	0.1069	0.6784
Azusa	123.3	1/0 (Raven)	1/0	7x0.1327	A, AA	0.0968	0.398	0.1634	0.1663	0.1947	255	0.0120	0.1016	0.6420
Anaheim	155.4	2/0 (Quail)	2/0	7x0.1490	A, AA	0.1221	0.447	0.1297	0.1320	0.1545	295	0.0135	0.0989	0.6238
Amherst	195.7	3/0 (Pigeon)	3/0	7x0.1672	A, AA	0.1537	0.502	0.1030	0.1049	0.1227	340	0.0152	0.0963	0.6058
Alliance	246.9	4/0 (Penguin)	4/0	7x0.1878	AA	0.1939	0.563	0.0816	0.0832	0.0973	395	0.0170	0.0936	0.5876
Butte	312.8	266.8 (Partridge)	266.8	19x0.1283	A	0.2456	0.642	0.0644	0.0657	0.0769	460	0.0203	0.0896	0.5673
Canton	394.5	336.4 (Linnet)	336.4	19x0.1441	A, AA	0.3099	0.721	0.0511	0.0522	0.0610	530	0.0227	0.0869	0.5491
Cairo	465.4	397.5 (Ibis)	397.5	19x0.1565	AA	0.3655	0.783	0.0433	0.0443	0.0518	590	0.0247	0.0851	0.5361
Darien	559.5	477.0 (Hawk)	477.0	19x0.1716	AA	0.4940	0.858	0.0360	0.0369	0.0431	660	0.0271	0.0829	0.5217
Elgin	652.4	556.5 (Dove)	556.5	19x0.1853	AA	0.5124	0.927	0.0309	0.0318	0.0371	730	0.0292	0.0812	0.5097
Flint	740.8	636.0 (Grosbeak)	636.0	37x0.1415	AA	0.5818	0.991	0.0272	0.0281	0.0327	790	0.0317	0.0793	0.4992
Greeley	927.2	795.0 (Drake)	795.0	37x0.1583	AA	0.7282	1.108	0.0217	0.0226	0.0263	905	0.0354	0.0768	0.4817

(1) General Cable utilizes an aluminum alloy that meets both the requirements of 6101 T81 and 6201 T82 designation.

(2) Equivalent ACSR Size refers to an ACSR conductor size of equal diameter.

(3) Equivalent AAC Size refers to an ASTM AAC 1350 conductor of approximate equivalent electrical resistance.

(4) Based on a conductivity of 52.5% (minimum lot average) IACS at 20°C. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

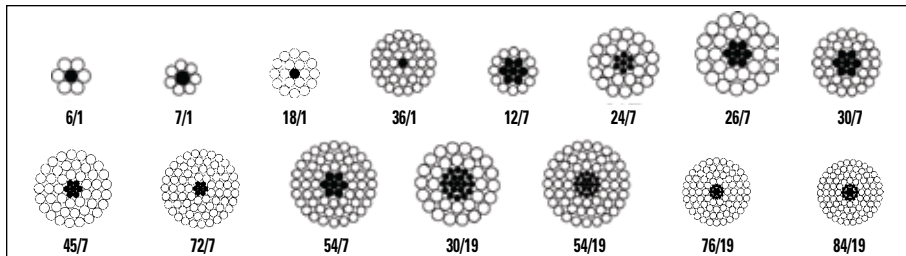
(5) Based on a conductor temperature of 75°C at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.

Notes

TransPowr® ACSR Bare Overhead Conductor

Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded



Product Construction:

Complete Conductor:

ACSR is a composite concentric-lay-stranded conductor. ACSR conductors are manufactured in accordance with the requirements of the latest applicable issues of ASTM specification B232. The steel strand or strands form the central core of the conductor, around which is stranded one or more layers of aluminum 1350-H19 wires. The steel core may consist of a single strand or a concentric-stranded cable of 7, 19, 37 or more wires. Numerous combinations of aluminum and steel strands and layers are possible. The sizes and strandings listed on the following pages are those most frequently used for overhead lines.

Features and Benefits:

ACSR conductors are recognized for their record of economy, dependability and favorable strength/weight ratio. ACSR conductors combine the light

Features and Benefits (cont'd):

weight and good conductivity of aluminum with the high tensile strength and ruggedness of steel. In line design, this can provide higher tensions, less sag and longer span lengths than obtainable with most other types of overhead conductors. The steel strands are added as mechanical reinforcement. The cross-sections above illustrate some common strandings.

Applications:

Aluminum Conductors, Steel-Reinforced (ACSR) are extensively used for overhead distribution and transmission lines.

Options:

- High-conductivity aluminum (/HC) (62.0% IACS)
- Regular-strength Class C galvanized steel core (/GC2)
- High-strength Class A galvanized steel core (/GA3)
- Extra-high-strength Class A galvanized steel core (/GA4)

Options (cont'd):

- Ultra-high-strength Class A galvanized steel core (/GA5)
- Regular-strength Class A zinc-5% aluminum mischmetal alloy-coated steel core (/MA2)
- High-strength Class A zinc-5% aluminum mischmetal alloy-coated steel core (/MA3)
- Extra-high-strength Class A zinc-5% aluminum mischmetal alloy-coated steel core (/MA4)
- Ultra-high-strength Class A zinc-5% aluminum mischmetal alloy-coated steel core (/MA5)
- Aluminum-clad steel core (/AW)—see ACSR/AW catalog section
- Non-specular surface finish (/NS)
- Compact ACSR (ASTM B401) designs are available
- For trapezoidal ACSR, see ACSR/TW catalog section

For other conductor sizes, designs and/or specific installation requirements not shown in the tables, contact your General Cable sales representative or e-mail info@generalcable.com.

TransPowr® ACSR Bare Overhead Conductor

Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded

ACSR, ALUMINUM CONDUCTOR, STEEL-REINFORCED, CONCENTRIC-LAY-STRANDED (MECHANICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS			STANDARD PACKAGES (3)		
		AL.	STEEL	TOTAL	AL.		TOTAL	AL.	STEEL	AL.	STEEL	GA2	GA3 (HS)	GA5 (UHS)	REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Turkey	6	6x0.0661	1x0.0661	0.0240	0.0206	0.198	36.0	24.5	11.6	67.90	32.10	1190	1260	1320	NR 30.22 COIL	590 195	16340 5400
Swan	4	6x0.0834	1x0.0834	0.0382	0.0328	0.250	57.4	38.9	18.4	67.88	32.12	1860	1970	2070	NR 36.22 COIL	885 220	15420 3835
Swanate	4	7x0.0772	1x0.1029	0.0411	0.0328	0.257	67.0	38.9	28.0	58.13	41.87	2360	2520	2680	NR 38.22 COIL NR 30.22 COIL	1200 600 240	17910 8955 3580
Sparrow	2	6x0.1052	1x0.1052	0.0608	0.0522	0.316	91.2	61.9	29.3	67.86	32.14	2850	3010	3180	NR 42.28 COIL NR 36.22 COIL NR 30.22 COIL	1770 885 590 220	19390 9695 6465 2410
Sparate	2	7x0.0974	1x0.1299	0.0654	0.0521	0.325	106.6	61.9	44.7	58.07	41.93	3640	3890	4150	NR 38.22 COIL NR 30.22 COIL	1200 600 240	11250 5625 2250
Robin	1	6x0.1181	1x0.1181	0.0767	0.0657	0.354	115.0	78.1	36.9	67.88	32.12	3550	3760	3980	NR 42.28 COIL NR 36.22 COIL NR 30.22 COIL	1765 885 590 220	15360 7680 5120 1910
Raven	1/0	6x0.1327	1x0.1327	0.0968	0.0830	0.398	145.1	98.5	46.6	67.87	32.13	4380	4650	4910	NR 42.28 COIL NR 36.22 COIL NR 30.22 COIL	1770 885 590 220	12190 6095 4060 1515
Quail	2/0	6x0.1489	1x0.1489	0.1219	0.1045	0.447	182.9	124.1	58.7	67.89	32.11	5300	5720	6050	NR 42.28 COIL NR 36.22 COIL NR 30.22 COIL	1770 885 590	9670 4835 3220
Pigeon	3/0	6x0.1672	1x0.1672	0.1537	0.1317	0.502	230.5	156.5	74.0	67.89	32.11	6620	7150	7570	NR 42.28 COIL NR 36.22 COIL NR 30.22 COIL	1765 885 590	7670 3835 2560
Penguin	4/0	6x0.1878	1x0.1878	0.1939	0.1662	0.563	290.8	197.4	93.4	67.88	32.12	8350	9010	9550	NR 42.28 COIL NR 36.22 COIL NR 30.22 COIL	1770 885 590	6080 3040 2025
Waxwing	266.8	18x0.1217	1x0.1217	0.2210	0.2097	0.609	289	250	39	86.44	13.56	6880	7110	7330	RM 68.38 COIL NR 66.28 COIL NR 48.28 COIL	4150 4150 2075	14360 14360 7180
Spoonbill	266.8	22x0.1101	7x0.0612	0.2300	0.2095	0.624	321	251	70	78.28	21.72	8720	9120	9520	RM 68.38 COIL NR 60.28 COIL NR 48.28 COIL	2810 2810 1875	8755 8755 5835
Scaup	266.8	24x0.1054	7x0.0703	0.2366	0.2095	0.633	343	251	92	73.20	26.80	10000	10500	11100	RM 68.38 COIL NR 66.28 COIL NR 60.28 COIL	3265 3265 2180	9520 9520 6350
Partridge	266.8	26x0.1013	7x0.0788	0.2437	0.2096	0.642	367	251	116	68.50	31.50	11300	11900	12600	NR 60.28 COIL	3790	10330
Junco	266.8	30x0.0943	7x0.0943	0.2584	0.2095	0.660	417	252	166	60.35	39.65	13900	14900	15800	RM 68.38 COIL NR 66.28 COIL	4970 4970	11890 11890
Ostrich	300.0	26x0.1074	7x0.0835	0.2739	0.2355	0.680	412	283	130	68.53	31.47	12700	13400	14200	NR 60.28 COIL	3785	9190
Merlin	336.4	18x0.1367	1x0.1367	0.2789	0.2642	0.684	365	315	49	86.43	13.57	8680	8960	9240	RM 68.38 COIL NR 66.28 COIL NR 48.28 COIL	4155 4155 2080	11390 11390 5695
Trogon	336.4	20x0.1297	7x0.0576	0.2825	0.2642	0.692	379	317	62	83.69	16.31	9470	9820	10200	RM 68.38 COIL NR 60.28 COIL	4780 2390	12610 6305
Woodcock	336.4	22x0.1237	7x0.0687	0.2903	0.2644	0.701	405	317	88	78.29	21.71	10900	11400	11900	RMT 84.36 COIL NR 60.28 COIL	5620 2810	13880 6940
Widgeon	336.4	24x0.1184	7x0.0789	0.2985	0.2642	0.710	433	317	116	73.22	26.78	12500	13200	13800	RMT 84.36 COIL NR 60.28 COIL	6550 3275	15130 7565
Linnet	336.4	26x0.1137	7x0.0884	0.3070	0.2640	0.720	462	317	145	68.54	31.46	14100	14900	15800	RMT 84.36 COIL NR 60.28 COIL	7580 3785	16390 8195
Oriole	336.4	30x0.1059	7x0.1059	0.3259	0.2642	0.741	526	318	209	60.34	39.66	17300	18500	19700	RM 68.38 COIL NR 66.28 COIL	4970 4970	9430 9430
Chickadee	397.5	18x0.1486	1x0.1486	0.3295	0.3122	0.743	431	373	58	86.43	13.57	9940	10400	10700	RM 68.38 COIL NR 66.28 COIL NR 48.28 COIL	4150 4150 2075	9630 9630 4815
Ptarmigan	397.5	20x0.1410	7x0.0627	0.3339	0.3123	0.752	448	374	73	83.65	16.35	11100	11500	11900	RM 68.38 COIL NR 60.28 COIL	4780 2390	10670 5335

(1) Code words shown denote ACSR with regular-strength Class A Galvanized steel core (/GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may be slightly greater or slightly less than the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSR Bare Overhead Conductor

Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded

ACSR, ALUMINUM CONDUCTOR, STEEL-REINFORCED, CONCENTRIC-LAY-STRANDED (ELECTRICAL PROPERTIES)													
CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT			AMPACITY 75°C (5)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
		AL.	STEEL	TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C				
Turkey	6	6x0.0661	1x0.0661	0.0240	0.0206	0.198	0.641	0.655	0.819	105	0.0063	0.1465	0.7511
Swan	4	6x0.0834	1x0.0834	0.0382	0.0328	0.250	0.403	0.411	0.524	140	0.0080	0.1372	0.7147
Swanate	4	7x0.0772	1x0.1029	0.0411	0.0328	0.257	0.399	0.407	0.529	140	0.0084	0.1410	0.7103
Sparrow	2	6x0.1052	1x0.1052	0.0608	0.0522	0.316	0.254	0.259	0.337	185	0.0100	0.1273	0.6784
Sparate	2	7x0.0974	1x0.1299	0.0654	0.0521	0.325	0.251	0.256	0.341	170	0.0106	0.1289	0.6740
Robin	1	6x0.1181	1x0.1181	0.0767	0.0657	0.354	0.201	0.206	0.272	210	0.0113	0.1226	0.6602
Raven	1/0	6x0.1327	1x0.1327	0.0968	0.0830	0.398	0.159	0.163	0.218	240	0.0127	0.1178	0.6420
Quail	2/0	6x0.1489	1x0.1489	0.1219	0.1045	0.447	0.126	0.129	0.177	275	0.0142	0.1133	0.6239
Pigeon	3/0	6x0.1672	1x0.1672	0.1537	0.1317	0.502	0.100	0.102	0.143	315	0.0160	0.1093	0.6058
Penguin	4/0	6x0.1878	1x0.1878	0.1939	0.1662	0.563	0.0795	0.0812	0.116	365	0.0179	0.1055	0.5876
Waxwing	266.8	18x0.1217	1x0.1217	0.2210	0.2097	0.609	0.0643	0.0657	0.0787	450	0.0196	0.0903	0.5755
Spoonbill	266.8	22x0.1101	7x0.0612	0.2300	0.2095	0.624	0.0643	0.0657	0.0786	450	0.0206	0.0893	0.5716
Scaup	266.8	24x0.1054	7x0.0703	0.2366	0.2095	0.633	0.0640	0.0654	0.0782	455	0.0211	0.0887	0.5694
Partridge	266.8	26x0.1013	7x0.0788	0.2437	0.2096	0.642	0.0637	0.0651	0.0779	455	0.0216	0.0882	0.5672
Junco	266.8	30x0.0943	7x0.0943	0.2584	0.2095	0.660	0.0633	0.0646	0.0773	460	0.0225	0.0872	0.5628
Ostrich	300.0	26x0.1074	7x0.0835	0.2739	0.2355	0.680	0.0567	0.0579	0.0693	490	0.0229	0.0868	0.5581
Merlin	336.4	18x0.1367	1x0.1367	0.2789	0.2642	0.684	0.0510	0.0522	0.0625	520	0.0220	0.0877	0.5573
Trogon	336.4	20x0.1297	7x0.0576	0.2825	0.2642	0.692	0.0512	0.0523	0.0626	520	0.0226	0.0871	0.5555
Woodcock	336.4	22x0.1237	7x0.0687	0.2903	0.2644	0.701	0.0510	0.0521	0.0624	520	0.0231	0.0866	0.5534
Widgeon	336.4	24x0.1184	7x0.0789	0.2985	0.2642	0.710	0.0508	0.0519	0.0621	525	0.0237	0.0861	0.5513
Linnet	336.4	26x0.1137	7x0.0884	0.3070	0.2640	0.720	0.0505	0.0517	0.0618	530	0.0242	0.0855	0.5491
Oriole	336.4	30x0.1059	7x0.1059	0.3259	0.2642	0.741	0.0502	0.0513	0.0614	535	0.0253	0.0845	0.5446
Chickadee	397.5	18x0.1486	1x0.1486	0.3295	0.3122	0.743	0.0432	0.0442	0.0529	575	0.0240	0.0857	0.5443
Ptarmigan	397.5	20x0.1410	7x0.0627	0.3339	0.3123	0.752	0.0433	0.0444	0.0531	575	0.0245	0.0852	0.5424

(1) Code words shown denote ACSR with regular-strength Class A Galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(4) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

(5) Based on a conductor temperature of 75°C at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.



General Cable

TransPowr® ACSR Bare Overhead Conductor

Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded

ACSR, ALUMINUM CONDUCTOR, STEEL-REINFORCED, CONCENTRIC-LAY-STRANDED (MECHANICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS			STANDARD PACKAGES (3)		
		AL.	STEEL	TOTAL	AL.		TOTAL	AL.	STEEL	AL.	STEEL	GA2	GA3 (HS)	GA5 (UHS)	REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Stork	397.5	22x0.1344	7x0.0747	0.3428	0.3121	0.762	478	374	104	78.28	21.72	12900	13400	14000	RMT 84.36 NR 60.28	5605 2805	11730 5865
Brant	397.5	24x0.1287	7x0.0858	0.3527	0.3122	0.772	511	374	137	73.21	26.79	14600	15400	16200	RMT 84.36 NR 60.28	6535 3270	12790 6395
Ibis	397.5	26x0.1236	7x0.0961	0.3627	0.3120	0.783	546	374	172	68.53	31.47	16300	17300	18200	RMT 84.36 NR 60.28	7575 3785	13870 6935
Lark	397.5	30x0.1151	7x0.1151	0.3850	0.3121	0.806	622	375	247	60.35	39.65	20300	21700	23100	RM 68.38 NR 66.28	4965 4965	7980 7980
Pelican	477.0	18x0.1628	1x0.1628	0.3955	0.3747	0.814	517	447	70	86.43	13.57	11800	12300	12700	RM 68.38 NR 66.28 NR 48.28	4150 4150 2075	8030 8030 4015
Tailorbird	477.0	20x0.1544	7x0.0686	0.4003	0.3746	0.824	537	449	88	83.69	16.31	13100	13600	14100	RM 68.38 NR 60.28	4780 2390	8900 4450
Toucan	477.0	22x0.1472	7x0.0818	0.4112	0.3744	0.834	574	449	125	78.30	21.70	15200	15900	16700	RMT 84.36 NR 60.28	5620 2810	9790 4895
Flicker	477.0	24x0.1410	7x0.0940	0.4233	0.3747	0.846	614	449	164	73.20	26.80	17200	18100	19000	RMT 84.36 NR 60.28	6535 3265	10660 5330
Hawk	477.0	26x0.1354	7x0.1053	0.4353	0.3744	0.858	656	449	206	68.52	31.48	19500	20700	21900	RMT 84.36 NR 60.28	7580 3785	11560 5780
Hen	477.0	30x0.1261	7x0.1261	0.4621	0.3747	0.883	746	450	296	60.34	39.66	23800	25500	27200	RM 68.38 NR 66.28	4960 4960	6650 6650
Heron	500.0	30x0.1291	7x0.1291	0.4843	0.3927	0.904	782	472	310	60.35	39.65	25000	26700	28500	RM 68.38	4960	6345
Osprey	556.5	18x0.1758	1x0.1758	0.4612	0.4369	0.879	603	522	82	86.44	13.56	13700	14300	14800	RM 68.38 NR 66.28 NR 48.28	4155 4155 2075	6890 6890 3445
Tody	556.5	20x0.1668	7x0.0741	0.4672	0.4370	0.890	626	524	102	83.68	16.32	15300	15800	16400	RM 68.38 NR 60.28	4770 2385	7620 3810
Sapsucker	556.5	22x0.1590	7x0.0883	0.4797	0.4368	0.901	669	524	145	78.32	21.68	17600	18400	19200	RMT 84.36 NR 60.28	5615 2805	8390 4195
Parakeet	556.5	24x0.1523	7x0.1015	0.4939	0.4372	0.914	716	524	192	73.22	26.78	19800	20900	22000	RMT 84.36 NR 60.28	6545 3270	9140 4570
Dove	556.5	26x0.1463	7x0.1138	0.5083	0.4371	0.927	765	524	241	68.50	31.50	22600	24000	25300	RMT 84.36 NR 60.28	7580 3790	9910 4955
Eagle	556.5	30x0.1362	7x0.1362	0.5391	0.4371	0.953	871	525	345	60.35	39.65	27800	29700	31700	RM 68.38 NR 66.28	4960 4960	5700 5700
Peacock	605.0	24x0.1588	7x0.1059	0.5370	0.4753	0.953	779	570	209	73.19	26.81	21600	22700	23900	RMT 84.36 NR 60.28	6550 3275	8410 4205
Squab	605.0	26x0.1525	7x0.1186	0.5522	0.4749	0.966	832	570	262	68.52	31.48	24300	25800	27300	RMT 84.36 NR 60.28	7580 3790	9110 4555
Wood Duck	605.0	30x0.1420	7x0.1420	0.5860	0.4751	0.994	947	571	375	60.35	39.65	28900	31600	33700	RM 68.38 NR 66.28	4960 4960	5245 5245
Teal	605.0	30x0.1420	19x0.0852	0.5834	0.4751	0.994	939	571	367	60.85	39.15	30000	32000	34000	RMT 84.45 RM 68.38 NR 66.28	9840 4920 4920	10490 5245 5245
Swift	636.0	36x0.1329	1x0.1329	0.5133	0.4994	0.930	643	596	47	92.72	7.28	13800	14000	14300	RMT 96.60 RMT 84.45 RM 68.38 NR 66.28	11630 7750 3875 3875	18090 12050 6025 6025
Kingbird	636.0	18x0.1880	1x0.1880	0.5274	0.4997	0.940	690	596	94	86.43	13.57	15700	16300	16900	RMT 84.36 RM 68.38 NR 66.28 NR 48.28	6250 4155 4155 2075	9060 6020 6020 3010
Turacos	636.0	20x0.1783	7x0.0792	0.5339	0.4994	0.951	716	599	117	83.69	16.31	17400	18100	18800	RMT 84.36 RM 68.38 NR 60.28	7160 4775 2390	10000 6670 3335
Goldfinch	636.0	22x0.1700	7x0.0944	0.5483	0.4994	0.963	765	599	166	78.32	21.68	19900	20800	21700	RMT 84.45 RMT 84.36 NR 60.28	8425 5615 2810	11010 7340 3670
Rook	636.0	24x0.1628	7x0.1085	0.5643	0.4996	0.977	818	599	219	73.22	26.78	22600	23900	25100	RMT 84.45 RMT 84.36 NR 60.28	9815 6545 3270	12000 8000 4000

(1) Code words shown denote ACSR with regular-strength Class A Galvanized steel core (/GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may be slightly greater or slightly less than the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSR Bare Overhead Conductor

Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded

ACSR, ALUMINUM CONDUCTOR, STEEL-REINFORCED, CONCENTRIC-LAY-STRANDED (ELECTRICAL PROPERTIES)													
CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT			AMPACITY 75°C (5)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
		AL.	STEEL	TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C				
Stork	397.5	22x0.1344	7x0.0747	0.3428	0.3121	0.762	0.0431	0.0442	0.0528	580	0.0251	0.0847	0.5404
Brant	397.5	24x0.1287	7x0.0858	0.3527	0.3122	0.772	0.0430	0.0440	0.0526	585	0.0257	0.0841	0.5382
Ibis	397.5	26x0.1236	7x0.0961	0.3627	0.3120	0.783	0.0428	0.0438	0.0523	585	0.0263	0.0836	0.5360
Lark	397.5	30x0.1151	7x0.1151	0.3850	0.3121	0.806	0.0425	0.0434	0.0519	595	0.0275	0.0826	0.5316
Pelican	477.0	18x0.1628	1x0.1628	0.3955	0.3747	0.814	0.0360	0.0369	0.0442	645	0.0263	0.0836	0.5300
Tailorbird	477.0	20x0.1544	7x0.0686	0.4003	0.3746	0.824	0.0361	0.0370	0.0443	645	0.0269	0.0831	0.5281
Toucan	477.0	22x0.1472	7x0.0818	0.4112	0.3744	0.834	0.0359	0.0369	0.0441	650	0.0275	0.0826	0.5261
Flicker	477.0	24x0.1410	7x0.0940	0.4233	0.3747	0.846	0.0358	0.0367	0.0439	655	0.0282	0.0820	0.5240
Hawk	477.0	26x0.1354	7x0.1053	0.4353	0.3744	0.858	0.0356	0.0365	0.0437	660	0.0288	0.0815	0.5218
Hen	477.0	30x0.1261	7x0.1261	0.4621	0.3747	0.883	0.0354	0.0362	0.0433	665	0.0301	0.0805	0.5173
Heron	500.0	30x0.1291	7x0.1291	0.4843	0.3927	0.904	0.0338	0.0346	0.0413	685	0.0309	0.0799	0.5136
Osprey	556.5	18x0.1758	1x0.1758	0.4612	0.4369	0.879	0.0308	0.0317	0.0379	710	0.0284	0.0819	0.5179
Tody	556.5	20x0.1668	7x0.0741	0.4672	0.4370	0.890	0.0309	0.0318	0.0380	710	0.0290	0.0813	0.5161
Sapsucker	556.5	22x0.1590	7x0.0883	0.4797	0.4368	0.901	0.0308	0.0317	0.0378	715	0.0297	0.0808	0.5140
Parakeet	556.5	24x0.1523	7x0.1015	0.4939	0.4372	0.914	0.0307	0.0315	0.0376	720	0.0304	0.0803	0.5119
Dove	556.5	26x0.1463	7x0.1138	0.5083	0.4371	0.927	0.0305	0.0313	0.0375	725	0.0311	0.0797	0.5097
Eagle	556.5	30x0.1362	7x0.1362	0.5391	0.4371	0.953	0.0303	0.0311	0.0372	735	0.0326	0.0787	0.5052
Peacock	605.0	24x0.1588	7x0.1059	0.5370	0.4753	0.953	0.0282	0.0290	0.0347	760	0.0317	0.0793	0.5053
Squab	605.0	26x0.1525	7x0.1186	0.5522	0.4749	0.966	0.0281	0.0289	0.0345	765	0.0325	0.0788	0.5031
Wood Duck	605.0	30x0.1420	7x0.1420	0.5860	0.4751	0.994	0.0279	0.0286	0.0342	775	0.0339	0.0777	0.4987
Teal	605.0	30x0.1420	19x0.0852	0.5834	0.4751	0.994	0.0279	0.0287	0.0342	775	0.0340	0.0777	0.4987
Swift	636.0	36x0.1329	1x0.1329	0.5133	0.4994	0.930	0.0271	0.0282	0.0349	750	0.0301	0.0805	0.5090
Kingbird	636.0	18x0.1880	1x0.1880	0.5274	0.4997	0.940	0.0270	0.0278	0.0332	775	0.0303	0.0803	0.5075
Turacos	636.0	20x0.1783	7x0.0792	0.5339	0.4994	0.951	0.0271	0.0279	0.0333	775	0.0310	0.0798	0.5056
Goldfinch	636.0	22x0.1700	7x0.0944	0.5483	0.4994	0.963	0.0270	0.0278	0.0331	780	0.0318	0.0793	0.5036
Rook	636.0	24x0.1628	7x0.1085	0.5643	0.4996	0.977	0.0268	0.0276	0.0330	785	0.0325	0.0787	0.5014

(1) Code words shown denote ACSR with regular-strength Class A Galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(4) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

(5) Based on a conductor temperature of 75°C at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.



General Cable

TransPowr® ACSR Bare Overhead Conductor

Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded

ACSR, ALUMINUM CONDUCTOR, STEEL-REINFORCED, CONCENTRIC-LAY-STRANDED (MECHANICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS			STANDARD PACKAGES (3)		
		AL.	STEEL	TOTAL	AL.		TOTAL	AL.	STEEL	AL.	STEEL	GA2	GA3 (HS)	GA5 (UHS)	REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Grosbeak	636.0	26x0.1564	7x0.1216	0.5808	0.4995	0.990	874	599	275	68.52	31.48	25200	26800	28300	RMT 90.45 RMT 84.36 NR 60.28	11370 7580 3790	13010 8670 4335
Scoter	636.0	30x0.1456	7x0.1456	0.6160	0.4995	1.019	995	601	395	60.35	39.65	30400	33200	35400	RMT 96.60 RM 68.38	14930 4975	15020 5005
Egret	636.0	30x0.1456	19x0.0874	0.6135	0.4995	1.019	987	601	387	60.83	39.17	31500	33600	35800	RMT 96.60 RMT 84.45 RM 68.38 NR 66.28	14765 9850 4925 4925	14960 9980 4990 4990
Flamingo	666.6	24x0.1667	7x0.1111	0.5917	0.5238	1.000	858	628	230	73.21	26.79	23700	25000	26300	RMT 84.45 RMT 84.36 NR 60.28	9835 6545 3275	11460 7630 3815
Gannet	666.6	26x0.1601	7x0.1245	0.6086	0.5234	1.014	916	628	289	68.52	31.48	26400	28000	29700	RMT 90.45 RMT 84.36 NR 60.28	11380 7595 3795	12410 8280 4140
Stilt	715.5	24x0.1727	7x0.1151	0.6350	0.5622	1.036	921	674	247	73.21	26.79	25500	26900	28300	RMT 84.45 RMT 84.36 NR 60.28	9820 6540 3270	10660 7100 3550
Starling	715.5	26x0.1659	7x0.1290	0.6535	0.5620	1.051	984	674	310	68.51	31.49	28400	30100	31900	RMT 90.45 RMT 84.36 NR 60.28	11365 7585 3795	11550 7710 3855
Redwing	715.5	30x0.1544	19x0.0926	0.6897	0.5617	1.081	1110	676	434	60.88	39.12	34600	36900	39300	RMT 96.60 RMT 84.45 RM 68.38 NR 66.28	14750 9850 4925 4925	13300 8880 4440 4440
Coot	795.0	36x0.1486	1x0.1486	0.6417	0.6244	1.040	804	745	58	92.72	7.28	16800	17200	17500	RMT 96.60 RMT 84.45 NR 66.28	11620 7740 3870	14470 9640 4820
Macaw	795.0	42x0.1376	7x0.0764	0.6567	0.6246	1.055	857	749	109	87.33	12.67	20100	20700	21300	RMT 90.45 RM 68.38 NR 60.28	9610 4805 3200	11200 5600 3730
Turbit	795.0	20x0.1994	7x0.0886	0.6677	0.6246	1.063	895	749	146	83.67	16.33	21800	22600	23500	RMT 84.36 RM 68.38 NR 60.28	7160 4770 2385	8000 5330 2665
Tern	795.0	45x0.1329	7x0.0886	0.6674	0.6242	1.063	895	749	146	83.67	16.33	22100	22900	23700	RMT 96.60 RMT 90.45 RM 68.38 NR 60.28	16110 10740 5370 3580	18000 12000 6000 4000
Puffin	795.0	22x0.1901	7x0.1056	0.6857	0.6244	1.077	956	749	208	78.30	21.70	24800	26000	27200	RMT 84.45 RMT 84.36 NR 60.28	8420 5620 2810	8800 5870 2935
Cuckoo	795.0	24x0.1820	7x0.1213	0.7053	0.6244	1.092	1023	749	274	73.22	26.78	27900	29500	31000	RMT 84.45 RMT 84.36 NR 60.28	9830 6545 3275	9610 6400 3200
Condor	795.0	54x0.1213	7x0.1213	0.7049	0.6240	1.092	1023	749	274	73.22	26.78	28200	29700	31300	RMT 96.60 RMT 90.45	19130 11775	18720 11520
Drake	795.0	26x0.1749	7x0.1360	0.7263	0.6246	1.107	1093	749	344	68.50	31.50	31500	33500	35400	RMT 90.45 RMT 84.36 NR 60.28	11365 7585 3795	10400 6940 3470
Mallard	795.0	30x0.1628	19x0.0977	0.7669	0.6245	1.140	1234	751	483	60.84	39.16	38400	41100	43700	RMT 96.60 RMT 84.45 RM 68.38	14770 9845 4925	11970 7980 3990
Ruddy	900.0	45x0.1414	7x0.0943	0.7555	0.7066	1.131	1013	848	166	83.66	16.34	24400	25400	26300	RMT 96.60 RMT 90.45 RM 68.38 NR 60.28	16095 10730 5365 3575	15890 10590 5295 3530
Canary	900.0	54x0.1291	7x0.1291	0.7985	0.7069	1.162	1158	848	310	73.21	26.79	31900	33700	35400	RMT 96.60 RMT 90.45	19155 11790	16540 10180
Catbird	954.0	36x0.1628	1x0.1628	0.7702	0.7494	1.140	964	894	70	92.72	7.28	19800	20300	20700	RMT 96.60 RMT 84.45	11625 7740	12060 8030
Phoenix	954.0	42x0.1507	7x0.0837	0.7877	0.7491	1.155	1029	899	130	87.33	12.67	23400	24100	24900	RMT 90.45 RM 68.38	9600 4800	9340 4670

(1) Code words shown denote ACSR with regular-strength Class A Galvanized steel core (/GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may be slightly greater or slightly less than the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSR Bare Overhead Conductor

Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded

ACSR, ALUMINUM CONDUCTOR, STEEL-REINFORCED, CONCENTRIC-LAY-STRANDED (ELECTRICAL PROPERTIES)													
CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT			AMPACITY 75°C (5)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
		AL.	STEEL	TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C				
Grosbeak	636.0	26x0.1564	7x0.1216	0.5808	0.4995	0.990	0.0267	0.0275	0.0328	790	0.0333	0.0782	0.4992
Scoter	636.0	30x0.1456	7x0.1456	0.6160	0.4995	1.019	0.0265	0.0273	0.0326	795	0.0348	0.0772	0.4948
Egret	636.0	30x0.1456	19x0.0874	0.6135	0.4995	1.019	0.0266	0.0273	0.0326	795	0.0348	0.0772	0.4947
Flamingo	666.6	24x0.1667	7x0.1111	0.5917	0.5238	1.000	0.0256	0.0264	0.0315	805	0.0333	0.0782	0.4977
Gannet	666.6	26x0.1601	7x0.1245	0.6086	0.5234	1.014	0.0255	0.0262	0.0313	810	0.0341	0.0777	0.4956
Stilt	715.5	24x0.1727	7x0.1151	0.6350	0.5622	1.036	0.0239	0.0246	0.0294	845	0.0345	0.0774	0.4922
Starling	715.5	26x0.1659	7x0.1290	0.6535	0.5620	1.051	0.0238	0.0245	0.0292	850	0.0353	0.0768	0.4900
Redwing	715.5	30x0.1544	19x0.0926	0.6897	0.5617	1.081	0.0236	0.0243	0.0290	860	0.0369	0.0758	0.4856
Coot	795.0	36x0.1486	1x0.1486	0.6417	0.6244	1.040	0.0217	0.0227	0.0279	865	0.0337	0.0779	0.4916
Macaw	795.0	42x0.1376	7x0.0764	0.6567	0.6246	1.055	0.0217	0.0227	0.0279	870	0.0346	0.0773	0.4894
Turbit	795.0	20x0.1994	7x0.0886	0.6677	0.6246	1.063	0.0216	0.0224	0.0268	890	0.0347	0.0772	0.4881
Tern	795.0	45x0.1329	7x0.0886	0.6674	0.6242	1.063	0.0216	0.0226	0.0279	870	0.0351	0.0770	0.4881
Puffin	795.0	22x0.1901	7x0.1056	0.6857	0.6244	1.077	0.0216	0.0223	0.0266	895	0.0355	0.0767	0.4861
Cuckoo	795.0	24x0.1820	7x0.1213	0.7053	0.6244	1.092	0.0215	0.0222	0.0265	900	0.0364	0.0762	0.4840
Condor	795.0	54x0.1213	7x0.1213	0.7049	0.6240	1.092	0.0215	0.0223	0.0276	880	0.0366	0.0760	0.4840
Drake	795.0	26x0.1749	7x0.1360	0.7263	0.6246	1.107	0.0214	0.0221	0.0263	905	0.0372	0.0756	0.4818
Mallard	795.0	30x0.1628	19x0.0977	0.7669	0.6245	1.140	0.0213	0.0219	0.0261	915	0.0389	0.0746	0.4773
Ruddy	900.0	45x0.1414	7x0.0943	0.7555	0.7066	1.131	0.0191	0.0200	0.0246	940	0.0373	0.0756	0.4784
Canary	900.0	54x0.1291	7x0.1291	0.7985	0.7069	1.162	0.0190	0.0198	0.0244	955	0.0390	0.0746	0.4742
Catbird	954.0	36x0.1628	1x0.1628	0.7702	0.7494	1.140	0.0181	0.0191	0.0234	970	0.0369	0.0758	0.4773
Phoenix	954.0	42x0.1507	7x0.0837	0.7877	0.7491	1.155	0.0181	0.0190	0.0234	975	0.0379	0.0752	0.4751

- (1) Code words shown denote ACSR with regular-strength Class A Galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.
- (4) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.
- (5) Based on a conductor temperature of 75°C at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.
- (6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.



General Cable

TransPowr® ACSR Bare Overhead Conductor

Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded

ACSR, ALUMINUM CONDUCTOR, STEEL-REINFORCED, CONCENTRIC-LAY-STRANDED (MECHANICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS			STANDARD PACKAGES (3)		
		AL.	STEEL	TOTAL	AL.		TOTAL	AL.	STEEL	AL.	STEEL	GA2	GA3 (HS)	GA5 (UHS)	REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Corncrake	954.0	20x0.2184	7x0.0971	0.8011	0.7492	1.165	1074	899	175	83.66	16.34	25600	26600	27600	RMT 84.36 RM 68.38	7165 4780	6670 4450
Rail	954.0	45x0.1456	7x0.0971	0.8011	0.7492	1.165	1074	899	175	83.66	16.34	25900	26900	27900	RMT 96.60 RMT 90.45 RM 68.38 NR 60.28	16110 10740 5370 3350	15000 10000 5000 3335
Towhee	954.0	48x0.1410	7x0.1097	0.8157	0.7495	1.175	1123	899	224	80.05	19.95	28500	29700	31000	RMT 96.60 RMT 90.45 RMT 84.36	17970 11980 5990	16000 10670 5335
Redbird	954.0	24x0.1994	7x0.1329	0.8466	0.7495	1.196	1227	899	329	73.21	26.79	33500	35400	37200	RMT 84.45 RMT 84.36	9825 6545	8000 5330
Cardinal	954.0	54x0.1329	7x0.1329	0.8462	0.7491	1.196	1227	899	329	73.21	26.79	33800	35700	37600	RMT 96.60 RMT 90.45	19140 11780	15600 9600
Canvasback	954.0	30x0.1783	19x0.1070	0.9201	0.7493	1.248	1480	901	580	60.85	39.15	46100	49300	52500	RMT 96.60 RMT 84.45 RM 68.38	14770 9855 4930	9980 6660 3330
Snowbird	1033.5	42x0.1569	7x0.0872	0.8539	0.8121	1.203	1115	973	142	87.31	12.69	25300	26100	26900	RMT 90.45 RM 68.38	9610 4805	8610 4305
Ortolan	1033.5	45x0.1515	7x0.1010	0.8681	0.8121	1.212	1163	973	190	83.68	16.32	27700	28800	29800	RMT 96.60 RMT 90.45 RM 68.38 NR 60.28	16110 10735 5365 3575	13850 9230 4615 3075
Whooper	1033.5	48x0.1467	7x0.1141	0.8829	0.8113	1.223	1216	973	242	80.07	19.93	30800	32200	33500	RMT 96.60 RMT 90.45 RMT 84.36	17945 11970 5985	14770 9850 4925
Curlew	1033.5	54x0.1383	7x0.1383	0.9164	0.8112	1.245	1329	973	356	73.22	26.78	36600	38700	40700	RMT 96.60 RMT 90.45	19140 11790	14400 8870
Avocet	1113.0	42x0.1628	7x0.0904	0.9192	0.8743	1.248	1200	1048	152	87.33	12.67	27100	27900	28800	RMT 96.60 RMT 90.45 RM 68.38	14410 9610 4805	12000 8000 4000
Bluejay	1113.0	45x0.1573	7x0.1049	0.9350	0.8745	1.259	1253	1048	205	83.66	16.34	29800	31000	32100	RMT 96.60 RMT 90.45 RM 68.38 NR 60.28	16115 10745 5375 3580	12850 8570 4285 2855
Bullfinch	1113.0	48x0.1523	7x0.1184	0.9516	0.8744	1.269	1310	1048	261	80.04	19.96	32800	34300	35800	RMT 96.60 RMT 90.45 RMT 84.36	17945 11975 5985	13700 9140 4570
Finch	1113.0	54x0.1436	19x0.0861	0.9854	0.8746	1.293	1430	1053	376	73.69	26.31	39100	41100	43200	RMT 96.60 RMT 90.45	19035 11725	13310 8200
Oxbird	1192.5	42x0.1685	7x0.0936	0.9847	0.9365	1.292	1286	1123	163	87.32	12.68	29000	29900	30900	RMT 96.60 RMT 90.45 RM 68.38	14405 9605 4805	11200 7470 3735
Bunting	1192.5	45x0.1628	7x0.1085	1.0014	0.9367	1.302	1342	1123	219	83.68	16.32	32000	33200	34400	RMT 96.60 RMT 90.45 RM 68.38 NR 60.28	16105 10735 5370 3575	12000 8000 4000 2665
Cormorant	1192.5	48x0.1576	7x0.1226	1.0190	0.9364	1.313	1403	1123	280	80.06	19.94	34700	36300	37900	RMT 96.60 RMT 90.45 RMT 84.36	17960 11970 5985	12800 8530 4265
Grackle	1192.5	54x0.1486	19x0.0892	1.0553	0.9365	1.338	1531	1129	403	73.70	26.30	41900	44100	46300	RMT 96.60 RMT 90.45	19025 12560	12420 8200
Skylark	1272.0	36x0.1880	1x0.1880	1.0271	0.9993	1.316	1286	1192	94	92.72	7.28	26400	27000	27600	RMT 96.60 RMT 84.45	11645 7750	9050 6020
Scissortail	1272.0	42x0.1740	7x0.0967	1.0501	0.9987	1.334	1372	1198	174	87.32	12.68	30900	31900	32900	RMT 96.60 RMT 90.45 RM 68.38	14405 9605 4800	10500 7000 3500
Bittern	1272.0	45x0.1681	7x0.1121	1.0678	0.9987	1.345	1432	1198	234	83.67	16.33	34100	35400	36700	RMT 96.60 RMT 90.45 RM 68.38 NR 60.28	16110 10740 5370 3580	11250 7500 3750 2500

(1) Code words shown denote ACSR with regular-strength Class A Galvanized steel core (/GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may be slightly greater or slightly less than the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSR Bare Overhead Conductor

Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded

ACSR, ALUMINUM CONDUCTOR, STEEL-REINFORCED, CONCENTRIC-LAY-STRANDED (ELECTRICAL PROPERTIES)													
CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT			AMPACITY 75°C (5)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
		AL.	STEEL	TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C				
Corncrake	954.0	20x0.2184	7x0.0971	0.8011	0.7492	1.165	0.0180	0.0188	0.0224	995	0.0380	0.0751	0.4738
Rail	954.0	45x0.1456	7x0.0971	0.8011	0.7492	1.165	0.0180	0.0190	0.0233	975	0.0384	0.0749	0.4738
Towhee	954.0	48x0.1410	7x0.1097	0.8157	0.7495	1.175	0.0180	0.0189	0.0232	980	0.0390	0.0746	0.4725
Redbird	954.0	24x0.1994	7x0.1329	0.8466	0.7495	1.196	0.0179	0.0186	0.0222	1010	0.0398	0.0741	0.4697
Cardinal	954.0	54x0.1329	7x0.1329	0.8462	0.7491	1.196	0.0179	0.0187	0.0230	990	0.0401	0.0739	0.4697
Canvasback	954.0	30x0.1783	19x0.1070	0.9201	0.7493	1.248	0.0177	0.0183	0.0218	1025	0.0426	0.0725	0.4630
Snowbird	1033.5	42x0.1569	7x0.0872	0.8539	0.8121	1.203	0.0167	0.0176	0.0216	1025	0.0394	0.0743	0.4688
Ortolan	1033.5	45x0.1515	7x0.1010	0.8681	0.8121	1.212	0.0167	0.0176	0.0215	1025	0.0400	0.0740	0.4676
Whooper	1033.5	48x0.1467	7x0.1141	0.8829	0.8113	1.223	0.0166	0.0175	0.0214	1030	0.0405	0.0737	0.4662
Curlew	1033.5	54x0.1383	7x0.1383	0.9164	0.8112	1.245	0.0165	0.0173	0.0213	1040	0.0418	0.0730	0.4634
Avocet	1113.0	42x0.1628	7x0.0904	0.9192	0.8743	1.248	0.0155	0.0164	0.0201	1070	0.0409	0.0735	0.4630
Bluejay	1113.0	45x0.1573	7x0.1049	0.9350	0.8745	1.259	0.0155	0.0164	0.0200	1075	0.0415	0.0731	0.4618
Bullfinch	1113.0	48x0.1523	7x0.1184	0.9516	0.8744	1.269	0.0154	0.0163	0.0199	1080	0.0421	0.0728	0.4604
Finch	1113.0	54x0.1436	19x0.0861	0.9854	0.8746	1.293	0.0154	0.0162	0.0199	1085	0.0434	0.0721	0.4576
Oxbird	1192.5	42x0.1685	7x0.0936	0.9847	0.9365	1.292	0.0145	0.0154	0.0188	1115	0.0423	0.0727	0.4576
Bunting	1192.5	45x0.1628	7x0.1085	1.0014	0.9367	1.302	0.0144	0.0154	0.0187	1120	0.0429	0.0723	0.4564
Cormorant	1192.5	48x0.1576	7x0.1226	1.0190	0.9364	1.313	0.0144	0.0153	0.0187	1125	0.0436	0.0720	0.4550
Grackle	1192.5	54x0.1486	19x0.0892	1.0553	0.9365	1.338	0.0144	0.0152	0.0186	1135	0.0449	0.0713	0.4522
Skylark	1272.0	36x0.1880	1x0.1880	1.0271	0.9993	1.316	0.0135	0.0146	0.0177	1155	0.0426	0.0725	0.4548
Scissortail	1272.0	42x0.1740	7x0.0967	1.0501	0.9987	1.334	0.0136	0.0145	0.0177	1160	0.0437	0.0719	0.4526
Bittern	1272.0	45x0.1681	7x0.1121	1.0678	0.9987	1.345	0.0135	0.0145	0.0176	1165	0.0443	0.0716	0.4513

(1) Code words shown denote ACSR with regular-strength Class A Galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(4) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

(5) Based on a conductor temperature of 75°C at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.



TransPowr® ACSR Bare Overhead Conductor

Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded

ACSR, ALUMINUM CONDUCTOR, STEEL-REINFORCED, CONCENTRIC-LAY-STRANDED (MECHANICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS			STANDARD PACKAGES (3)		
		AL.	STEEL	TOTAL	AL.		TOTAL	AL.	STEEL	AL.	STEEL	GA2	GA3 (HS)	GA5 (UHS)	REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Diver	1272.0	48x0.1628	7x0.1266	1.0873	0.9992	1.357	1496	1198	298	80.06	19.94	37000	38700	40400	RMT 96.60 RMT 90.45	17950 11970	12000 8000
Pheasant	1272.0	54x0.1535	19x0.0921	1.1259	0.9993	1.381	1633	1204	429	73.71	26.29	43600	46000	48300	RMT 96.60 RMT 90.45	19025 11715	11650 7175
Ringdove	1351.5	42x0.1794	7x0.0997	1.1163	1.0617	1.376	1458	1273	185	87.31	12.69	32900	33900	35000	RMT 96.60 RMT 90.45	14415 9615	9880 6590
Dipper	1351.5	45x0.1733	7x0.1155	1.1348	1.0614	1.386	1521	1273	248	83.68	16.32	36200	37600	39000	RMT 96.60 RMT 90.45	16095 10730	10590 7060
-none-	1351.5	48x0.1678	7x0.1305	1.1551	1.0614	1.398	1590	1273	317	80.06	19.94	39400	41200	43000	RMT 96.60 RMT 90.45	17940 11965	11290 7530
Martin	1351.5	54x0.1582	19x0.0949	1.1958	1.0614	1.424	1735	1279	456	73.72	26.28	46300	48800	51300	RMT 96.60 RMT 90.45	19015 11720	10960 6755
Popinjay	1431.0	42x0.1846	7x0.1026	1.1820	1.1241	1.415	1544	1348	196	87.31	12.69	34800	35900	37100	RMT 96.60 RMT 90.45	14405 9605	9330 6220
Bobolink	1431.0	45x0.1783	7x0.1189	1.2013	1.1236	1.426	1611	1348	263	83.67	16.33	38300	39800	41300	RMT 96.60 RMT 90.45	16110 10735	10000 6665
Wagtail	1431.0	48x0.1727	7x0.1343	1.2235	1.1244	1.439	1684	1348	336	80.06	19.94	41700	43600	45500	RMT 96.60 RMT 90.45	17950 11975	10660 7110
Plover	1431.0	54x0.1628	19x0.0977	1.2665	1.1241	1.465	1838	1354	483	73.71	26.29	49100	51700	54400	RMT 96.60 RMT 90.45	19025 11715	10350 6375
Nuthatch	1510.5	45x0.1832	7x0.1221	1.2682	1.1862	1.466	1700	1423	277	83.68	16.32	40100	41600	43200	RMT 96.60 RMT 90.45	16105 10740	9480 6320
Parrot	1510.5	54x0.1672	19x0.1003	1.3358	1.1856	1.505	1939	1430	509	73.74	26.26	51700	54500	57300	RMT 96.60 RMT 90.45	18990 11705	9800 6040
Ratite	1590.0	42x0.1946	7x0.1081	1.3134	1.2492	1.492	1715	1498	218	87.32	12.68	38700	39900	41200	RMT 96.60 RMT 90.45	14405 9605	8400 5600
Lapwing	1590.0	45x0.1880	7x0.1253	1.3355	1.2492	1.504	1790	1498	292	83.67	16.33	42200	43900	45500	RMT 96.60 RMT 90.45	16110 10740	9000 6000
Hornbill	1590.0	48x0.1820	7x0.1416	1.3590	1.2487	1.517	1871	1498	373	80.05	19.95	45300	47900	50000	RMT 96.60 RMT 90.45	17960 11975	9600 6400
Falcon	1590.0	54x0.1716	19x0.1030	1.4072	1.2489	1.545	2042	1505	537	73.70	26.30	54500	57500	60400	RMT 96.60 RMT 90.45	19030 11720	9320 5740
Chukar	1780.0	84x0.1456	19x0.0874	1.5126	1.3986	1.602	2071	1685	387	81.33	18.67	51000	53100	55200	RMT 96.60	19070	9200
Seahawk	1869.0	68x0.1658	7x0.0921	1.5148	1.4681	1.603	1927	1769	158	91.81	8.19	40000	40900	41800	RMT 96.60	17345	9000
Mockingbird	2034.5	72x0.1681	7x0.1121	1.6670	1.5979	1.681	2160	1926	234	89.17	10.83	46800	48100	49400	RMT 96.60	16115	7460
Roadrunner	2057.5	76x0.1645	19x0.0768	1.7033	1.6152	1.700	2246	1947	299	86.71	13.29	50400	52100	53700	RMT 96.60	17510	7800
Bluebird	2156.0	84x0.1602	19x0.0961	1.8310	1.6931	1.762	2508	2041	467	81.36	18.64	60300	62800	65400	RMT 96.60	18805	7500
Kiwi	2167.0	72x0.1735	7x0.1157	1.7758	1.7022	1.735	2300	2051	249	89.17	10.83	49800	51300	52700	RMT 96.60	16100	7000
Thrasher	2312.0	76x0.1744	19x0.0814	1.9144	1.8155	1.802	2524	2188	335	86.71	13.29	56700	58500	60400	RMT 96.60	17660	7000
Joree	2515.0	76x0.1819	19x0.0849	2.0826	1.9750	1.880	2745	2380	365	86.71	13.29	61700	63700	65700	RMT 96.60	17295	6300

ACSR, ALUMINUM CONDUCTOR, STEEL-REINFORCED, CONCENTRIC-LAY-STRANDED-HIGH-STRENGTH STRANDING (MECHANICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS			STANDARD PACKAGES (3)		
		AL.	STEEL	TOTAL	AL.		TOTAL	AL.	STEEL	AL.	STEEL	GA2	GA3 (HS)	GA5 (UHS)	REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Grouse	80.0	8x0.1000	1x0.1670	0.0847	0.0628	0.367	148.8	75.0	73.9	50.38	49.62	5200	5730	6040	NR 36.22	1130	7580
Petrel	101.8	12x0.0921	7x0.0921	0.1266	0.0799	0.461	253.8	95.9	157.9	37.78	62.22	10400	11200	11900	NR 48.28	3175	12500
Minorca	110.8	12x0.0961	7x0.0961	0.1378	0.0870	0.480	276.3	104.4	171.9	37.78	62.22	11300	12200	13000	NR 48.28	3170	11480
Leghorn	134.6	12x0.1059	7x0.1059	0.1674	0.1057	0.530	335.5	126.8	208.7	37.79	62.21	13600	14800	15700	NR 48.28	3175	9450
Guinea	159.0	12x0.1151	7x0.1151	0.1977	0.1249	0.576	396.3	149.8	246.6	37.79	62.21	16000	17400	18400	NR 48.28	3175	8000
Dotterel	176.9	12x0.1214	7x0.1214	0.2199	0.1389	0.607	440.9	166.6	274.3	37.79	62.21	17300	18900	20000	NR 48.28	3175	7195
Dorking	190.8	12x0.1261	7x0.1261	0.2373	0.1499	0.630	475.7	179.7	296.0	37.78	62.22	18800	20400	21600	NR 48.28	3175	6665
Brahma	203.2	16x0.1127	19x0.0977	0.3020	0.1596	0.714	674.6	191.4	483.2	28.37	71.63	28400	31100	33100	RM 68.38	5310	7875
Cochin	211.3	12x0.1327	7x0.1327	0.2628	0.1660	0.663	526.8	199.0	327.8	37.78	62.22	20700	22600	24000	NR 48.28	3175	6020

(1) Code words shown denote ACSR with regular-strength Class A Galvanized steel core (/GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may be slightly greater or slightly less than the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSR Bare Overhead Conductor

Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded

ACSR, ALUMINUM CONDUCTOR, STEEL-REINFORCED, CONCENTRIC-LAY-STRANDED (ELECTRICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT			AMPACITY 75°C (5)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
		AL.	STEEL	TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C				
Diver	1272.0	48x0.1628	7x0.1266	1.0873	0.9992	1.357	0.0135	0.0144	0.0175	1170	0.0450	0.0713	0.4500
Pheasant	1272.0	54x0.1535	19x0.0921	1.1259	0.9993	1.381	0.0135	0.0143	0.0175	1180	0.0464	0.0706	0.4471
Ringdove	1351.5	42x0.1794	7x0.0997	1.1163	1.0617	1.376	0.0128	0.0137	0.0167	1205	0.0451	0.0712	0.4478
Dipper	1351.5	45x0.1733	7x0.1155	1.1348	1.0614	1.386	0.0127	0.0137	0.0166	1210	0.0457	0.0709	0.4466
-none-	1351.5	48x0.1678	7x0.1305	1.1551	1.0614	1.398	0.0127	0.0136	0.0165	1215	0.0464	0.0706	0.4452
Martin	1351.5	54x0.1582	19x0.0949	1.1958	1.0614	1.424	0.0127	0.0135	0.0165	1225	0.0478	0.0699	0.4424
Popinjay	1431.0	42x0.1846	7x0.1026	1.1820	1.1241	1.415	0.0121	0.0131	0.0158	1245	0.0464	0.0706	0.4434
Bobolink	1431.0	45x0.1783	7x0.1189	1.2013	1.1236	1.426	0.0120	0.0130	0.0157	1255	0.0470	0.0703	0.4421
Wagtail	1431.0	48x0.1727	7x0.1343	1.2235	1.1244	1.439	0.0120	0.0129	0.0157	1260	0.0477	0.0699	0.4408
Plover	1431.0	54x0.1628	19x0.0977	1.2665	1.1241	1.465	0.0120	0.0128	0.0156	1270	0.0492	0.0692	0.4379
Nuthatch	1510.5	45x0.1832	7x0.1221	1.2682	1.1862	1.466	0.0114	0.0124	0.0150	1295	0.0483	0.0696	0.4379
Parrot	1510.5	54x0.1672	19x0.1003	1.3358	1.1856	1.505	0.0114	0.0122	0.0148	1310	0.0505	0.0686	0.4337
Ratite	1590.0	42x0.1946	7x0.1081	1.3134	1.2492	1.492	0.0108	0.0119	0.0143	1330	0.0489	0.0694	0.4351
Lapwing	1590.0	45x0.1880	7x0.1253	1.3355	1.2492	1.504	0.0108	0.0118	0.0143	1335	0.0496	0.0690	0.4338
Hornbill	1590.0	48x0.1820	7x0.1416	1.3590	1.2487	1.517	0.0108	0.0117	0.0142	1340	0.0503	0.0687	0.4325
Falcon	1590.0	54x0.1716	19x0.1030	1.4072	1.2489	1.545	0.0108	0.0117	0.0141	1350	0.0518	0.0680	0.4297
Chukar	1780.0	84x0.1456	19x0.0874	1.5126	1.3986	1.602	0.00970	0.0106	0.0125	1450	0.0532	0.0674	0.4240
Seahawk	1869.0	68x0.1658	7x0.0921	1.5148	1.4681	1.603	0.00930	0.0104	0.0122	1470	0.0523	0.0678	0.4239
Mockingbird	2034.5	72x0.1681	7x0.1121	1.6670	1.5979	1.681	0.00853	0.00965	0.0112	1550	0.0551	0.0666	0.4164
Roadrunner	2057.5	76x0.1645	19x0.0768	1.7033	1.6152	1.700	0.00842	0.00950	0.0111	1565	0.0560	0.0662	0.4146
Bluebird	2156.0	84x0.1602	19x0.0961	1.8310	1.6931	1.762	0.00801	0.00903	0.0105	1620	0.0586	0.0652	0.4090
Kiwi	2167.0	72x0.1735	7x0.1157	1.7758	1.7022	1.735	0.00801	0.00917	0.0106	1605	0.0569	0.0659	0.4115
Thrasher	2312.0	76x0.1744	19x0.0814	1.9144	1.8155	1.802	0.00749	0.00865	0.0100	1670	0.0594	0.0649	0.4055
Joree	2515.0	76x0.1819	19x0.0849	2.0826	1.9750	1.880	0.00689	0.00810	0.00935	1750	0.0619	0.0639	0.3989

ACSR, ALUMINUM CONDUCTOR, STEEL-REINFORCED, CONCENTRIC-LAY-STRANDED-HIGH-STRENGTH STRANDING (ELECTRICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT			AMPACITY 75°C (5)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
		AL.	STEEL	TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C				
Grouse	80.0	8x0.1000	1x0.1670	0.0847	0.0628	0.367	0.206	0.211	0.291	205	0.0122	0.1284	0.6548
Petrel	101.8	12x0.0921	7x0.0921	0.1266	0.0799	0.461	0.158	0.161	0.239	240	0.0163	0.1276	0.6192
Minorca	110.8	12x0.0961	7x0.0961	0.1378	0.0870	0.480	0.145	0.148	0.223	250	0.0170	0.1256	0.6125
Leghorn	134.6	12x0.1059	7x0.1059	0.1674	0.1057	0.530	0.120	0.122	0.189	280	0.0187	0.1213	0.5973
Guinea	159.0	12x0.1151	7x0.1151	0.1977	0.1249	0.576	0.101	0.103	0.165	305	0.0203	0.1179	0.5843
Dotterel	176.9	12x0.1214	7x0.1214	0.2199	0.1389	0.607	0.0911	0.0926	0.151	325	0.0214	0.1158	0.5759
Dorking	190.8	12x0.1261	7x0.1261	0.2373	0.1499	0.630	0.0845	0.0858	0.142	340	0.0223	0.1149	0.5700
Brahma	203.2	16x0.1127	19x0.0977	0.3020	0.1596	0.714	0.0764	0.0777	0.132	360	0.0260	0.1110	0.5505
Cochin	211.3	12x0.1327	7x0.1327	0.2628	0.1660	0.663	0.0763	0.0775	0.130	360	0.0234	0.1121	0.5620

(1) Code words shown denote ACSR with regular-strength Class A Galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(4) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

(5) Based on a conductor temperature of 75°C at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.

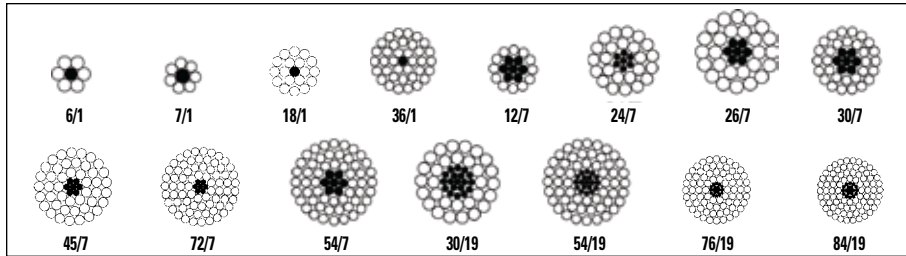


General Cable

Notes

TransPowr® ACSR/AW Bare Overhead Conductor

Aluminum Conductor Aluminum-Clad Steel-Reinforced Concentric-Lay-Stranded



Product Construction:

Complete Conductor:

ACSR/AW is a composite concentric-lay-stranded conductor. ACSR/AW conductors are manufactured in accordance with the requirements of the latest applicable issues of ASTM specification B549. Aluminum-clad steel strands form the central core of the conductor, around which is stranded one or more layers of aluminum 1350-H19 wires. The aluminum-clad steel core may consist of a single strand or a concentric stranded conductor of 7, 19, 37 or more wires. Numerous combinations of aluminum and steel strands and layers are possible. The sizes and strandings listed on the following pages are those most frequently used for overhead lines.

Features and Benefits:

The AW core, which consists of a thick layer of aluminum (approx. 10 percent of the nominal wire radius) over steel, gives ACSR/AW conductors the advantage of the light weight and good conductivity of aluminum with the high tensile strength and ruggedness of steel. The cross-sections above illustrate some common strandings.

Applications:

Aluminum conductors reinforced with aluminum-clad steel wire (ACSR/AW) are used for overhead distribution and transmission lines where a high degree of corrosion resistance is needed. It should also be considered for use in locations where air pollution exists, such as along the coast or in highly industrialized areas.

Options:

- Compact aluminum strands (ASTM B401)
- High-conductivity aluminum (/HC) (62.0% IACS)
- Trapezoidal-shaped aluminum strands (/TW)
- Non-specular surface finish (/NS)

For other conductor sizes, designs and/or specific installation requirements not shown in the tables, contact your General Cable sales representative or e-mail info@generalcable.com.

TransPowr® ACSR/AW Bare Overhead Conductor

Aluminum Conductor Aluminum-Clad Steel-Reinforced Concentric-Lay-Stranded

ACSR/AW, ALUMINUM CONDUCTOR, ALUMINUM-CLAD, STEEL-REINFORCED, CONCENTRIC-LAY-STRANDED (MECHANICAL PROPERTIES)															
CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS	STANDARD PACKAGES (3)		
		AL.	STEEL	TOTAL	AL.		TOTAL	AL.	STEEL	AL.	STEEL		REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Swan/AW	4	6x0.0834	1x0.0834	0.0382	0.0328	0.250	54.5	38.9	15.6	71.38	28.62	1780	NR 36.22	845	15420
Swanate/AW	4	7x0.0772	1x0.1029	0.0411	0.0328	0.257	62.7	38.9	23.8	62.10	37.90	2280	NR 38.22	1120	17910
													NR 30.22	560	8955
Sparrow/AW	2	6x0.1052	1x0.1052	0.0608	0.0522	0.316	86.7	61.9	24.8	71.36	28.64	2760	NR 42.28	1685	19390
													NR 36.22	840	9695
													NR 30.22	560	6465
Sparate/AW	2	7x0.0974	1x0.1299	0.0654	0.0521	0.325	99.8	61.9	37.9	62.04	37.96	3510	NR 38.22	1125	11250
													NR 30.22	560	5625
Robin/AW	1	6x0.1181	1x0.1181	0.0767	0.0657	0.354	109.4	78.1	31.3	71.38	28.62	3450	NR 42.28	1680	15360
													NR 36.22	840	7680
													NR 30.22	560	5120
Raven/AW	1/0	6x0.1327	1x0.1327	0.0968	0.0830	0.398	138.0	98.5	39.5	71.37	28.63	4250	NR 42.28	1680	12190
													NR 36.22	840	6095
													NR 30.22	560	4060
Quail/AW	2/0	6x0.1489	1x0.1489	0.1219	0.1045	0.447	173.9	124.1	49.8	71.39	28.61	5130	NR 42.28	1680	9670
													NR 36.22	840	4835
													NR 30.22	560	3220
Pigeon/AW	3/0	6x0.1672	1x0.1672	0.1537	0.1317	0.502	219.2	156.5	62.7	71.39	28.61	6300	NR 42.28	1680	7670
													NR 36.22	840	3835
													NR 30.22	560	2560
Penguin/AW	4/0	6x0.1878	1x0.1878	0.1939	0.1662	0.563	276.5	197.4	79.1	71.38	28.62	7690	NR 42.28	1680	6080
													NR 36.22	840	3040
													NR 30.22	560	2025
Waxwing/AW	266.8	18x0.1217	1x0.1217	0.2210	0.2097	0.609	283	250	33	88.27	11.73	6830	RM 68.38	4065	14360
													NR 66.28	4065	14360
													NR 48.28	2030	7180
Spoonbill/AW	266.8	22x0.1101	7x0.0612	0.2300	0.2095	0.624	310	251	59	80.97	19.03	8430	RM 68.38	2715	8755
													NR 66.28	2715	8755
													NR 48.28	1810	5835
Scaup/AW	266.8	24x0.1054	7x0.0703	0.2366	0.2095	0.633	329	251	78	76.33	23.67	9630	RM 68.38	3135	9520
													NR 66.28	3135	9520
													NR 48.28	2090	6350
Partridge/AW	266.8	26x0.1013	7x0.0788	0.2437	0.2096	0.642	349	251	98	71.96	28.04	10800	NR 60.28	3605	10330
Junco/AW	266.8	30x0.0943	7x0.0943	0.2584	0.2095	0.660	392	252	140	64.24	35.76	13500	RM 68.38	4660	11890
													NR 66.28	4660	11890
													NR 60.28	3600	9190
Ostrich/AW	300.0	26x0.1074	7x0.0835	0.2739	0.2355	0.680	393	283	110	71.99	28.01	12100	NR 60.28	3605	9190
Merlin/AW	336.4	18x0.1367	1x0.1367	0.2789	0.2642	0.684	357	315	42	88.26	11.74	8540	RM 68.38	4070	11390
													NR 66.28	4070	11390
													NR 48.28	2035	5695
Trogon/AW	336.4	20x0.1297	7x0.0576	0.2825	0.2642	0.692	369	317	52	85.83	14.17	9210	RM 68.38	4655	12610
													NR 60.28	2325	6305
Woodcock/AW	336.4	22x0.1237	7x0.0687	0.2903	0.2644	0.701	391	317	74	80.98	19.02	10500	RMT 84.36	5430	13880
													NR 60.28	2715	6940
Widgeon/AW	336.4	24x0.1184	7x0.0789	0.2985	0.2642	0.710	415	317	98	76.34	23.66	12000	RMT 84.36	6280	15130
													NR 60.28	3140	7565
Linnet/AW	336.4	26x0.1137	7x0.0884	0.3070	0.2640	0.720	440	317	123	72.00	28.00	13500	RMT 84.36	7210	16390
													NR 60.28	3605	8195
Oriole/AW	336.4	30x0.1059	7x0.1059	0.3259	0.2642	0.741	494	318	177	64.23	35.77	16700	RM 68.38	4665	9430
													NR 66.28	4665	9430
Chickadee/AW	397.5	18x0.1486	1x0.1486	0.3295	0.3122	0.743	422	373	50	88.26	11.74	9780	RM 68.38	4065	9630
													NR 66.28	4065	9630
													NR 48.28	2030	4815
Ptarmigan/AW	397.5	20x0.1410	7x0.0627	0.3339	0.3123	0.752	436	374	62	85.79	14.21	10700	RM 68.38	4655	10670
													NR 60.28	2330	5335
Stork/AW	397.5	22x0.1344	7x0.0747	0.3428	0.3121	0.762	462	374	88	80.97	19.03	12400	RMT 84.36	5425	11730
													NR 60.28	2710	5865
Brant/AW	397.5	24x0.1287	7x0.0858	0.3527	0.3122	0.772	491	374	116	76.33	23.67	14100	RMT 84.36	6275	12790
													NR 60.28	3135	6395

(1) Code words shown, including suffix /AW, denote ACSR with aluminum-clad steel core. See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may not exactly equal the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSR/AW Bare Overhead Conductor

Aluminum Conductor Aluminum-Clad Steel-Reinforced Concentric-Lay-Stranded

ACSR/AW, ALUMINUM CONDUCTOR, ALUMINUM-CLAD, STEEL-REINFORCED-CONCENTRIC-LAY-STRANDED (ELECTRICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT			AMPACITY 75°C (5)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
		AL.	STEEL	TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C				
Swan/AW	4	6x0.0834	1x0.0834	0.0382	0.0328	0.250	0.390	0.398	0.507	140	0.0079	0.1376	0.7147
Swanate/AW	4	7x0.0772	1x0.1029	0.0411	0.0328	0.257	0.380	0.388	0.505	140	0.0083	0.1416	0.7103
Sparrow/AW	2	6x0.1052	1x0.1052	0.0608	0.0522	0.316	0.245	0.250	0.327	185	0.0099	0.1276	0.6784
Sparate/AW	2	7x0.0974	1x0.1299	0.0654	0.0521	0.325	0.239	0.244	0.327	175	0.0104	0.1293	0.6740
Robin/AW	1	6x0.1181	1x0.1181	0.0767	0.0657	0.354	0.195	0.200	0.264	215	0.0112	0.1229	0.6602
Raven/AW	1/0	6x0.1327	1x0.1327	0.0968	0.0830	0.398	0.154	0.157	0.211	245	0.0125	0.1181	0.6420
Quail/AW	2/0	6x0.1489	1x0.1489	0.1219	0.1045	0.447	0.122	0.125	0.172	280	0.0141	0.1136	0.6239
Pigeon/AW	3/0	6x0.1672	1x0.1672	0.1537	0.1317	0.502	0.0971	0.0991	0.139	320	0.0158	0.1095	0.6058
Penguin/AW	4/0	6x0.1878	1x0.1878	0.1939	0.1662	0.563	0.0770	0.0786	0.112	370	0.0177	0.1057	0.5876
Waxwing/AW	266.8	18x0.1217	1x0.1217	0.2210	0.2097	0.609	0.0636	0.0650	0.0778	450	0.0195	0.0904	0.5755
Spoonbill/AW	266.8	22x0.1101	7x0.0612	0.2300	0.2095	0.624	0.0630	0.0644	0.0771	455	0.0204	0.0894	0.5716
Scaup/AW	266.8	24x0.1054	7x0.0703	0.2366	0.2095	0.633	0.0624	0.0637	0.0762	460	0.0209	0.0889	0.5694
Partridge/AW	266.8	26x0.1013	7x0.0788	0.2437	0.2096	0.642	0.0617	0.0630	0.0754	465	0.0213	0.0884	0.5672
Junco/AW	266.8	30x0.0943	7x0.0943	0.2584	0.2095	0.660	0.0605	0.0618	0.0739	475	0.0222	0.0875	0.5628
Ostrich/AW	300.0	26x0.1074	7x0.0835	0.2739	0.2355	0.680	0.0549	0.0561	0.0671	500	0.0226	0.0871	0.5581
Merlin/AW	336.4	18x0.1367	1x0.1367	0.2789	0.2642	0.684	0.0504	0.0516	0.0618	520	0.0219	0.0878	0.5573
Trogon/AW	336.4	20x0.1297	7x0.0576	0.2825	0.2642	0.692	0.0505	0.0516	0.0618	525	0.0224	0.0873	0.5555
Woodcock/AW	336.4	22x0.1237	7x0.0687	0.2903	0.2644	0.701	0.0500	0.0511	0.0612	530	0.0229	0.0867	0.5534
Widgeon/AW	336.4	24x0.1184	7x0.0789	0.2985	0.2642	0.710	0.0495	0.0506	0.0605	530	0.0234	0.0863	0.5513
Linnet/AW	336.4	26x0.1137	7x0.0884	0.3070	0.2640	0.720	0.0489	0.0500	0.0598	535	0.0240	0.0858	0.5491
Oriole/AW	336.4	30x0.1059	7x0.1059	0.3259	0.2642	0.741	0.0480	0.0490	0.0586	545	0.0250	0.0848	0.5446
Chickadee/AW	397.5	18x0.1486	1x0.1486	0.3295	0.3122	0.743	0.0427	0.0437	0.0523	580	0.0239	0.0859	0.5443
Ptarmigan/AW	397.5	20x0.1410	7x0.0627	0.3339	0.3123	0.752	0.0427	0.0437	0.0523	580	0.0244	0.0853	0.5424
Stork/AW	397.5	22x0.1344	7x0.0747	0.3428	0.3121	0.762	0.0423	0.0433	0.0518	585	0.0249	0.0848	0.5404
Brant/AW	397.5	24x0.1287	7x0.0858	0.3527	0.3122	0.772	0.0419	0.0429	0.0512	590	0.0255	0.0843	0.5382

(1) Code words shown, including suffix /AW, denote ACSR with aluminum-clad steel core. See the Options section to find the appropriate code word modifier designation for alternative design options.

(4) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

(5) Based on a conductor temperature of 75°C at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/R² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.

TransPowr® ACSR/AW Bare Overhead Conductor

Aluminum Conductor Aluminum-Clad Steel-Reinforced Concentric-Lay-Stranded

ACSR/AW, ALUMINUM CONDUCTOR, ALUMINUM-CLAD, STEEL-REINFORCED, CONCENTRIC-LAY-STRANDED (MECHANICAL PROPERTIES)															
CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS	STANDARD PACKAGES (3)		
		AL.	STEEL	TOTAL	AL.		TOTAL	AL.	STEEL	AL.	STEEL		REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Ibis/AW	397.5	26x0.1236	7x0.0961	0.3627	0.3120	0.783	520	374	146	71.99	28.01	15800	RMT 84.36 NR 60.28	7210 3605	13870 6935
Lark/AW	397.5	30x0.1151	7x0.1151	0.3850	0.3121	0.806	584	375	209	64.24	35.76	19600	RM 68.38 NR 66.28	4660 4660	7980 7980
Pelican/AW	477.0	18x0.1628	1x0.1628	0.3955	0.3747	0.814	507	447	59	88.26	11.74	11500	RM 68.38 NR 66.28 NR 48.28	4070 4070 2035	8030 8030 4015
Tailorbird/AW	477.0	20x0.1544	7x0.0686	0.4003	0.3746	0.824	523	449	74	85.82	14.18	12700	RM 68.38 NR 60.28	4660 2330	8900 4450
Toucan/AW	477.0	22x0.1472	7x0.0818	0.4112	0.3744	0.834	555	449	106	80.98	19.02	14700	RMT 84.36 NR 60.28	5430 2715	9790 4895
Flicker/AW	477.0	24x0.1410	7x0.0940	0.4233	0.3747	0.846	589	449	139	76.33	23.67	16700	RMT 84.36 NR 60.28	6275 3140	10660 5330
Hawk/AW	477.0	26x0.1354	7x0.1053	0.4353	0.3744	0.858	624	449	175	71.98	28.02	18900	RMT 84.36 NR 60.28	7215 3605	11560 5780
Hen/AW	477.0	30x0.1261	7x0.1261	0.4621	0.3747	0.883	701	450	251	64.23	35.77	23400	RM 68.38 NR 66.28	4665 4665	6650 6650
Heron/AW	500.0	30x0.1291	7x0.1291	0.4843	0.3927	0.904	735	472	263	64.23	35.77	24100	RM 68.38	4665	6345
Osprey/AW	556.5	18x0.1758	1x0.1758	0.4612	0.4369	0.879	591	522	69	88.26	11.74	13200	RM 68.38 NR 66.28 NR 48.28	4070 4070 2035	6890 6890 3445
Tody/AW	556.5	20x0.1668	7x0.0741	0.4672	0.4370	0.890	611	524	87	85.82	14.18	14800	RM 68.38 NR 60.28	4655 2325	7620 3810
Sapsucker/AW	556.5	22x0.1590	7x0.0883	0.4797	0.4368	0.901	647	524	123	81.00	19.00	17000	RMT 84.36 NR 60.28	5425 2715	8390 4195
Parakeet/AW	556.5	24x0.1523	7x0.1015	0.4939	0.4372	0.914	687	524	162	76.34	23.66	19300	RMT 84.36 NR 60.28	6275 3140	9140 4570
Dove/AW	556.5	26x0.1463	7x0.1138	0.5083	0.4371	0.927	728	524	204	71.96	28.04	21900	RMT 84.36 NR 60.28	7220 3610	9910 4955
Eagle/AW	556.5	30x0.1362	7x0.1362	0.5391	0.4371	0.953	818	525	293	64.23	35.77	26800	RM 68.38 NR 66.28	4665 4665	5700 5700
Peacock/AW	605.0	24x0.1588	7x0.1059	0.5370	0.4753	0.953	747	570	177	76.31	23.69	21000	RMT 84.36 NR 60.28	6280 3140	8410 4205
Squab/AW	605.0	26x0.1525	7x0.1186	0.5522	0.4749	0.966	792	570	222	71.98	28.02	23600	RMT 84.36 NR 60.28	7210 3605	9110 4555
Wood Duck/AW	605.0	30x0.1420	7x0.1420	0.5860	0.4751	0.994	889	571	318	64.24	35.76	28400	RM 68.38 NR 66.28	4665 4665	5245 5245
Teal/AW	605.0	30x0.1420	19x0.0852	0.5834	0.4751	0.994	883	571	311	64.72	35.28	28500	RMT 84.48 RM 68.38 NR 66.28	9255 4630 4630	10490 5245 5245
Swift/AW	636.0	36x0.1329	1x0.1329	0.5133	0.4994	0.930	636	596	40	93.77	6.23	13600	RMT 96.60 RMT 84.45 RM 68.38 NR 66.28	11500 7660 3830 3830	18090 12050 6025 6025
Kingbird/AW	636.0	18x0.1880	1x0.1880	0.5274	0.4997	0.940	675	596	79	88.26	11.74	15000	RMT 84.36 RM 68.38 NR 66.28 NR 48.28	6120 4070 4070 2035	9060 6020 6020 3010
Turacos/AW	636.0	20x0.1783	7x0.0792	0.5339	0.4994	0.951	698	599	99	85.83	14.17	16900	RMT 84.36 RM 68.38 NR 60.28	6980 4655 2325	10000 6670 3335
Goldfinch/AW	636.0	22x0.1700	7x0.0944	0.5483	0.4994	0.963	740	599	141	81.00	19.00	19400	RMT 84.45 RMT 84.36 NR 60.28	8140 5430 2715	11010 7340 3670
Rook/AW	636.0	24x0.1628	7x0.1085	0.5643	0.4996	0.977	785	599	186	76.34	23.66	22000	RMT 84.45 RMT 84.36 NR 60.28	9415 6280 3140	12000 8000 4000
Grosbeak/AW	636.0	26x0.1564	7x0.1216	0.5808	0.4995	0.990	832	599	233	71.98	28.02	24800	RMT 90.45 RMT 84.36 NR 60.28	10830 7215 3610	13010 8670 4335

(1) Code words shown, including suffix /AW, denote ACSR with aluminum-clad steel core. See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may not exactly equal than the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSR/AW Bare Overhead Conductor

Aluminum Conductor Aluminum-Clad Steel-Reinforced Concentric-Lay-Stranded

ACSR/AW, ALUMINUM CONDUCTOR, ALUMINUM-CLAD, STEEL-REINFORCED, CONCENTRIC-LAY-STRANDED (ELECTRICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT			AMPACITY 75°C (5)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
		AL.	STEEL	TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C				
Ibis/AW	397.5	26x0.1236	7x0.0961	0.3627	0.3120	0.783	0.0414	0.0424	0.0507	595	0.0260	0.0838	0.5360
Lark/AW	397.5	30x0.1151	7x0.1151	0.3850	0.3121	0.806	0.0406	0.0415	0.0496	605	0.0271	0.0829	0.5316
Pelican/AW	477.0	18x0.1628	1x0.1628	0.3955	0.3747	0.814	0.0356	0.0365	0.0437	650	0.0261	0.0838	0.5300
Tailorbird/AW	477.0	20x0.1544	7x0.0686	0.4003	0.3746	0.824	0.0356	0.0365	0.0437	650	0.0267	0.0832	0.5281
Toucan/AW	477.0	22x0.1472	7x0.0818	0.4112	0.3744	0.834	0.0352	0.0362	0.0432	655	0.0273	0.0827	0.5261
Flicker/AW	477.0	24x0.1410	7x0.0940	0.4233	0.3747	0.846	0.0349	0.0358	0.0427	665	0.0279	0.0822	0.5240
Hawk/AW	477.0	26x0.1354	7x0.1053	0.4353	0.3744	0.858	0.0345	0.0354	0.0423	670	0.0285	0.0817	0.5218
Hen/AW	477.0	30x0.1261	7x0.1261	0.4621	0.3747	0.883	0.0338	0.0346	0.0414	680	0.0297	0.0808	0.5173
Heron/AW	500.0	30x0.1291	7x0.1291	0.4843	0.3927	0.904	0.0323	0.0331	0.0395	700	0.0304	0.0802	0.5136
Osprey/AW	556.5	18x0.1758	1x0.1758	0.4612	0.4369	0.879	0.0305	0.0314	0.0375	715	0.0282	0.0820	0.5179
Tody/AW	556.5	20x0.1668	7x0.0741	0.4672	0.4370	0.890	0.0305	0.0314	0.0375	715	0.0289	0.0815	0.5161
Sapsucker/AW	556.5	22x0.1590	7x0.0883	0.4797	0.4368	0.901	0.0302	0.0310	0.0371	725	0.0295	0.0810	0.5140
Parakeet/AW	556.5	24x0.1523	7x0.1015	0.4939	0.4372	0.914	0.0299	0.0307	0.0367	730	0.0302	0.0805	0.5119
Dove/AW	556.5	26x0.1463	7x0.1138	0.5083	0.4371	0.927	0.0296	0.0304	0.0363	735	0.0308	0.0800	0.5097
Eagle/AW	556.5	30x0.1362	7x0.1362	0.5391	0.4371	0.953	0.0290	0.0297	0.0355	750	0.0321	0.0790	0.5052
Peacock/AW	605.0	24x0.1588	7x0.1059	0.5370	0.4753	0.953	0.0275	0.0283	0.0338	770	0.0314	0.0795	0.5053
Squab/AW	605.0	26x0.1525	7x0.1186	0.5522	0.4749	0.966	0.0272	0.0280	0.0334	775	0.0321	0.0790	0.5031
Wood Duck/AW	605.0	30x0.1420	7x0.1420	0.5860	0.4751	0.994	0.0267	0.0274	0.0327	790	0.0335	0.0781	0.4987
Teal/AW	605.0	30x0.1420	19x0.0852	0.5834	0.4751	0.994	0.0267	0.0274	0.0328	790	0.0335	0.0780	0.4987
Swift/AW	636.0	36x0.1329	1x0.1329	0.5133	0.4994	0.930	0.0269	0.0280	0.0347	755	0.0300	0.0806	0.5090
Kingbird/AW	636.0	18x0.1880	1x0.1880	0.5274	0.4997	0.940	0.0267	0.0275	0.0329	775	0.0302	0.0804	0.5075
Turacos/AW	636.0	20x0.1783	7x0.0792	0.5339	0.4994	0.951	0.0267	0.0275	0.0328	780	0.0309	0.0799	0.5056
Goldfinch/AW	636.0	22x0.1700	7x0.0944	0.5483	0.4994	0.963	0.0264	0.0272	0.0325	785	0.0315	0.0794	0.5036
Rook/AW	636.0	24x0.1628	7x0.1085	0.5643	0.4996	0.977	0.0262	0.0269	0.0322	795	0.0322	0.0789	0.5014
Grosbeak/AW	636.0	26x0.1564	7x0.1216	0.5808	0.4995	0.990	0.0259	0.0266	0.0318	800	0.0329	0.0784	0.4992

(1) Code words shown, including suffix /AW, denote ACSR with aluminum-clad steel core. See the Options section to find the appropriate code word modifier designation for alternative design options.

(4) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

(5) Based on a conductor temperature of 75°C at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.



General Cable

TransPowr® ACSR/AW Bare Overhead Conductor

Aluminum Conductor Aluminum-Clad Steel-Reinforced Concentric-Lay-Stranded

ACSR/AW, ALUMINUM CONDUCTOR, ALUMINUM-CLAD, STEEL-REINFORCED, CONCENTRIC-LAY-STRANDED (MECHANICAL PROPERTIES)															
CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS	STANDARD PACKAGES (3)		
		AL.	STEEL	TOTAL	AL.		TOTAL	AL.	STEEL	AL.	STEEL		REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Scoter/AW	636.0	30x0.1456	7x0.1456	0.6160	0.4995	1.019	935	601	334	64.24	35.76	29300	RMT 96.60 RM 68.38	14040 4680	15020 5005
Egret/AW	636.0	30x0.1456	19x0.0874	0.6135	0.4995	1.019	928	601	328	64.70	35.30	29900	RMT 96.60 RMT 84.45 RM 68.38 NR 66.28	13885 9265 4630 4630	14960 9980 4990 4990
Flamingo/AW	666.6	24x0.1667	7x0.1111	0.5917	0.5238	1.000	823	628	195	76.33	23.67	23100	RMT 84.45 RMT 84.36 NR 60.28	9430 6280 3140	11460 7630 3815
Gannet/AW	666.6	26x0.1601	7x0.1245	0.6086	0.5234	1.014	872	628	244	71.98	28.02	26000	RMT 90.45 RMT 84.36 NR 60.28	10825 7220 3610	12410 8280 4140
Stilt/AW	715.5	24x0.1727	7x0.1151	0.6350	0.5622	1.036	883	674	209	76.33	23.67	24800	RMT 84.45 RMT 84.36 NR 60.28	9415 6270 3135	10660 7100 3550
Starling/AW	715.5	26x0.1659	7x0.1290	0.6535	0.5620	1.051	936	674	262	71.97	28.03	27500	RMT 90.45 RMT 84.36 NR 60.28	10815 7220 3610	11550 7710 3855
Redwing/AW	715.5	30x0.1544	19x0.0926	0.6897	0.5617	1.081	1043	676	368	64.75	35.25	33400	RMT 96.60 RMT 84.45 RM 68.38 NR 66.28	13875 9265 4630 4630	13300 8880 4440 4440
Coot/AW	795.0	36x0.1486	1x0.1486	0.6417	0.6244	1.040	795	745	50	93.76	6.24	16600	RMT 96.60 RMT 84.45 NR 66.28	11500 7660 3830	14470 9640 4820
Macaw/AW	795.0	42x0.1376	7x0.0764	0.6567	0.6246	1.055	841	749	92	89.05	10.95	19600	RMT 90.45 RM 68.38 NR 60.28	9420 4710 3135	11200 5600 3730
Turbit/AW	795.0	20x0.1994	7x0.0886	0.6677	0.6246	1.063	873	749	124	85.81	14.19	21200	RMT 84.36 RM 68.38 NR 60.28	6985 4655 2325	8000 5330 2665
Tern/AW	795.0	45x0.1329	7x0.0886	0.6674	0.6242	1.063	873	749	124	85.81	14.19	21500	RMT 96.60 RMT 90.45 RM 68.38 NR 60.28	15705 10470 5235 3490	18000 12000 6000 4000
Puffin/AW	795.0	22x0.1901	7x0.1056	0.6857	0.6244	1.077	925	749	176	80.98	19.02	24200	RMT 84.45 RMT 84.36 NR 60.28	8135 5430 2715	8800 5870 2935
Cuckoo/AW	795.0	24x0.1820	7x0.1213	0.7053	0.6244	1.092	981	749	232	76.34	23.66	27500	RMT 84.45 RMT 84.36 NR 60.28	9425 6280 3140	9610 6400 3200
Condor/AW	795.0	54x0.1213	7x0.1213	0.7049	0.6240	1.092	981	749	232	76.34	23.66	27800	RMT 96.60 RMT 90.45	18355 10590	18720 10800
Drake/AW	795.0	26x0.1749	7x0.1360	0.7263	0.6246	1.107	1041	749	292	71.97	28.03	30500	RMT 90.45 RMT 84.36 NR 60.28	10825 7225 3610	10400 6940 3470
Mallard/AW	795.0	30x0.1628	19x0.0977	0.7669	0.6245	1.140	1160	751	409	64.71	35.29	37100	RMT 96.60 RMT 84.45 RM 68.38	13885 9255 4630	11970 7980 3990
Ruddy/AW	900.0	45x0.1414	7x0.0943	0.7555	0.7066	1.131	988	848	140	85.80	14.20	24000	RMT 96.60 RMT 90.45 RM 68.38 NR 60.28	15695 10460 5230 3485	15890 10590 5295 3530
Canary/AW	900.0	54x0.1291	7x0.1291	0.7985	0.7069	1.162	1111	848	263	76.33	23.67	31000	RMT 96.60 RMT 90.45	18370 10595	16540 9540
Catbird/AW	954.0	36x0.1628	1x0.1628	0.7702	0.7494	1.140	954	894	59	93.76	6.24	19500	RMT 96.60 RMT 84.45	11500 7660	12060 8030
Phoenix/AW	954.0	42x0.1507	7x0.0837	0.7877	0.7491	1.155	1009	899	110	89.05	10.95	22800	RMT 90.45 RM 68.38	9420 4710	9340 4670
Corncrake/AW	954.0	20x0.2184	7x0.0971	0.8011	0.7492	1.165	1047	899	149	85.80	14.20	25100	RMT 84.36 RM 68.38	6985 4660	6670 4450

(1) Code words shown, including suffix /AW, denote ACSR with aluminum-clad steel core. See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may not exactly equal the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSR/AW Bare Overhead Conductor

Aluminum Conductor Aluminum-Clad Steel-Reinforced Concentric-Lay-Stranded

ACSR/AW, ALUMINUM CONDUCTOR, ALUMINUM-CLAD, STEEL-REINFORCED, CONCENTRIC-LAY-STRANDED (ELECTRICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT			AMPACITY 75°C (5)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
		AL.	STEEL	TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C				
Scoter/AW	636.0	30x0.1456	7x0.1456	0.6160	0.4995	1.019	0.0254	0.0261	0.0311	815	0.0343	0.0775	0.4948
Egret/AW	636.0	30x0.1456	19x0.0874	0.6135	0.4995	1.019	0.0254	0.0261	0.0312	815	0.0344	0.0775	0.4947
Flamingo/AW	666.6	24x0.1667	7x0.1111	0.5917	0.5238	1.000	0.0250	0.0257	0.0307	815	0.0330	0.0784	0.4977
Gannet/AW	666.6	26x0.1601	7x0.1245	0.6086	0.5234	1.014	0.0247	0.0254	0.0303	825	0.0337	0.0779	0.4956
Stilt/AW	715.5	24x0.1727	7x0.1151	0.6350	0.5622	1.036	0.0233	0.0240	0.0286	855	0.0342	0.0776	0.4922
Starling/AW	715.5	26x0.1659	7x0.1290	0.6535	0.5620	1.051	0.0230	0.0237	0.0283	860	0.0349	0.0771	0.4900
Redwing/AW	715.5	30x0.1544	19x0.0926	0.6897	0.5617	1.081	0.0226	0.0233	0.0277	875	0.0364	0.0761	0.4856
Coot/AW	795.0	36x0.1486	1x0.1486	0.6417	0.6244	1.040	0.0215	0.0226	0.0278	870	0.0336	0.0780	0.4916
Macaw/AW	795.0	42x0.1376	7x0.0764	0.6567	0.6246	1.055	0.0215	0.0224	0.0277	875	0.0344	0.0774	0.4894
Turbit/AW	795.0	20x0.1994	7x0.0886	0.6677	0.6246	1.063	0.0213	0.0221	0.0264	895	0.0345	0.0774	0.4881
Tern/AW	795.0	45x0.1329	7x0.0886	0.6674	0.6242	1.063	0.0213	0.0223	0.0275	880	0.0349	0.0771	0.4881
Puffin/AW	795.0	22x0.1901	7x0.1056	0.6857	0.6244	1.077	0.0211	0.0219	0.0261	905	0.0353	0.0769	0.4861
Cuckoo/AW	795.0	24x0.1820	7x0.1213	0.7053	0.6244	1.092	0.0209	0.0217	0.0258	910	0.0360	0.0764	0.4840
Condor/AW	795.0	54x0.1213	7x0.1213	0.7049	0.6240	1.092	0.0209	0.0218	0.0269	895	0.0363	0.0762	0.4840
Drake/AW	795.0	26x0.1749	7x0.1360	0.7263	0.6246	1.107	0.0207	0.0214	0.0255	920	0.0368	0.0759	0.4818
Mallard/AW	795.0	30x0.1628	19x0.0977	0.7669	0.6245	1.140	0.0203	0.0210	0.0250	935	0.0384	0.0749	0.4773
Ruddy/AW	900.0	45x0.1414	7x0.0943	0.7555	0.7066	1.131	0.0189	0.0198	0.0243	950	0.0371	0.0757	0.4784
Canary/AW	900.0	54x0.1291	7x0.1291	0.7985	0.7069	1.162	0.0185	0.0193	0.0238	965	0.0386	0.0748	0.4742
Catbird/AW	954.0	36x0.1628	1x0.1628	0.7702	0.7494	1.140	0.0179	0.0190	0.0232	970	0.0368	0.0759	0.4773
Phoenix/AW	954.0	42x0.1507	7x0.0837	0.7877	0.7491	1.155	0.0179	0.0188	0.0231	980	0.0377	0.0753	0.4751
Corncrake/AW	954.0	20x0.2184	7x0.0971	0.8011	0.7492	1.165	0.0178	0.0186	0.0221	1000	0.0378	0.0753	0.4738

(1) Code words shown, including suffix /AW, denote ACSR with aluminum-clad steel core. See the Options section to find the appropriate code word modifier designation for alternative design options.

(4) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

(5) Based on a conductor temperature of 75°C at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.



General Cable

TransPowr® ACSR/AW Bare Overhead Conductor

Aluminum Conductor Aluminum-Clad Steel-Reinforced Concentric-Lay-Stranded

ACSR/AW, ALUMINUM CONDUCTOR, ALUMINUM-CLAD, STEEL-REINFORCED, CONCENTRIC-LAY-STRANDED (MECHANICAL PROPERTIES)															
CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS	STANDARD PACKAGES (3)		
		AL.	STEEL	TOTAL	AL.		TOTAL	AL.	STEEL	AL.	STEEL		REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Rail/AW	954.0	45x0.1456	7x0.0971	0.8011	0.7492	1.165	1047	899	149	85.80	14.20	25400	RMT 96.60 RMT 90.45 RM 68.38 NR 60.28	15705 10470 5235 3490	15000 10000 5000 3335
Towhee/AW	954.0	48x0.1410	7x0.1097	0.8157	0.7495	1.175	1088	899	190	82.56	17.44	27800	RMT 96.60 RMT 90.45 RMT 84.36	17420 11615 5810	16000 10670 5335
Redbird/AW	954.0	24x0.1994	7x0.1329	0.8466	0.7495	1.196	1177	899	279	76.34	23.66	32600	RMT 84.45 RMT 84.36	9420 6275	8000 5330
Cardinal/AW	954.0	54x0.1329	7x0.1329	0.8462	0.7491	1.196	1177	899	279	76.34	23.66	32900	RMT 96.60 RMT 90.45	18360 10590	15600 9000
Canvasback/AW	954.0	30x0.1783	19x0.1070	0.9201	0.7493	1.248	1392	901	491	64.72	35.28	44500	RMT 96.60 RMT 84.45 RM 68.38	13885 9265 4635	9980 6660 3330
Snowbird/AW	1033.5	42x0.1569	7x0.0872	0.8539	0.8121	1.203	1093	973	120	89.03	10.97	24800	RMT 90.45 RM 68.38	9420 4710	8610 4305
Ortolan/AW	1033.5	45x0.1515	7x0.1010	0.8681	0.8121	1.212	1134	973	161	85.82	14.18	27200	RMT 96.60 RMT 90.45 RM 68.38 NR 60.28	15705 10465 5230 3485	13850 9230 4615 3075
Whooper/AW	1033.5	48x0.1467	7x0.1141	0.8829	0.8113	1.223	1179	973	205	82.58	17.42	30100	RMT 96.60 RMT 90.45 RMT 84.36	17405 11605 5805	14770 9850 4925
Curlew/AW	1033.5	54x0.1383	7x0.1383	0.9164	0.8112	1.245	1275	973	302	76.34	23.66	35100	RMT 96.60 RMT 90.45	18355 10590	14400 8310
Avocet/AW	1113.0	42x0.1628	7x0.0904	0.9192	0.8743	1.248	1177	1048	129	89.05	10.95	26600	RMT 96.60 RMT 90.45 RM 68.38	14130 9420 4710	12000 8000 4000
Bluejay/AW	1113.0	45x0.1573	7x0.1049	0.9350	0.8745	1.259	1222	1048	174	85.80	14.20	29300	RMT 96.60 RMT 90.45 RM 68.38 NR 60.28	15705 10475 5240 3490	12850 8570 4285 2855
Bullfinch/AW	1113.0	48x0.1523	7x0.1184	0.9516	0.8744	1.269	1270	1048	221	82.56	17.44	32100	RMT 96.60 RMT 90.45 RMT 84.36	17400 11610 5805	13700 9140 4570
Finch/AW	1113.0	54x0.1436	19x0.0861	0.9854	0.8746	1.293	1373	1054	319	76.77	23.23	37500	RMT 96.60 RMT 90.45	18270 10530	13310 7670
Oxbird/AW	1192.5	42x0.1685	7x0.0936	0.9847	0.9365	1.292	1261	1123	138	89.05	10.95	28500	RMT 96.60 RMT 90.45 RM 68.38	14130 9425 4710	11200 7470 3735
Bunting/AW	1192.5	45x0.1628	7x0.1085	1.0014	0.9367	1.302	1309	1123	186	85.82	14.18	31300	RMT 96.60 RMT 90.45 RM 68.38 NR 60.28	15705 10470 5235 3490	12000 8000 4000 2665
Cormorant/AW	1192.5	48x0.1576	7x0.1226	1.0190	0.9364	1.313	1360	1123	237	82.57	17.43	34300	RMT 96.60 RMT 90.45 RMT 84.36	17405 11600 5800	12800 8530 4265
Grackle/AW	1192.5	54x0.1486	19x0.0892	1.0553	0.9365	1.338	1470	1129	341	76.78	23.22	40200	RMT 96.60 RMT 90.45	18255 10525	12420 7160
Skylark/AW	1272.0	36x0.1880	1x0.1880	1.0271	0.9993	1.316	1272	1192	79	93.76	6.24	25700	RMT 96.60 RMT 84.45	11510 7655	9050 6020
Scissortail/AW	1272.0	42x0.1740	7x0.0967	1.0501	0.9987	1.334	1346	1198	147	89.04	10.96	30400	RMT 96.60 RMT 90.45 RM 68.38	14125 9415 4710	10500 7000 3500
Bittern/AW	1272.0	45x0.1681	7x0.1121	1.0678	0.9987	1.345	1396	1198	198	85.81	14.19	33400	RMT 96.60 RMT 90.45 RM 68.38 NR 60.28	15705 10470 5235 3490	11250 7500 3750 2500
Diver/AW	1272.0	48x0.1628	7x0.1266	1.0873	0.9992	1.357	1451	1198	253	82.58	17.42	36600	RMT 96.60 RMT 90.45 RMT 84.36	17410 11610 5805	12000 8000 4000

(1) Code words shown, including suffix /AW, denote ACSR with aluminum-clad steel core. See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may not exactly equal the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSR/AW Bare Overhead Conductor

Aluminum Conductor Aluminum-Clad Steel-Reinforced Concentric-Lay-Stranded

ACSR/AW, ALUMINUM CONDUCTOR, ALUMINUM-CLAD, STEEL-REINFORCED, CONCENTRIC-LAY-STRANDED (ELECTRICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT			AMPACITY 75°C (5)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
		AL.	STEEL	TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C				
Rail/AW	954.0	45x0.1456	7x0.0971	0.8011	0.7492	1.165	0.0178	0.0187	0.0230	985	0.0382	0.0750	0.4738
Towhee/AW	954.0	48x0.1410	7x0.1097	0.8157	0.7495	1.175	0.0177	0.0186	0.0228	990	0.0387	0.0747	0.4725
Redbird/AW	954.0	24x0.1994	7x0.1329	0.8466	0.7495	1.196	0.0174	0.0182	0.0216	1020	0.0395	0.0743	0.4697
Cardinal/AW	954.0	54x0.1329	7x0.1329	0.8462	0.7491	1.196	0.0174	0.0183	0.0225	1000	0.0398	0.0741	0.4697
Canvasback/AW	954.0	30x0.1783	19x0.1070	0.9201	0.7493	1.248	0.0169	0.0176	0.0209	1050	0.0421	0.0728	0.4630
Snowbird/AW	1033.5	42x0.1569	7x0.0872	0.8539	0.8121	1.203	0.0165	0.0175	0.0214	1030	0.0392	0.0744	0.4688
Ortolan/AW	1033.5	45x0.1515	7x0.1010	0.8681	0.8121	1.212	0.0164	0.0173	0.0212	1035	0.0398	0.0741	0.4676
Whooper/AW	1033.5	48x0.1467	7x0.1141	0.8829	0.8113	1.223	0.0163	0.0172	0.0211	1040	0.0403	0.0738	0.4662
Curlew/AW	1033.5	54x0.1383	7x0.1383	0.9164	0.8112	1.245	0.0161	0.0169	0.0208	1055	0.0414	0.0732	0.4634
Avocet/AW	1113.0	42x0.1628	7x0.0904	0.9192	0.8743	1.248	0.0153	0.0163	0.0199	1075	0.0407	0.0736	0.4630
Bluejay/AW	1113.0	45x0.1573	7x0.1049	0.9350	0.8745	1.259	0.0152	0.0162	0.0198	1080	0.0412	0.0733	0.4618
Bullfinch/AW	1113.0	48x0.1523	7x0.1184	0.9516	0.8744	1.269	0.0152	0.0160	0.0196	1090	0.0418	0.0729	0.4604
Finch/AW	1113.0	54x0.1436	19x0.0861	0.9854	0.8746	1.293	0.0150	0.0159	0.0194	1100	0.0430	0.0723	0.4576
Oxbird/AW	1192.5	42x0.1685	7x0.0936	0.9847	0.9365	1.292	0.0143	0.0153	0.0186	1120	0.0421	0.0728	0.4576
Bunting/AW	1192.5	45x0.1628	7x0.1085	1.0014	0.9367	1.302	0.0142	0.0152	0.0185	1130	0.0427	0.0725	0.4564
Cormorant/AW	1192.5	48x0.1576	7x0.1226	1.0190	0.9364	1.313	0.0141	0.0150	0.0183	1135	0.0433	0.0722	0.4550
Grackle/AW	1192.5	54x0.1486	19x0.0892	1.0553	0.9365	1.338	0.0140	0.0149	0.0182	1145	0.0445	0.0715	0.4522
Skylark/AW	1272.0	36x0.1880	1x0.1880	1.0271	0.9993	1.316	0.0135	0.0145	0.0176	1160	0.0425	0.0726	0.4548
Scissortail/AW	1272.0	42x0.1740	7x0.0967	1.0501	0.9987	1.334	0.0134	0.0144	0.0175	1165	0.0435	0.0720	0.4526
Bittern/AW	1272.0	45x0.1681	7x0.1121	1.0678	0.9987	1.345	0.0133	0.0143	0.0174	1175	0.0441	0.0717	0.4513
Diver/AW	1272.0	48x0.1628	7x0.1266	1.0873	0.9992	1.357	0.0133	0.0142	0.0172	1180	0.0447	0.0714	0.4500

(1) Code words shown, including suffix /AW, denote ACSR with aluminum-clad steel core. See the Options section to find the appropriate code word modifier designation for alternative design options.

(4) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

(5) Based on a conductor temperature of 75°C at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions.

For specific ampacities, please contact your General Cable sales representative.

(6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.



General Cable

TransPowr® ACSR/AW Bare Overhead Conductor

Aluminum Conductor Aluminum-Clad Steel-Reinforced Concentric-Lay-Stranded

ACSR/AW, ALUMINUM CONDUCTOR, ALUMINUM-CLAD, STEEL-REINFORCED, CONCENTRIC-LAY-STRANDED (MECHANICAL PROPERTIES)															
CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS	STANDARD PACKAGES (3)		
		AL.	STEEL	TOTAL	AL.		TOTAL	AL.	STEEL	AL.	STEEL		REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Pheasant/AW	1272.0	54x0.1535	19x0.0921	1.1259	0.9993	1.381	1568	1204	364	76.79	23.21	42400	RMT 96.60 RMT 90.45	18270 10540	11650 6720
Ringdove/AW	1351.5	42x0.1794	7x0.0997	1.1163	1.0617	1.376	1430	1273	157	89.04	10.96	32400	RMT 96.60 RMT 90.45	14125 9425	9880 6590
Dipper/AW	1351.5	45x0.1733	7x0.1155	1.1348	1.0614	1.386	1483	1273	210	85.82	14.18	35500	RMT 96.60 RMT 90.45	15705 10470	10590 7060
- none -	1351.5	48x0.1678	7x0.1305	1.1551	1.0614	1.398	1542	1273	269	82.58	17.42	38500	RMT 96.60 RMT 90.45	17405 11610	11290 7530
Martin/AW	1351.5	54x0.1582	19x0.0949	1.1958	1.0614	1.424	1665	1279	386	76.81	23.19	45100	RMT 96.60 RMT 90.45	18255 10525	10960 6320
Popinjay/AW	1431.0	42x0.1846	7x0.1026	1.1820	1.1241	1.415	1514	1348	166	89.03	10.97	34300	RMT 96.60 RMT 90.45	14125 9420	9330 6220
Bobolink/AW	1431.0	45x0.1783	7x0.1189	1.2013	1.1236	1.426	1571	1348	223	85.81	14.19	37600	RMT 96.60 RMT 90.45	15705 10465	10000 6665
Wagtail/AW	1431.0	48x0.1727	7x0.1343	1.2235	1.1244	1.439	1632	1348	284	82.57	17.43	40700	RMT 96.60 RMT 90.45	17410 11610	10660 7110
Plover/AW	1431.0	54x0.1628	19x0.0977	1.2665	1.1241	1.465	1764	1354	409	76.79	23.21	47700	RMT 96.60 RMT 90.45	18255 10530	10350 5970
Nuthatch/AW	1510.5	45x0.1832	7x0.1221	1.2682	1.1862	1.466	1658	1423	235	85.82	14.18	39700	RMT 96.60 RMT 90.45	15715 10475	9480 6320
Parrot/AW	1510.5	54x0.1672	19x0.1003	1.3358	1.1856	1.505	1861	1430	432	76.82	23.18	50300	RMT 96.60 RMT 90.45	18230 10510	9800 5650
Ratite/AW	1590.0	42x0.1946	7x0.1081	1.3134	1.2492	1.492	1682	1498	184	89.04	10.96	38100	RMT 96.60 RMT 90.45	14130 9420	8400 5600
Lapwing/AW	1590.0	45x0.1880	7x0.1253	1.3355	1.2492	1.504	1745	1498	248	85.81	14.19	41800	RMT 96.60 RMT 90.45	15710 10475	9000 6000
Hornbill/AW	1590.0	48x0.1820	7x0.1416	1.3590	1.2487	1.517	1814	1498	316	82.57	17.43	44700	RMT 96.60 RMT 90.45	17410 11605	9600 6400
Falcon/AW	1590.0	54x0.1716	19x0.1030	1.4072	1.2489	1.545	1960	1505	455	76.78	23.22	53000	RMT 96.60 RMT 90.45	18270 10525	9320 5370
Chukar/AW	1780.0	84x0.1456	19x0.0874	1.5126	1.3986	1.602	2012	1685	328	83.72	16.28	49400	RMT 96.60	18520	9200
Seahawk/AW	1869.0	68x0.1658	7x0.0921	1.5148	1.4681	1.603	1894	1760	134	92.94	7.06	39500	RMT 96.60	17125	9000
Mockingbird/AW	2034.5	72x0.1681	7x0.1121	1.6670	1.5979	1.681	2124	1926	198	90.67	9.33	46100	RMT 96.60	15845	7460
Roadrunner/AW	2057.5	76x0.1645	19x0.0768	1.7033	1.6152	1.700	2200	1947	253	88.50	11.50	49200	RMT 96.60	17155	7800
Bluebird/AW	2156.0	84x0.1602	19x0.0961	1.8310	1.6931	1.762	2437	2041	396	83.74	16.26	59000	RMT 96.60	18275	7500
Kiwi/AW	2167.0	72x0.1735	7x0.1157	1.7758	1.7022	1.735	2262	2051	211	90.67	9.33	49100	RMT 96.60	15835	7000
Thrasher/AW	2312.0	76x0.1744	19x0.0814	1.9144	1.8155	1.802	2472	2188	284	88.51	11.49	55300	RMT 96.60	17305	7000
Joree/AW	2515.0	76x0.1819	19x0.0849	2.0826	1.9750	1.880	2690	2380	309	88.50	11.50	60200	RMT 96.60	16945	6300

ACSR/AW, ALUMINUM CONDUCTOR, ALUMINUM-CLAD, STEEL-REINFORCED, CONCENTRIC-LAY-STRANDED-HIGH-STRENGTH STRANDING (MECHANICAL PROPERTIES)															
CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS	STANDARD PACKAGES (3)		
		AL.	STEEL	TOTAL	AL.		TOTAL	AL.	STEEL	AL.	STEEL		REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Grouse/AW	80.0	8x0.1000	1x0.1670	0.0847	0.0628	0.367	137.6	75.0	62.6	54.51	45.49	4890	NR 36.22	1040	7580
Petrel/AW	101.8	12x0.0921	7x0.0921	0.1266	0.0799	0.461	229.7	95.9	133.8	41.75	58.25	9910	NR 48.28	2870	12500
Minorca/AW	110.8	12x0.0961	7x0.0961	0.1378	0.0870	0.480	250.0	104.4	145.6	41.74	58.26	10800	NR 48.28	2870	11480
Leghorn/AW	134.6	12x0.1059	7x0.1059	0.1674	0.1057	0.530	303.6	126.8	176.9	41.75	58.25	13000	NR 48.28	2870	9450
Guinea/AW	159.0	12x0.1151	7x0.1151	0.1977	0.1249	0.576	358.7	149.8	208.9	41.75	58.25	15300	NR 48.28	2870	8000
Dotterel/AW	176.9	12x0.1214	7x0.1214	0.2199	0.1389	0.607	399.1	166.6	232.4	41.75	58.25	16900	NR 48.28	2870	7195
Dorking/AW	190.8	12x0.1261	7x0.1261	0.2373	0.1499	0.630	430.5	179.7	250.8	41.75	58.25	18300	NR 48.28	2870	6665
Brahma/AW	203.2	16x0.1127	19x0.0977	0.3020	0.1596	0.714	600.8	191.4	409.4	31.86	68.14	27100	NR 48.28	4730	7875
Cochin/AW	211.3	12x0.1327	7x0.1327	0.2628	0.1660	0.663	476.7	199.0	277.7	41.75	58.25	19800	NR 48.28	2870	6020

(1) Code words shown, including suffix /AW, denote ACSR with aluminum-clad steel core. See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may not exactly equal the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSR/AW Bare Overhead Conductor

Aluminum Conductor Aluminum-Clad Steel-Reinforced Concentric-Lay-Stranded

ACSR/AW, ALUMINUM CONDUCTOR, ALUMINUM-CLAD, STEEL-REINFORCED, CONCENTRIC-LAY-STRANDED (ELECTRICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT			AMPACITY 75°C (5)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
		AL.	STEEL	TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C				
Pheasant/AW	1272.0	54x0.1535	19x0.0921	1.1259	0.9993	1.381	0.0132	0.0140	0.0171	1195	0.0460	0.0708	0.4471
Ringdove/AW	1351.5	42x0.1794	7x0.0997	1.1163	1.0617	1.376	0.0126	0.0136	0.0165	1210	0.0449	0.0713	0.4478
Dipper/AW	1351.5	45x0.1733	7x0.1155	1.1348	1.0614	1.386	0.0126	0.0135	0.0164	1220	0.0455	0.0710	0.4466
- none -	1351.5	48x0.1678	7x0.1305	1.1551	1.0614	1.398	0.0125	0.0134	0.0163	1225	0.0461	0.0707	0.4452
Martin/AW	1351.5	54x0.1582	19x0.0949	1.1958	1.0614	1.424	0.0124	0.0132	0.0161	1240	0.0474	0.0701	0.4424
Popinjay/AW	1431.0	42x0.1846	7x0.1026	1.1820	1.1241	1.415	0.0119	0.0129	0.0157	1255	0.0462	0.0707	0.4434
Bobolink/AW	1431.0	45x0.1783	7x0.1189	1.2013	1.1236	1.426	0.0119	0.0128	0.0155	1260	0.0468	0.0704	0.4421
Wagtail/AW	1431.0	48x0.1727	7x0.1343	1.2235	1.1244	1.439	0.0118	0.0127	0.0154	1270	0.0474	0.0701	0.4408
Plover/AW	1431.0	54x0.1628	19x0.0977	1.2665	1.1241	1.465	0.0117	0.0125	0.0152	1285	0.0488	0.0694	0.4379
Nuthatch/AW	1510.5	45x0.1832	7x0.1221	1.2682	1.1862	1.466	0.0112	0.0122	0.0148	1305	0.0481	0.0698	0.4379
Parrot/AW	1510.5	54x0.1672	19x0.1003	1.3358	1.1856	1.505	0.0111	0.0119	0.0145	1325	0.0501	0.0688	0.4337
Ratite/AW	1590.0	42x0.1946	7x0.1081	1.3134	1.2492	1.492	0.0107	0.0118	0.0142	1335	0.0487	0.0695	0.4351
Lapwing/AW	1590.0	45x0.1880	7x0.1253	1.3355	1.2492	1.504	0.0107	0.0117	0.0141	1345	0.0493	0.0692	0.4338
Hornbill/AW	1590.0	48x0.1820	7x0.1416	1.3590	1.2487	1.517	0.0106	0.0116	0.0140	1350	0.0500	0.0689	0.4325
Falcon/AW	1590.0	54x0.1716	19x0.1030	1.4072	1.2489	1.545	0.0105	0.0114	0.0138	1365	0.0514	0.0682	0.4297
Chukar/AW	1780.0	84x0.1456	19x0.0874	1.5126	1.3986	1.602	0.00954	0.0105	0.0123	1465	0.0529	0.0676	0.4240
Seahawk/AW	1869.0	68x0.1658	7x0.0921	1.5148	1.4681	1.603	0.00919	0.0103	0.0120	1480	0.0522	0.0679	0.4239
Mockingbird/AW	2034.5	72x0.1681	7x0.1121	1.6670	1.5979	1.681	0.00845	0.00958	0.0111	1555	0.0549	0.0667	0.4164
Roadrunner/AW	2057.5	76x0.1645	19x0.0768	1.7033	1.6152	1.700	0.00833	0.00942	0.0110	1575	0.0558	0.0663	0.4146
Bluebird/AW	2156.0	84x0.1602	19x0.0961	1.8310	1.6931	1.762	0.00788	0.00891	0.0104	1635	0.0582	0.0654	0.4090
Kiwi/AW	2167.0	72x0.1735	7x0.1157	1.7758	1.7022	1.735	0.00794	0.00910	0.0106	1610	0.0567	0.0660	0.4115
Thrasher/AW	2312.0	76x0.1744	19x0.0814	1.9144	1.8155	1.802	0.00741	0.00858	0.00993	1680	0.0591	0.0650	0.4055
Joree/AW	2515.0	76x0.1819	19x0.0849	2.0826	1.9750	1.880	0.00681	0.00804	0.00926	1760	0.0616	0.0640	0.3989

ACSR/AW, ALUMINUM CONDUCTOR, ALUMINUM-CLAD, STEEL-REINFORCED, CONCENTRIC-LAY-STRANDED-HIGH-STRENGTH STRANDING (ELECTRICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT			AMPACITY 75°C (5)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
		AL.	STEEL	TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C				
Grouse/AW	80.0	8x0.1000	1x0.1670	0.0847	0.0628	0.367	0.193	0.197	0.274	210	0.0120	0.1287	0.6548
Petrel/AW	101.8	12x0.0921	7x0.0921	0.1266	0.0799	0.461	0.142	0.145	0.219	250	0.0159	0.1296	0.6192
Minorca/AW	110.8	12x0.0961	7x0.0961	0.1378	0.0870	0.480	0.131	0.133	0.204	260	0.0166	0.1275	0.6125
Leghorn/AW	134.6	12x0.1059	7x0.1059	0.1674	0.1057	0.530	0.108	0.110	0.175	290	0.0183	0.1226	0.5973
Guinea/AW	159.0	12x0.1151	7x0.1151	0.1977	0.1249	0.576	0.0912	0.0929	0.153	315	0.0198	0.1189	0.5843
Dotterel/AW	176.9	12x0.1214	7x0.1214	0.2199	0.1389	0.607	0.0820	0.0835	0.140	335	0.0209	0.1167	0.5759
Dorking/AW	190.8	12x0.1261	7x0.1261	0.2373	0.1499	0.630	0.0760	0.0774	0.133	350	0.0217	0.1157	0.5700
Brahma/AW	203.2	16x0.1127	19x0.0977	0.3020	0.1596	0.714	0.0657	0.0669	0.120	380	0.0252	0.1124	0.5505
Cochin/AW	211.3	12x0.1327	7x0.1327	0.2628	0.1660	0.663	0.0686	0.0699	0.121	370	0.0229	0.1130	0.5620

(1) Code words shown, including suffix /AW, denote ACSR with aluminum-clad steel core. See the Options section to find the appropriate code word modifier designation for alternative design options.

(4) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

(5) Based on a conductor temperature of 75°C at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.

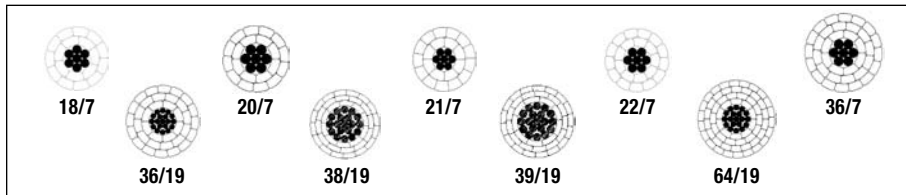


General Cable

Notes

TransPowr® ACSR/TW Bare Overhead Conductor

Trapezoidal Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded



Product Construction:

Complete Conductor:

TransPowr® ACSR/TW is a trapezoidal aluminum conductor steel-reinforced concentric-lay-stranded conductor. The aluminum strands are trapezoidal in shape.

The wedge-shaped aluminum strands enable a more compact alignment of the aluminum wires. Conductor designs that maintain the same circular mil cross-sectional area of aluminum as a conventional round conductor result in a TW conductor that is 10 to 15 percent smaller in overall diameter. Conductor designs that maintain the same overall diameter as a conventional round conductor result in a TW conductor that has 20 to 25 percent more aluminum cross-sectional area packed in.

The ACSR/TW conductors are manufactured in accordance with the requirements of the latest issue of ASTM B779.

The steel strands form the central core of the conductor, around which is stranded two, three or four layers of aluminum 1350-H19 wires. The steel core may consist of a concentric stranded cable of 7, 19 or more wires. Numerous combinations of aluminum and steel strands and layers are possible. The sizes and constructions listed on the following pages are common examples used in overhead lines.

For ACSR/TW conductors, the standard Class A galvanized coating is usually adequate for ordinary environments.

Features and Benefits:

TransPowr® ACSR/TW has a continuous operating temperature rating of 75°C. ACSR and ACSR/TW conductors have an "industry-accepted" short-duration maximum operating temperature rating of 100°C. Operation of the conductor at elevated temperatures may increase the conductor sag properties and lower the rated tensile strength of the conductor.

TransPowr® ACSR/TW conductors are recognized for their record of economy, dependability and favorable strength-to-weight ratio. ACSR/TW conductors constructed of equivalent aluminum circular mil cross-sectional area provide a conductor that is smaller in overall diameter than the equivalent conventional round wire ACSR conductor. The reduced conductor diameter is advantageous in reducing the effects of ice and wind loading on the conductor. ACSR/TW conductors constructed to equivalent overall diameter enable a greater circular mil cross-sectional area of aluminum within the conductor, allowing a significant increase in conductor current-carrying capacity.

Applications:

Trapezoidal aluminum conductors steel-reinforced (ACSR/TW) are used for overhead transmission lines.

Electrical Parameters:

The electrical parameters for the trapezoidal ACSR equivalent circular mil area and equivalent overall diameter conductors may be found in the last table of this section.

Options:

- High-conductivity aluminum (/HC) (62.0% IACS)
- Regular-strength Class C galvanized steel core (/GC2)
- High-strength Class A galvanized steel core (/GA3)
- Extra-high-strength Class A galvanized steel core (/GA4)
- Ultra-high-strength Class A galvanized steel core (/GA5)
- Regular-strength Class A zinc-5% aluminum mischmetal alloy-coated steel core (/MA2)
- High-strength Class A zinc-5% aluminum mischmetal alloy-coated steel core (/MA3)
- Extra-high-strength Class A zinc-5% aluminum mischmetal alloy-coated steel core (/MA4)
- Ultra-high-strength Class A zinc-5% aluminum mischmetal alloy-coated steel core (/MA5)
- Aluminum-clad steel core (/AW)
- Non-specular surface finish (/NS)

For other conductor sizes, designs and/or specific installation requirements not shown in the tables, contact your General Cable sales representative or e-mail info@generalcable.com.

TransPowr® ACSR/TW Bare Overhead Conductor

Trapezoidal Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded

ACSR/TW (MECHANICAL PROPERTIES) - REDUCED DIAMETER - CONDUCTORS SIZED TO HAVE EQUIVALENT CIRCULAR MIL AREA TO REGULAR ACSR																						
CODE WORD (1)	SIZE AWG OR kcmil	TYPE	NO. AL. WIRES	FILL FACTOR	EQUIVALENT AL. DIA. INCHES	STEEL CORE NO. X DIA. INCHES	STEEL CORE O.D. INCHES	CROSS-SECTION SQ. INCHES		O.D. INCHES	NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS			STANDARD PACKAGES (3)			
								TOTAL	AL.		TOTAL	AL.	STEEL	AL.	STEEL	GA2	GA3 (HS)	GA5 (UHS)	REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET	
Oriole/ ACSR/TW	336.4	23	17	88.7	0.1407	7x0.1059	0.3177	0.3258	0.2642	0.69	526	318	209	60.34	39.66	17100	18300	19500	RMT 84.36	10960	20810	
Flicker/ ACSR/TW	477.0	13	18	91.3	0.1628	7x0.0940	0.2820	0.4234	0.3748	0.78	612	448	164	73.14	26.86	17200	18100	19000	NR 60.28	4280	8130	
Hawk/ ACSR/TW	477.0	16	18	91.3	0.1628	7x0.1053	0.3159	0.4355	0.3745	0.79	655	448	206	68.47	31.53	19400	20500	21700	RMT 84.36	7890	12050	
Hen/ ACSR/TW	477.0	23	16	88.7	0.1727	7x0.1261	0.3783	0.4620	0.3746	0.83	746	450	296	60.34	39.66	23600	25300	27000	NR 60.28	3950	6030	
Parakeet/ ACSR/TW	556.5	13	18	92.0	0.1758	7x0.1015	0.3045	0.4938	0.4372	0.84	714	522	192	73.15	26.85	20000	21100	22200	RMT 84.36	10950	14670	
Dove/ ACSR/TW	556.5	16	20	91.8	0.1668	7x0.1138	0.3414	0.5083	0.4371	0.85	764	523	241	68.45	31.55	22600	24000	25300	NR 60.28	4280	5740	
Rook/ ACSR/TW	636.0	13	18	92.6	0.1880	7x0.1085	0.3255	0.5641	0.4994	0.89	816	597	219	73.15	26.85	22900	24100	25400	RMT 84.36	8760	11470	
Grosbeak/ ACSR/TW	636.0	16	20	92.0	0.1783	7x0.1216	0.3648	0.5809	0.4996	0.91	873	598	275	68.47	31.53	25400	27000	28600	NR 60.28	4380	5740	
Tern/ ACSR/TW	795.0	7	17	93.5	0.2163	7x0.0888	0.2664	0.6680	0.6247	0.96	892	745	147	83.54	16.46	21900	22700	23500	RMT 84.36	7390	9050	
Puffin/ ACSR/TW	795.0	11	21	93.5	0.1945	7x0.1108	0.3324	0.6916	0.6241	0.98	974	746	229	76.55	23.45	26200	27500	28800	NR 60.28	3700	4530	
Condor/ ACSR/TW	795.0	13	21	93.0	0.1945	7x0.1213	0.3639	0.7051	0.6242	0.99	1020	746	274	73.15	26.85	28200	29800	31300	RMT 84.36	8760	10040	
Drake/ ACSR/TW	795.0	16	20	93.1	0.1993	7x0.1360	0.4080	0.7259	0.6242	1.01	1091	747	344	68.45	31.55	31800	33800	35700	NR 60.28	4300	4220	
Mallard/ ACSR/TW	795.0	23	22	93.0	0.1901	19x0.0977	0.4885	0.7668	0.6244	1.046	1234	751	483	60.84	39.16	38700	41400	44000	RMT 84.36	11280	9140	
Phoenix/ ACSR/TW	954.0	5	30	92.9	0.1784	7x0.0837	0.2511	0.7882	0.7497	1.04	1028	898	130	87.32	12.68	23800	24500	25200	NR 60.28	4400	3570	
Rail/ ACSR/TW	954.0	7	33	92.2	0.1700	7x0.0971	0.2913	0.8011	0.7493	1.06	1074	899	175	83.66	16.34	25900	26900	27900	RMT 84.36	11810	11000	
Cardinal/ ACSR/TW	954.0	13	21	93.9	0.2131	7x0.1329	0.3987	0.8463	0.7492	1.08	1224	895	329	73.15	26.85	33500	35400	37200	RMT 84.36	7840	7300	
Snowbird/ ACSR/TW	1033.5	5	30	92.5	0.1856	7x0.0871	0.2613	0.8532	0.8115	1.09	1114	972	141	87.32	12.68	25700	26500	27300	NR 66.28	4310	3520	
Ortolan/ ACSR/TW	1033.5	7	33	92.3	0.1769	7x0.1010	0.3030	0.8673	0.8112	1.10	1163	973	190	83.68	16.32	28100	29100	30200	RMT 84.36	8620	7040	
Curler/ ACSR/TW	1033.5	13	21	93.7	0.2219	7x0.1383	0.4149	0.9170	0.8118	1.13	1326	970	356	73.15	26.85	36300	38300	40300	NR 66.28	4310	3250	
Avocet/ ACSR/TW	1113.0	5	30	93.0	0.1926	7x0.0904	0.2712	0.9186	0.8737	1.13	1199	1047	152	87.32	12.68	27500	28300	29200	RMT 84.36	10300	8590	
Bluejay/ ACSR/TW	1113.0	7	33	92.7	0.1837	7x0.1049	0.3147	0.9351	0.8746	1.14	1253	1048	205	83.66	16.34	30300	31400	32600	RM 66.32	5160	4300	
Finch/ ACSR/TW	1113.0	13	39	91.9	0.1689	19x0.0862	0.4310	0.9845	0.8737	1.18	1427	1051	376	73.64	26.36	39100	41200	43200	RMT 84.36	11830	9440	
Oxbird/ ACSR/TW	1192.5	5	30	93.2	0.1993	7x0.0936	0.2808	0.9843	0.9361	1.17	1285	1122	163	87.31	12.69	29400	30400	31300	RM 66.32	5910	4720	
Bunting/ ACSR/TW	1192.5	7	33	93.0	0.1901	7x0.1086	0.3258	1.0016	0.9368	1.18	1343	1123	220	83.65	16.35	32400	33700	34900	RMT 84.36	15880	11130	
																			RMT 84.36	7950	5570	
																			RMT 84.36	10310	8020	
																			RM 66.32	5150	4010	
																			RMT 84.36	11830	8810	
																			RM 66.32	5920	4410	

(1) Code words shown denote ACSR with regular-strength Class A Galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may not exactly equal the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSR/TW Bare Overhead Conductor

Trapezoidal Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded

ACSR/TW (ELECTRICAL PROPERTIES) - REDUCED DIAMETER - CONDUCTORS SIZED TO HAVE EQUIVALENT CIRCULAR MIL AREA TO REGULAR ACSR

CODE WORD (1)	SIZE AWG OR kcmil	TYPE	NO. AL. WIRES	FILL FACTOR	EQUIVALENT AL. DIA. INCHES	STEEL CORE NO. X DIA. INCHES	STEEL CORE O.D. INCHES	CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT			AMPACITY 75°C (5)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
								TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C				
Oriole/ ACSR/TW	336.4	23	17	88.7	0.1407	7x0.1059	0.3177	0.3258	0.2642	0.69	0.0502	0.0513	0.0613	525	0.0236	0.0861	0.5553
Flicker/ ACSR/TW	477.0	13	18	91.3	0.1628	7x0.0940	0.2820	0.4234	0.3748	0.78	0.0357	0.0366	0.0437	640	0.0259	0.0839	0.5375
Hawk/ ACSR/TW	477.0	16	18	91.3	0.1628	7x0.1053	0.3159	0.4355	0.3745	0.79	0.0356	0.0364	0.0435	645	0.0266	0.0834	0.5349
Hen/ ACSR/TW	477.0	23	16	88.7	0.1727	7x0.1261	0.3783	0.4620	0.3746	0.83	0.0354	0.0362	0.0433	655	0.0280	0.0822	0.5278
Parakeet/ ACSR/TW	556.5	13	18	92.0	0.1758	7x0.1015	0.3045	0.4938	0.4372	0.84	0.0306	0.0314	0.0375	705	0.0279	0.0822	0.5259
Dove/ ACSR/TW	556.5	16	20	91.8	0.1668	7x0.1138	0.3414	0.5083	0.4371	0.85	0.0305	0.0313	0.0374	710	0.0287	0.0816	0.5232
Rook/ ACSR/TW	636.0	13	18	92.6	0.1880	7x0.1085	0.3255	0.5641	0.4994	0.89	0.0268	0.0275	0.0329	765	0.0298	0.0808	0.5159
Grosbeak/ ACSR/TW	636.0	16	20	92.0	0.1783	7x0.1216	0.3648	0.5809	0.4996	0.91	0.0267	0.0274	0.0327	770	0.0307	0.0801	0.5129
Tern/ ACSR/TW	795.0	7	17	93.5	0.2163	7x0.0888	0.2664	0.6680	0.6247	0.96	0.0215	0.0223	0.0266	870	0.0315	0.0795	0.5042
Puffin/ ACSR/TW	795.0	11	21	93.5	0.1945	7x0.1108	0.3324	0.6916	0.6241	0.98	0.0215	0.0222	0.0264	875	0.0327	0.0786	0.5009
Condor/ ACSR/TW	795.0	13	21	93.0	0.1945	7x0.1213	0.3639	0.7051	0.6242	0.99	0.0214	0.0221	0.0264	880	0.0333	0.0782	0.4987
Drake/ ACSR/TW	795.0	16	20	93.1	0.1993	7x0.1360	0.4080	0.7259	0.6242	1.01	0.0213	0.0220	0.0262	885	0.0342	0.0776	0.4962
Mallard/ ACSR/TW	795.0	23	22	93.0	0.1901	19x0.0977	0.4885	0.7668	0.6244	1.046	0.0213	0.0219	0.0261	895	0.0360	0.0764	0.4907
Phoenix/ ACSR/TW	954.0	5	30	92.9	0.1784	7x0.0837	0.2511	0.7882	0.7497	1.04	0.0181	0.0190	0.0233	950	0.0343	0.0775	0.4910
Rail/ ACSR/TW	954.0	7	33	92.2	0.1700	7x0.0971	0.2913	0.8011	0.7493	1.06	0.0180	0.0189	0.0232	955	0.0350	0.0771	0.4889
Cardinal/ ACSR/TW	954.0	13	21	93.9	0.2131	7x0.1329	0.3987	0.8463	0.7492	1.08	0.0178	0.0185	0.0221	985	0.0364	0.0762	0.4851
Snowbird/ ACSR/TW	1033.5	5	30	92.5	0.1856	7x0.0871	0.2613	0.8532	0.8115	1.09	0.0167	0.0176	0.0215	995	0.0357	0.0766	0.4844
Ortolan/ ACSR/TW	1033.5	7	33	92.3	0.1769	7x0.1010	0.3030	0.8673	0.8112	1.10	0.0167	0.0175	0.0215	1000	0.0364	0.0762	0.4827
Curlew/ ACSR/TW	1033.5	13	21	93.7	0.2219	7x0.1383	0.4149	0.9170	0.8118	1.13	0.0165	0.0171	0.0204	1035	0.0379	0.0752	0.4787
Avocet/ ACSR/TW	1113.0	5	30	93.0	0.1926	7x0.0904	0.2712	0.9186	0.8737	1.13	0.0155	0.0164	0.0200	1045	0.0370	0.0758	0.4790
Bluejay/ ACSR/TW	1113.0	7	33	92.7	0.1837	7x0.1049	0.3147	0.9351	0.8746	1.14	0.0155	0.0163	0.0200	1050	0.0377	0.0753	0.4772
Finch/ ACSR/TW	1113.0	13	39	91.9	0.1689	19x0.0862	0.4310	0.9845	0.8737	1.18	0.0154	0.0162	0.0198	1065	0.0399	0.0740	0.4716
Oxbird/ ACSR/TW	1192.5	5	30	93.2	0.1993	7x0.0936	0.2808	0.9843	0.9361	1.17	0.0145	0.0154	0.0188	1090	0.0382	0.0750	0.4738
Bunting/ ACSR/TW	1192.5	7	33	93.0	0.1901	7x0.1086	0.3258	1.0016	0.9368	1.18	0.0144	0.0153	0.0187	1095	0.0390	0.0746	0.4720

(1) Code words shown denote ACSR/TW with regular-strength Class A Galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(4) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

(5) Based on a conductor temperature of 75°C at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.



TransPowr® ACSR/TW Bare Overhead Conductor

Trapezoidal Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded

ACSR/TW (MECHANICAL PROPERTIES) - REDUCED DIAMETER - CONDUCTORS SIZED TO HAVE EQUIVALENT CIRCULAR MIL AREA TO REGULAR ACSR

CODE WORD (1)	SIZE AWG OR kcmil	TYPE	NO. AL. WIRES	FILL FACTOR	EQUIVALENT AL. DIA. INCHES	STEEL CORE NO. X DIA. INCHES	STEEL CORE O.D. INCHES	CROSS-SECTION SQ. INCHES			NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS			STANDARD PACKAGES (3)		
								TOTAL	AL.	O.D. INCHES	TOTAL	AL.	STEEL	AL.	STEEL	GA2	GA3 (HS)	GA5 (UHS)	REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Grackle/ ACSR/TW	1192.5	13	39	92.3	0.1749	19x0.0892	0.4460	1.0556	0.9369	1.22	1529	1126	403	73.65	26.35	41900	44100	46300	RMT 84.45	15880	10390
																			RMT 84.36	7950	5200
Scissortail/ ACSR/TW	1272.0	5	30	93.6	0.2059	7x0.0967	0.2901	1.0508	0.9994	1.20	1371	1197	174	87.30	12.70	31400	32400	33400	RMT 84.36	10310	7520
																			RM 66.32	5150	3760
Bittern/ ACSR/TW	1272.0	7	33	93.3	0.1964	7x0.1121	0.3363	1.0685	0.9994	1.22	1432	1198	234	83.67	16.33	34600	35900	37200	RMT 84.36	11830	8260
																			RM 66.32	5910	4130
Pheasant/ ACSR/TW	1272.0	13	39	93.0	0.1806	19x0.0921	0.4605	1.1252	0.9987	1.26	1630	1201	429	73.66	26.34	44100	46400	48800	RMT 84.45	15880	9740
																			RMT 84.36	7940	4870
Dipper/ ACSR/TW	1351.5	7	33	93.5	0.2024	7x0.1155	0.3465	1.1350	1.0616	1.25	1521	1273	248	83.68	16.32	36700	38100	39500	RMT 84.36	11840	7780
																			RM 66.32	5920	3890
Martin/ ACSR/TW	1351.5	13	39	93.0	0.1861	19x0.0949	0.4745	1.1954	1.0610	1.30	1732	1276	456	73.68	26.32	46800	49300	51800	RMT 84.45	15880	9170
																			RMT 84.36	7950	4590
Bobolink/ ACSR/TW	1431.0	7	33	93.0	0.2083	7x0.1189	0.3567	1.2020	1.1243	1.29	1611	1348	263	83.67	16.33	38900	40400	41900	RMT 84.36	11840	7350
																			RM 66.32	5930	3680
Plover/ ACSR/TW	1431.0	13	39	93.0	0.1916	19x0.0977	0.4885	1.2666	1.1242	1.33	1834	1351	483	73.66	26.34	49600	52200	54900	RMT 84.45	15890	8660
																			RMT 84.36	7940	4330
Lapwing/ ACSR/TW	1590.0	7	36	93.0	0.2102	7x0.1253	0.3759	1.3351	1.2488	1.36	1790	1498	292	83.67	16.33	42200	43900	45500	RMT 84.45	12900	7210
																			RM 68.38	6460	3610
Falcon/ ACSR/TW	1590.0	13	42	93.5	0.1946	19x0.1030	0.5150	1.4066	1.2483	1.40	2038	1501	537	73.65	26.35	55100	58000	61000	RMT 96.60	17120	8400
																			RMT 84.45	11420	5600
Chukar/ ACSR/TW	1780.0	8	38	93.5	0.2164	19x0.0874	0.4370	1.5122	1.3982	1.45	2061	1674	387	81.24	18.76	50700	52800	54900	RMT 84.45	14030	6810
																			RM 68.38	7030	3410
Bluebird/ ACSR/TW	2156.0	8	64	91.0	0.1835	19x0.0961	0.4805	1.8312	1.6934	1.61	2512	2045	467	81.39	18.61	61100	63700	66200	RMT 96.60	23590	9390
																			RMT 84.36	11810	4700

ACSR/TW (MECHANICAL PROPERTIES) - EQUIVALENT DIAMETER - CONDUCTORS SIZED TO HAVE EQUIVALENT DIAMETER TO REGULAR ACSR

CODE WORD (1)	SIZE AWG OR kcmil	TYPE	NO. AL. WIRES	FILL FACTOR	EQUIVALENT AL. DIA. INCHES	STEEL CORE NO. X DIA. INCHES	STEEL CORE O.D. INCHES	CROSS-SECTION SQ. INCHES			NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS			STANDARD PACKAGES (3)		
								TOTAL	AL.	O.D. INCHES	TOTAL	AL.	STEEL	AL.	STEEL	GA2	GA3 (HS)	GA5 (UHS)	REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Mohawk/ ACSR/TW	571.7	13	18	92.2	0.1782	7x0.1030	0.3090	0.5072	0.4489	0.85	734	537	197	73.10	26.90	20600	21700	22800	RMT 84.36	7390	10060
																			NR 60.28	3690	5030
Calumet/ ACSR/TW	565.3	16	20	91.5	0.1681	7x0.1146	0.3438	0.5161	0.4438	0.86	776	531	244	68.48	31.52	22900	24300	25700	RMT 84.36	8760	11300
																			NR 60.28	4380	5650
Mystic/ ACSR/TW	666.6	13	20	92.3	0.1826	7x0.1111	0.3333	0.5915	0.5236	0.91	855	626	230	73.14	26.86	24000	25300	26600	RMT 84.36	8200	9590
																			NR 60.28	4110	4800
Oswego/ ACSR/TW	664.8	16	20	92.3	0.1823	7x0.1244	0.3732	0.6073	0.5222	0.93	913	625	288	68.44	31.56	26600	28200	29900	RMT 84.36	8770	9610
																			NR 60.28	4390	4810
Maumee/ ACSR/TW	768.2	13	20	93.0	0.1960	7x0.1195	0.3585	0.6817	0.6032	0.98	987	721	266	73.07	26.93	27700	29200	30700	RMT 84.36	8210	8320
																			NR 60.28	4110	4160
Wabash/ ACSR/TW	762.8	16	20	92.9	0.1953	7x0.1331	0.3993	0.6963	0.5989	0.99	1046	717	330	68.49	31.51	30500	32400	34200	RMT 84.36	8760	8370
																			NR 60.28	4380	4190
Kettle/ ACSR/TW	957.2	7	33	92.2	0.1703	7x0.0973	0.2919	0.8038	0.7518	1.06	1078	902	176	83.65	16.35	26000	27000	28000	RMT 84.45	11840	10980
																			RM 68.38	5920	5490
Suwanee/ ACSR/TW	959.6	16	22	93.4	0.2089	7x0.1493	0.4479	0.8764	0.7539	1.11	1317	902	415	68.49	31.51	37200	40100	42500	RMT 84.36	9640	7320
																			RM 66.32	4820	3660
Columbia/ ACSR/TW	966.2	13	21	93.6	0.2145	7x0.1338	0.4014	0.8576	0.7591	1.09	1240	907	333	73.13	26.87	34000	35800	37700	RMT 84.36	10380	8370
																			RM 66.32	5010	4040

(1) Code words shown denote ACSR with regular-strength Class A Galvanized steel core (/GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may be slightly greater or slightly less than the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSR/TW Bare Overhead Conductor

Trapezoidal Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded

ACSR/TW (ELECTRICAL PROPERTIES) - REDUCED DIAMETER - CONDUCTORS SIZED TO HAVE EQUIVALENT CIRCULAR MIL AREA TO REGULAR ACSR

CODE WORD (1)	SIZE AWG OR kcmil	TYPE	NO. AL. WIRES	FILL FACTOR	EQUIVALENT AL. DIA. INCHES	STEEL CORE NO. X DIA. INCHES	STEEL CORE O.D. INCHES	CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT			AMPACITY 75°C (5)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
								TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C				
Grackle/ ACSR/TW	1192.5	13	39	92.3	0.1749	19x0.0892	0.4460	1.0556	0.9369	1.22	0.0144	0.0151	0.0185	1110	0.0412	0.0733	0.4665
Scissortail/ ACSR/TW	1272.0	5	30	93.6	0.2059	7x0.0967	0.2901	1.0508	0.9994	1.20	0.0135	0.0145	0.0176	1130	0.0394	0.0743	0.4690
Bittern/ ACSR/TW	1272.0	7	33	93.3	0.1964	7x0.1121	0.3363	1.0685	0.9994	1.22	0.0135	0.0144	0.0176	1135	0.0402	0.0739	0.4672
Pheasant/ ACSR/TW	1272.0	13	39	93.0	0.1806	19x0.0921	0.4605	1.1252	0.9987	1.26	0.0135	0.0142	0.0174	1155	0.0424	0.0726	0.4619
Dipper/ ACSR/TW	1351.5	7	33	93.5	0.2024	7x0.1155	0.3465	1.1350	1.0616	1.25	0.0127	0.0136	0.0166	1180	0.0414	0.0732	0.4626
Martin/ ACSR/TW	1351.5	13	39	93.0	0.1861	19x0.0949	0.4745	1.1954	1.0610	1.30	0.0127	0.0135	0.0164	1195	0.0437	0.0719	0.4572
Bobolink/ ACSR/TW	1431.0	7	33	93.0	0.2083	7x0.1189	0.3567	1.2020	1.1243	1.29	0.0120	0.0129	0.0157	1220	0.0427	0.0725	0.4578
Plover/ ACSR/TW	1431.0	13	39	93.0	0.1916	19x0.0977	0.4885	1.2666	1.1242	1.33	0.0120	0.0128	0.0155	1240	0.0450	0.0713	0.4527
Lapwing/ ACSR/TW	1590.0	7	36	93.0	0.2102	7x0.1253	0.3759	1.3351	1.2488	1.36	0.0108	0.0118	0.0142	1300	0.0450	0.0712	0.4495
Falcon/ ACSR/TW	1590.0	13	42	93.5	0.1946	19x0.1030	0.5150	1.4066	1.2483	1.40	0.0108	0.0116	0.0140	1320	0.0474	0.0701	0.4448
Chukar/ ACSR/TW	1780.0	8	38	93.5	0.2164	19x0.0874	0.4370	1.5122	1.3982	1.45	0.00964	0.0106	0.0127	1400	0.0482	0.0697	0.4398
Bluebird/ ACSR/TW	2156.0	8	64	91.0	0.1835	19x0.0961	0.4805	1.8312	1.6934	1.61	0.00802	0.00900	0.0105	1585	0.0538	0.0672	0.4229

ACSR/TW (ELECTRICAL PROPERTIES) - EQUIVALENT DIAMETER - CONDUCTORS SIZED TO HAVE EQUIVALENT DIAMETER TO REGULAR ACSR

CODE WORD (1)	SIZE AWG OR kcmil	TYPE	NO. AL. WIRES	FILL FACTOR	EQUIVALENT AL. DIA. INCHES	STEEL CORE NO. X DIA. INCHES	STEEL CORE O.D. INCHES	CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT			AMPACITY 75°C (5)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
								TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C				
Mohawk/ ACSR/TW	571.7	13	18	92.2	0.1782	7x0.1030	0.3090	0.5072	0.4489	0.85	0.0298	0.0306	0.0365	715	0.0283	0.0820	0.5239
Calumet/ ACSR/TW	565.3	16	20	91.5	0.1681	7x0.1146	0.3438	0.5161	0.4438	0.86	0.0300	0.0308	0.0368	715	0.0290	0.0814	0.5217
Mystic/ ACSR/TW	666.6	13	20	92.3	0.1826	7x0.1111	0.3333	0.5915	0.5236	0.91	0.0255	0.0263	0.0314	790	0.0306	0.0801	0.5120
Oswego/ ACSR/TW	664.8	16	20	92.3	0.1823	7x0.1244	0.3732	0.6073	0.5222	0.93	0.0255	0.0262	0.0313	795	0.0313	0.0796	0.5096
Maumee/ ACSR/TW	768.2	13	20	93.0	0.1960	7x0.1195	0.3585	0.6817	0.6032	0.98	0.0222	0.0229	0.0273	860	0.0328	0.0786	0.5014
Wabash/ ACSR/TW	762.8	16	20	92.9	0.1953	7x0.1331	0.3993	0.6963	0.5989	0.99	0.0222	0.0229	0.0273	865	0.0335	0.0781	0.4993
Kettle/ ACSR/TW	957.2	7	33	92.2	0.1703	7x0.0973	0.2919	0.8038	0.7518	1.06	0.0180	0.0189	0.0232	955	0.0350	0.0770	0.4886
Suwanee/ ACSR/TW	959.6	16	22	93.4	0.2089	7x0.1493	0.4479	0.8764	0.7539	1.11	0.0177	0.0183	0.0218	995	0.0376	0.0754	0.4817
Columbia/ ACSR/TW	966.2	13	21	93.6	0.2145	7x0.1338	0.4014	0.8576	0.7591	1.09	0.0176	0.0183	0.0218	995	0.0367	0.0760	0.4839

- (1) Code words shown denote ACSR/TW with regular-strength Class A Galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.
- (4) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.
- (5) Based on a conductor temperature of 75°C at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions.
- For specific ampacities, please contact your General Cable sales representative.
- (6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.



General Cable

TransPowr® ACSR/TW Bare Overhead Conductor

Trapezoidal Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded

ACSR/TW (MECHANICAL PROPERTIES) - EQUIVALENT DIAMETER - CONDUCTORS SIZED TO HAVE EQUIVALENT DIAMETER TO REGULAR ACSR																						
CODE WORD (1)	SIZE AWG OR kcmil	TYPE	NO. AL WIRES	FILL FACTOR	EQUIVALENT AL. DIA. INCHES	STEEL CORE NO. X DIA INCHES	STEEL CORE O.D. INCHES	CROSS-SECTION SQ. INCHES		O.D. INCHES	NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS			STANDARD PACKAGES (3)			
								TOTAL	AL.		TOTAL	AL.	STEEL	AL.	STEEL	GA2	GA3 (HS)	GA5 (UHS)	REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET	
Cheyenne/ ACSR/TW	1168.1	5	30	92.9	0.1973	7x0.0926	0.2778	0.9642	0.9170	1.16	1259	1099	160	87.32	12.68	28800	29700	30700	RMT 84.45	10310	8190	
																			RM 68.38	5160	4100	
Genesee/ ACSR/TW	1158.0	7	33	92.5	0.1873	7x0.1078	0.3234	0.9732	0.9094	1.16	1307	1091	216	83.45	16.55	31600	32900	34100	RMT 84.45	11870	9080	
																			RM 68.38	5930	4540	
Hudson/ ACSR/TW	1158.4	13	26	93.7	0.2111	7x0.1467	0.4401	1.0279	0.9096	1.20	1488	1087	401	73.08	26.92	39600	42500	44700	RMT 84.36	10670	7170	
																			RM 66.32	5340	3590	
Catawba/ ACSR/TW	1272.0	5	30	93.3	0.2059	7x0.0967	0.2901	1.0507	0.9993	1.20	1371	1197	174	87.30	12.70	31400	32400	33400	RMT 84.36	10310	7520	
																			RM 68.38	5150	3760	
Nelson/ ACSR/TW	1257.1	7	35	92.4	0.1895	7x0.1115	0.3345	1.0558	0.9875	1.21	1415	1184	231	83.65	16.35	34200	35500	36800	RMT 84.45	12560	8870	
																			RM 68.38	6280	4440	
Yukon/ ACSR/TW	1233.6	13	39	91.0	0.1778	19x0.0910	0.4550	1.0923	0.9688	1.25	1584	1165	419	73.53	26.47	42900	45200	47500	RMT 90.45	15920	10050	
																			RMT 84.36	7970	5030	
Truckee/ ACSR/TW	1372.5	5	30	93.6	0.2139	7x0.1004	0.3012	1.1337	1.0783	1.25	1479	1291	188	87.32	12.68	33400	34500	35500	RMT 84.36	10310	6970	
																			RM 68.38	5160	3490	
Mackenzie/ ACSR/TW	1359.7	7	36	92.9	0.1943	7x0.1159	0.3477	1.1413	1.0674	1.26	1531	1281	250	83.67	16.33	36900	38400	39800	RMT 84.45	12900	8430	
																			RM 68.38	6460	4220	
Thames/ ACSR/TW	1334.6	13	39	92.6	0.1850	19x0.0944	0.4720	1.1808	1.0479	1.29	1711	1260	451	73.64	26.36	46300	48700	51200	RMT 90.45	15880	9280	
																			RMT 84.36	7940	4640	
St. Croix/ ACSR/TW	1467.8	5	30	93.4	0.2212	7x0.1041	0.3123	1.2127	1.1532	1.29	1583	1381	202	87.26	12.74	35800	36900	38100	RMT 84.36	10320	6520	
																			RM 68.38	5160	3260	
Miramichi/ ACSR/TW	1455.3	7	36	93.4	0.2010	7x0.1200	0.3600	1.2219	1.1427	1.30	1639	1371	268	83.64	16.36	39200	40700	42200	RMT 84.45	12910	7880	
																			RM 68.38	6460	3940	
Merrimack/ ACSR/TW	1433.6	13	39	92.1	0.1917	19x0.0978	0.4890	1.2682	1.1255	1.34	1838	1354	484	73.65	26.35	49700	52300	55000	RMT 90.45	15880	8640	
																			RMT 84.36	7940	4320	
Platte/ ACSR/TW	1569.0	5	33	93.7	0.2181	7x0.1074	0.3222	1.2962	1.2328	1.33	1691	1476	215	87.30	12.70	38200	39400	40600	RMT 84.45	11350	6710	
																			RM 68.38	5680	3360	
Potomac/ ACSR/TW	1557.4	7	36	93.2	0.2080	7x0.1241	0.3723	1.3084	1.2237	1.35	1754	1467	287	83.65	16.35	41900	43600	45200	RMT 84.45	12910	7360	
																			RM 68.38	6450	3680	
Rio Grande/ ACSR/TW	1533.3	13	39	93.2	0.1983	19x0.1012	0.5060	1.3574	1.2046	1.38	1966	1448	518	73.63	26.37	53200	56000	58900	RMT 96.60	15890	8080	
																			RMT 84.36	7940	4040	
Schuylkill/ ACSR/TW	1657.4	7	36	93.5	0.2145	7x0.1280	0.3840	1.3912	1.3012	1.39	1866	1561	305	83.66	16.34	44000	45700	47500	RMT 84.45	12910	6920	
																			RM 68.38	6460	3460	
Pecos/ ACSR/TW	1622.0	13	39	93.1	0.2039	19x0.1064	0.5320	1.4425	1.2736	1.42	2105	1531	573	72.77	27.23	57500	60600	63800	RMT 90.45	16080	7640	
																			RMT 84.36	8040	3820	
Pee Dee/ ACSR/TW	1758.6	7	37	93.0	0.2180	7x0.1319	0.3957	1.4764	1.3807	1.43	1980	1656	324	83.65	16.35	46700	48500	50400	RMT 90.45	13270	6690	
																			RMT 84.36	8850	4460	
James/ ACSR/TW	1730.6	13	39	92.5	0.2107	19x0.1075	0.5375	1.5322	1.3598	1.47	2219	1634	585	73.64	26.36	59400	62600	65800	RMT 90.45	15890	7160	
																			RMT 84.36	7940	3580	
Athabaska/ ACSR/TW	1949.6	7	42	93.4	0.2155	7x0.1392	0.4176	1.6384	1.5318	1.50	2197	1836	361	83.58	16.42	51900	53900	56000	RMT 96.60	14970	6850	
																			RMT 84.36	10250	4670	
Cumberland/ ACSR/TW	1926.9	13	42	93.3	0.2142	19x0.1133	0.5665	1.7044	1.5129	1.54	2469	1819	650	73.68	26.32	66000	69600	73100	RMT 90.45	17110	6930	
																			RMT 84.36	8570	3470	
Powder/ ACSR/TW	2153.8	8	64	92.2	0.1834	19x0.0961	0.4805	1.8293	1.6915	1.60	2510	2042	467	81.37	18.63	61100	63600	66200	RMT 96.60	23970	9550	
																			RMT 84.45	12220	4870	
Santee/ ACSR/TW	2627.3	8	64	93.1	0.2027	19x0.1062	0.5310	2.2328	2.0645	1.76	3062	2492	571	81.36	18.64	74500	77700	80800	RMT 96.60	23610	7710	
																			RMT 84.45	11820	3860	

(1) Code words shown denote ACSR with regular-strength Class A Galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may be slightly greater or slightly less than the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSR/TW Bare Overhead Conductor

Trapezoidal Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded

ACSR/TW (ELECTRICAL PROPERTIES) - EQUIVALENT DIAMETER - CONDUCTORS SIZED TO HAVE EQUIVALENT DIAMETER TO REGULAR ACSR

CODE WORD (1)	SIZE AWG OR kcmil	TYPE	NO. AL. WIRES	FILL FACTOR	EQUIVALENT AL. DIA. INCHES	STEEL CORE NO. X DIA INCHES	STEEL CORE O.D. INCHES	CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT			AMPACITY 75°C (5)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
								TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C				
Cheyenne/ ACSR/TW	1168.1	5	30	92.9	0.1973	7x0.0926	0.2778	0.9642	0.9170	1.16	0.0148	0.0157	0.0191	1075	0.0379	0.0752	0.4751
Genesee/ ACSR/TW	1158.0	7	33	92.5	0.1873	7x0.1078	0.3234	0.9732	0.9094	1.16	0.0149	0.0157	0.0192	1075	0.0385	0.0748	0.4739
Hudson/ ACSR/TW	1158.4	13	26	93.7	0.2111	7x0.1467	0.4401	1.0279	0.9096	1.20	0.0147	0.0154	0.0183	1110	0.0402	0.0738	0.4697
Catawba/ ACSR/TW	1272.0	5	30	93.3	0.2059	7x0.0967	0.2901	1.0507	0.9993	1.20	0.0135	0.0145	0.0176	1130	0.0395	0.0743	0.4688
Nelson/ ACSR/TW	1257.1	7	35	92.4	0.1895	7x0.1115	0.3345	1.0558	0.9875	1.21	0.0137	0.0146	0.0178	1130	0.0402	0.0739	0.4674
Yukon/ ACSR/TW	1233.6	13	39	91.0	0.1778	19x0.0910	0.4550	1.0923	0.9688	1.25	0.0139	0.0147	0.0179	1135	0.0422	0.0728	0.4628
Truckee/ ACSR/TW	1372.5	5	30	93.6	0.2139	7x0.1004	0.3012	1.1337	1.0783	1.25	0.0126	0.0135	0.0164	1185	0.0409	0.0734	0.4631
Mackenzie/ ACSR/TW	1359.7	7	36	92.9	0.1943	7x0.1159	0.3477	1.1413	1.0674	1.26	0.0127	0.0136	0.0165	1185	0.0417	0.0730	0.4617
Thames/ ACSR/TW	1334.6	13	39	92.6	0.1850	19x0.0944	0.4720	1.1808	1.0479	1.29	0.0128	0.0136	0.0166	1190	0.0435	0.0720	0.4579
St. Croix/ ACSR/TW	1467.8	5	30	93.4	0.2212	7x0.1041	0.3123	1.2127	1.1532	1.29	0.0117	0.0127	0.0154	1235	0.0424	0.0726	0.4576
Miramichi/ ACSR/TW	1455.3	7	36	93.4	0.2010	7x0.1200	0.3600	1.2219	1.1427	1.30	0.0118	0.0127	0.0155	1235	0.0430	0.0723	0.4568
Merrimack/ ACSR/TW	1433.6	13	39	92.1	0.1917	19x0.0978	0.4890	1.2682	1.1255	1.34	0.0119	0.0127	0.0155	1240	0.0452	0.0712	0.4519
Platte/ ACSR/TW	1569.0	5	33	93.7	0.2181	7x0.1074	0.3222	1.2962	1.2328	1.33	0.0110	0.0120	0.0145	1285	0.0438	0.0719	0.4527
Potomac/ ACSR/TW	1557.4	7	36	93.2	0.2080	7x0.1241	0.3723	1.3084	1.2237	1.35	0.0111	0.0120	0.0145	1285	0.0445	0.0715	0.4513
Rio Grande/ ACSR/TW	1533.3	13	39	93.2	0.1983	19x0.1012	0.5060	1.3574	1.2046	1.38	0.0112	0.0120	0.0145	1295	0.0466	0.0705	0.4474
Schuykill/ ACSR/TW	1657.4	7	36	93.5	0.2145	7x0.1280	0.3840	1.3912	1.3012	1.39	0.0104	0.0113	0.0137	1335	0.0459	0.0708	0.4467
Pecos/ ACSR/TW	1622.0	13	39	93.1	0.2039	19x0.1064	0.5320	1.4425	1.2736	1.42	0.0105	0.0113	0.0138	1340	0.0482	0.0697	0.4424
Pee Dee/ ACSR/TW	1758.6	7	37	93.0	0.2180	7x0.1319	0.3957	1.4764	1.3807	1.43	0.00979	0.0108	0.0130	1380	0.0474	0.0701	0.4416
James/ ACSR/TW	1730.6	13	39	92.5	0.2107	19x0.1075	0.5375	1.5322	1.3598	1.47	0.00989	0.0107	0.0130	1390	0.0496	0.0690	0.4374
Athabaska/ ACSR/TW	1949.6	7	42	93.4	0.2155	7x0.1392	0.4176	1.6384	1.5318	1.50	0.00883	0.00985	0.0118	1470	0.0499	0.0689	0.4338
Cumberland/ ACSR/TW	1926.9	13	42	93.3	0.2142	19x0.1133	0.5665	1.7044	1.5129	1.54	0.00889	0.00974	0.0117	1485	0.0522	0.0679	0.4296
Powder/ ACSR/TW	2153.8	8	64	92.2	0.1834	19x0.0961	0.4805	1.8293	1.6915	1.60	0.00803	0.00900	0.0105	1580	0.0535	0.0673	0.4239
Santee/ ACSR/TW	2627.3	8	64	93.1	0.2027	19x0.1062	0.5310	2.2328	2.0645	1.76	0.00658	0.00767	0.00886	1765	0.0589	0.0651	0.4090

(1) Code words shown denote ACSR/TW with regular-strength Class A Galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(4) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

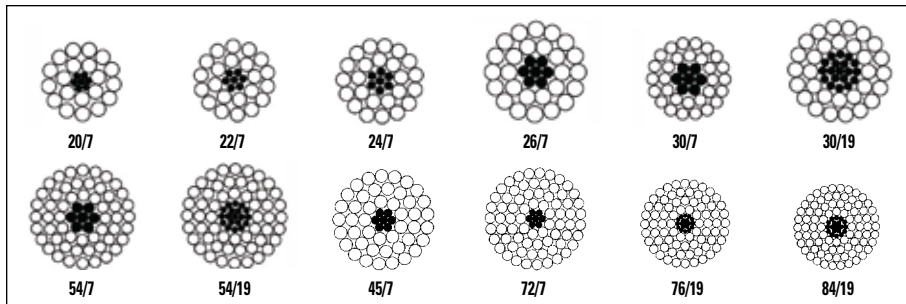
(5) Based on a conductor temperature of 75°C at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.

Notes

TransPowr® ACSS Bare Overhead Conductor

Aluminum Conductor Steel-Supported Concentric-Lay-Stranded



Product Construction:

Complete Conductor:

ACSS is a composite concentric-lay-stranded cable. The steel strands form the central core of the cable, around which is stranded one or more layers of aluminum 1350-O wires. ACSS conductors are manufactured in accordance with the requirements of the latest applicable issue of ASTM specification B856. The "O" temper of the aluminum, a fully annealed or soft temper, causes most or all of the mechanical load on ACSS to be carried by the steel. The steel core may consist of 7, 19, 37 or more wires. Class A zinc coating is usually adequate for ordinary environments.

Features and Benefits:

ACSS conductors are similar to conventional ACSR with some very important additional advantages. ACSS can operate continuously at high temperatures (200°C) without damage. For conductor applications to 250°C, zinc-5% aluminum mischmetal alloy-coated steel or aluminum-clad steel should be considered. ACSS sags less under emergency electrical

Features and Benefits (cont'd):

loadings than ACSR, it is self-damping if prestretched during installation, and its final sags are not affected by long-time creep of the aluminum.

Applications:

Aluminum conductor steel-supported (ACSS) is used for overhead transmission lines. It is especially useful in reconductoring applications requiring increased current with existing tensions and clearances; new line applications where structures can be economized due to reduced sag; new line applications requiring high emergency loadings; and lines where aeolian vibration is a problem.

Options:

- Regular-strength Class C galvanized steel core (/GC2)
- High-strength Class A galvanized steel core (/GA3)
- Extra-high-strength Class A galvanized steel core (/GA4)
- Ultra-high-strength Class A galvanized steel core (/GA5)

Options (cont'd):

- Regular-strength Class A zinc-5% aluminum mischmetal alloy-coated steel core (/MA2)
- High-strength Class A zinc-5% aluminum mischmetal alloy-coated steel core (/MA3)
- Extra-high-strength Class A zinc-5% aluminum mischmetal alloy-coated steel core (/MA4)
- Ultra-high-strength Class A zinc-5% aluminum mischmetal alloy-coated steel core (/MA5)
- Aluminum-clad steel core (/AW)—see ACSS/AW catalog section
- 250°C operating temperature rating utilizing either the zinc-5% aluminum mischmetal alloy-coated steel core wires or the aluminum-clad steel core wires
- Trapezoidal-shaped aluminum strands (/TW)
- Non-specular surface finish (/NS)

For other conductor sizes, designs and/or specific installation requirements not shown in the tables, contact your General Cable sales representative or e-mail info@generalcable.com.

TransPowr® ACSS Bare Overhead Conductor

Aluminum Conductor Steel-Supported Concentric-Lay-Stranded

ACSS, CONCENTRIC-LAY-STRANDED (MECHANICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS			STANDARD PACKAGES (3)		
		AL.	STEEL	TOTAL	AL.		TOTAL	AL.	STEEL	AL.	STEEL	GA2 OR MA2	GA3 OR MA3 (HS)	GA5 OR MA5 (UHS)	REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Spoonbill/ACSS	266.8	22x0.1101	7x0.0612	0.2300	0.2095	0.624	321	251	70	78.28	21.72	6030	6550	7580	RM 68.38	2810	8755
Scaup/ACSS	266.8	24x0.1054	7x0.0703	0.2366	0.2095	0.633	343	251	92	73.20	26.80	7410	8090	9450	RM 68.38	3265	9520
Partridge/ACSS	266.8	26x0.1013	7x0.0788	0.2437	0.2096	0.642	367	251	116	68.50	31.50	8880	9730	11440	RM 68.38	3790	10330
Junco/ACSS	266.8	30x0.0943	7x0.0943	0.2584	0.2095	0.660	417	252	166	60.35	39.65	11700	13000	15200	RM 68.38	4970	11890
Ostrich/ACSS	300.0	26x0.1074	7x0.0835	0.2739	0.2355	0.680	412	283	130	68.53	31.47	10000	10900	12800	RM 68.38	3785	9190
Trogon/ACSS	336.4	20x0.1297	7x0.0576	0.2825	0.2642	0.692	379	317	62	83.69	16.31	5990	6440	7350	RM 68.38	4780	12610
Woodcock/ACSS	336.4	22x0.1237	7x0.0687	0.2903	0.2644	0.701	405	317	88	78.29	21.71	7610	8250	9550	RMT 84.36 RM 68.38	5620 2810	13880 6940
Widgeon/ACSS	336.4	24x0.1184	7x0.0789	0.2985	0.2642	0.710	433	317	116	73.22	26.78	9340	10200	11900	RMT 84.36 RM 68.38	6550 3275	15130 7565
Linnet/ACSS	336.4	26x0.1137	7x0.0884	0.3070	0.2640	0.720	462	317	145	68.54	31.46	11200	12300	14400	RMT 84.36 RM 68.38	7570 3785	16390 8195
Oriole/ACSS	336.4	30x0.1059	7x0.1059	0.3259	0.2642	0.741	526	318	209	60.34	39.66	14800	16300	19100	RM 68.38	4970	9430
Ptarmigan/ACSS	397.5	20x0.1410	7x0.0627	0.3339	0.3123	0.752	448	374	73	83.65	16.35	7090	7630	8710	RM 68.38	4780	10670
Stork/ACSS	397.5	22x0.1344	7x0.0747	0.3428	0.3121	0.762	478	374	104	78.28	21.72	8990	9760	11290	RMT 84.36 RM 68.38	5605 2805	11730 5865
Brant/ACSS	397.5	24x0.1287	7x0.0858	0.3527	0.3122	0.772	511	374	137	73.21	26.79	11000	12100	14100	RMT 84.36 RM 68.38	6535 3270	12790 6395
Ibis/ACSS	397.5	26x0.1236	7x0.0961	0.3627	0.3120	0.783	546	374	172	68.53	31.47	13000	14200	16500	RMT 84.36 RM 68.38	7575 3785	13870 6935
Lark/ACSS	397.5	30x0.1151	7x0.1151	0.3850	0.3121	0.806	622	375	247	60.35	39.65	17500	19300	22600	RM 68.38	4965	7980
Tailorbird/ACSS	477.0	20x0.1544	7x0.0686	0.4003	0.3746	0.824	537	449	88	83.69	16.31	8490	9140	10430	RM 68.38	4780	8900
Toucan/ACSS	477.0	22x0.1472	7x0.0818	0.4112	0.3744	0.834	574	449	125	78.30	21.70	10800	11700	13500	RMT 84.36 RM 68.38	5620 2810	9790 4895
Flicker/ACSS	477.0	24x0.1410	7x0.0940	0.4233	0.3747	0.846	614	449	164	73.20	26.80	13000	14200	16400	RMT 84.36 RM 68.38	6535 3265	10660 5330
Hawk/ACSS	477.0	26x0.1354	7x0.1053	0.4353	0.3744	0.858	656	449	206	68.52	31.48	15600	17100	19800	RMT 84.36 RM 68.38	7570 3785	11560 5780
Hen/ACSS	477.0	30x0.1261	7x0.1261	0.4621	0.3747	0.883	746	450	296	60.34	39.66	21000	22700	26700	RM 68.38	4960	6650
Heron/ACSS	500.0	30x0.1291	7x0.1291	0.4843	0.3927	0.904	782	472	310	60.35	39.65	22000	23800	27900	RM 68.38	4960	6345
Tody/ACSS	556.5	20x0.1668	7x0.0741	0.4672	0.4370	0.890	626	524	102	83.68	16.32	9900	10700	12200	RM 68.38	4770	7620
Sapsucker/ACSS	556.5	22x0.1590	7x0.0883	0.4797	0.4368	0.901	669	524	145	78.32	21.68	12600	13600	15800	RMT 84.36 RM 68.38	5615 2805	8390 4195
Parakeet/ACSS	556.5	24x0.1523	7x0.1015	0.4939	0.4372	0.914	716	524	192	73.22	26.78	15200	16600	19100	RMT 84.36 RM 68.38	6545 3270	9140 4570
Dove/ACSS	556.5	26x0.1463	7x0.1138	0.5083	0.4371	0.927	765	524	241	68.50	31.50	18200	19900	23100	RMT 84.36 RM 68.38	7580 3790	9910 4955
Eagle/ACSS	556.5	30x0.1362	7x0.1362	0.5391	0.4371	0.953	871	525	345	60.35	39.65	24500	26500	31100	RM 68.38	4960	5700
Peacock/ACSS	605.0	24x0.1588	7x0.1059	0.5370	0.4753	0.953	779	570	209	73.19	26.81	16500	18100	20800	RMT 84.36 RM 68.38	6550 3275	8410 4205
Squab/ACSS	605.0	26x0.1525	7x0.1186	0.5522	0.4749	0.966	832	570	262	68.52	31.48	19700	21700	25100	RMT 84.36 RM 68.38	7580 3790	9110 4555
Wood Duck/ACSS	605.0	30x0.1420	7x0.1420	0.5860	0.4751	0.994	947	571	375	60.35	39.65	26000	28300	33300	RM 68.38	4960	5245
Teal/ACSS	605.0	30x0.1420	19x0.0852	0.5834	0.4751	0.994	939	571	367	60.85	39.15	26600	29300	34700	RMT 84.45 RM 68.38	9840 4920	10490 5245
Turacos/ACSS	636.0	20x0.1783	7x0.0792	0.5339	0.4994	0.951	716	599	117	83.69	16.31	11300	12200	13900	RMT 84.36 RM 68.38	7160 4775	10000 6670
Goldfinch/ACSS	636.0	22x0.1700	7x0.0944	0.5483	0.4994	0.963	765	599	166	78.32	21.68	14100	15300	17600	RMT 84.45 RMT 84.36 RM 68.38	8425 5615 2810	11010 7340 3670
Rook/ACSS	636.0	24x0.1628	7x0.1085	0.5643	0.4996	0.977	818	599	219	73.22	26.78	17300	19000	21900	RMT 84.45 RMT 84.36 RM 68.38	9815 6545 3270	12000 8000 4000

(1) Code words shown denote ACSS with regular-strength Class A Galvanized steel core (/GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may be slightly greater or slightly less than the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSS Bare Overhead Conductor

Aluminum Conductor Steel-Supported Concentric-Lay-Stranded

ACSS, CONCENTRIC-LAY-STRANDED (ELECTRICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT				AMPACITY (5)		GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
		AL.	STEEL	TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C	AC @ 200°C	75°C	200°C			
Spoonbill/ACSS	266.8	22x0.1101	7x0.0612	0.2300	0.2095	0.624	0.0624	0.0639	0.0768	0.1091	455	800	0.0206	0.0892	0.5716
Scaup/ACSS	266.8	24x0.1054	7x0.0703	0.2366	0.2095	0.633	0.0622	0.0636	0.0765	0.1086	460	805	0.0211	0.0887	0.5694
Partridge/ACSS	266.8	26x0.1013	7x0.0788	0.2437	0.2096	0.642	0.0619	0.0633	0.0761	0.1081	460	810	0.0216	0.0882	0.5672
Junco/ACSS	266.8	30x0.0943	7x0.0943	0.2584	0.2095	0.660	0.0615	0.0629	0.0756	0.1073	465	825	0.0226	0.0871	0.5628
Ostrich/ACSS	300.0	26x0.1074	7x0.0835	0.2739	0.2355	0.680	0.0551	0.0563	0.0677	0.0962	500	875	0.0229	0.0868	0.5581
Trogon/ACSS	336.4	20x0.1297	7x0.0576	0.2825	0.2642	0.692	0.0497	0.0509	0.0612	0.0869	525	925	0.0226	0.0871	0.5555
Woodcock/ACSS	336.4	22x0.1237	7x0.0687	0.2903	0.2644	0.701	0.0495	0.0507	0.0609	0.0866	530	935	0.0231	0.0866	0.5534
Widgeon/ACSS	336.4	24x0.1184	7x0.0789	0.2985	0.2642	0.710	0.0493	0.0505	0.0607	0.0862	530	940	0.0237	0.0860	0.5513
Linnet/ACSS	336.4	26x0.1137	7x0.0884	0.3070	0.2640	0.720	0.0491	0.0503	0.0604	0.0858	535	945	0.0242	0.0855	0.5491
Oriole/ACSS	336.4	30x0.1059	7x0.1059	0.3259	0.2642	0.741	0.0488	0.0499	0.0600	0.0851	540	955	0.0253	0.0845	0.5446
Ptarmigan/ACSS	397.5	20x0.1410	7x0.0627	0.3339	0.3123	0.752	0.0421	0.0431	0.0518	0.0736	585	1035	0.0245	0.0852	0.5424
Stork/ACSS	397.5	22x0.1344	7x0.0747	0.3428	0.3121	0.762	0.0419	0.0430	0.0516	0.0733	585	1040	0.0251	0.0847	0.5404
Brant/ACSS	397.5	24x0.1287	7x0.0858	0.3527	0.3122	0.772	0.0417	0.0428	0.0514	0.0730	590	1045	0.0257	0.0841	0.5382
Ibis/ACSS	397.5	26x0.1236	7x0.0961	0.3627	0.3120	0.783	0.0416	0.0426	0.0512	0.0726	595	1055	0.0263	0.0836	0.5360
Lark/ACSS	397.5	30x0.1151	7x0.1151	0.3850	0.3121	0.806	0.0413	0.0423	0.0508	0.0721	600	1070	0.0275	0.0826	0.5316
Tailorbird/ACSS	477.0	20x0.1544	7x0.0686	0.4003	0.3746	0.824	0.0351	0.0360	0.0433	0.0614	655	1165	0.0269	0.0831	0.5281
Toucan/ACSS	477.0	22x0.1472	7x0.0818	0.4112	0.3744	0.834	0.0349	0.0359	0.0431	0.0611	660	1175	0.0275	0.0826	0.5261
Flicker/ACSS	477.0	24x0.1410	7x0.0940	0.4233	0.3747	0.846	0.0348	0.0357	0.0429	0.0608	660	1180	0.0282	0.0820	0.5240
Hawk/ACSS	477.0	26x0.1354	7x0.1053	0.4353	0.3744	0.858	0.0346	0.0355	0.0427	0.0605	665	1190	0.0288	0.0815	0.5218
Hen/ACSS	477.0	30x0.1261	7x0.1261	0.4621	0.3747	0.883	0.0344	0.0353	0.0423	0.0601	675	1205	0.0302	0.0805	0.5173
Heron/ACSS	500.0	30x0.1291	7x0.1291	0.4843	0.3927	0.904	0.0328	0.0337	0.0404	0.0573	695	1240	0.0309	0.0799	0.5136
Tody/ACSS	556.5	20x0.1668	7x0.0741	0.4672	0.4370	0.890	0.0301	0.0309	0.0371	0.0527	720	1290	0.0290	0.0813	0.5161
Sapsucker/ACSS	556.5	22x0.1590	7x0.0883	0.4797	0.4368	0.901	0.0299	0.0308	0.0370	0.0524	725	1295	0.0297	0.0808	0.5140
Parakeet/ACSS	556.5	24x0.1523	7x0.1015	0.4939	0.4372	0.914	0.0298	0.0306	0.0368	0.0522	730	1305	0.0304	0.0803	0.5119
Dove/ACSS	556.5	26x0.1463	7x0.1138	0.5083	0.4371	0.927	0.0297	0.0305	0.0366	0.0519	735	1315	0.0311	0.0797	0.5097
Eagle/ACSS	556.5	30x0.1362	7x0.1362	0.5391	0.4371	0.953	0.0295	0.0303	0.0363	0.0515	740	1330	0.0326	0.0787	0.5052
Peacock/ACSS	605.0	24x0.1588	7x0.1059	0.5370	0.4753	0.953	0.0274	0.0282	0.0339	0.0480	770	1380	0.0317	0.0793	0.5053
Squab/ACSS	605.0	26x0.1525	7x0.1186	0.5522	0.4749	0.966	0.0273	0.0281	0.0337	0.0478	775	1390	0.0325	0.0788	0.5031
Wood Duck/ACSS	605.0	30x0.1420	7x0.1420	0.5860	0.4751	0.994	0.0271	0.0279	0.0334	0.0474	780	1405	0.0340	0.0777	0.4987
Teal/ACSS	605.0	30x0.1420	19x0.0852	0.5834	0.4751	0.994	0.0272	0.0279	0.0335	0.0474	780	1405	0.0340	0.0777	0.4987
Turacos/ACSS	636.0	20x0.1783	7x0.0792	0.5339	0.4994	0.951	0.0263	0.0271	0.0325	0.0461	785	1405	0.0310	0.0798	0.5056
Goldfinch/ACSS	636.0	22x0.1700	7x0.0944	0.5483	0.4994	0.963	0.0262	0.0270	0.0324	0.0459	790	1415	0.0318	0.0793	0.5036
Rook/ACSS	636.0	24x0.1628	7x0.1085	0.5643	0.4996	0.977	0.0261	0.0269	0.0322	0.0457	790	1425	0.0325	0.0787	0.5014

(1) Code words shown denote ACSS with regular-strength Class A Galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(4) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

(5) Based on the given conductor temperature at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/R² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.

TransPowr® ACSS Bare Overhead Conductor

Aluminum Conductor Steel-Supported Concentric-Lay-Stranded

ACSS, CONCENTRIC- LAY-STRANDED (MECHANICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS			STANDARD PACKAGES (3)		
		AL.	STEEL	TOTAL	AL.		TOTAL	AL.	STEEL	AL.	STEEL	GA2 OR MA2	GA3 OR MA3 (HS)	GA5 OR MA5 (UHS)	REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Grosbeak/ACSS	636.0	26x0.1564	7x0.1216	0.5808	0.4995	0.990	874	599	275	68.52	31.48	20700	22400	26000	RMT 90.45 RMT 84.36 RM 68.38	11370 7580 3790	13010 8670 4335
Scoter/ACSS	636.0	30x0.1456	7x0.1456	0.6160	0.4995	1.019	995	601	395	60.35	39.65	27400	29700	35000	RMT 96.60 RM 68.38	14945 4980	15020 5005
Egret/ACSS	636.0	30x0.1456	19x0.0874	0.6135	0.4995	1.019	987	601	387	60.83	39.17	28000	30900	36600	RMT 96.60 RMT 84.45 RM 68.38	14765 9850 4925	14960 9980 4990
Flamingo/ACSS	666.6	24x0.1667	7x0.1111	0.5917	0.5238	1.000	858	628	230	73.21	26.79	18200	19900	22900	RMT 84.45 RMT 84.36 RM 68.38	9835 6545 3275	11460 7630 3815
Gannet/ACSS	666.6	26x0.1601	7x0.1245	0.6086	0.5234	1.014	916	628	289	68.52	31.48	21700	23400	27300	RMT 90.45 RMT 84.36 RM 68.38	11380 7595 3795	12410 8280 4140
Stilt/ACSS	715.5	24x0.1727	7x0.1151	0.6350	0.5622	1.036	921	674	247	73.21	26.79	19500	21300	24600	RMT 84.45 RMT 84.36 RM 68.38	9820 6540 3270	10660 7100 3550
Starling/ACSS	715.5	26x0.1659	7x0.1290	0.6535	0.5620	1.051	984	674	310	68.51	31.49	23300	25200	29300	RMT 90.45 RMT 84.36 RM 68.38	11365 7585 3795	11550 7710 3855
Redwing/ACSS	715.5	30x0.1544	19x0.0926	0.6897	0.5617	1.081	1110	676	434	60.88	39.12	30800	34000	39800	RMT 96.60 RMT 84.45 RM 68.38	14750 9850 4925	13300 8880 4440
Macaw/ACSS	795.0	42x0.1376	7x0.0764	0.6567	0.6246	1.055	857	749	109	87.33	12.67	11800	12600	14200	RMT 90.45 RM 68.38	9610 4805	11200 5600
Turbit/ACSS	795.0	20x0.1994	7x0.0886	0.6677	0.6246	1.063	895	749	146	83.67	16.33	14200	15200	17400	RMT 84.36 RM 68.38	7160 4770	8000 5330
Tern/ACSS	795.0	45x0.1329	7x0.0886	0.6674	0.6242	1.063	895	749	146	83.67	16.33	14200	15200	17400	RMT 96.60 RMT 90.45 RM 68.38	16110 10740 5370	18000 12000 6000
Puffin/ACSS	795.0	22x0.1901	7x0.1056	0.6857	0.6244	1.077	956	749	208	78.30	21.70	17700	19200	22000	RMT 84.45 RMT 84.36 RM 68.38	8420 5620 2810	8800 5870 2935
Cuckoo/ACSS	795.0	24x0.1820	7x0.1213	0.7053	0.6244	1.092	1023	749	274	73.22	26.78	21700	23300	26900	RMT 84.45 RMT 84.36 RM 68.38	9830 6545 3275	9610 6400 3200
Condor/ACSS	795.0	54x0.1213	7x0.1213	0.7049	0.6240	1.092	1023	749	274	73.22	26.78	21700	23300	26900	RMT 96.60 RMT 90.45	19130 11040	18720 10800
Drake/ACSS	795.0	26x0.1749	7x0.1360	0.7263	0.6246	1.107	1093	749	344	68.50	31.50	25900	28000	32600	RMT 90.45 RMT 84.36 RM 68.38	11365 7585 3795	10400 6940 3470
Mallard/ACSS	795.0	30x0.1628	19x0.0977	0.7669	0.6245	1.140	1234	751	483	60.84	39.16	34300	37900	44300	RMT 96.60 RMT 84.45 RM 68.38	14770 9845 4925	11970 7980 3990
Ruddy/ACSS	900.0	45x0.1414	7x0.0943	0.7555	0.7066	1.131	1013	848	166	83.66	16.34	15800	17000	19200	RMT 96.60 RMT 90.45 RM 68.38	16095 10730 5365	15890 10590 5295
Canary/ACSS	900.0	54x0.1291	7x0.1291	0.7985	0.7069	1.162	1158	848	310	73.21	26.79	24600	26400	30500	RMT 96.60 RMT 90.45	19155 11045	16540 9540
Phoenix/ACSS	954.0	42x0.1507	7x0.0837	0.7877	0.7491	1.155	1029	899	130	87.33	12.67	14200	15200	17100	RMT 90.45 RM 68.38	9600 4800	9340 4670
Corncrake/ACSS	954.0	20x0.2184	7x0.0971	0.8011	0.7492	1.165	1074	899	175	83.66	16.34	16700	18000	20400	RMT 84.36 RM 68.38	7170 4785	6670 4450

(1) Code words shown denote ACSS with regular-strength Class A Galvanized steel core (/GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may be slightly greater or slightly less than the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSS Bare Overhead Conductor

Aluminum Conductor Steel-Supported Concentric-Lay-Stranded

ACSS, CONCENTRIC-LAY-STRANDED (ELECTRICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT				AMPACITY (5)		GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
		AL.	STEEL	TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C	AC @ 200°C	75°C	200°C			
Grosbeak/ACSS	636.0	26x0.1564	7x0.1216	0.5808	0.4995	0.990	0.0260	0.0267	0.0321	0.0455	795	1435	0.0333	0.0782	0.4992
Scoter/ACSS	636.0	30x0.1456	7x0.1456	0.6160	0.4995	1.019	0.0258	0.0265	0.0318	0.0451	805	1455	0.0348	0.0772	0.4948
Egret/ACSS	636.0	30x0.1456	19x0.0874	0.6135	0.4995	1.019	0.0258	0.0265	0.0318	0.0451	805	1455	0.0348	0.0772	0.4947
Flamingo/ACSS	666.6	24x0.1667	7x0.1111	0.5917	0.5238	1.000	0.0249	0.0257	0.0308	0.0436	815	1470	0.0333	0.0782	0.4977
Gannet/ACSS	666.6	26x0.1601	7x0.1245	0.6086	0.5234	1.014	0.0248	0.0255	0.0306	0.0434	820	1480	0.0341	0.0777	0.4956
Stilt/ACSS	715.5	24x0.1727	7x0.1151	0.6350	0.5622	1.036	0.0232	0.0239	0.0287	0.0406	855	1540	0.0345	0.0774	0.4922
Starling/ACSS	715.5	26x0.1659	7x0.1290	0.6535	0.5620	1.051	0.0231	0.0238	0.0286	0.0404	860	1550	0.0353	0.0768	0.4900
Redwing/ACSS	715.5	30x0.1544	19x0.0926	0.6897	0.5617	1.081	0.0230	0.0236	0.0283	0.0401	870	1570	0.0369	0.0758	0.4856
Macaw/ACSS	795.0	42x0.1376	7x0.0764	0.6567	0.6246	1.055	0.0211	0.0221	0.0273	0.0396	880	1570	0.0346	0.0773	0.4894
Turbit/ACSS	795.0	20x0.1994	7x0.0886	0.6677	0.6246	1.063	0.0210	0.0218	0.0261	0.0370	900	1630	0.0347	0.0772	0.4881
Tern/ACSS	795.0	45x0.1329	7x0.0886	0.6674	0.6242	1.063	0.0210	0.0220	0.0272	0.0395	880	1575	0.0351	0.0770	0.4881
Puffin/ACSS	795.0	22x0.1901	7x0.1056	0.6857	0.6244	1.077	0.0210	0.0217	0.0260	0.0368	905	1640	0.0355	0.0767	0.4861
Cuckoo/ACSS	795.0	24x0.1820	7x0.1213	0.7053	0.6244	1.092	0.0209	0.0216	0.0259	0.0366	910	1650	0.0364	0.0762	0.4840
Condor/ACSS	795.0	54x0.1213	7x0.1213	0.7049	0.6240	1.092	0.0209	0.0217	0.0270	0.0392	890	1595	0.0366	0.0760	0.4840
Drake/ACSS	795.0	26x0.1749	7x0.1360	0.7263	0.6246	1.107	0.0208	0.0215	0.0257	0.0364	915	1660	0.0372	0.0756	0.4818
Mallard/ACSS	795.0	30x0.1628	19x0.0977	0.7669	0.6245	1.140	0.0207	0.0213	0.0255	0.0362	925	1685	0.0389	0.0746	0.4773
Ruddy/ACSS	900.0	45x0.1414	7x0.0943	0.7555	0.7066	1.131	0.0186	0.0195	0.0241	0.0349	955	1710	0.0373	0.0756	0.4784
Canary/ACSS	900.0	54x0.1291	7x0.1291	0.7985	0.7069	1.162	0.0184	0.0193	0.0239	0.0346	965	1730	0.0390	0.0746	0.4742
Phoenix/ACSS	954.0	42x0.1507	7x0.0837	0.7877	0.7491	1.155	0.0176	0.0185	0.0228	0.0330	985	1770	0.0379	0.0752	0.4751
Corncrake/ACSS	954.0	20x0.2184	7x0.0971	0.8011	0.7492	1.165	0.0175	0.0183	0.0219	0.0309	1005	1835	0.0380	0.0751	0.4738

(1) Code words shown denote ACSS with regular-strength Class A Galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(4) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

(5) Based on the given conductor temperature at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/m² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.



General Cable

TransPowr® ACSS Bare Overhead Conductor

Aluminum Conductor Steel-Supported Concentric-Lay-Stranded

ACSS, CONCENTRIC-LAY-STRANDED (MECHANICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS			STANDARD PACKAGES (3)		
		AL.	STEEL	TOTAL	AL.		TOTAL	AL.	STEEL	AL.	STEEL	GA2 OR MA2	GA3 OR MA3 (HS)	GA5 OR MA5 (UHS)	REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Rail/ACSS	954.0	45x0.1456	7x0.0971	0.8011	0.7492	1.165	1074	899	175	83.66	16.34	16700	18000	20400	RMT 96.60 RMT 90.45 RM 68.38	16125 10750 5375	15000 10000 5000
Towhee/ACSS	954.0	48x0.1410	7x0.1097	0.8157	0.7495	1.175	1123	899	224	80.05	19.95	19700	21300	24300	RMT 96.60 RMT 90.45 RMT 84.36	17970 11980 5990	16000 10670 5335
Redbird/ACSS	954.0	24x0.1994	7x0.1329	0.8466	0.7495	1.196	1227	899	329	73.21	26.79	26000	28000	32300	RMT 84.45 RMT 84.36	9825 6545	8000 5330
Cardinal/ACSS	954.0	54x0.1329	7x0.1329	0.8462	0.7491	1.196	1227	899	329	73.21	26.79	26000	28000	32300	RMT 96.60 RMT 90.45	19140 11780	15600 9600
Canvasback/ACSS	954.0	30x0.1783	19x0.1070	0.9201	0.7493	1.248	1480	901	580	60.85	39.15	41100	45400	53100	RMT 96.60 RMT 84.45 RM 68.38	14780 9865 4930	9980 6660 3330
Snowbird/ACSS	1033.5	42x0.1569	7x0.0872	0.8539	0.8121	1.203	1115	973	142	87.31	12.69	15400	16400	18500	RMT 90.45 RM 68.38	9610 4805	8610 4305
Ortolan/ACSS	1033.5	45x0.1515	7x0.1010	0.8681	0.8121	1.212	1163	973	190	83.68	16.32	18100	19500	22000	RMT 96.60 RMT 90.45 RM 68.38	16110 10735 5365	13850 9230 4615
Whooper/ACSS	1033.5	48x0.1467	7x0.1141	0.8829	0.8113	1.223	1216	973	242	80.07	19.93	21300	23100	26300	RMT 96.60 RMT 90.45 RM 68.38	17945 11970 5985	14770 9850 4925
Curlew/ACSS	1033.5	54x0.1383	7x0.1383	0.9164	0.8112	1.245	1329	973	356	73.22	26.78	28200	30300	35000	RMT 96.60 RMT 90.45	19140 11045	14400 8310
Avocet/ACSS	1113.0	42x0.1628	7x0.0904	0.9192	0.8743	1.248	1200	1048	152	87.33	12.67	16300	17500	19500	RMT 96.60 RMT 90.45 RM 68.38	14400 9600 4800	12000 8000 4000
Bluejay/ACSS	1113.0	45x0.1573	7x0.1049	0.9350	0.8745	1.259	1253	1048	205	83.66	16.34	19500	21000	23800	RMT 96.60 RMT 90.45 RM 68.38	16120 10745 1610	12853 8570 1285
Bullfinch/ACSS	1113.0	48x0.1523	7x0.1184	0.9516	0.8744	1.269	1310	1048	261	80.04	19.96	23000	24900	28400	RMT 96.60 RMT 90.45 RMT 84.36	17945 11975 5985	13700 9140 4570
Finch/ACSS	1113.0	54x0.1436	19x0.0861	0.9854	0.8746	1.293	1430	1053	376	73.69	26.31	30400	33200	38700	RMT 96.60 RMT 90.45	19035 10970	13310 7670
Oxbird/ACSS	1192.5	42x0.1685	7x0.0936	0.9847	0.9365	1.292	1286	1123	163	87.32	12.68	17500	18700	20900	RMT 96.60 RMT 90.45 RM 68.38	14405 9605 4805	11200 7470 3735
Bunting/ACSS	1192.5	45x0.1628	7x0.1085	1.0014	0.9367	1.302	1342	1123	219	83.68	16.32	20900	22500	25400	RMT 96.60 RMT 90.45 RM 68.38	16105 10735 5370	12000 8000 4000
Cormorant/ACSS	1192.5	48x0.1576	7x0.1226	1.0190	0.9364	1.313	1403	1123	280	80.06	19.94	24600	26200	30000	RMT 96.60 RMT 90.45 RMT 84.36	17960 11970 5985	12800 8530 4265
Grackle/ACSS	1192.5	54x0.1486	19x0.0892	1.0553	0.9365	1.338	1531	1129	403	73.70	26.30	32600	35500	41500	RMT 96.60 RMT 90.45	19025 10970	12420 7160
Scissortail/ACSS	1272.0	42x0.1740	7x0.0967	1.0501	0.9987	1.334	1372	1198	174	87.32	12.68	18700	20000	22300	RMT 96.60 RMT 90.45 RM 68.38	14405 9605 4800	10500 7000 3500
Bittern/ACSS	1272.0	45x0.1681	7x0.1121	1.0678	0.9987	1.345	1432	1198	234	83.67	16.33	22300	24000	27100	RMT 96.60 RMT 90.45 RM 68.38	16110 10740 5370	11250 7500 3750

(1) Code words shown denote ACSS with regular-strength Class A Galvanized steel core (/GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may be slightly greater or slightly less than the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSS Bare Overhead Conductor

Aluminum Conductor Steel-Supported Concentric-Lay-Stranded

ACSS, CONCENTRIC-LAY-STRANDED (ELECTRICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT				AMPACITY (5)		GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
		AL.	STEEL	TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C	AC @ 200°C	75°C	200°C			
Rail/ACSS	954.0	45x0.1456	7x0.0971	0.8011	0.7492	1.165	0.0175	0.0185	0.0228	0.0329	990	1775	0.0384	0.0749	0.4738
Towhee/ACSS	954.0	48x0.1410	7x0.1097	0.8157	0.7495	1.175	0.0175	0.0184	0.0227	0.0328	990	1785	0.0390	0.0746	0.4725
Redbird/ACSS	954.0	24x0.1994	7x0.1329	0.8466	0.7495	1.196	0.0174	0.0181	0.0217	0.0306	1020	1860	0.0398	0.0741	0.4697
Cardinal/ACSS	954.0	54x0.1329	7x0.1329	0.8462	0.7491	1.196	0.0174	0.0182	0.0225	0.0326	1000	1800	0.0401	0.0739	0.4697
Canvasback/ACSS	954.0	30x0.1783	19x0.1070	0.9201	0.7493	1.248	0.0172	0.0178	0.0214	0.0302	1040	1900	0.0427	0.0725	0.4630
Snowbird/ACSS	1033.5	42x0.1569	7x0.0872	0.8539	0.8121	1.203	0.0162	0.0172	0.0211	0.0305	1035	1865	0.0394	0.0743	0.4688
Ortolan/ACSS	1033.5	45x0.1515	7x0.1010	0.8681	0.8121	1.212	0.0162	0.0171	0.0211	0.0304	1040	1875	0.0400	0.0740	0.4676
Whooper/ACSS	1033.5	48x0.1467	7x0.1141	0.8829	0.8113	1.223	0.0161	0.0170	0.0210	0.0303	1040	1880	0.0406	0.0737	0.4662
Curlew/ACSS	1033.5	54x0.1383	7x0.1383	0.9164	0.8112	1.245	0.0161	0.0169	0.0208	0.0301	1050	1900	0.0418	0.0730	0.4634
Avocet/ACSS	1113.0	42x0.1628	7x0.0904	0.9192	0.8743	1.248	0.0151	0.0160	0.0197	0.0283	1080	1960	0.0409	0.0735	0.4630
Bluejay/ACSS	1113.0	45x0.1573	7x0.1049	0.9350	0.8745	1.259	0.0150	0.0159	0.0196	0.0282	1085	1970	0.0415	0.0731	0.4618
Bullfinch/ACSS	1113.0	48x0.1523	7x0.1184	0.9516	0.8744	1.269	0.0150	0.0159	0.0195	0.0281	1090	1975	0.0421	0.0728	0.4604
Finch/ACSS	1113.0	54x0.1436	19x0.0861	0.9854	0.8746	1.293	0.0150	0.0158	0.0195	0.0281	1100	1990	0.0434	0.0721	0.4576
Oxbird/ACSS	1192.5	42x0.1685	7x0.0936	0.9847	0.9365	1.292	0.0141	0.0150	0.0184	0.0264	1130	2050	0.0423	0.0727	0.4576
Bunting/ACSS	1192.5	45x0.1628	7x0.1085	1.0014	0.9367	1.302	0.0140	0.0150	0.0183	0.0263	1135	2060	0.0429	0.0723	0.4564
Cormorant/ACSS	1192.5	48x0.1576	7x0.1226	1.0190	0.9364	1.313	0.0140	0.0149	0.0183	0.0263	1140	2070	0.0436	0.0720	0.4550
Grackle/ACSS	1192.5	54x0.1486	19x0.0892	1.0553	0.9365	1.338	0.0140	0.0148	0.0182	0.0262	1145	2085	0.0449	0.0713	0.4522
Scissortail/ACSS	1272.0	42x0.1740	7x0.0967	1.0501	0.9987	1.334	0.0132	0.0142	0.0173	0.0248	1175	2140	0.0437	0.0719	0.4526
Bittern/ACSS	1272.0	45x0.1681	7x0.1121	1.0678	0.9987	1.345	0.0131	0.0141	0.0172	0.0247	1180	2150	0.0443	0.0716	0.4513

(1) Code words shown denote ACSS with regular-strength Class A Galvanized steel core ((GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(4) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

(5) Based on the given conductor temperature at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.

TransPowr® ACSS Bare Overhead Conductor

Aluminum Conductor Steel-Supported Concentric-Lay-Stranded

ACSS, CONCENTRIC-LAY-STRANDED (MECHANICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS			STANDARD PACKAGES (3)		
		AL.	STEEL	TOTAL	AL.		TOTAL	AL.	STEEL	AL.	STEEL	GA2 OR MA2	GA3 OR MA3 (HS)	GA5 OR MA5 (UHS)	REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Diver/ACSS	1272.0	48x0.1628	7x0.1266	1.0873	0.9992	1.357	1496	1198	298	80.06	19.94	26200	28000	31900	RMT 96.60 RMT 90.45 RMT 84.36	17950 11970 5985	12000 8000 4000
Pheasant/ACSS	1272.0	54x0.1535	19x0.0921	1.1259	0.9993	1.381	1633	1204	429	73.71	26.29	34100	37300	43000	RMT 96.60 RMT 90.45	19025 10975	11650 6720
Ringdove/ACSS	1351.5	42x0.1794	7x0.0997	1.1163	1.0617	1.376	1458	1273	185	87.31	12.69	19900	21200	23700	RMT 96.60 RMT 90.45 RM 68.38	14435 9630 4815	9880 6590 3295
Dipper/ACSS	1351.5	45x0.1733	7x0.1155	1.1348	1.0614	1.386	1521	1273	248	83.68	16.32	23700	25500	28800	RMT 96.60 RMT 90.45 RM 68.38	16140 10760 5380	10590 7060 3530
-none-	1351.5	48x0.1678	7x0.1305	1.1551	1.0614	1.398	1590	1273	317	80.06	19.94	27900	29700	33900	RMT 96.60 RMT 90.45 RMT 84.36	17985 11995 6000	11290 7530 3765
Martin/ACSS	1351.5	54x0.1582	19x0.0949	1.1958	1.0614	1.424	1735	1279	456	73.72	26.28	36200	39600	45600	RMT 96.60 RMT 90.45	19015 10965	10960 6320
Popinjay/ACSS	1431.0	42x0.1846	7x0.1026	1.1820	1.1241	1.415	1544	1348	196	87.31	12.69	21000	22500	25100	RMT 96.60 RMT 90.45 RM 68.38	14435 9620 4810	9330 6220 3110
Bobolink/ACSS	1431.0	45x0.1783	7x0.1189	1.2013	1.1236	1.426	1611	1348	263	83.67	16.33	25100	27000	30500	RMT 96.60 RMT 90.45 RM 68.38	16140 10755 5385	10000 6665 3335
Wagtail/ACSS	1431.0	48x0.1727	7x0.1343	1.2235	1.1244	1.439	1684	1348	336	80.06	19.94	29500	31500	35900	RMT 96.60 RMT 90.45 RMT 84.36	17995 12000 6000	10660 7110 3555
Plover/ACSS	1431.0	54x0.1628	19x0.0977	1.2665	1.1241	1.465	1838	1354	483	73.71	26.29	38400	41900	48300	RMT 96.60 RMT 90.45	19025 10975	10350 5970
Nuthatch/ACSS	1510.5	45x0.1832	7x0.1221	1.2682	1.1862	1.466	1700	1423	277	83.68	16.32	26500	28100	31800	RMT 96.60 RMT 90.45 RM 68.38	16115 10745 5370	9480 6320 3160
Parrot/ACSS	1510.5	54x0.1672	19x0.1003	1.3358	1.1856	1.505	1939	1430	509	73.74	26.26	40500	44200	51000	RMT 96.60 RMT 90.45	18990 10950	9800 5650
Ratite/ACSS	1590.0	42x0.1946	7x0.1081	1.3134	1.2492	1.492	1715	1498	218	87.32	12.68	23400	25000	27900	RMT 96.60 RMT 90.45 RM 68.38	14405 9605 4800	8400 5600 2800
Lapwing/ACSS	1590.0	45x0.1880	7x0.1253	1.3355	1.2492	1.504	1790	1498	292	83.67	16.33	27900	29600	33500	RMT 96.60 RMT 90.45 RM 68.38	16110 10740 5370	9000 6000 3000
Hornbill/ACSS	1590.0	48x0.1820	7x0.1416	1.3590	1.2487	1.517	1871	1498	373	80.05	19.95	32200	34400	39400	RMT 96.60 RMT 90.45 RMT 84.36	17960 11975 5985	9600 6400 3200
Falcon/ACSS	1590.0	54x0.1716	19x0.1030	1.4072	1.2489	1.545	2042	1505	537	73.70	26.30	42600	46600	53700	RMT 96.60 RMT 90.45	19030 10965	9320 5370
Chukar/ACSS	1780.0	84x0.1456	19x0.0874	1.5126	1.3986	1.602	2071	1685	387	81.33	18.67	35300	38200	43900	RMT 96.60	19060	9200
Seahawk/ACSS	1869.0	68x0.1658	7x0.0921	1.5148	1.4681	1.603	1918	1760	158	91.77	8.23	21500	22700	24800	RMT 96.60	17345	9000
Mockingbird/ACSS	2034.5	72x0.1681	7x0.1121	1.6670	1.5979	1.681	2160	1926	234	89.17	10.83	27200	28900	32000	RMT 96.60	16115	7460
Roadrunner/ACSS	2057.5	76x0.1645	19x0.0768	1.7033	1.6152	1.700	2246	1947	299	86.71	13.29	31700	33900	38300	RMT 96.60	17520	7800
Bluebird/ACSS	2156.0	84x0.1602	19x0.0961	1.8310	1.6931	1.762	2508	2041	467	81.36	18.64	42100	45500	51700	RMT 96.60	18805	7500
Kiwi/ACSS	2167.0	72x0.1735	7x0.1157	1.7758	1.7022	1.735	2300	2051	249	89.17	10.83	29000	30800	34100	RMT 96.60	16100	7000
Thrasher/ACSS	2312.0	76x0.1744	19x0.0814	1.9144	1.8155	1.802	2524	2188	335	86.71	13.29	35600	38100	43000	RMT 96.60	17660	7000
Joree/ACSS	2515.0	76x0.1819	19x0.0849	2.0826	1.9750	1.880	2745	2380	365	86.71	13.29	38700	41400	46800	RMT 96.60	17295	6300

(1) Code words shown denote ACSS with regular-strength Class A Galvanized steel core (/GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may be slightly greater or slightly less than the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSS Bare Overhead Conductor

Aluminum Conductor Steel-Supported Concentric-Lay-Stranded

ACSS, CONCENTRIC-LAY-STRANDED (ELECTRICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT				AMPACITY (5)		GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
		AL.	STEEL	TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C	AC @ 200°C	75°C	200°C			
Diver/ACSS	1272.0	48x0.1628	7x0.1266	1.0873	0.9992	1.357	0.0131	0.0140	0.0172	0.0246	1185	2160	0.0450	0.0713	0.4500
Pheasant/ACSS	1272.0	54x0.1535	19x0.0921	1.1259	0.9993	1.381	0.0131	0.0139	0.0171	0.0246	1190	2175	0.0464	0.0706	0.4471
Ringdove/ACSS	1351.5	42x0.1794	7x0.0997	1.1163	1.0617	1.376	0.0124	0.0134	0.0163	0.0234	1220	2225	0.0451	0.0712	0.4478
Dipper/ACSS	1351.5	45x0.1733	7x0.1155	1.1348	1.0614	1.386	0.0124	0.0133	0.0163	0.0233	1225	2235	0.0457	0.0709	0.4466
-none-	1351.5	48x0.1678	7x0.1305	1.1551	1.0614	1.398	0.0123	0.0133	0.0162	0.0232	1230	2245	0.0464	0.0706	0.4452
Martin/ACSS	1351.5	54x0.1582	19x0.0949	1.1958	1.0614	1.424	0.0123	0.0132	0.0161	0.0231	1235	2260	0.0478	0.0699	0.4424
Popinjay/ACSS	1431.0	42x0.1846	7x0.1026	1.1820	1.1241	1.415	0.0117	0.0127	0.0155	0.0221	1260	2310	0.0464	0.0706	0.4434
Bobolink/ACSS	1431.0	45x0.1783	7x0.1189	1.2013	1.1236	1.426	0.0117	0.0127	0.0154	0.0220	1265	2320	0.0470	0.0703	0.4421
Wagtail/ACSS	1431.0	48x0.1727	7x0.1343	1.2235	1.1244	1.439	0.0117	0.0126	0.0153	0.0219	1270	2330	0.0477	0.0699	0.4408
Plover/ACSS	1431.0	54x0.1628	19x0.0977	1.2665	1.1241	1.465	0.0117	0.0125	0.0153	0.0219	1280	2350	0.0492	0.0692	0.4379
Nuthatch/ACSS	1510.5	45x0.1832	7x0.1221	1.2682	1.1862	1.466	0.0111	0.0121	0.0147	0.0209	1310	2405	0.0483	0.0696	0.4379
Parrot/ACSS	1510.5	54x0.1672	19x0.1003	1.3358	1.1856	1.505	0.0110	0.0119	0.0145	0.0207	1325	2435	0.0505	0.0686	0.4337
Ratite/ACSS	1590.0	42x0.1946	7x0.1081	1.3134	1.2492	1.492	0.0105	0.0116	0.0140	0.0199	1340	2475	0.0489	0.0694	0.4351
Lapwing/ACSS	1590.0	45x0.1880	7x0.1253	1.3355	1.2492	1.504	0.0105	0.0115	0.0140	0.0199	1350	2485	0.0496	0.0690	0.4338
Hornbill/ACSS	1590.0	48x0.1820	7x0.1416	1.3590	1.2487	1.517	0.0105	0.0114	0.0139	0.0198	1355	2500	0.0503	0.0687	0.4325
Falcon/ACSS	1590.0	54x0.1716	19x0.1030	1.4072	1.2489	1.545	0.0105	0.0114	0.0138	0.0197	1365	2520	0.0519	0.0680	0.4297
Chukar/ACSS	1780.0	84x0.1456	19x0.0874	1.5126	1.3986	1.602	0.0094	0.0104	0.0122	0.0169	1465	2750	0.0532	0.0674	0.4240
Seahawk/ACSS	1869.0	68x0.1658	7x0.0921	1.5148	1.4681	1.603	0.0090	0.0101	0.0119	0.0163	1490	2805	0.0523	0.0678	0.4239
Mockingbird/ACSS	2034.5	72x0.1681	7x0.1121	1.6670	1.5979	1.681	0.0083	0.0094	0.0110	0.0151	1565	2960	0.0551	0.0666	0.4164
Roadrunner/ACSS	2057.5	76x0.1645	19x0.0768	1.7033	1.6152	1.700	0.0082	0.0093	0.0108	0.0149	1580	2995	0.0560	0.0662	0.4146
Bluebird/ACSS	2156.0	84x0.1602	19x0.0961	1.8310	1.6931	1.762	0.0078	0.0088	0.0103	0.0141	1640	3105	0.0586	0.0652	0.4090
Kiwi/ACSS	2167.0	72x0.1735	7x0.1157	1.7758	1.7022	1.735	0.0078	0.0090	0.0104	0.0142	1620	3080	0.0569	0.0659	0.4115
Thrasher/ACSS	2312.0	76x0.1744	19x0.0814	1.9144	1.8155	1.802	0.0073	0.0085	0.0098	0.0134	1690	3220	0.0594	0.0649	0.4055
Joree/ACSS	2515.0	76x0.1819	19x0.0849	2.0826	1.9750	1.880	0.0067	0.0079	0.0092	0.0124	1765	3390	0.0619	0.0639	0.3989

(1) Code words shown denote ACSS with regular-strength Class A Galvanized steel core ((GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(4) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

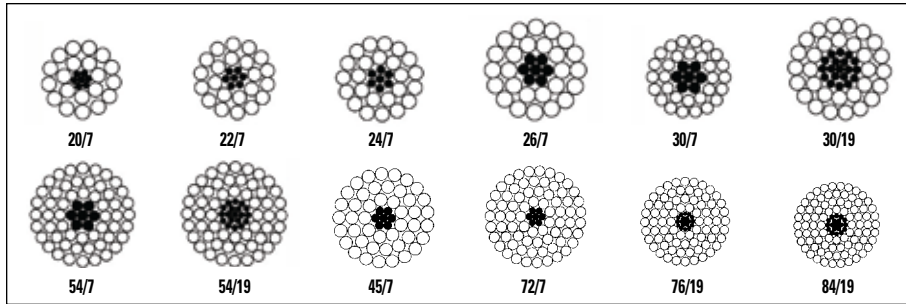
(5) Based on the given conductor temperature at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.

Notes

TransPowr® ACSS/AW Bare Overhead Conductor

Aluminum Conductor Aluminum-Clad Steel-Supported Concentric-Lay-Stranded



Product Construction:

Complete Conductor:

ACSS/AW is a composite concentric-lay-stranded cable. Aluminum-clad steel strands form the central core of the cable, around which is stranded one or more layers of aluminum 1350-0 wires. ACSS/AW conductors are manufactured in accordance with the latest applicable issue of ASTM B856. The "0" temper of the aluminum, a fully annealed or soft temper, causes most or all of the mechanical load of ACSS/AW to be carried by the steel. The aluminum-clad steel core may consist of 7, 19, 37 or more wires. Numerous combinations of aluminum and steel strand and layers are possible. The sizes and strandings listed on the following pages are those most frequently used for overhead lines.

Features and Benefits:

The AW core, which consists of a thick layer of aluminum (approx. 10% of the nominal wire/radius) over steel, gives ACSS/AW conductors the advantages of standard ACSS along with the light weight and good conductivity of aluminum and the high tensile strength and ruggedness of steel. ACSS/AW can operate continuously at high temperatures (250°C) without damage. The cross-sections above illustrate some common stranding.

Applications:

Aluminum conductor steel-supported with aluminum-clad steel wire (ACSS/AW) are used for overhead distribution and transmission lines where a high degree of corrosion resistance is required.

Options:

- High-strength aluminum-clad steel core (/AW3)
- Trapezoidal-shaped aluminum strands (/TW)
- Non-specular surface finish (/NS)

For other conductor sizes, designs and/or specific installation requirements not shown in the tables, contact your General Cable sales representative or e-mail info@generalcable.com.

TransPowr® ACSS/AW Bare Overhead Conductor

Aluminum Conductor Aluminum-Clad Steel-Supported Concentric-Lay-Stranded

ACSS/AW, CONCENTRIC-LAY-STRANDED (MECHANICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS	STANDARD PACKAGES (3)		
		AL.	STEEL	TOTAL	AL.		TOTAL	AL.	STEEL	AL.	STEEL		REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Spoonbill/ACSS/AW	266.8	22x0.1101	7x0.0612	0.2300	0.2095	0.624	310	251	59	80.97	19.03	5720	RM 68.38	2715	8755
Scaup/ACSS/AW	266.8	24x0.1054	7x0.0703	0.2366	0.2095	0.633	329	251	78	76.33	23.67	7010	RM 68.38	3130	9520
Partridge/ACSS/AW	266.8	26x0.1013	7x0.0788	0.2437	0.2096	0.642	349	251	98	71.96	28.04	8370	RM 68.38	3605	10330
Junco/ACSS/AW	266.8	30x0.0943	7x0.0943	0.2584	0.2095	0.660	392	252	140	64.24	35.76	11200	RM 68.38	4660	11890
Ostrich/ACSS/AW	300.0	26x0.1074	7x0.0835	0.2739	0.2355	0.680	393	283	110	71.99	28.01	9400	RM 68.38	3600	9190
Trogon/ACSS/AW	336.4	20x0.1297	7x0.0576	0.2825	0.2642	0.692	369	317	52	85.83	14.17	5710	RM 68.38	4655	12610
Woodcock/ACSS/AW	336.4	22x0.1237	7x0.0687	0.2903	0.2644	0.701	391	317	74	80.98	19.02	7220	RMT 84.36 RM 68.38	5425 2715	13880 6940
Widgeon/ACSS/AW	336.4	24x0.1184	7x0.0789	0.2985	0.2642	0.710	415	317	98	76.34	23.66	8830	RMT 84.36 RM 68.38	6280 3140	15130 7565
Linnet/ACSS/AW	336.4	26x0.1137	7x0.0884	0.3070	0.2640	0.720	440	317	123	72.00	28.00	10500	RMT 84.36 RM 68.38	7210 3605	16390 8195
Oriole/ACSS/AW	336.4	30x0.1059	7x0.1059	0.3259	0.2642	0.741	494	318	177	64.23	35.77	14200	RM 68.38	4670	9430
Ptarmigan/ACSS/AW	397.5	20x0.1410	7x0.0627	0.3339	0.3123	0.752	436	374	62	85.79	14.21	6800	RM 68.38	4665	10670
Stork/ACSS/AW	397.5	22x0.1344	7x0.0747	0.3428	0.3121	0.762	462	374	88	80.97	19.03	8530	RMT 84.36 RM 68.38	5420 2710	11730 5865
Brant/ACSS/AW	397.5	24x0.1287	7x0.0858	0.3527	0.3122	0.772	491	374	116	76.33	23.67	10400	RMT 84.36 RM 68.38	6265 3135	12790 6395
Ibis/ACSS/AW	397.5	26x0.1236	7x0.0961	0.3627	0.3120	0.783	520	374	146	71.99	28.01	12400	RMT 84.36 RM 68.38	7210 3605	13870 6935
Lark/ACSS/AW	397.5	30x0.1151	7x0.1151	0.3850	0.3121	0.806	584	375	209	64.24	35.76	16700	RM 68.38	4660	7980
Tailorbird/ACSS/AW	477.0	20x0.1544	7x0.0686	0.4003	0.3746	0.824	523	449	74	85.82	14.18	8100	RM 68.38	4655	8900
Toucan/ACSS/AW	477.0	22x0.1472	7x0.0818	0.4112	0.3744	0.834	555	449	106	80.98	19.02	10200	RMT 84.36 RM 68.38	5435 2715	9790 4895
Flicker/ACSS/AW	477.0	24x0.1410	7x0.0940	0.4233	0.3747	0.846	589	449	139	76.33	23.67	12500	RMT 84.36 RM 68.38	6270 3135	10660 5330
Hawk/ACSS/AW	477.0	26x0.1354	7x0.1053	0.4353	0.3744	0.858	624	449	175	71.98	28.02	14900	RMT 84.36 RM 68.38	7215 3605	11560 5780
Hen/ACSS/AW	477.0	30x0.1261	7x0.1261	0.4621	0.3747	0.883	701	450	251	64.23	35.77	20100	RM 68.38	4660	6650
Heron/ACSS/AW	500.0	30x0.1291	7x0.1291	0.4843	0.3927	0.904	735	472	263	64.23	35.77	20600	RM 68.38	4665	6345
Tody/ACSS/AW	556.5	20x0.1668	7x0.0741	0.4672	0.4370	0.890	611	524	87	85.82	14.18	9450	RM 68.38	4655	7620
Sapsucker/ACSS/AW	556.5	22x0.1590	7x0.0883	0.4797	0.4368	0.901	647	524	123	81.00	19.00	11900	RMT 84.36 RM 68.38	5430 2715	8390 4195
Parakeet/ACSS/AW	556.5	24x0.1523	7x0.1015	0.4939	0.4372	0.914	687	524	162	76.34	23.66	14600	RMT 84.36 RM 68.38	6270 3135	9140 4570
Dove/ACSS/AW	556.5	26x0.1463	7x0.1138	0.5083	0.4371	0.927	728	524	204	71.96	28.04	17500	RMT 84.36 RM 68.38	7215 3605	9910 4955
Eagle/ACSS/AW	556.5	30x0.1362	7x0.1362	0.5391	0.4371	0.953	818	525	293	64.23	35.77	22900	RM 68.38	4665	5700
Peacock/ACSS/AW	605.0	24x0.1588	7x0.1059	0.5370	0.4753	0.953	747	570	177	76.31	23.69	15900	RMT 84.36 RM 68.38	6280 3140	8410 4205
Squab/ACSS/AW	605.0	26x0.1525	7x0.1186	0.5522	0.4749	0.966	792	570	222	71.98	28.02	19000	RMT 84.36 RM 68.38	7215 3610	9110 4555
Wood Duck/ACSS/AW	605.0	30x0.1420	7x0.1420	0.5860	0.4751	0.994	889	571	318	64.24	35.76	24400	RM 68.38	4665	5245
Teal/ACSS/AW	605.0	30x0.1420	19x0.0852	0.5834	0.4751	0.994	883	571	311	64.72	35.28	25000	RMT 84.45 RM 68.38	9250 4625	10490 5245
Turacos/ACSS/AW	636.0	20x0.1783	7x0.0792	0.5339	0.4994	0.951	698	599	99	85.83	14.17	10800	RMT 84.36 RM 68.38	6980 4655	10000 6670
Goldfinch/ACSS/AW	636.0	22x0.1700	7x0.0944	0.5483	0.4994	0.963	740	599	141	81.00	19.00	13600	RMT 84.45 RMT 84.36 RM 68.38	8145 5430 2715	11010 7340 3670
Rook/ACSS/AW	636.0	24x0.1628	7x0.1085	0.5643	0.4996	0.977	785	599	186	76.34	23.66	16700	RMT 84.45 RMT 84.36 RM 68.38	9420 6280 3140	12000 8000 4000

(1) Code words shown, including suffix /AW, denote ACSR with aluminum-clad steel core. See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may be slightly greater or slightly less than the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSS/AW Bare Overhead Conductor

Aluminum Conductor Aluminum-Clad Steel-Supported Concentric-Lay-Stranded

ACSS/AW, CONCENTRIC-LAY-STRANDED (ELECTRICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT				AMPACITY (5)		GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
		AL.	STEEL	TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C	AC @ 200°C	75°C	200°C			
Spoonbill/ACSS/AW	266.8	22x0.1101	7x0.0612	0.2300	0.2095	0.624	0.0613	0.0626	0.0753	0.1070	460	810	0.0204	0.0894	0.5716
Scaup/ACSS/AW	266.8	24x0.1054	7x0.0703	0.2366	0.2095	0.633	0.0607	0.0620	0.0745	0.1059	465	815	0.0209	0.0889	0.5694
Partridge/ACSS/AW	266.8	26x0.1013	7x0.0788	0.2437	0.2096	0.642	0.0600	0.0614	0.0737	0.1047	470	825	0.0213	0.0884	0.5672
Junco/ACSS/AW	266.8	30x0.0943	7x0.0943	0.2584	0.2095	0.660	0.0589	0.0602	0.0723	0.1025	480	840	0.0223	0.0875	0.5628
Ostrich/ACSS/AW	300.0	26x0.1074	7x0.0835	0.2739	0.2355	0.680	0.0534	0.0546	0.0656	0.0931	505	890	0.0226	0.0871	0.5581
Trogon/ACSS/AW	336.4	20x0.1297	7x0.0576	0.2825	0.2642	0.692	0.0490	0.0502	0.0604	0.0857	530	935	0.0225	0.0872	0.5555
Woodcock/ACSS/AW	336.4	22x0.1237	7x0.0687	0.2903	0.2644	0.701	0.0486	0.0497	0.0598	0.0849	535	940	0.0230	0.0867	0.5534
Widgeon/ACSS/AW	336.4	24x0.1184	7x0.0789	0.2985	0.2642	0.710	0.0481	0.0492	0.0592	0.0840	540	950	0.0235	0.0862	0.5513
Linnet/ACSS/AW	336.4	26x0.1137	7x0.0884	0.3070	0.2640	0.720	0.0476	0.0487	0.0585	0.0831	545	960	0.0240	0.0857	0.5491
Oriole/ACSS/AW	336.4	30x0.1059	7x0.1059	0.3259	0.2642	0.741	0.0467	0.0477	0.0573	0.0814	555	980	0.0250	0.0848	0.5446
Ptarmigan/ACSS/AW	397.5	20x0.1410	7x0.0627	0.3339	0.3123	0.752	0.0415	0.0426	0.0511	0.0726	590	1040	0.0244	0.0853	0.5424
Stork/ACSS/AW	397.5	22x0.1344	7x0.0747	0.3428	0.3121	0.762	0.0411	0.0421	0.0506	0.0719	595	1050	0.0249	0.0848	0.5404
Brant/ACSS/AW	397.5	24x0.1287	7x0.0858	0.3527	0.3122	0.772	0.0407	0.0417	0.0501	0.0711	600	1060	0.0255	0.0843	0.5382
Ibis/ACSS/AW	397.5	26x0.1236	7x0.0961	0.3627	0.3120	0.783	0.0403	0.0413	0.0496	0.0703	605	1070	0.0261	0.0838	0.5360
Lark/ACSS/AW	397.5	30x0.1151	7x0.1151	0.3850	0.3121	0.806	0.0395	0.0404	0.0486	0.0689	615	1095	0.0272	0.0829	0.5316
Tailorbird/ACSS/AW	477.0	20x0.1544	7x0.0686	0.4003	0.3746	0.824	0.0346	0.0355	0.0427	0.0605	660	1175	0.0267	0.0832	0.5281
Toucan/ACSS/AW	477.0	22x0.1472	7x0.0818	0.4112	0.3744	0.834	0.0343	0.0352	0.0422	0.0599	665	1185	0.0273	0.0827	0.5261
Flicker/ACSS/AW	477.0	24x0.1410	7x0.0940	0.4233	0.3747	0.846	0.0339	0.0348	0.0418	0.0593	670	1195	0.0279	0.0822	0.5240
Hawk/ACSS/AW	477.0	26x0.1354	7x0.1053	0.4353	0.3744	0.858	0.0336	0.0344	0.0413	0.0586	675	1210	0.0285	0.0817	0.5218
Hen/ACSS/AW	477.0	30x0.1261	7x0.1261	0.4621	0.3747	0.883	0.0329	0.0337	0.0405	0.0574	690	1230	0.0298	0.0808	0.5173
Heron/ACSS/AW	500.0	30x0.1291	7x0.1291	0.4843	0.3927	0.904	0.0314	0.0322	0.0387	0.0548	710	1270	0.0305	0.0802	0.5136
Tody/ACSS/AW	556.5	20x0.1668	7x0.0741	0.4672	0.4370	0.890	0.0296	0.0305	0.0366	0.0519	725	1300	0.0289	0.0815	0.5161
Sapsucker/ACSS/AW	556.5	22x0.1590	7x0.0883	0.4797	0.4368	0.901	0.0294	0.0302	0.0363	0.0514	730	1310	0.0295	0.0810	0.5140
Parakeet/ACSS/AW	556.5	24x0.1523	7x0.1015	0.4939	0.4372	0.914	0.0291	0.0299	0.0359	0.0509	740	1325	0.0302	0.0805	0.5119
Dove/ACSS/AW	556.5	26x0.1463	7x0.1138	0.5083	0.4371	0.927	0.0288	0.0296	0.0355	0.0503	745	1335	0.0308	0.0800	0.5097
Eagle/ACSS/AW	556.5	30x0.1362	7x0.1362	0.5391	0.4371	0.953	0.0282	0.0290	0.0348	0.0492	760	1365	0.0321	0.0790	0.5052
Peacock/ACSS/AW	605.0	24x0.1588	7x0.1059	0.5370	0.4753	0.953	0.0267	0.0275	0.0330	0.0468	780	1395	0.0315	0.0795	0.5053
Squab/ACSS/AW	605.0	26x0.1525	7x0.1186	0.5522	0.4749	0.966	0.0265	0.0272	0.0327	0.0463	785	1410	0.0321	0.0790	0.5031
Wood Duck/ACSS/AW	605.0	30x0.1420	7x0.1420	0.5860	0.4751	0.994	0.0260	0.0267	0.0320	0.0453	800	1440	0.0335	0.0780	0.4987
Teal/ACSS/AW	605.0	30x0.1420	19x0.0852	0.5834	0.4751	0.994	0.0260	0.0267	0.0320	0.0454	800	1440	0.0335	0.0780	0.4987
Turacos/ACSS/AW	636.0	20x0.1783	7x0.0792	0.5339	0.4994	0.951	0.0259	0.0268	0.0321	0.0455	790	1415	0.0309	0.0799	0.5056
Goldfinch/ACSS/AW	636.0	22x0.1700	7x0.0944	0.5483	0.4994	0.963	0.0257	0.0265	0.0318	0.0450	795	1430	0.0316	0.0794	0.5036
Rook/ACSS/AW	636.0	24x0.1628	7x0.1085	0.5643	0.4996	0.977	0.0254	0.0262	0.0314	0.0445	800	1445	0.0322	0.0789	0.5014

(1) Code words shown, including suffix /AW, denote ACSR with aluminum-clad steel core. See the options section to find the appropriate code word modifier designation for alternative design options.

(4) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

(5) Based on the given conductor temperature at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.

TransPowr® ACSS/AW Bare Overhead Conductor

Aluminum Conductor Aluminum-Clad Steel-Supported Concentric-Lay-Stranded

ACSS/AW, CONCENTRIC-LAY-STRANDED (MECHANICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS	STANDARD PACKAGES (3)		
		AL.	STEEL	TOTAL	AL.		TOTAL	AL.	STEEL	AL.	STEEL		REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Grosbeak/ACSS/AW	636.0	26x0.1564	7x0.1216	0.5808	0.4995	0.990	832	599	233	71.98	28.02	19900	RMT 90.45 RMT 84.36 RM 68.38	10825 7215 3605	13010 8670 4335
Scoter/ACSS/AW	636.0	30x0.1456	7x0.1456	0.6160	0.4995	1.019	935	601	334	64.24	35.76	25100	RMT 96.60 RM 68.38	14030 4675	15020 5005
Egret/ACSS/AW	636.0	30x0.1456	19x0.0874	0.6135	0.4995	1.019	928	601	328	64.70	35.30	26300	RMT 96.60 RMT 84.45 RM 68.38	13885 9260 4630	14960 9980 4990
Flamingo/ACSS/AW	666.6	24x0.1667	7x0.1111	0.5917	0.5238	1.000	823	628	195	76.33	23.67	17500	RMT 84.45 RMT 84.36 RM 68.38	9430 6280 3140	11460 7630 3815
Gannet/ACSS/AW	666.6	26x0.1601	7x0.1245	0.6086	0.5234	1.014	872	628	244	71.98	28.02	20900	RMT 90.45 RMT 84.36 RM 68.38	10820 7220 3610	12410 8280 4140
Stilt/ACSS/AW	715.5	24x0.1727	7x0.1151	0.6350	0.5622	1.036	883	674	209	76.33	23.67	18800	RMT 84.45 RMT 84.36 RM 68.38	9415 6270 3135	10660 7100 3550
Starling/ACSS/AW	715.5	26x0.1659	7x0.1290	0.6535	0.5620	1.051	936	674	262	71.97	28.03	22000	RMT 90.45 RMT 84.36 RM 68.38	10810 7215 3610	11550 7710 3855
Redwing/ACSS/AW	715.5	30x0.1544	19x0.0926	0.6897	0.5617	1.081	1043	676	368	64.75	35.25	29500	RMT 96.60 RMT 84.45 RM 68.38	13870 9260 4630	13300 8880 4440
Macaw/ACSS/AW	795.0	42x0.1376	7x0.0764	0.6567	0.6246	1.055	841	749	92	89.05	10.95	11400	RMT 90.45 RM 68.38	9420 4710	11200 5600
Turbit/ACSS/AW	795.0	20x0.1994	7x0.0886	0.6677	0.6246	1.063	873	749	124	85.81	14.19	13500	RMT 84.36 RM 68.38	6985 4655	8000 5330
Tern/ACSS/AW	795.0	45x0.1329	7x0.0886	0.6674	0.6242	1.063	873	749	124	85.81	14.19	13500	RMT 96.60 RMT 90.45 RM 68.38	15715 10475 5240	18000 12000 6000
Puffin/ACSS/AW	795.0	22x0.1901	7x0.1056	0.6857	0.6244	1.077	925	749	176	80.98	19.02	17100	RMT 84.45 RMT 84.36 RM 68.38	8140 5430 2715	8800 5870 2935
Cuckoo/ACSS/AW	795.0	24x0.1820	7x0.1213	0.7053	0.6244	1.092	981	749	232	76.34	23.66	20900	RMT 84.45 RMT 84.36 RM 68.38	9425 6280 3140	9610 6400 3200
Condor/ACSS/AW	795.0	54x0.1213	7x0.1213	0.7049	0.6240	1.092	981	749	232	76.34	23.66	20900	RMT 96.60 RMT 90.45	18345 10585	18720 10800
Drake/ACSS/AW	795.0	26x0.1749	7x0.1360	0.7263	0.6246	1.107	1041	749	292	71.97	28.03	24400	RMT 90.45 RMT 84.36 RM 68.38	10825 7225 3610	10400 6940 3470
Mallard/ACSS/AW	795.0	30x0.1628	19x0.0977	0.7669	0.6245	1.140	1160	751	409	64.71	35.29	32900	RMT 96.60 RMT 84.45 RM 68.38	13885 9255 4630	11970 7980 3990
Ruddy/ACSS/AW	900.0	45x0.1414	7x0.0943	0.7555	0.7066	1.131	988	848	140	85.80	14.20	15300	RMT 96.60 RMT 90.45 RM 68.38	15685 10450 5225	15890 10590 5295
Canary/ACSS/AW	900.0	54x0.1291	7x0.1291	0.7985	0.7069	1.162	1111	848	263	76.33	23.67	23200	RMT 96.60 RMT 90.45	18375 10600	16540 9540
Phoenix/ACSS/AW	954.0	42x0.1507	7x0.0837	0.7877	0.7491	1.155	1009	899	110	89.05	10.95	13600	RMT 90.45 RM 68.38	9415 4705	9340 4670

(1) Code words shown, including suffix /AW, denote ACSR with aluminum-clad steel core. See the Options section to find the appropriate code word modifier for alternative design options.

(2) Due to rounding, total values may be slightly greater or slightly less than the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSS/AW Bare Overhead Conductor

Aluminum Conductor Aluminum-Clad Steel-Supported Concentric-Lay-Stranded

ACSS/AW, CONCENTRIC-LAY-STRANDED (ELECTRICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT				AMPACITY (5)		GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGA OHM - 1000 FT (6)
		AL.	STEEL	TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C	AC @ 200°C	75°C	200°C			
Grosbeak/ACSS/AW	636.0	26x0.1564	7x0.1216	0.5808	0.4995	0.990	0.0252	0.0259	0.0311	0.0440	810	1460	0.0329	0.0784	0.4992
Scoter/ACSS/AW	636.0	30x0.1456	7x0.1456	0.6160	0.4995	1.019	0.0247	0.0254	0.0304	0.0431	825	1490	0.0344	0.0775	0.4948
Egret/ACSS/AW	636.0	30x0.1456	19x0.0874	0.6135	0.4995	1.019	0.0247	0.0254	0.0305	0.0432	825	1485	0.0344	0.0774	0.4947
Flamingo/ACSS/AW	666.6	24x0.1667	7x0.1111	0.5917	0.5238	1.000	0.0243	0.0250	0.0300	0.0425	825	1490	0.0330	0.0784	0.4977
Gannet/ACSS/AW	666.6	26x0.1601	7x0.1245	0.6086	0.5234	1.014	0.0240	0.0248	0.0297	0.0420	835	1505	0.0337	0.0779	0.4956
Stilt/ACSS/AW	715.5	24x0.1727	7x0.1151	0.6350	0.5622	1.036	0.0226	0.0234	0.0280	0.0396	865	1560	0.0342	0.0776	0.4922
Starling/ACSS/AW	715.5	26x0.1659	7x0.1290	0.6535	0.5620	1.051	0.0224	0.0231	0.0277	0.0392	870	1575	0.0349	0.0771	0.4900
Redwing/ACSS/AW	715.5	30x0.1544	19x0.0926	0.6897	0.5617	1.081	0.0220	0.0227	0.0272	0.0384	885	1605	0.0365	0.0761	0.4856
Macaw/ACSS/AW	795.0	42x0.1376	7x0.0764	0.6567	0.6246	1.055	0.0209	0.0218	0.0271	0.0392	885	1575	0.0344	0.0774	0.4894
Turbit/ACSS/AW	795.0	20x0.1994	7x0.0886	0.6677	0.6246	1.063	0.0208	0.0216	0.0258	0.0365	905	1640	0.0345	0.0774	0.4881
Tern/ACSS/AW	795.0	45x0.1329	7x0.0886	0.6674	0.6242	1.063	0.0208	0.0217	0.0269	0.0390	885	1585	0.0349	0.0771	0.4881
Puffin/ACSS/AW	795.0	22x0.1901	7x0.1056	0.6857	0.6244	1.077	0.0206	0.0213	0.0255	0.0361	915	1655	0.0353	0.0769	0.4861
Cuckoo/ACSS/AW	795.0	24x0.1820	7x0.1213	0.7053	0.6244	1.092	0.0204	0.0211	0.0252	0.0357	920	1670	0.0361	0.0764	0.4840
Condor/ACSS/AW	795.0	54x0.1213	7x0.1213	0.7049	0.6240	1.092	0.0204	0.0212	0.0263	0.0382	905	1615	0.0363	0.0762	0.4840
Drake/ACSS/AW	795.0	26x0.1749	7x0.1360	0.7263	0.6246	1.107	0.0201	0.0208	0.0250	0.0353	930	1690	0.0368	0.0759	0.4818
Mallard/ACSS/AW	795.0	30x0.1628	19x0.0977	0.7669	0.6245	1.140	0.0198	0.0204	0.0245	0.0346	945	1720	0.0384	0.0749	0.4773
Ruddy/ACSS/AW	900.0	45x0.1414	7x0.0943	0.7555	0.7066	1.131	0.0183	0.0193	0.0238	0.0344	960	1720	0.0371	0.0757	0.4784
Canary/ACSS/AW	900.0	54x0.1291	7x0.1291	0.7985	0.7069	1.162	0.0180	0.0188	0.0233	0.0337	975	1755	0.0387	0.0748	0.4742
Phoenix/ACSS/AW	954.0	42x0.1507	7x0.0837	0.7877	0.7491	1.155	0.0174	0.0183	0.0226	0.0327	990	1780	0.0377	0.0753	0.4751

(1) Code words shown, including suffix /AW, denote ACSR with aluminum-clad steel core. See the options section to find the appropriate code word modifier designation for alternative design options.

(4) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

(5) Based on the given conductor temperature at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.

TransPowr® ACSS/AW Bare Overhead Conductor

Aluminum Conductor Aluminum-Clad Steel-Supported Concentric-Lay-Stranded

ACSS/AW, CONCENTRIC-LAY-STRANDED (MECHANICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS	STANDARD PACKAGES (3)		
		AL.	STEEL	TOTAL	AL.		TOTAL	AL.	STEEL	AL.	STEEL		REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Corncrake/ACSS/AW	954.0	20x0.2184	7x0.0971	0.8011	0.7492	1.165	1047	899	149	85.80	14.20	16200	RMT 84.36 RM 68.38	6990 4665	6670 4450
Rail/ACSS/AW	954.0	45x0.1456	7x0.0971	0.8011	0.7492	1.165	1047	899	149	85.80	14.20	16200	RMT 96.60 RMT 90.45 RM 68.38	15720 10480 5240	15000 10000 5000
Towhee/ACSS/AW	954.0	48x0.1410	7x0.1097	0.8157	0.7495	1.175	1088	899	190	82.56	17.44	19000	RMT 96.60 RMT 90.45 RMT 84.36	17425 11620 5810	16000 10670 5335
Redbird/ACSS/AW	954.0	24x0.1994	7x0.1329	0.8466	0.7495	1.196	1177	899	279	76.34	23.66	24600	RMT 84.45 RMT 84.36	9425 6280	8000 5330
Cardinal/ACSS/AW	954.0	54x0.1329	7x0.1329	0.8462	0.7491	1.196	1177	899	279	76.34	23.66	24600	RMT 96.60 RMT 90.45	18360 11300	15600 9600
Canvasback/ ACSS/AW	954.0	30x0.1783	19x0.1070	0.9201	0.7493	1.248	1392	901	491	64.72	35.28	39400	RMT 96.60 RM 68.38	13890 4635	9980 3330
Snowbird/ACSS/AW	1033.5	42x0.1569	7x0.0872	0.8539	0.8121	1.203	1093	973	120	89.03	10.97	14800	RMT 90.45 RM 68.38	9420 4710	8610 4305
Ortolan/ACSS/AW	1033.5	45x0.1515	7x0.1010	0.8681	0.8121	1.212	1134	973	161	85.82	14.18	17600	RMT 96.60 RMT 90.45 RM 68.38	15705 10465 5235	13850 9230 4615
Whooper/ACSS/AW	1033.5	48x0.1467	7x0.1141	0.8829	0.8113	1.223	1179	973	205	82.58	17.42	20600	RMT 96.60 RMT 90.45 RM 68.38	17400 11605 5800	14770 9850 4925
Curlew/ACSS/AW	1033.5	54x0.1383	7x0.1383	0.9164	0.8112	1.245	1275	973	302	76.34	23.66	26100	RMT 96.60 RMT 90.45	18360 10595	14400 8310
Avocet/ACSS/AW	1113.0	42x0.1628	7x0.0904	0.9192	0.8743	1.248	1177	1048	129	89.05	10.95	15900	RMT 96.60 RMT 90.45 RM 68.38	14125 9415 4710	12000 8000 4000
Bluejay/ACSS/AW	1113.0	45x0.1573	7x0.1049	0.9350	0.8745	1.259	1222	1048	174	85.80	14.20	18900	RMT 96.60 RMT 90.45 RM 68.38	15720 10480 1570	12853 8570 1285
Bullfinch/ACSS/AW	1113.0	48x0.1523	7x0.1184	0.9516	0.8744	1.269	1270	1048	221	82.56	17.44	22200	RMT 96.60 RMT 90.45 RMT 84.36	17400 11610 5805	13700 9140 4570
Finch/ACSS/AW	1113.0	54x0.1436	19x0.0861	0.9854	0.8746	1.293	1372	1053	319	76.77	23.23	28800	RMT 96.60 RMT 90.45	18275 10530	13310 7670
Oxbird/ACSS/AW	1192.5	42x0.1685	7x0.0936	0.9847	0.9365	1.292	1261	1123	138	89.05	10.95	17000	RMT 96.60 RMT 90.45 RM 68.38	14125 9420 4710	11200 7470 3735
Bunting/ACSS/AW	1192.5	45x0.1628	7x0.1085	1.0014	0.9367	1.302	1309	1123	186	85.82	14.18	20300	RMT 96.60 RMT 90.45 RM 68.38	15710 10470 5235	12000 8000 4000
Cormorant/ACSS/AW	1192.5	48x0.1576	7x0.1226	1.0190	0.9364	1.313	1360	1123	237	82.57	17.43	23800	RMT 96.60 RMT 90.45 RMT 84.36	17410 11600 5800	12800 8530 4265
Grackle/ACSS/AW	1192.5	54x0.1486	19x0.0892	1.0553	0.9365	1.338	1470	1129	341	76.78	23.22	30800	RMT 96.60 RMT 90.45	18255 10525	12420 7160
Scissortail/ACSS/AW	1272.0	42x0.1740	7x0.0967	1.0501	0.9987	1.334	1346	1198	147	89.04	10.96	18200	RMT 96.60 RMT 90.45 RM 68.38	14125 9415 4710	10500 7000 3500
Bittern/ACSS/AW	1272.0	45x0.1681	7x0.1121	1.0678	0.9987	1.345	1396	1198	198	85.81	14.19	21600	RMT 96.60 RMT 90.45 RM 68.38	15705 10470 5235	11250 7500 3750

(1) Code words shown, including suffix /AW, denote ACSR with aluminum-clad steel core. See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may be slightly greater or slightly less than the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSS/AW Bare Overhead Conductor

Aluminum Conductor Aluminum-Clad Steel-Supported Concentric-Lay-Stranded

ACSS/AW, CONCENTRIC-LAY-STRANDED (ELECTRICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT				AMPACITY (5)		GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGA OHM - 1000 FT (6)
		AL.	STEEL	TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C	AC @ 200°C	75°C	200°C			
Corncrake/ACSS/AW	954.0	20x0.2184	7x0.0971	0.8011	0.7492	1.165	0.0173	0.0181	0.0216	0.0305	1015	1845	0.0378	0.0753	0.4738
Rail/ACSS/AW	954.0	45x0.1456	7x0.0971	0.8011	0.7492	1.165	0.0173	0.0182	0.0225	0.0325	995	1790	0.0382	0.0750	0.4738
Towhee/ACSS/AW	954.0	48x0.1410	7x0.1097	0.8157	0.7495	1.175	0.0172	0.0181	0.0223	0.0323	1000	1800	0.0387	0.0747	0.4725
Redbird/ACSS/AW	954.0	24x0.1994	7x0.1329	0.8466	0.7495	1.196	0.0170	0.0177	0.0211	0.0298	1030	1885	0.0395	0.0743	0.4697
Cardinal/ACSS/AW	954.0	54x0.1329	7x0.1329	0.8462	0.7491	1.196	0.0170	0.0178	0.0220	0.0318	1010	1825	0.0398	0.0741	0.4697
Canvasback/ACSS/AW	954.0	30x0.1783	19x0.1070	0.9201	0.7493	1.248	0.0165	0.0171	0.0205	0.0289	1060	1940	0.0421	0.0728	0.4630
Snowbird/ACSS/AW	1033.5	42x0.1569	7x0.0872	0.8539	0.8121	1.203	0.0161	0.0170	0.0209	0.0302	1040	1875	0.0392	0.0744	0.4688
Ortolan/ACSS/AW	1033.5	45x0.1515	7x0.1010	0.8681	0.8121	1.212	0.0160	0.0169	0.0208	0.0300	1045	1885	0.0398	0.0741	0.4676
Whooper/ACSS/AW	1033.5	48x0.1467	7x0.1141	0.8829	0.8113	1.223	0.0159	0.0168	0.0206	0.0298	1050	1900	0.0403	0.0738	0.4662
Curlew/ACSS/AW	1033.5	54x0.1383	7x0.1383	0.9164	0.8112	1.245	0.0157	0.0165	0.0203	0.0294	1065	1925	0.0414	0.0732	0.4634
Avocet/ACSS/AW	1113.0	42x0.1628	7x0.0904	0.9192	0.8743	1.248	0.0149	0.0159	0.0195	0.0280	1085	1970	0.0407	0.0736	0.4630
Bluejay/ACSS/AW	1113.0	45x0.1573	7x0.1049	0.9350	0.8745	1.259	0.0148	0.0157	0.0193	0.0278	1095	1980	0.0413	0.0733	0.4618
Bullfinch/ACSS/AW	1113.0	48x0.1523	7x0.1184	0.9516	0.8744	1.269	0.0147	0.0156	0.0192	0.0277	1100	1995	0.0418	0.0729	0.4604
Finch/ACSS/AW	1113.0	54x0.1436	19x0.0861	0.9854	0.8746	1.293	0.0146	0.0154	0.0190	0.0274	1110	2015	0.0430	0.0723	0.4576
Oxbird/ACSS/AW	1192.5	42x0.1685	7x0.0936	0.9847	0.9365	1.292	0.0139	0.0149	0.0182	0.0262	1135	2060	0.0422	0.0728	0.4576
Bunting/ACSS/AW	1192.5	45x0.1628	7x0.1085	1.0014	0.9367	1.302	0.0138	0.0148	0.0181	0.0260	1140	2075	0.0427	0.0725	0.4564
Cormorant/ACSS/AW	1192.5	48x0.1576	7x0.1226	1.0190	0.9364	1.313	0.0138	0.0146	0.0180	0.0258	1150	2085	0.0433	0.0722	0.4550
Grackle/ACSS/AW	1192.5	54x0.1486	19x0.0892	1.0553	0.9365	1.338	0.0136	0.0145	0.0178	0.0256	1160	2110	0.0445	0.0715	0.4522
Scissortail/ACSS/AW	1272.0	42x0.1740	7x0.0967	1.0501	0.9987	1.334	0.0130	0.0140	0.0171	0.0246	1180	2150	0.0435	0.0720	0.4526
Bittern/ACSS/AW	1272.0	45x0.1681	7x0.1121	1.0678	0.9987	1.345	0.0130	0.0139	0.0170	0.0244	1185	2165	0.0441	0.0717	0.4513

(1) Code words shown, including suffix /AW, denote ACSR with aluminum-clad steel core. See the options section to find the appropriate code word modifier designation for alternative design options.

(4) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

(5) Based on the given conductor temperature at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.



TransPowr® ACSS/AW Bare Overhead Conductor

Aluminum Conductor Aluminum-Clad Steel-Supported Concentric-Lay-Stranded

ACSS/AW, CONCENTRIC-LAY-STRANDED (MECHANICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS	STANDARD PACKAGES (3)		
		AL.	STEEL	TOTAL	AL.		TOTAL	AL.	STEEL	AL.	STEEL		REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Diver/ACSS/AW	1272.0	48x0.1628	7x0.1266	1.0873	0.9992	1.357	1451	1198	253	82.58	17.42	25300	RMT 96.60 RMT 90.45 RMT 84.36	17410 11610 5805	12000 8000 4000
Pheasant/ACSS/AW	1272.0	54x0.1535	19x0.0921	1.1259	0.9993	1.381	1568	1204	364	76.79	23.21	32800	RMT 96.60 RMT 90.45	18265 10535	11650 6720
Ringdove/ACSS/AW	1351.5	42x0.1794	7x0.0997	1.1163	1.0617	1.376	1430	1273	157	89.04	10.96	19300	RMT 96.60 RMT 90.45 RM 68.38	14130 9425 4710	9880 6590 3295
Dipper/ACSS/AW	1351.5	45x0.1733	7x0.1155	1.1348	1.0614	1.386	1483	1273	210	85.82	14.18	23000	RMT 96.60 RMT 90.45 RM 68.38	15705 10470 5235	10590 7060 3530
-none-	1351.5	48x0.1678	7x0.1305	1.1551	1.0614	1.398	1542	1273	269	82.58	17.42	26500	RMT 96.60 RMT 90.45 RMT 84.36	17410 11610 5805	11290 7530 3765
Martin/ACSS/AW	1351.5	54x0.1582	19x0.0949	1.1958	1.0614	1.424	1665	1279	386	76.81	23.19	34900	RMT 96.60 RMT 90.45	18250 10525	10960 6320
Popinjay/ACSS/AW	1431.0	42x0.1846	7x0.1026	1.1820	1.1241	1.415	1514	1348	166	89.03	10.97	20500	RMT 96.60 RMT 90.45 RM 68.38	14125 9415 4710	9330 6220 3110
Bobolink/ACSS/AW	1431.0	45x0.1783	7x0.1189	1.2013	1.1236	1.426	1571	1348	223	85.81	14.19	24300	RMT 96.60 RMT 90.45 RM 68.38	15700 10465 5235	10000 6665 3335
Wagtail/ACSS/AW	1431.0	48x0.1727	7x0.1343	1.2235	1.1244	1.439	1632	1348	284	82.57	17.43	28000	RMT 96.60 RMT 90.45 RMT 84.36	17395 11605 5800	10660 7110 3555
Plover/ACSS/AW	1431.0	54x0.1628	19x0.0977	1.2665	1.1241	1.465	1764	1354	409	76.79	23.21	36900	RMT 96.60 RMT 90.45	18255 10530	10350 5970
Nuthatch/ACSS/AW	1510.5	45x0.1832	7x0.1221	1.2682	1.1862	1.466	1658	1423	235	85.82	14.18	25700	RMT 96.60 RMT 90.45 RM 68.38	15720 10480 5240	9480 6320 3160
Parrot/ACSS/AW	1510.5	54x0.1672	19x0.1003	1.3358	1.1856	1.505	1861	1430	432	76.82	23.18	39000	RMT 96.60 RMT 90.45	18230 10510	9800 5650
Ratite/ACSS/AW	1590.0	42x0.1946	7x0.1081	1.3134	1.2492	1.492	1682	1498	184	89.04	10.96	22700	RMT 96.60 RMT 90.45 RM 68.38	14130 9420 4710	8400 5600 2800
Lapwing/ACSS/AW	1590.0	45x0.1880	7x0.1253	1.3355	1.2492	1.504	1745	1498	248	85.81	14.19	27000	RMT 96.60 RMT 90.45 RM 68.38	15715 10475 5240	9000 6000 3000
Hornbill/ACSS/AW	1590.0	48x0.1820	7x0.1416	1.3590	1.2487	1.517	1814	1498	316	82.57	17.43	30600	RMT 96.60 RMT 90.45 RMT 84.36	17415 11610 5805	9600 6400 3200
Falcon/ACSS/AW	1590.0	54x0.1716	19x0.1030	1.4072	1.2489	1.545	1960	1505	455	76.78	23.22	41100	RMT 96.60 RMT 90.45	18265 10525	9320 5370
Chukar/ACSS/AW	1780.0	84x0.1456	19x0.0874	1.5126	1.3986	1.602	2012	1685	328	83.72	16.28	33600	RMT 96.60	18520	9200
Seahawk/ACSS/AW	1869.0	68x0.1658	7x0.0921	1.5148	1.4681	1.603	1894	1760	134	92.94	7.06	21100	RMT 96.60	17125	9000
Mockingbird/ACSS/AW	2034.5	72x0.1681	7x0.1121	1.6670	1.5979	1.681	2124	1926	198	90.67	9.33	26500	RMT 96.60	15845	7460
Roadrunner/ACSS/AW	2057.5	76x0.1645	19x0.0768	1.7033	1.6152	1.700	2200	1947	253	88.50	11.50	30300	RMT 96.60	17160	7800
Bluebird/ACSS/AW	2156.0	84x0.1602	19x0.0961	1.8310	1.6931	1.762	2437	2041	396	83.74	16.26	40700	RMT 96.60	18270	7500
Kiwi/ACSS/AW	2167.0	72x0.1735	7x0.1157	1.7758	1.7022	1.735	2262	2051	211	90.67	9.33	28200	RMT 96.60	15835	7000
Thrasher/ACSS/AW	2312.0	76x0.1744	19x0.0814	1.9144	1.8155	1.802	2472	2188	284	88.51	11.49	34100	RMT 96.60	17305	7000
Joree/ACSS/AW	2515.0	76x0.1819	19x0.0849	2.0826	1.9750	1.880	2690	2380	309	88.50	11.50	37100	RMT 96.60	16940	6300

(1) Code words shown, including suffix /AW, denote ACSR with aluminum-clad steel core. See the Options section to find the appropriate code word modifier for alternative design options.

(2) Due to rounding, total values may be slightly greater or slightly less than the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSS/AW Bare Overhead Conductor

Aluminum Conductor Aluminum-Clad Steel-Supported Concentric-Lay-Stranded

ACSS/AW, CONCENTRIC-LAY-STRANDED (ELECTRICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	STRANDING NO. X DIA. INCHES		CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT				AMPACITY (5)		GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
		AL.	STEEL	TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C	AC @ 200°C	75°C	200°C			
Diver/ACSS/AW	1272.0	48x0.1628	7x0.1266	1.0873	0.9992	1.357	0.0129	0.0138	0.0169	0.0242	1195	2175	0.0447	0.0714	0.4500
Pheasant/ACSS/AW	1272.0	54x0.1535	19x0.0921	1.1259	0.9993	1.381	0.0128	0.0136	0.0167	0.0240	1205	2200	0.0460	0.0708	0.4471
Ringdove/ACSS/AW	1351.5	42x0.1794	7x0.0997	1.1163	1.0617	1.376	0.0123	0.0133	0.0162	0.0231	1225	2235	0.0449	0.0713	0.4478
Dipper/ACSS/AW	1351.5	45x0.1733	7x0.1155	1.1348	1.0614	1.386	0.0122	0.0132	0.0161	0.0230	1230	2250	0.0455	0.0710	0.4466
-none-	1351.5	48x0.1678	7x0.1305	1.1551	1.0614	1.398	0.0121	0.0131	0.0159	0.0228	1240	2265	0.0461	0.0707	0.4452
Martin/ACSS/AW	1351.5	54x0.1582	19x0.0949	1.1958	1.0614	1.424	0.0120	0.0129	0.0158	0.0226	1250	2290	0.0474	0.0701	0.4424
Popinjay/ACSS/AW	1431.0	42x0.1846	7x0.1026	1.1820	1.1241	1.415	0.0116	0.0126	0.0153	0.0219	1265	2325	0.0462	0.0707	0.4434
Bobolink/ACSS/AW	1431.0	45x0.1783	7x0.1189	1.2013	1.1236	1.426	0.0115	0.0125	0.0152	0.0217	1275	2335	0.0468	0.0704	0.4421
Wagtail/ACSS/AW	1431.0	48x0.1727	7x0.1343	1.2235	1.1244	1.439	0.0115	0.0124	0.0151	0.0216	1285	2350	0.0474	0.0701	0.4408
Plover/ACSS/AW	1431.0	54x0.1628	19x0.0977	1.2665	1.1241	1.465	0.0114	0.0122	0.0149	0.0214	1295	2375	0.0488	0.0694	0.4379
Nuthatch/ACSS/AW	1510.5	45x0.1832	7x0.1221	1.2682	1.1862	1.466	0.0109	0.0119	0.0145	0.0206	1315	2420	0.0481	0.0698	0.4379
Parrot/ACSS/AW	1510.5	54x0.1672	19x0.1003	1.3358	1.1856	1.505	0.0108	0.0116	0.0142	0.0203	1340	2465	0.0501	0.0688	0.4337
Ratite/ACSS/AW	1590.0	42x0.1946	7x0.1081	1.3134	1.2492	1.492	0.0104	0.0115	0.0139	0.0197	1350	2485	0.0487	0.0695	0.4351
Lapwing/ACSS/AW	1590.0	45x0.1880	7x0.1253	1.3355	1.2492	1.504	0.0104	0.0114	0.0138	0.0196	1355	2505	0.0493	0.0692	0.4338
Hornbill/ACSS/AW	1590.0	48x0.1820	7x0.1416	1.3590	1.2487	1.517	0.0103	0.0113	0.0137	0.0195	1365	2520	0.0500	0.0688	0.4325
Falcon/ACSS/AW	1590.0	54x0.1716	19x0.1030	1.4072	1.2489	1.545	0.0102	0.0111	0.0135	0.0193	1380	2550	0.0514	0.0682	0.4297
Chukar/ACSS/AW	1780.0	84x0.1456	19x0.0874	1.5126	1.3986	1.602	0.0093	0.0102	0.0120	0.0167	1480	2770	0.0529	0.0676	0.4240
Seahawk/ACSS/AW	1869.0	68x0.1658	7x0.0921	1.5148	1.4681	1.603	0.0089	0.0101	0.0118	0.0162	1495	2810	0.0522	0.0679	0.4239
Mockingbird/ACSS/AW	2034.5	72x0.1681	7x0.1121	1.6670	1.5979	1.681	0.0082	0.0094	0.0109	0.0150	1570	2975	0.0549	0.0667	0.4164
Roadrunner/ACSS/AW	2057.5	76x0.1645	19x0.0768	1.7033	1.6152	1.700	0.0081	0.0092	0.0107	0.0147	1590	3010	0.0558	0.0663	0.4146
Bluebird/ACSS/AW	2156.0	84x0.1602	19x0.0961	1.8310	1.6931	1.762	0.0077	0.0087	0.0102	0.0139	1650	3130	0.0582	0.0654	0.4090
Kiwi/ACSS/AW	2167.0	72x0.1735	7x0.1157	1.7758	1.7022	1.735	0.0077	0.0089	0.0104	0.0141	1630	3095	0.0567	0.0660	0.4115
Thrasher/ACSS/AW	2312.0	76x0.1744	19x0.0814	1.9144	1.8155	1.802	0.0072	0.0084	0.0097	0.0132	1695	3235	0.0591	0.0650	0.4055
Joree/ACSS/AW	2515.0	76x0.1819	19x0.0849	2.0826	1.9750	1.880	0.0066	0.0079	0.0091	0.0123	1775	3410	0.0617	0.0640	0.3989

(1) Code words shown, including suffix /AW, denote ACSR with aluminum-clad steel core. See the options section to find the appropriate code word modifier designation for alternative design options.

(4) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization.

To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

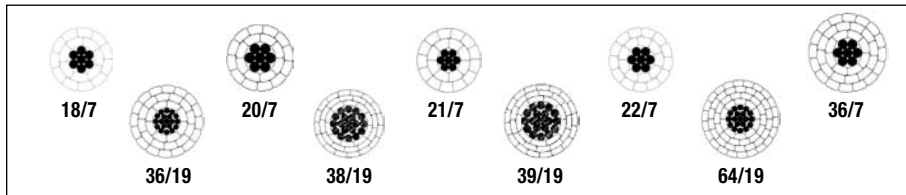
(5) Based on the given conductor temperature at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.

Notes

TransPowr® ACSS/TW Bare Overhead Conductor

Trapezoidal Aluminum Conductor Steel-Supported Concentric-Lay-Stranded



Product Construction:

Complete Conductor:

TransPowr® ACSS/TW is a trapezoidal aluminum conductor steel-supported concentric-lay-stranded conductor. The aluminum strands are trapezoidal in shape.

The wedge-shaped aluminum strands enable a more compact alignment of the aluminum wires. Conductor designs that maintain the same circular mil cross-sectional area of aluminum as a conventional round conductor result in a TW conductor that is 10 to 15 percent smaller in overall diameter. Conductor designs that maintain the same overall diameter as a conventional round conductor result in a TW conductor that has 20 to 25 percent more aluminum cross-sectional area packed in.

The ACSS/TW conductors are manufactured in accordance with the requirements of the latest issue of ASTM B857.

The steel strands form the central core of the conductor, around which is stranded two, three or four layers of aluminum 1350 O temper (annealed) wires. The steel core may consist of a concentric stranded cable of 7, 19 or more wires. Numerous combinations of aluminum and steel strands and layers are possible. The sizes and constructions listed on the following pages are common examples used in overhead lines.

The steel core wires are protected from corrosion by galvanizing. For ACSS/TW conductors, the standard Class A galvanized coating is usually adequate for ordinary environments.

Features and Benefits:

TransPowr® ACSS/TW conductors are similar to conventional ACSR/TW conductors but have some very important additional advantages. ACSS/TW conductors can operate continuously at high temperatures (200°C) without damage. For conductor applications to 250°C, zinc-5% aluminum mischmetal alloy-coated steel or aluminum-clad steel should be considered. ACSS sags less than ACSR/TW under emergency electrical loadings, it has self-damping properties, and its final sags are not affected by long-term creep of the aluminum.

ACSS/TW conductors constructed of equivalent aluminum circular mil cross-sectional area provide a conductor that is smaller in overall diameter than the equivalent conventional round wire ACSS conductor. The reduced conductor diameter is advantageous in reducing the effects of ice and wind loading on the conductor.

ACSS/TW conductors constructed to equivalent overall diameter enable a greater circular mil cross-sectional area of aluminum within the conductor, allowing a significant increase in conductor current-carrying capacity.

Applications:

Trapezoidal aluminum conductors steel-supported (ACSS/TW) are used for overhead transmission lines. They are especially useful in reconductoring applications requiring increased current with existing tensions and clearances; new line applications where structures can be economized due to reduced sag; new line applications requiring high emergency loadings; and lines where aeolian vibration is a problem.

Electrical Parameters:

The electrical parameters for the trapezoidal ACSS equivalent circular mil area and equivalent overall diameter conductors may be found in the last table of this section.

Options:

- Regular-strength Class C galvanized steel core (/GC2)
- High-strength Class A galvanized steel core (/GA3)
- Extra-high-strength Class A galvanized steel core (/GA4)
- Ultra-high-strength Class A galvanized steel core (/GA5)
- Regular-strength Class A zinc-5% aluminum mischmetal alloy-coated steel core (/MA2)
- High-strength Class A zinc-5% aluminum mischmetal alloy-coated steel core (/MA3)
- Extra-high-strength Class A zinc-5% aluminum mischmetal alloy-coated steel core (/MA4)
- Ultra-high-strength Class A zinc-5% aluminum mischmetal alloy-coated steel core (/MA5)
- Aluminum-clad steel core (/AW)
- 250°C operating temperature rating utilizing either the zinc-5% aluminum mischmetal alloy-coated steel core wires or the aluminum-clad steel core wires
- Non-specular surface finish (/NS)

For other conductor sizes, designs and/or specific installation requirements not shown in the tables, contact your General Cable sales representative or e-mail info@generalcable.com.

TransPowr® ACSS/TW Bare Overhead Conductor

Trapezoidal Aluminum Conductor Steel-Supported Concentric-Lay-Stranded

ACSS/TW (MECHANICAL PROPERTIES) - REDUCED DIAMETER - CONDUCTORS SIZED TO HAVE EQUIVALENT CIRCULAR MIL AREA TO REGULAR ACSS																					
CODE WORD (1)	SIZE AWG OR kcmil	TYPE	NO. AL. WIRES	FILL FACTOR	EQUIVALENT AL. DIA. INCHES	STEEL CORE NO. X DIA INCHES	STEEL CORE O.D. INCHES	CROSS-SECTION SQ. INCHES		O.D. INCHES	NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS			STANDARD PACKAGES (3)		
								TOTAL	AL.		TOTAL	AL.	STEEL	AL.	STEEL	GA2	GA3 (HS) or MA3	GA5 (UHS) or MA5	REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Oriole/ ACSS/TW	336.4	23	17	88.7	0.1407	7x0.1059	0.3177	0.3258	0.2642	0.69	526	318	209	60.34	39.66	14800	16300	19100	RMT 84.36 NR 60.28	10960 4280	20810 8130
Flicker/ ACSS/TW	477.0	13	18	91.3	0.1628	7x0.0940	0.2820	0.4234	0.3748	0.78	612	448	164	73.14	26.86	13000	14200	16400	RM 68.38	7380	12060
Hawk/ ACSS/TW	477.0	16	18	91.3	0.1628	7x0.1053	0.3159	0.4355	0.3745	0.79	655	448	206	68.47	31.53	15600	17100	19800	RMT 84.36	7890	12050
Hen/ ACSS/TW	477.0	23	16	88.7	0.1727	7x0.1261	0.3783	0.4620	0.3746	0.83	746	450	296	60.34	39.66	21000	22700	26700	RMT 84.36	10950	14670
Parakeet/ ACSS/TW	556.5	13	18	92.0	0.1758	7x0.1015	0.3045	0.4938	0.4372	0.84	714	522	192	73.15	26.85	15200	16600	19100	RM 68.38	7380	10340
Dove/ ACSS/TW	556.5	16	20	91.8	0.1668	7x0.1138	0.3414	0.5083	0.4371	0.85	764	523	241	68.45	31.55	18200	19900	23100	RMT 84.36	8760	11470
Rook/ ACSS/TW	636.0	13	18	92.6	0.1880	7x0.1085	0.3255	0.5641	0.4994	0.89	816	597	219	73.15	26.85	17300	19000	21900	RM 68.38	7390	9050
Grosbeak/ ACSS/TW	636.0	16	20	92.0	0.1783	7x0.1216	0.3648	0.5809	0.4996	0.91	873	598	275	68.47	31.53	20700	22400	26000	RMT 84.36	8760	10040
Tern/ ACSS/TW	795.0	7	17	93.5	0.2163	7x0.0888	0.2664	0.6680	0.6247	0.96	892	745	147	83.54	16.46	14200	15300	17500	RM 68.38	6100	6840
Puffin/ ACSS/TW	795.0	11	21	93.5	0.1945	7x0.1108	0.3324	0.6916	0.6241	0.98	974	746	229	76.55	23.45	18900	20600	23700	RMT 84.36	8230	8450
Condor/ ACSS/TW	795.0	13	21	93.0	0.1945	7x0.1213	0.3639	0.7051	0.6242	0.99	1020	746	274	73.15	26.85	21700	23300	26900	RMT 84.36	8610	8440
Drake/ ACSS/TW	795.0	16	20	93.1	0.1993	7x0.1360	0.4080	0.7259	0.6242	1.01	1091	747	344	68.45	31.55	25900	28000	32500	RMT 84.36	8760	8030
Mallard/ ACSS/TW	795.0	23	22	93.0	0.1901	19x0.0977	0.4885	0.7668	0.6244	1.05	1234	751	483	60.84	39.16	34300	37900	44300	RMT 84.36	11280	9140
Phoenix/ ACSS/TW	954.0	5	30	92.9	0.1784	7x0.0837	0.2511	0.7882	0.7497	1.04	1028	898	130	87.32	12.68	14200	15200	17100	RMT 84.36 RM 66.32	10310 5160	10030 5020
Rail/ ACSS/TW	954.0	7	33	92.2	0.1700	7x0.0971	0.2913	0.8011	0.7493	1.06	1074	899	175	83.66	16.34	16700	18000	20400	RMT 84.45 RMT 84.36	11810 7840	11000 7300
Cardinal/ ACSS/TW	954.0	13	21	93.9	0.2131	7x0.1329	0.3987	0.8463	0.7492	1.08	1224	895	329	73.15	26.85	26000	28000	32300	RMT 84.36	8620	7040
Snowbird/ ACSS/TW	1033.5	5	30	92.5	0.1856	7x0.0871	0.2613	0.8532	0.8115	1.09	1114	972	141	87.32	12.68	15400	16400	18500	RMT 84.36 RM 66.32	10300 5160	9250 4630
Ortolan/ ACSS/TW	1033.5	7	33	92.3	0.1769	7x0.1010	0.3030	0.8673	0.8112	1.10	1163	973	190	83.68	16.32	18100	19500	22000	RMT 84.36 RM 66.32	11830 5920	10170 5090
Curlew/ ACSS/TW	1033.5	13	21	93.7	0.2219	7x0.1383	0.4149	0.9170	0.8118	1.13	1326	970	356	73.15	26.85	28200	30300	35000	RMT 84.36	8610	6490
Avocet/ ACSS/TW	1113.0	5	30	93.0	0.1926	7x0.0904	0.2712	0.9186	0.8737	1.13	1199	1047	152	87.32	12.68	16300	17500	19500	RMT 84.36 RM 66.32	10300 5160	8590 4300
Bluejay/ ACSS/TW	1113.0	7	33	92.7	0.1837	7x0.1049	0.3147	0.9351	0.8746	1.14	1253	1048	205	83.66	16.34	19500	21100	23800	RMT 84.36 RM 66.32	11830 5910	9440 4720
Finch/ ACSS/TW	1113.0	13	39	91.9	0.1689	19x0.0862	0.4310	0.9845	0.8737	1.18	1427	1051	376	73.64	26.36	30400	33200	38700	RMT 90.45 RMT 84.36	15880 7950	11130 5570
Oxbird/ ACSS/TW	1192.5	5	30	93.2	0.1993	7x0.0936	0.2808	0.9843	0.9361	1.17	1285	1122	163	87.31	12.69	17500	18700	20900	RMT 84.36 RM 66.32	10310 5150	8020 4010

(1) Code words shown denote ACSS/TW with regular-strength Class A Galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may be slightly greater or slightly less than the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSS/TW Bare Overhead Conductor

Trapezoidal Aluminum Conductor Steel-Supported Concentric-Lay-Stranded

ACSS/TW (ELECTRICAL PROPERTIES) - REDUCED DIAMETER - CONDUCTORS SIZED TO HAVE EQUIVALENT CIRCULAR MIL AREA TO REGULAR ACSS

CODE WORD (1)	SIZE AWG OR kcmil	TYPE	NO. AL. WIRES	FILL FACTOR	EQUIVALENT AL. DIA. INCHES	STEEL CORE NO. X DIA INCHES	STEEL CORE O.D. INCHES	CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT				AMPACTY (5)		GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
								TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C	AC @ 200°C	75°C	200°C			
Oriole/ ACSS/TW	336.4	23	17	88.7	0.1407	7x0.1059	0.3177	0.3258	0.2642	0.69	0.0488	0.0499	0.0600	0.0851	530	940	0.0236	0.0861	0.5552
Flicker/ ACSS/TW	477.0	13	18	91.3	0.1628	7x0.0940	0.2820	0.4234	0.3748	0.78	0.0347	0.0356	0.0427	0.0606	650	1150	0.0259	0.0839	0.5375
Hawk/ ACSS/TW	477.0	16	18	91.3	0.1628	7x0.1053	0.3159	0.4355	0.3745	0.79	0.0346	0.0354	0.0426	0.0604	650	1160	0.0266	0.0834	0.5349
Hen/ ACSS/TW	477.0	23	16	88.7	0.1727	7x0.1261	0.3783	0.4620	0.3746	0.83	0.0344	0.0352	0.0423	0.0601	660	1180	0.0280	0.0822	0.5278
Parakeet/ ACSS/TW	556.5	13	18	92.0	0.1758	7x0.1015	0.3045	0.4938	0.4372	0.84	0.0297	0.0305	0.0367	0.0520	715	1270	0.0279	0.0822	0.5259
Dove/ ACSS/TW	556.5	16	20	91.8	0.1668	7x0.1138	0.3414	0.5083	0.4371	0.85	0.0296	0.0304	0.0365	0.0518	720	1280	0.0287	0.0816	0.5232
Rook/ ACSS/TW	636.0	13	18	92.6	0.1880	7x0.1085	0.3255	0.5641	0.4994	0.89	0.0260	0.0268	0.0321	0.0455	775	1385	0.0298	0.0808	0.5159
Grosbeak/ ACSS/TW	636.0	16	20	92.0	0.1783	7x0.1216	0.3648	0.5809	0.4996	0.91	0.0259	0.0267	0.0320	0.0453	780	1400	0.0307	0.0801	0.5129
Tern/ ACSS/TW	795.0	7	17	93.5	0.2163	7x0.0888	0.2664	0.6680	0.6247	0.96	0.0209	0.0217	0.0260	0.0368	880	1580	0.0315	0.0795	0.5042
Puffin/ ACSS/TW	795.0	11	21	93.5	0.1945	7x0.1108	0.3324	0.6916	0.6241	0.98	0.0209	0.0216	0.0259	0.0366	885	1595	0.0327	0.0786	0.5009
Condor/ ACSS/TW	795.0	13	21	93.0	0.1945	7x0.1213	0.3639	0.7051	0.6242	0.99	0.0208	0.0215	0.0258	0.0365	890	1605	0.0333	0.0782	0.4987
Drake/ ACSS/TW	795.0	16	20	93.1	0.1993	7x0.1360	0.4080	0.7259	0.6242	1.01	0.0207	0.0214	0.0257	0.0363	895	1615	0.0342	0.0776	0.4962
Mallard/ ACSS/TW	795.0	23	22	93.0	0.1901	19x0.0977	0.4885	0.7668	0.6244	1.05	0.0207	0.0213	0.0255	0.0361	905	1640	0.0360	0.0764	0.4907
Phoenix/ ACSS/TW	954.0	5	30	92.9	0.1784	7x0.0837	0.2511	0.7882	0.7497	1.04	0.0176	0.0185	0.0228	0.0329	960	1715	0.0343	0.0775	0.4910
Rail/ ACSS/TW	954.0	7	33	92.2	0.1700	7x0.0971	0.2913	0.8011	0.7493	1.06	0.0175	0.0184	0.0227	0.0328	965	1725	0.0350	0.0771	0.4889
Cardinal/ ACSS/TW	954.0	13	21	93.9	0.2131	7x0.1329	0.3987	0.8463	0.7492	1.08	0.0173	0.0180	0.0216	0.0305	995	1805	0.0364	0.0762	0.4851
Snowbird/ ACSS/TW	1033.5	5	30	92.5	0.1856	7x0.0871	0.2613	0.8532	0.8115	1.09	0.0162	0.0171	0.0211	0.0304	1010	1810	0.0357	0.0766	0.4844
Ortolan/ ACSS/TW	1033.5	7	33	92.3	0.1769	7x0.1010	0.3030	0.8673	0.8112	1.10	0.0162	0.0171	0.0210	0.0303	1015	1820	0.0364	0.0762	0.4827
Curlew/ ACSS/TW	1033.5	13	21	93.7	0.2219	7x0.1383	0.4149	0.9170	0.8118	1.13	0.0160	0.0167	0.0199	0.0281	1045	1905	0.0379	0.0752	0.4787
Avocet/ ACSS/TW	1113.0	5	30	93.0	0.1926	7x0.0904	0.2712	0.9186	0.8737	1.13	0.0150	0.0160	0.0196	0.0282	1055	1900	0.0370	0.0758	0.4790
Bluejay/ ACSS/TW	1113.0	7	33	92.7	0.1837	7x0.1049	0.3147	0.9351	0.8746	1.14	0.0150	0.0159	0.0195	0.0282	1060	1910	0.0377	0.0753	0.4772
Finch/ ACSS/TW	1113.0	13	39	91.9	0.1689	19x0.0862	0.4310	0.9845	0.8737	1.18	0.0150	0.0157	0.0194	0.0279	1075	1935	0.0399	0.0740	0.4716
Oxbird/ ACSS/TW	1192.5	5	30	93.2	0.1993	7x0.0936	0.2808	0.9843	0.9361	1.17	0.0140	0.0150	0.0183	0.0263	1100	1985	0.0382	0.0750	0.4738

(1) Code words shown denote ACSS/TW with regular-strength Class A galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(4) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

(5) Based on the given conductor temperature at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.



General Cable

TransPowr® ACSS/TW Bare Overhead Conductor

Trapezoidal Aluminum Conductor Steel-Supported Concentric-Lay-Stranded

ACSS/TW (MECHANICAL PROPERTIES) - REDUCED DIAMETER - CONDUCTORS SIZED TO HAVE EQUIVALENT CIRCULAR MIL AREA TO REGULAR ACSS

CODE WORD (1)	SIZE AWG OR kcmil	TYPE	NO. AL. WIRES	FILL FACTOR	EQUIVALENT AL. DIA. INCHES	STEEL CORE NO. X DIA. INCHES	STEEL CORE O.D. INCHES	CROSS-SECTION SQ. INCHES			NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS			STANDARD PACKAGES (3)		
								TOTAL	AL.	O.D. INCHES	TOTAL	AL.	STEEL	AL.	STEEL	GA2	GA3 (HS) or MA3	GA5 (UHS) or MA5	REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Bunting/ ACSS/TW	1192.5	7	33	93.0	0.1901	7x0.1086	0.3258	1.0016	0.9368	1.18	1343	1123	220	83.65	16.35	20900	22600	25500	RMT 84.36 RM 66.32	11830 5920	8810 4410
Grackle/ ACSS/TW	1192.5	13	39	92.3	0.1749	19x0.0892	0.4460	1.0556	0.9369	1.22	1529	1126	403	73.65	26.35	32600	35500	41500	RMT 84.45 RMT 84.36	15880 7950	10390 5200
Scissortail/ ACSS/TW	1272.0	5	30	93.6	0.2059	7x0.0967	0.2901	1.0508	0.9994	1.20	1371	1197	174	87.30	12.70	18700	20000	22300	RMT 84.36 RM 66.32	10310 5150	7520 3760
Bittern/ ACSS/TW	1272.0	7	33	93.3	0.1964	7x0.1121	0.3363	1.0685	0.9994	1.22	1432	1198	234	83.67	16.33	22300	24000	27200	RMT 84.36 RM 66.32	11830 5910	8260 4130
Pheasant/ ACSS/TW	1272.0	13	39	93.0	0.1806	19x0.0921	0.4605	1.1252	0.9987	1.26	1630	1201	429	73.66	26.34	34100	37300	43000	RMT 84.45 RMT 84.36	15880 7940	9740 4870
Dipper/ ACSS/TW	1351.5	7	33	93.5	0.2024	7x0.1155	0.3465	1.1350	1.0616	1.25	1521	1273	248	83.68	16.32	23700	25500	28800	RMT 84.36 RM 66.32	11840 5920	7780 3890
Martin/ ACSS/TW	1351.5	13	39	93.0	0.1861	19x0.0949	0.4745	1.1954	1.0610	1.30	1732	1276	456	73.68	26.32	36200	39600	45600	RMT 84.45 RMT 84.36	15880 7950	9170 4590
Bobolink/ ACSS/TW	1431.0	7	33	93.0	0.2083	7x0.1189	0.3567	1.2020	1.1243	1.29	1611	1348	263	83.67	16.33	25100	27100	30500	RMT 84.36 RM 66.32	11840 5930	7350 3680
Plover/ ACSS/TW	1431.0	13	39	93.0	0.1916	19x0.0977	0.4885	1.2666	1.1242	1.33	1834	1351	483	73.66	26.34	38400	41900	48300	RMT 84.45 RMT 84.36	15890 7940	8660 4330
Lapwing/ ACSS/TW	1590.0	7	36	93.0	0.2102	7x0.1253	0.3759	1.3351	1.2488	1.36	1790	1498	292	83.67	16.33	27900	29600	33500	RMT 84.45 RM 68.38	12900 6460	7210 3610
Falcon/ ACSS/TW	1590.0	13	42	93.5	0.1946	19x0.1030	0.5150	1.4066	1.2483	1.40	2038	1501	537	73.65	26.35	42600	46600	53700	RMT 96.60 RMT 84.45	17120 11420	8400 5600
Chukar/ ACSS/TW	1780.0	8	38	93.5	0.2164	19x0.0874	0.4370	1.5122	1.3982	1.45	2061	1674	387	81.24	18.76	35300	38200	43900	RMT 84.45 RM 68.38	14030 7030	6810 3410
Bluebird/ ACSS/TW	2156.0	8	64	91.0	0.1835	19x0.0961	0.4805	1.8312	1.6934	1.61	2512	2045	467	81.39	18.61	42100	45500	51700	RMT 96.60 RMT 84.36	23590 11810	9390 4700

ACSS/TW (MECHANICAL PROPERTIES) - EQUIVALENT DIAMETER - CONDUCTORS SIZED TO HAVE EQUIVALENT DIAMETER TO REGULAR ACSS

CODE WORD (1)	SIZE AWG OR kcmil	TYPE	NO. AL. WIRES	FILL FACTOR	EQUIVALENT AL. DIA. INCHES	STEEL CORE NO. X DIA. INCHES	STEEL CORE O.D. INCHES	CROSS-SECTION SQ. INCHES			NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS			STANDARD PACKAGES (3)		
								TOTAL	AL.	O.D. INCHES	TOTAL	AL.	STEEL	AL.	STEEL	GA2	GA3 (HS) or MA3	GA5 (UHS) or MA5	REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Mohawk/ ACSS/TW	571.7	13	18	92.2	0.1782	7x0.1030	0.3090	0.5072	0.4489	0.85	734	537	197	73.10	26.90	15600	17100	19700	RMT 84.36	7390	10060
Calumet/ ACSS/TW	565.3	16	20	91.5	0.1681	7x0.1146	0.3438	0.5161	0.4438	0.86	776	531	244	68.48	31.52	18400	20200	23500	RMT 84.36	8760	11300
Mystic/ ACSS/TW	666.6	13	20	92.3	0.1826	7x0.1111	0.3333	0.5915	0.5236	0.91	855	626	230	73.14	26.86	18200	19900	22900	RMT 84.36	8200	9590
Oswego/ ACSS/TW	664.8	16	20	92.3	0.1823	7x0.1244	0.3732	0.6073	0.5222	0.93	913	625	288	68.44	31.56	21700	23400	27200	RMT 84.36	8770	9610
Maumee/ ACSS/TW	768.2	13	20	93.0	0.1960	7x0.1195	0.3585	0.6817	0.6032	0.98	987	721	266	73.07	26.93	21000	23000	26500	RMT 84.36	8210	8320
Wabash/ ACSS/TW	762.8	16	20	92.9	0.1953	7x0.1331	0.3993	0.6963	0.5989	0.99	1046	717	330	68.49	31.51	24900	26800	31200	RMT 84.36	8760	8370
Kettle/ ACSS/TW	957.2	7	33	92.2	0.1703	7x0.0973	0.2919	0.8038	0.7518	1.06	1078	902	176	83.65	16.35	16800	18100	20400	RMT 84.45 RM 68.38	11840 5920	10980 5490
Suwanee/ ACSS/TW	959.6	16	22	93.4	0.2089	7x0.1493	0.4479	0.8764	0.7539	1.11	1317	902	415	68.49	31.51	30700	33100	38600	RMT 84.36 RM 66.32	9640 4820	7320 3660

(1) Code words shown denote ACSS/TW with regular-strength Class A Galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may be slightly greater or slightly less than the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSS/TW Bare Overhead Conductor

Trapezoidal Aluminum Conductor Steel-Supported Concentric-Lay-Stranded

ACSS/TW (ELECTRICAL PROPERTIES) - REDUCED DIAMETER - CONDUCTORS SIZED TO HAVE EQUIVALENT CIRCULAR MIL AREA TO REGULAR ACSS

CODE WORD (1)	SIZE AWG OR kcmil	TYPE	NO. AL. WIRES	FILL FACTOR	EQUIVALENT AL. DIA. INCHES	STEEL CORE NO. X DIA. INCHES	STEEL CORE O.D. INCHES	CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT				AMPACITY (5)		GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
								TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C	AC @ 200°C	75°C	200°C			
Bunting/ ACSS/TW	1192.5	7	33	93.0	0.1901	7x0.1086	0.3258	1.0016	0.9368	1.18	0.0140	0.0149	0.0183	0.0263	1105	1995	0.0390	0.0746	0.4720
Grackle/ ACSS/TW	1192.5	13	39	92.3	0.1749	19x0.0892	0.4460	1.0556	0.9369	1.22	0.0140	0.0147	0.0181	0.0261	1120	2025	0.0412	0.0733	0.4665
Scissortail/ ACSS/TW	1272.0	5	30	93.6	0.2059	7x0.0967	0.2901	1.0508	0.9994	1.20	0.0132	0.0141	0.0172	0.0247	1145	2070	0.0394	0.0743	0.4690
Bittern/ ACSS/TW	1272.0	7	33	93.3	0.1964	7x0.1121	0.3363	1.0685	0.9994	1.22	0.0131	0.0141	0.0172	0.0247	1150	2080	0.0402	0.0739	0.4672
Pheasant/ ACSS/TW	1272.0	13	39	93.0	0.1806	19x0.0921	0.4605	1.1252	0.9987	1.26	0.0131	0.0139	0.0170	0.0245	1165	2115	0.0424	0.0726	0.4619
Dipper/ ACSS/TW	1351.5	7	33	93.5	0.2024	7x0.1155	0.3465	1.1350	1.0616	1.25	0.0124	0.0133	0.0162	0.0232	1190	2165	0.0414	0.0732	0.4626
Martin/ ACSS/TW	1351.5	13	39	93.0	0.1861	19x0.0949	0.4745	1.1954	1.0610	1.30	0.0123	0.0131	0.0160	0.0230	1210	2200	0.0437	0.0719	0.4572
Bobolink/ ACSS/TW	1431.0	7	33	93.0	0.2083	7x0.1189	0.3567	1.2020	1.1243	1.29	0.0117	0.0126	0.0154	0.0220	1235	2250	0.0427	0.0725	0.4578
Plover/ ACSS/TW	1431.0	13	39	93.0	0.1916	19x0.0977	0.4885	1.2666	1.1242	1.33	0.0116	0.0124	0.0152	0.0218	1255	2285	0.0450	0.0713	0.4527
Lapwing/ ACSS/TW	1590.0	7	36	93.0	0.2102	7x0.1253	0.3759	1.3351	1.2488	1.36	0.0105	0.0115	0.0139	0.0198	1315	2410	0.0450	0.0712	0.4495
Falcon/ ACSS/TW	1590.0	13	42	93.5	0.1946	19x0.1030	0.5150	1.4066	1.2483	1.40	0.0105	0.0113	0.0137	0.0196	1335	2445	0.0474	0.0701	0.4448
Chukar/ ACSS/TW	1780.0	8	38	93.5	0.2164	19x0.0874	0.4370	1.5122	1.3982	1.45	0.00937	0.0103	0.0125	0.0177	1415	2605	0.0482	0.0697	0.4398
Bluebird/ ACSS/TW	2156.0	8	64	91.0	0.1835	19x0.0961	0.4805	1.8312	1.6934	1.61	0.00780	0.00879	0.0103	0.0141	1600	3015	0.0538	0.0671	0.4229

ACSS/TW (ELECTRICAL PROPERTIES) - EQUIVALENT DIAMETER - CONDUCTORS SIZED TO HAVE EQUIVALENT DIAMETER TO REGULAR ACSS

CODE WORD (1)	SIZE AWG OR kcmil	TYPE	NO. AL. WIRES	FILL FACTOR	EQUIVALENT AL. DIA. INCHES	STEEL CORE NO. X DIA. INCHES	STEEL CORE O.D. INCHES	CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT				AMPACITY (5)		GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
								TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C	AC @ 200°C	75°C	200°C			
Mohawk/ ACSS/TW	571.7	13	18	92.2	0.1782	7x0.1030	0.3090	0.5072	0.4489	0.85	0.0289	0.0297	0.0357	0.0506	725	1295	0.0283	0.0820	0.5239
Calumet/ ACSS/TW	565.3	16	20	91.5	0.1681	7x0.1146	0.3438	0.5161	0.4438	0.86	0.0292	0.0299	0.0359	0.0510	725	1295	0.0290	0.0814	0.5217
Mystic/ ACSS/TW	666.6	13	20	92.3	0.1826	7x0.1111	0.3333	0.5915	0.5236	0.91	0.0248	0.0256	0.0307	0.0434	800	1430	0.0306	0.0801	0.5120
Oswego/ ACSS/TW	664.8	16	20	92.3	0.1823	7x0.1244	0.3732	0.6073	0.5222	0.93	0.0248	0.0255	0.0306	0.0434	800	1440	0.0313	0.0796	0.5096
Maumee/ ACSS/TW	768.2	13	20	93.0	0.1960	7x0.1195	0.3585	0.6817	0.6032	0.98	0.0215	0.0222	0.0267	0.0377	870	1570	0.0328	0.0786	0.5014
Wabash/ ACSS/TW	762.8	16	20	92.9	0.1953	7x0.1331	0.3993	0.6963	0.5989	0.99	0.0216	0.0223	0.0267	0.0378	875	1575	0.0335	0.0781	0.4993
Kettle/ ACSS/TW	957.2	7	33	92.2	0.1703	7x0.0973	0.2919	0.8038	0.7518	1.06	0.0175	0.0184	0.0226	0.0327	965	1730	0.0350	0.0770	0.4886
Suwanee/ ACSS/TW	959.6	16	22	93.4	0.2089	7x0.1493	0.4479	0.8764	0.7539	1.11	0.0172	0.0178	0.0213	0.0301	1005	1825	0.0376	0.0754	0.4817

(1) Code words shown denote ACSS/TW with regular-strength Class A galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(4) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

(5) Based on the given conductor temperature at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions.

(6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.



General Cable

TransPowr® ACSS/TW Bare Overhead Conductor

Trapezoidal Aluminum Conductor Steel-Supported Concentric-Lay-Stranded

ACSS/TW (MECHANICAL PROPERTIES) - EQUIVALENT DIAMETER - CONDUCTORS SIZED TO HAVE EQUIVALENT DIAMETER TO REGULAR ACSS																					
CODE WORD (1)	SIZE AWG OR kcmil	TYPE	NO. AL. WIRES	FILL FACTOR	EQUIVALENT AL. DIA. INCHES	STEEL CORE NO. X DIA INCHES	STEEL CORE O.D. INCHES	CROSS-SECTION SQ. INCHES		O.D. INCHES	NOMINAL MASS LB/1000 FT (2)			PERCENT BY MASS		RATED STRENGTH LBS			STANDARD PACKAGES (3)		
								TOTAL	AL.		TOTAL	AL.	STEEL	AL.	STEEL	GA2	GA3 (HS) or MA3	GA5 (UHS) or MA5	REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
Columbia/ ACSS/TW	966.2	13	21	93.6	0.2145	7x0.1338	0.4014	0.8576	0.7591	1.09	1240	907	333	73.13	26.87	26400	28300	32800	RMT 84.36 RM 66.32	10380 5010	8370 4040
Cheyenne/ ACSS/TW	1168.1	5	30	92.9	0.1973	7x0.0926	0.2778	0.9642	0.9170	1.16	1259	1099	160	87.32	12.68	17100	18300	20400	RMT 84.45 RM 68.38	10310 5150	8190 4095
Genesee/ ACSS/TW	1158.0	7	33	92.5	0.1873	7x0.1078	0.3234	0.9732	0.9094	1.16	1307	1091	216	83.45	16.55	20500	22100	25000	RMT 84.45 RM 68.38	11870 5930	9080 4540
Hudson/ ACSS/TW	1158.4	13	26	93.7	0.2111	7x0.1467	0.4401	1.0279	0.9096	1.20	1488	1087	401	73.08	26.92	31100	33500	38800	RMT 84.45 RM 68.38	10670 5330	7170 3585
Catawba/ ACSS/TW	1272.0	5	30	93.3	0.2059	7x0.0967	0.2901	1.0507	0.9993	1.20	1371	1197	174	87.30	12.70	18700	20000	22300	RMT 84.36 RM 68.38	10310 5150	7520 3760
Nelson/ ACSS/TW	1257.1	7	35	92.4	0.1895	7x0.1115	0.3345	1.0558	0.9875	1.21	1415	1184	231	83.65	16.35	22100	23800	26900	RMT 90.45 RMT 84.36	12560 6280	8870 4435
Yukon/ ACSS/TW	1233.6	13	39	91.0	0.1778	19x0.0910	0.4550	1.0923	0.9688	1.25	1584	1165	419	73.53	26.47	33200	36300	41900	RMT 96.60 RMT 84.36	15920 7960	10050 5025
Truckee/ ACSS/TW	1372.5	5	30	93.6	0.2139	7x0.1004	0.3012	1.1337	1.0783	1.25	1479	1291	188	87.32	12.68	20200	21500	24000	RMT 84.45 RM 68.38	10310 5150	6970 3485
Mackenzie/ ACSS/TW	1359.7	7	36	92.9	0.1943	7x0.1159	0.3477	1.1413	1.0674	1.26	1531	1281	250	83.67	16.33	23800	25700	29000	RMT 90.45 RM 84.36	12900 6450	8430 4215
Thames/ ACSS/TW	1334.6	13	39	92.6	0.1850	19x0.0944	0.4720	1.1808	1.0479	1.29	1711	1260	451	73.64	26.36	35800	39100	45100	RMT 96.60 RMT 84.36	15880 7940	9280 4640
St. Croix/ ACSS/TW	1467.8	5	30	93.4	0.2212	7x0.1041	0.3123	1.2127	1.1532	1.29	1583	1381	202	87.26	12.74	21600	23100	25800	RMT 84.45 RM 68.38	10320 5160	6520 3260
Miramichi/ ACSS/TW	1455.3	7	36	93.4	0.2010	7x0.1200	0.3600	1.2219	1.1427	1.30	1639	1371	268	83.64	16.36	25600	27100	30700	RMT 90.45 RM 84.36	12910 6460	7880 3940
Merrimack/ ACSS/TW	1433.6	13	39	92.1	0.1917	19x0.0978	0.4890	1.2682	1.1255	1.34	1838	1354	484	73.65	26.35	38400	42000	48400	RMT 96.60 RMT 84.36	15880 7940	8640 4320
Platte/ ACSS/TW	1569.0	5	33	93.7	0.2181	7x0.1074	0.3222	1.2962	1.2328	1.33	1691	1476	215	87.30	12.70	23100	24600	27500	RMT 84.45 RM 68.38	11350 5670	6710 3355
Potomac/ ACSS/TW	1557.4	7	36	93.2	0.2080	7x0.1241	0.3723	1.3084	1.2237	1.35	1754	1467	287	83.65	16.35	27300	29000	32800	RMT 90.45 RM 84.36	12910 6450	7360 3680
Rio Grande/ ACSS/TW	1533.3	13	39	93.2	0.1983	19x0.1012	0.5060	1.3574	1.2046	1.38	1966	1448	518	73.63	26.37	41200	45000	51900	RMT 96.60 RMT 84.36	15890 7940	8080 4040
Schuylkill/ ACSS/TW	1657.4	7	36	93.5	0.2145	7x0.1280	0.3840	1.3912	1.3012	1.39	1866	1561	305	83.66	16.34	29100	30900	34900	RMT 90.45 RM 84.36	12910 6460	6920 3460
Pecos/ ACSS/TW	1622.0	13	39	93.0	0.2039	19x0.1064	0.5320	1.4425	1.2736	1.42	2105	1531	573	72.77	27.23	45000	49200	56900	RMT 90.45 RM 84.36	16080 8040	7640 3820
Pee Dee/ ACSS/TW	1758.6	7	37	93.1	0.2180	7x0.1319	0.3957	1.4764	1.3807	1.43	1980	1656	324	83.65	16.35	30900	32800	37100	RMT 90.45 RMT 84.36	13270 8850	6690 4460
James/ ACSS/TW	1730.6	13	39	92.5	0.2107	19x0.1075	0.5375	1.5322	1.3598	1.47	2219	1634	585	73.64	26.36	46400	50800	58500	RMT 96.60 RM 84.36	15890 7940	7160 3580
Athabaska/ ACSS/TW	1949.6	7	42	93.4	0.2155	7x0.1392	0.4176	1.6384	1.5318	1.50	2197	1836	361	83.58	16.42	34300	36500	41300	RMT 90.60 RMT 84.45	14970 10250	6850 4670
Cumberland/ ACSS/TW	1926.9	13	42	93.3	0.2142	19x0.1133	0.5665	1.7044	1.5129	1.54	2469	1819	650	73.68	26.32	51600	56400	65000	RMT 96.60 RMT 84.36	17110 8560	6930 3465
Powder/ ACSS/TW	2153.8	8	64	92.2	0.1834	19x0.0961	0.4805	1.8293	1.6915	1.60	2510	2042	467	81.37	18.63	42100	45500	51700	RMT 96.60 RMT 84.45	23970 12220	9550 4870
Santee/ ACSS/TW	2627.3	8	64	93.1	0.2027	19x0.1062	0.5310	2.2328	2.0645	1.76	3062	2492	571	81.36	18.64	51300	55600	63100	RMT 96.60 RMT 84.45	23610 11810	7710 3855

(1) Code words shown denote ACSS/TW with regular-strength Class A Galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may be slightly greater or slightly less than the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSS/TW Bare Overhead Conductor

Trapezoidal Aluminum Conductor Steel-Supported Concentric-Lay-Stranded

ACSS/TW (ELECTRICAL PROPERTIES) - EQUIVALENT DIAMETER - CONDUCTORS SIZED TO HAVE EQUIVALENT DIAMETER TO REGULAR ACSS

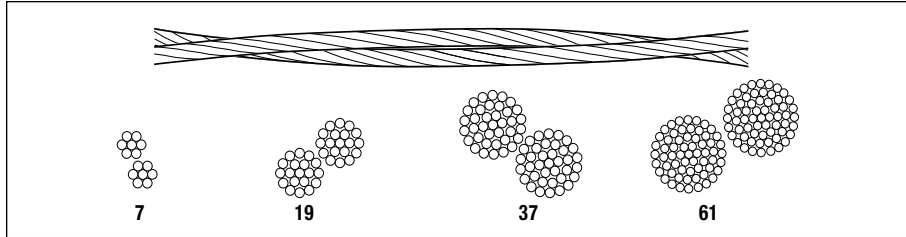
CODE WORD (1)	SIZE AWG OR kcmil	TYPE	NO. AL. WIRES	FILL FACTOR	EQUIVALENT AL. DIA. INCHES	STEEL CORE NO. X DIA INCHES	STEEL CORE O.D. INCHES	CROSS-SECTION SQ. INCHES		O.D. INCHES	RESISTANCE (4) OHMS/1000 FT				AMPACITY (5)		GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (6)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (6)
								TOTAL	AL.		DC @ 20°C	AC @ 25°C	AC @ 75°C	AC @ 200°C	75°C	200°C			
Columbia/ ACSS/TW	966.2	13	21	93.6	0.2145	7x0.1338	0.4014	0.8576	0.7591	1.09	0.0171	0.0178	0.0213	0.0301	1005	1820	0.0367	0.0760	0.4839
Cheyenne/ ACSS/TW	1168.1	5	30	92.9	0.1973	7x0.0926	0.2778	0.9642	0.9170	1.16	0.0143	0.0153	0.0187	0.0269	1085	1960	0.0379	0.0752	0.4751
Genesee/ ACSS/TW	1158.0	7	33	92.5	0.1873	7x0.1078	0.3234	0.9732	0.9094	1.16	0.0144	0.0153	0.0188	0.0271	1085	1960	0.0385	0.0748	0.4739
Hudson/ ACSS/TW	1158.4	13	26	93.7	0.2111	7x0.1467	0.4401	1.0279	0.9096	1.20	0.0143	0.0150	0.0179	0.0252	1125	2050	0.0402	0.0738	0.4697
Catawba/ ACSS/TW	1272.0	5	30	93.3	0.2059	7x0.0967	0.2901	1.0507	0.9993	1.20	0.0132	0.0141	0.0173	0.0247	1145	2070	0.0395	0.0743	0.4688
Nelson/ ACSS/TW	1257.1	7	35	92.4	0.1895	7x0.1115	0.3345	1.0558	0.9875	1.21	0.0133	0.0142	0.0174	0.0249	1140	2070	0.0402	0.0739	0.4674
Yukon/ ACSS/TW	1233.6	13	39	91.0	0.1778	19x0.0910	0.4550	1.0923	0.9688	1.25	0.0135	0.0143	0.0175	0.0252	1145	2075	0.0422	0.0727	0.4628
Truckee/ ACSS/TW	1372.5	5	30	93.6	0.2139	7x0.1004	0.3012	1.1337	1.0783	1.25	0.0122	0.0132	0.0160	0.0229	1200	2175	0.0409	0.0734	0.4631
Mackenzie/ ACSS/TW	1359.7	7	36	92.9	0.1943	7x0.1159	0.3477	1.1413	1.0674	1.26	0.0123	0.0132	0.0161	0.0231	1200	2175	0.0417	0.0730	0.4617
Thames/ ACSS/TW	1334.6	13	39	92.6	0.1850	19x0.0944	0.4720	1.1808	1.0479	1.29	0.0125	0.0133	0.0162	0.0233	1200	2180	0.0436	0.0720	0.4579
St. Croix/ ACSS/TW	1467.8	5	30	93.4	0.2212	7x0.1041	0.3123	1.2127	1.1532	1.29	0.0114	0.0124	0.0151	0.0215	1250	2275	0.0424	0.0726	0.4576
Miramichi/ ACSS/TW	1455.3	7	36	93.4	0.2010	7x0.1200	0.3600	1.2219	1.1427	1.30	0.0115	0.0124	0.0151	0.0216	1245	2275	0.0430	0.0723	0.4568
Merrimack/ ACSS/TW	1433.6	13	39	92.1	0.1917	19x0.0978	0.4890	1.2682	1.1255	1.34	0.0116	0.0124	0.0152	0.0217	1255	2290	0.0452	0.0711	0.4519
Platte/ ACSS/TW	1569.0	5	33	93.7	0.2181	7x0.1074	0.3222	1.2962	1.2328	1.33	0.0107	0.0117	0.0142	0.0201	1300	2375	0.0438	0.0719	0.4527
Potomac/ ACSS/TW	1557.4	7	36	93.2	0.2080	7x0.1241	0.3723	1.3084	1.2237	1.35	0.0107	0.0117	0.0142	0.0202	1300	2375	0.0445	0.0715	0.4513
Rio Grande/ ACSS/TW	1533.3	13	39	93.2	0.1983	19x0.1012	0.5060	1.3574	1.2046	1.38	0.0109	0.0117	0.0142	0.0203	1305	2390	0.0466	0.0705	0.4474
Schuylkill/ ACSS/TW	1657.4	7	36	93.5	0.2145	7x0.1280	0.3840	1.3912	1.3012	1.39	0.0101	0.0111	0.0134	0.0190	1350	2475	0.0459	0.0708	0.4467
Pecos/ ACSS/TW	1622.0	13	39	93.0	0.2039	19x0.1064	0.5320	1.4425	1.2736	1.42	0.0103	0.0111	0.0135	0.0192	1355	2485	0.0482	0.0697	0.4424
Pee Dee/ ACSS/TW	1758.6	7	37	93.1	0.2180	7x0.1319	0.3957	1.4764	1.3807	1.43	0.00951	0.0105	0.0127	0.0180	1395	2570	0.0474	0.0701	0.4416
James/ ACSS/TW	1730.6	13	39	92.5	0.2107	19x0.1075	0.5375	1.5322	1.3598	1.47	0.00962	0.0105	0.0127	0.0181	1405	2590	0.0496	0.0690	0.4374
Athabaska/ ACSS/TW	1949.6	7	42	93.4	0.2155	7x0.1392	0.4176	1.6384	1.5318	1.50	0.00858	0.00962	0.0116	0.0163	1485	2750	0.0499	0.0689	0.4338
Cumberland/ ACSS/TW	1926.9	13	42	93.3	0.2142	19x0.1133	0.5665	1.7044	1.5129	1.54	0.00864	0.00951	0.0115	0.0163	1500	2770	0.0522	0.0678	0.4296
Powder/ ACSS/TW	2153.8	8	64	92.2	0.1834	19x0.0961	0.4805	1.8293	1.6915	1.60	0.00780	0.00879	0.0103	0.0141	1600	3010	0.0535	0.0673	0.4239
Santee/ ACSS/TW	2627.3	8	64	93.1	0.2027	19x0.1062	0.5310	2.2328	2.0645	1.76	0.00640	0.00750	0.00869	0.0118	1785	3405	0.0589	0.0651	0.4090

- (1) Code words shown denote ACSS/TW with regular-strength Class A galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.
- (4) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.
- (5) Based on the given conductor temperature at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.
- (6) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.

Notes

TransPowr® AAC/T-2® Bare Overhead Conductor

All-Aluminum 1350 Conductor Concentric-Lay-Stranded Twisted Pair



Product Construction:

Complete Conductor:

AAC/T-2 is a twisted pair of stranded aluminum conductors twisted around each other at nine-foot intervals. AAC/T-2 conductors are manufactured in accordance with the requirements of the latest applicable issues of ASTM specifications B230, B231 and B911. The sizes and strandings listed on the following pages are those most frequently used for overhead lines. Additional sizes and strandings are available.

Features and Benefits:

The AAC/T-2 conductor design effectively resists wind-induced motion in two ways. First, the constantly varying diameter prevents buildup of resonant vibration in the line. Second, the low torsional stiffness reduces motion-causing wind forces to ineffective levels. These mechanical properties eliminate galloping, reduce aeolian vibration and control subconductor oscillation. AAC/T-2 can reduce structural costs by permitting higher conductor tensions, resulting in less sag and longer spans. Also, right-of-way cost may be reduced by utilizing compact line designs. Electrically, AAC/T-2 operates at lower temperatures and has a lower AC resistance than a single conventional conductor with the same aluminum area. AAC/T-2 can be installed with many of the same methods and equipment used for standard round conductors.

Applications:

AAC/T-2 conductors are used for overhead distribution and transmission lines which are subject to wind-induced motion damage.

Options:

- High-conductivity aluminum (/HC)(62.0% IACS)

For other conductor sizes, designs and/or specific installation requirements not shown in the tables, contact your General Cable sales representative or e-mail info@generalcable.com.

TransPowr® AAC/T-2® Bare Overhead Conductor

All-Aluminum 1350 Conductor Concentric-Lay-Stranded Twisted Pair

AAC/T-2, CONCENTRIC-LAY-STRANDED (MECHANICAL PROPERTIES)

CODE WORD	SIZE AWG OR kcmil	COMPONENT		OUTER AREA SQ. INCHES	OVERALL DIMENSIONS INCHES	EQUIV. DIA. INCHES	NOMINAL MASS LB/1000 FT	RATED STRENGTH LBS	STANDARD PACKAGES (1)		
		AWG or kcmil	STRANDING NO. X DIA. INCHES						REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
T-2 Lily	105.2	3	7x0.0867	0.0827	0.260 x 0.520	0.426	98.6	2200	NR 60.28	1110	22470
T-2 Iris	132.7	2	7x0.0973	0.1043	0.292 x 0.584	0.478	124.4	2800	NR 66.28 NR 48.28	1400 700	22470 11235
T-2 Pansy	167.4	1	7x0.1094	0.1314	0.328 x 0.656	0.537	156.9	3200	NR 66.28 NR 48.28 NR 30.22	1400 700 200	17830 8915 2550
T-2 Poppy	211.2	1/0	7x0.1228	0.1658	0.368 x 0.737	0.603	198	4000	NR 66.28 NR 48.28 NR 30.22	1400 700 200	14130 7065 2020
T-2 Aster	266.2	2/0	7x0.1379	0.2091	0.414 x 0.827	0.677	249.5	5000	NR 66.28 NR 48.28	1400 700	11210 5605
T-2 Phlox	335.6	3/0	7x0.1548	0.2635	0.464 x 0.929	0.760	314.6	6000	NR 66.28 NR 48.28	1400 700	8890 4445
T-2 Oxlip	423.2	4/0	7x0.1738	0.3325	0.522 x 1.043	0.854	396.7	7600	NR 66.28 NR 48.28	1400 700	7050 3525
T-2 Daisy	533.6	266.8	7x0.1952	0.4190	0.586 x 1.171	0.959	500	9600	NR 66.28 NR 48.28	1395 700	5590 2795
T-2 Laurel	533.6	266.8	19x0.1185	0.4191	0.592 x 1.185	0.970	500	10000	RMT 90.45 RM 68.38 NR 60.28	3490 1745 1165	13950 6975 4650
T-2 Tulip	672.8	336.4	19x0.1331	0.5287	0.665 x 1.331	1.089	631	12200	RMT 96.60 RM 68.38 NR 66.28	3555 1780 1185	11270 5635 3755
T-2 Daffodil	700.0	350.0	19x0.1357	0.5496	0.679 x 1.357	1.111	656	12800	RMT 90.45 RM 68.38 NR 60.28	3395 1700 1135	10360 5180 3455
T-2 Canna	795.0	397.5	19x0.1446	0.1446	0.723 x 1.446	1.184	745	14200	RMT 90.45 RM 68.38 NR 60.28	3415 1705 1140	9170 4585 3055
T-2 Cosmos	954.0	477.0	19x0.1585	0.7488	0.792 x 1.584	1.297	894	16800	RMT 96.60 RM 68.38 NR 66.28	3540 1770 1180	7920 3960 2640
T-2 Syringa	954.0	477.0	37x0.1135	0.7487	0.795 x 1.590	1.301	894	17400	RMT 96.60 NR 60.28 NR 48.28	3540 885 700	7920 1980 1565
T-2 Zinnia	1000.0	500.0	19x0.1622	0.7852	0.811 x 1.622	1.328	937	17600	RMT 90.45	3350	7150
T-2 Hyacinth	1000.0	500.0	37x0.1163	0.7848	0.814 x 1.627	1.332	937	18200	RMT 90.45 RM 68.38	3355 1675	7160 3580
T-2 Dahlia	1113.0	556.5	19x0.1712	0.8737	0.856 x 1.711	1.401	1043	19600	RMT 96.60 RM 68.38 NR 66.28	3590 1795 1200	6890 3445 2300
T-2 Mistletoe	1113.0	556.5	37x0.1226	0.8736	0.858 x 1.717	1.405	1043	19800	RMT 96.60 RM 68.38 NR 66.28	3590 1795 1200	6890 3445 2300
T-2 Day Lily	1192.0	596.0	19x0.1771	0.9361	0.886 x 1.771	1.450	1117	20800	RMT 90.45	3365	6020

(1) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® AAC/T-2® Bare Overhead Conductor

All-Aluminum 1350 Conductor Concentric-Lay-Stranded Twisted Pair

AAC/T-2, CONCENTRIC-LAY-STRANDED (ELECTRICAL PROPERTIES)

CODE WORD	SIZE AWG OR kcmil	COMPONENT		OUTER AREA SQ. INCHES	OVERALL DIMENSIONS INCHES	EQUIV. DIA. INCHES	RESISTANCE (2) OHMS/1000 FT			AMPACITY 75° C (3)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM / 1000 FT (4)	CAPACITIVE REACTANCE MEGAOHM - 1000 FT (4)
		AWG or kcmil	STRANDING NO. X DIA. INCHES				DC @ 20°C	AC @ 25°C	AC @ 75°C				
T-2 Lily	105.2	3	7x0.0867	0.0827	0.260 x 0.520	0.426	0.164	0.168	0.201	255	0.0131	0.0997	0.6544
T-2 Iris	132.7	2	7x0.0973	0.1043	0.292 x 0.584	0.478	0.130	0.133	0.159	295	0.0147	0.0970	0.6362
T-2 Pansy	167.4	1	7x0.1094	0.1314	0.328 x 0.656	0.537	0.103	0.105	0.126	345	0.0165	0.0944	0.6180
T-2 Poppy	211.2	1/0	7x0.1228	0.1658	0.368 x 0.737	0.603	0.0818	0.0836	0.100	395	0.0185	0.0917	0.5998
T-2 Aster	266.2	2/0	7x0.1379	0.2091	0.414 x 0.827	0.677	0.0649	0.0664	0.0795	460	0.0208	0.0890	0.5817
T-2 Phlox	335.6	3/0	7x0.1548	0.2635	0.464 x 0.929	0.760	0.0515	0.0528	0.0631	530	0.0233	0.0864	0.5636
T-2 Oxlip	423.2	4/0	7x0.1738	0.3325	0.522 x 1.043	0.854	0.0408	0.0419	0.0501	615	0.0262	0.0837	0.5454
T-2 Daisy	533.6	266.8	7x0.1952	0.4190	0.586 x 1.171	0.959	0.0324	0.0334	0.0399	710	0.0294	0.0810	0.5272
T-2 Laurel	533.6	266.8	19x0.1185	0.4191	0.592 x 1.185	0.970	0.0324	0.0334	0.0399	710	0.0304	0.0803	0.5254
T-2 Tulip	672.8	336.4	19x0.1331	0.5287	0.665 x 1.331	1.089	0.0257	0.0266	0.0317	820	0.0341	0.0776	0.5073
T-2 Daffodil	700.0	350.0	19x0.1357	0.5496	0.679 x 1.357	1.111	0.0247	0.0256	0.0305	840	0.0348	0.0772	0.5042
T-2 Canna	795.0	397.5	19x0.1446	0.1446	0.723 x 1.446	1.184	0.0217	0.0227	0.0270	910	0.0371	0.0757	0.4942
T-2 Cosmos	954.0	477.0	19x0.1585	0.7488	0.792 x 1.584	1.297	0.0181	0.0191	0.0226	1020	0.0406	0.0736	0.4799
T-2 Syringa	954.0	477.0	37x0.1135	0.7487	0.795 x 1.590	1.301	0.0181	0.0191	0.0226	1020	0.0410	0.0734	0.4794
T-2 Zinnia	1000.0	500.0	19x0.1622	0.7852	0.811 x 1.622	1.328	0.0173	0.0182	0.0216	1050	0.0416	0.0731	0.4762
T-2 Hyacinth	1000.0	500.0	37x0.1163	0.7848	0.814 x 1.627	1.332	0.0173	0.0182	0.0216	1050	0.0420	0.0728	0.4757
T-2 Dahlia	1113.0	556.5	19x0.1712	0.8737	0.856 x 1.711	1.401	0.0155	0.0165	0.0195	1120	0.0439	0.0718	0.4679
T-2 Mistletoe	1113.0	556.5	37x0.1226	0.8736	0.858 x 1.717	1.405	0.0155	0.0165	0.0195	1120	0.0443	0.0716	0.4674
T-2 Day Lily	1192.0	596.0	19x0.1771	0.9361	0.886 x 1.771	1.450	0.0145	0.0155	0.0183	1165	0.0454	0.0711	0.4625

(2) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization.

To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

(3) Based on the given conductor temperature at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(4) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.

TransPowr® AAC/T-2® Bare Overhead Conductor

All-Aluminum 1350 Conductor Concentric-Lay-Stranded Twisted Pair

AAC/T-2, CONCENTRIC-LAY-STRANDED (MECHANICAL PROPERTIES)

CODE WORD	SIZE AWG OR kcmil	COMPONENT		OUTER AREA SQ. INCHES	OVERALL DIMENSIONS INCHES	EQUIV. DIA. INCHES	NOMINAL MASS LB/1000 FT	RATED STRENGTH LBS	STANDARD PACKAGES (1)		
		AWG or kcmil	STRANDING NO. X DIA. INCHES						REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
T-2 Meadowsweet	1200.0	600.0	37x0.1274	0.9418	0.891 x 1.783	1.459	1125	21400	RMT 90.45 RM 68.38	3390 1695	6030 3015
T-2 Orchid	1272.0	636.0	37x0.1311	0.9989	0.918 x 1.836	1.502	1192	22800	RMT 96.60 RM 68.38 NR 60.28	3525 1760 880	5910 2955 1480
T-2 Gloxinia	1333.2	666.6	37x0.1342	1.0467	0.940 x 1.879	1.538	1250	23800	RMT 90.45	3280	5250
T-2 Violet	1431.0	715.5	37x0.1391	1.1245	0.973 x 1.947	1.593	1341	25600	RMT 90.45 RM 68.38 NR 60.28	3450 1725 860	5140 2570 1285
T-2 Nasturtium	1431.0	715.5	61x0.1083	1.1238	0.975 x 1.949	1.596	1341	26200	RMT 90.45 RM 68.38	3445 1725	5140 2570
T-2 Petunia	1500.0	750.0	37x0.1424	1.1785	0.997 x 1.993	1.631	1406	26200	RMT 96.60 RM 68.38 NR 60.28	3525 1760 885	5010 2505 1255
T-2 Arbutus	1590.0	795.0	37x0.1466	1.2491	1.026 x 2.052	1.680	1490	27800	RMT 90.45 RM 68.38 NR 60.28	3285 1645 825	4410 2205 1105
T-2 Lilac	1590.0	795.0	61x0.1142	1.2496	1.027 x 2.055	1.682	1490	28600	RMT 90.45 RM 68.38	3290 1645	4410 2205
T-2 Fuchsia	1600.0	800.0	37x0.1471	1.2559	1.029 x 2.059	1.685	1500	28000	RMT 90.45 RM 68.38	3305 1650	4410 2205
T-2 Heliotrope	1600.0	800.0	61x0.1145	1.2562	1.031 x 2.061	1.687	1500	28800	RMT 90.45 RM 68.38	3315 1655	4420 2210
T-2 Anemone	1749.0	874.5	37x0.1537	1.3730	1.076 x 2.152	1.762	1639	30000	RMT 96.60 RM 68.38 NR 60.28	3540 1770 885	4320 2160 1080
T-2 Crocus	1749.0	874.5	61x0.1197	1.3729	1.078 x 2.155	1.764	1639	31600	RMT 96.60 RM 68.38	3540 1770	4320 2160
T-2 Cockscomb	1800.0	900.0	37x0.1560	1.4144	1.092 x 2.183	1.787	1687	30800	RMT 90.45	3155	3740
T-2 Magnolia	1908.0	954.0	37x0.1606	1.4990	1.124 x 2.248	1.840	1788	32800	RMT 90.45 RM 68.38 NR 60.28	3255 1630 815	3640 1820 910
T-2 Goldenrod	1908.0	954.0	61x0.1251	1.4996	1.126 x 2.251	1.842	1788	33800	RMT 90.45 RM 68.38	3255 1630	3640 1820
T-2 Camellia	2000.0	1000.0	61x0.1280	1.5699	1.152 x 2.305	1.886	1875	35400	RMT 90.45 RM 68.38	3430 1715	3660 1830
T-2 Bluebell	2067.0	1033.5	37x0.1671	1.6228	1.170 x 2.340	1.915	1937	35400	RMT 90.45 RM 68.38 NR 60.28	3430 1715 855	3540 1770 885
T-2 Larkspur	2067.0	1033.5	61x0.1302	1.6243	1.171 x 2.343	1.918	1937	36600	RMT 90.45 RM 68.38	3440 1720	3550 1775
T-2 Marigold	2226.0	1113.0	61x0.1351	1.7489	1.216 x 2.431	1.990	2086	39400	RMT 90.45 RM 68.38	3170 1585	3040 1520

(1) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® AAC/T-2® Bare Overhead Conductor

All-Aluminum 1350 Conductor Concentric-Lay-Stranded Twisted Pair

AAC/T-2, CONCENTRIC-LAY-STRANDED (ELECTRICAL PROPERTIES)

CODE WORD	SIZE AWG OR kcmil	COMPONENT		OUTER AREA SQ. INCHES	OVERALL DIMENSIONS INCHES	EQUIV. DIA. INCHES	RESISTANCE (2) OHMS/1000 FT			AMPACITY 75°C (3)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (4)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (4)
		AWG or kcmil	STRANDING NO. X DIA. INCHES				DC @ 20°C	AC @ 25°C	AC @ 75°C				
T-2 Meadowsweet	1200.0	600.0	37x0.1274	0.9418	0.891 x 1.783	1.459	0.0144	0.0154	0.0182	1170	0.0460	0.0707	0.4615
T-2 Orchid	1272.0	636.0	37x0.1311	0.9989	0.918 x 1.836	1.502	0.0136	0.0146	0.0173	1215	0.0474	0.0701	0.4569
T-2 Gloxinia	1333.2	666.6	37x0.1342	1.0467	0.940 x 1.879	1.538	0.0130	0.0140	0.0165	1250	0.0485	0.0695	0.4532
T-2 Violet	1431.0	715.5	37x0.1391	1.1245	0.973 x 1.947	1.593	0.0121	0.0132	0.0155	1300	0.0503	0.0687	0.4477
T-2 Nasturtium	1431.0	715.5	61x0.1083	1.1238	0.975 x 1.949	1.596	0.0121	0.0132	0.0155	1300	0.0505	0.0686	0.4475
T-2 Petunia	1500.0	750.0	37x0.1424	1.1785	0.997 x 1.993	1.631	0.0115	0.0126	0.0148	1340	0.0515	0.0682	0.4440
T-2 Arbutus	1590.0	795.0	37x0.1466	1.2491	1.026 x 2.052	1.680	0.0109	0.0120	0.0141	1385	0.0530	0.0675	0.4394
T-2 Lilac	1590.0	795.0	61x0.1142	1.2496	1.027 x 2.055	1.682	0.0109	0.0120	0.0141	1385	0.0532	0.0674	0.4392
T-2 Fuchsia	1600.0	800.0	37x0.1471	1.2559	1.029 x 2.059	1.685	0.0108	0.0120	0.0140	1390	0.0532	0.0674	0.4389
T-2 Heliotrope	1600.0	800.0	61x0.1145	1.2562	1.031 x 2.061	1.687	0.0108	0.0120	0.0140	1390	0.0534	0.0674	0.4387
T-2 Anemone	1749.0	874.5	37x0.1537	1.3730	1.076 x 2.152	1.762	0.00988	0.0111	0.0129	1460	0.0556	0.0664	0.4320
T-2 Crocus	1749.0	874.5	61x0.1197	1.3729	1.078 x 2.155	1.764	0.00988	0.0111	0.0129	1460	0.0558	0.0663	0.4318
T-2 Cockscomb	1800.0	900.0	37x0.1560	1.4144	1.092 x 2.183	1.787	0.00960	0.0108	0.0126	1485	0.0564	0.0661	0.4297
T-2 Magnolia	1908.0	954.0	37x0.1606	1.4990	1.124 x 2.248	1.840	0.00906	0.0103	0.0120	1535	0.0580	0.0654	0.4251
T-2 Goldenrod	1908.0	954.0	61x0.1251	1.4996	1.126 x 2.251	1.842	0.00906	0.0103	0.0120	1535	0.0583	0.0653	0.4249
T-2 Camellia	2000.0	1000.0	61x0.1280	1.5699	1.152 x 2.305	1.886	0.00864	0.00994	0.0115	1575	0.0597	0.0648	0.4213
T-2 Bluebell	2067.0	1033.5	37x0.1671	1.6228	1.170 x 2.340	1.915	0.00836	0.00968	0.0112	1605	0.0604	0.0645	0.4189
T-2 Larkspur	2067.0	1033.5	61x0.1302	1.6243	1.171 x 2.343	1.918	0.00836	0.00968	0.0112	1605	0.0607	0.0644	0.4187
T-2 Marigold	2226.0	1113.0	61x0.1351	1.7489	1.216 x 2.431	1.990	0.00777	0.00914	0.0105	1675	0.0630	0.0636	0.4129

(2) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

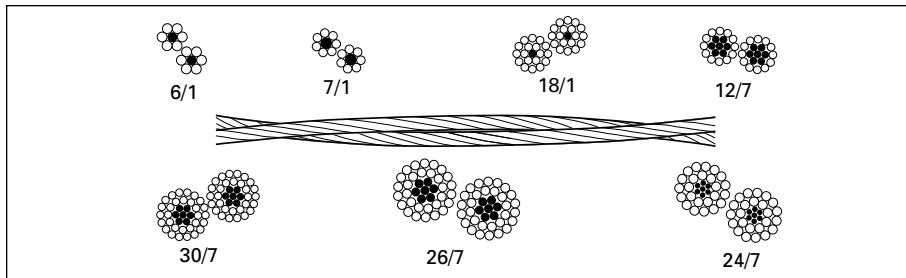
(3) Based on the given conductor temperature at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(4) Values for inductive reactance and capacitive reactance are expressed in terms of a 1 ft radius.

Notes

TransPowr® ACSR/T-2® Bare Overhead Conductor

Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded Twisted Pair



Product Construction:

Complete Conductor:

ACSR/T-2 is a pair of stranded aluminum, steel reinforced conductors twisted around each other at nine foot intervals. ACSR/T-2 conductors are manufactured in accordance with the latest applicable issue of ASTM B911. The sizes and strandings listed on the following pages are those most frequently used for overhead lines. The steel core wires are protected by galvanizing, aluminizing or aluminum cladding. The standard Class A zinc coating is usually adequate for ordinary environments. For greater protection, Class B and C galvanized coatings, aluminized or aluminum-clad steel cores may be specified.

Features and Benefits:

The ACSR/T-2 conductor design effectively resists wind-induced motion in two ways. First, the constantly varying diameter prevents buildup of resonant vibration in the line. Second, the low torsional stiffness reduces motion-causing wind forces to ineffective levels. These mechanical properties eliminate galloping, reduce aeolian vibration and control sub-conductor oscillation. ACSR/T-2 can reduce structural costs by permitting higher conductor tensions, resulting in less sag and longer spans. Also, right-of-way costs maybe reduced by utilizing compact line designs. Electrically, ACSR/T-2 operates at lower temperatures and has a lower AC resistance than a single conventional conductor with the same aluminum area. ACSR/T-2 can be installed with many of the same methods and equipment used for standard round conductors.

Applications:

ACSR/T-2 conductors are used for overhead distribution and transmission lines which are subject to wind-induced motion damage.

Options:

- High-conductivity aluminum (/HC) (62.0% IACS)
- Regular-strength Class C galvanized steel core (/GC2)
- High-strength Class A galvanized steel core (/GA3)
- Regular-strength Class A zinc-5% aluminum mischmetal alloy-coated steel core (/MA2)
- High-strength Class A zinc-5% aluminum mischmetal alloy-coated steel core (/MA3)
- Aluminum-clad steel core (/AW)

For other conductor sizes, designs and/or specific installation requirements not shown in the tables, contact your General Cable sales representative or e-mail info@generalcable.com.

TransPowr® ACSR/T-2® Bare Overhead Conductor

Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded Twisted Pair

ACSR/T-2 CONCENTRIC-LAY-STRANDED (MECHANICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	COMPONENT			OUTER AREA SQ. INCHES		OVERALL DIMENSIONS INCHES	EQUIV. DIA. INCHES	NOMINAL MASS (2) LB/1000 FT		RATED STRENGTH LBS	STANDARD PACKAGES (3)			
		AWG or kcmil	STRANDING NO. X DIA INCHES		TOTAL	AL.			TOTAL	AL.		RATED STRENGTH LBS	REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
			AL.	STEEL											
T-2 Swan	1	4	6x0.0834	1x0.0834	0.0765	0.0656	0.250 x 0.500	0.410	114.7	77.8	3720	NR 48.28	880	15420	
T-2 Swanate	1	4	7x0.0772	1x0.1029	0.0822	0.0655	0.257 x 0.515	0.421	133.9	77.8	4720	NR 60.28	1200	17910	
T-2 Swallow	1/0	3	6x0.0936	1x0.0937	0.0964	0.0826	0.281 x 0.562	0.460	144.7	98.2	4600	NR 42.28	650	8955	
T-2 Sparrow	2/0	2	6x0.1052	1x0.1052	0.1217	0.1043	0.316 x 0.631	0.516	182.4	123.8	5700	NR 66.28	1765	19390	
												NR 60.28	1035	9695	
												NR 42.28	590	6465	
T-2 Sparate	2/0	2	7x0.0973	1x0.1299	0.1307	0.1042	0.325 x 0.649	0.531	213.2	123.8	7280	NR 60.28	1200	11250	
												NR 42.28	600	5625	
T-2 Robin	3/0	1	6x0.1181	1x0.1181	0.1534	0.1315	0.354 x 0.709	0.580	230.0	156.2	7100	NR 66.28	1770	15360	
												NR 48.28	885	7680	
												NR 42.28	590	5120	
T-2 Raven	4/0	1/0	6x0.1327	1x0.1327	0.1936	0.1660	0.398 x 0.796	0.652	290.3	197	8760	NR 66.28	1770	12190	
												NR 48.28	885	6095	
												NR 42.28	590	4060	
T-2 Quail	266.2	2/0	6x0.1490	1x0.1489	0.2440	0.2092	0.447 x 0.894	0.731	365.7	248.2	10600	NR 66.28	1765	9670	
												NR 48.28	885	4835	
												NR 42.28	590	3220	
T-2 Pigeon	335.6	3/0	6x0.1672	1x0.1672	0.3074	0.2635	0.502 x 1.003	0.821	461.1	313	13240	NR 66.28	1770	7670	
												NR 48.28	885	3835	
												NR 42.28	590	2560	
T-2 Penguin	423.2	4/0	6x0.1878	1x0.1878	0.3878	0.3324	0.563 x 1.127	0.922	581.5	394.8	16700	NR 66.28	1770	6080	
												NR 48.28	885	3040	
												NR 42.28	590	2025	
T-2 Jaegar	456.4	228.2	18x0.1126	1x0.1126	0.3784	0.3585	0.563 x 1.126	0.922	495	428	12000	RMT 90.45	3820	15420	
T-2 Waxwing	533.6	266.8	18x0.1218	1x0.1217	0.4426	0.4193	0.609 x 1.217	0.996	579	500	13800	RMT 96.60	3985	13790	
												RMT 68.38	1995	6895	
T-2 Spoonbill	533.6	266.8	22x0.1101	7x0.0612	0.4602	0.4190	0.624 x 1.248	1.022	642	502	17400	RMT 84.45	2805	8755	
												RMT 68.38	1870	5835	
T-2 Scaup	533.6	266.8	24x0.1054	7x0.0703	0.4732	0.4189	0.633 x 1.265	1.036	687	502	20000	RMT 84.45	3265	9520	
												RMT 68.38	2180	6350	
T-2 Partridge	533.6	266.8	26x0.1013	7x0.0788	0.4874	0.4191	0.642 x 1.283	1.050	734	502	22600	RMT 90.45	3790	10330	
T-2 Junco	533.6	266.8	30x0.0943	7x0.0943	0.5168	0.4190	0.660 x 1.320	1.081	835	504	27800	RMT 96.60	4790	11480	
T-2 Ostrich	600.0	300.0	26x0.1074	7x0.0835	0.5477	0.4710	0.680 x 1.361	1.114	825	566	25400	RMT 90.45	3790	9190	
T-2 Merlin	672.8	336.4	18x0.1367	1x0.1367	0.5577	0.5284	0.684 x 1.367	1.119	730	630	17400	RMT 90.45	3785	10380	
												RMT 68.38	1895	5190	
T-2 Trogon	672.8	336.4	20x0.1297	7x0.0576	0.5648	0.5283	0.692 x 1.383	1.132	757	634	19000	RMT 90.45	3860	10190	
												RMT 68.38	1930	5095	
T-2 Woodcock	672.8	336.4	22x0.1237	7x0.0687	0.5806	0.5287	0.701 x 1.401	1.147	809	634	21800	RMT 96.60	4140	10230	
												RMT 68.38	2070	5115	
T-2 Widgeon	672.8	336.4	24x0.1184	7x0.0789	0.5968	0.5284	0.710 x 1.421	1.163	865	634	25000	RMT 96.60	4345	10040	
												RMT 68.38	2175	5020	
T-2 Linnet	672.8	336.4	26x0.1137	7x0.0884	0.6145	0.5285	0.720 x 1.441	1.179	925	634	28200	RMT 90.45	4235	9160	
												RMT 68.38	2115	4580	
T-2 Oriole	672.8	336.4	30x0.1059	7x0.1059	0.6518	0.5285	0.741 x 1.483	1.213	1053	636	34600	RMT 96.60	4755	9030	
												RMT 68.38	2375	4515	
T-2 Chickadee	795.0	397.5	18x0.1486	1x0.1486	0.6590	0.6244	0.743 x 1.486	1.216	862	746	19800	RMT 84.36	2070	4800	
												RMT 90.45	3790	8800	
T-2 Ptarmigan	795.0	397.5	20x0.1410	7x0.0627	0.6679	0.6247	0.752 x 1.504	1.231	895	748	22200	RMT 96.60	4150	9270	
												RMT 68.38	2075	4635	
T-2 Stork	795.0	397.5	22x0.1344	7x0.0747	0.6857	0.6244	0.762 x 1.523	1.247	957	748	25800	RMT 90.45	3930	8220	
												RMT 68.38	1965	4110	
T-2 Brant	795.0	397.5	24x0.1287	7x0.0858	0.7054	0.6244	0.772 x 1.544	1.264	1023	748	29200	RMT 90.45	4125	8060	
												RMT 68.38	2060	4030	

(1) Code words shown denote ACSR/T-2 with Class A Galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may be slightly greater or slightly less than the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSR/T-2® Bare Overhead Conductor

Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded Twisted Pair

ACSR/T-2 CONCENTRIC-LAY-STRANDED (ELECTRICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	COMPONENT			OUTER AREA SQ. INCHES		OVERALL DIMENSIONS INCHES	EQUIV. DIA. INCHES	RESISTANCE (2)			AMPACITY 75°C (3)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (4)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (4)
		AWG or kcmil	STRANDING NO. X DIA INCHES						DC @ 20°C	AC @ 25°C	AC @ 75°C				
			AL.	STEEL	TOTAL	AL.									
T-2 Swan	1	4	6x0.0834	1x0.0834	0.0765	0.0656	0.250 x 0.500	0.410	0.202	0.206	0.246	230	0.0129	0.1000	0.6604
T-2 Swanate	1	4	7x0.0772	1x0.1029	0.0822	0.0655	0.257 x 0.515	0.421	0.199	0.203	0.243	230	0.0134	0.0991	0.6560
T-2 Swallow	1/0	3	6x0.0936	1x0.0937	0.0964	0.0826	0.281 x 0.562	0.460	0.160	0.163	0.195	265	0.0145	0.0974	0.6423
T-2 Sparrow	2/0	2	6x0.1052	1x0.1052	0.1217	0.1043	0.316 x 0.631	0.516	0.127	0.129	0.155	305	0.0162	0.0947	0.6241
T-2 Sparate	2/0	2	7x0.0973	1x0.1299	0.1307	0.1042	0.325 x 0.649	0.531	0.125	0.128	0.153	310	0.0169	0.0937	0.6197
T-2 Robin	3/0	1	6x0.1181	1x0.1181	0.1534	0.1315	0.354 x 0.709	0.580	0.101	0.103	0.123	355	0.0182	0.0920	0.6060
T-2 Raven	4/0	1/0	6x0.1327	1x0.1327	0.1936	0.1660	0.398 x 0.796	0.652	0.0797	0.0814	0.0974	410	0.0205	0.0893	0.5877
T-2 Quail	266.2	2/0	6x0.1490	1x0.1489	0.2440	0.2092	0.447 x 0.894	0.731	0.0632	0.0646	0.0773	475	0.0230	0.0867	0.5696
T-2 Pigeon	335.6	3/0	6x0.1672	1x0.1672	0.3074	0.2635	0.502 x 1.003	0.821	0.0501	0.0513	0.0614	550	0.0258	0.0840	0.5515
T-2 Penguin	423.2	4/0	6x0.1878	1x0.1878	0.3878	0.3324	0.563 x 1.127	0.922	0.0398	0.0407	0.0487	635	0.0290	0.0814	0.5333
T-2 Jaegar	456.4	228.2	18x0.1126	1x0.1126	0.3784	0.3585	0.563 x 1.126	0.922	0.0376	0.0386	0.0461	650	0.0292	0.0812	0.5334
T-2 Waxwing	533.6	266.8	18x0.1218	1x0.1217	0.4426	0.4193	0.609 x 1.217	0.996	0.0322	0.0331	0.0395	720	0.0316	0.0794	0.5212
T-2 Spoonbill	533.6	266.8	22x0.1101	7x0.0612	0.4602	0.4190	0.624 x 1.248	1.022	0.0321	0.0330	0.0395	725	0.0327	0.0786	0.5173
T-2 Scaup	533.6	266.8	24x0.1054	7x0.0703	0.4732	0.4189	0.633 x 1.265	1.036	0.0320	0.0329	0.0393	730	0.0333	0.0782	0.5152
T-2 Partridge	533.6	266.8	26x0.1013	7x0.0788	0.4874	0.4191	0.642 x 1.283	1.050	0.0319	0.0327	0.0391	735	0.0340	0.0777	0.5130
T-2 Junco	533.6	266.8	30x0.0943	7x0.0943	0.5168	0.4190	0.660 x 1.320	1.081	0.0316	0.0325	0.0388	740	0.0352	0.0769	0.5085
T-2 Ostrich	600.0	300.0	26x0.1074	7x0.0835	0.5477	0.4710	0.680 x 1.361	1.114	0.0283	0.0291	0.0348	790	0.0360	0.0764	0.5038
T-2 Merlin	672.8	336.4	18x0.1367	1x0.1367	0.5577	0.5284	0.684 x 1.367	1.119	0.0255	0.0264	0.0315	830	0.0354	0.0768	0.5030
T-2 Trogon	672.8	336.4	20x0.1297	7x0.0576	0.5648	0.5283	0.692 x 1.383	1.132	0.0256	0.0264	0.0315	835	0.0361	0.0764	0.5012
T-2 Woodcock	672.8	336.4	22x0.1237	7x0.0687	0.5806	0.5287	0.701 x 1.401	1.147	0.0255	0.0263	0.0314	840	0.0367	0.0759	0.4992
T-2 Widgeon	672.8	336.4	24x0.1184	7x0.0789	0.5968	0.5284	0.710 x 1.421	1.163	0.0254	0.0262	0.0312	845	0.0374	0.0755	0.4970
T-2 Linnet	672.8	336.4	26x0.1137	7x0.0884	0.6145	0.5285	0.720 x 1.441	1.179	0.0253	0.0260	0.0311	850	0.0381	0.0751	0.4948
T-2 Oriole	672.8	336.4	30x0.1059	7x0.1059	0.6518	0.5285	0.741 x 1.483	1.213	0.0251	0.0258	0.0308	860	0.0395	0.0742	0.4903
T-2 Chickadee	795.0	397.5	18x0.1486	1x0.1486	0.6590	0.6244	0.743 x 1.486	1.216	0.0216	0.0224	0.0267	920	0.0385	0.0748	0.4900
T-2 Ptarmigan	795.0	397.5	20x0.1410	7x0.0627	0.6679	0.6247	0.752 x 1.504	1.231	0.0216	0.0225	0.0268	925	0.0392	0.0744	0.4881
T-2 Stork	795.0	397.5	22x0.1344	7x0.0747	0.6857	0.6244	0.762 x 1.523	1.247	0.0216	0.0224	0.0266	930	0.0399	0.0740	0.4861
T-2 Brant	795.0	397.5	24x0.1287	7x0.0858	0.7054	0.6244	0.772 x 1.544	1.264	0.0215	0.0222	0.0265	935	0.0407	0.0736	0.4840

(1) Code words shown denote ACSR/T-2 with Class A Galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

(3) Based on the given conductor temperature at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(4) Values for inductive reactance and capacitive reactance are expressed in terms of 1 ft radius.



General Cable

TransPowr® ACSR/T-2® Bare Overhead Conductor

Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded Twisted Pair

ACSR/T-2 CONCENTRIC-LAY-STRANDED (MECHANICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	COMPONENT			OUTER AREA SQ. INCHES		OVERALL DIMENSIONS INCHES	EQUIV. DIA. INCHES	NOMINAL MASS (2) LB/1000 FT		RATED STRENGTH LBS	STANDARD PACKAGES (3)		
		AWG or kcmil	STRANDING NO. X DIA INCHES		TOTAL	AL.			TOTAL	AL.		REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
			AL.	STEEL										
T-2 Ibis	795.0	397.5	26x0.1236	7x0.0961	0.7261	0.6245	0.783 x 1.566	1.282	1093	748	32600	RMT 90.45 RMT 68.38	4305 2155	7890 3945
T-2 Lark	795.0	397.5	30x0.1151	7x0.1151	0.7700	0.6243	0.806 x 1.611	1.319	1244	750	40600	RMT 96.60 NR 30.22	4825 2415	7760 3880
T-2 Pelican	954.0	477.0	18x0.1628	1x0.1628	0.7910	0.7494	0.814 x 1.628	1.332	1035	894	23600	RMT 90.45 RMT 68.38	3705 1850	7160 3580
T-2 Tailorbird	954.0	477.0	20x0.1545	7x0.0686	0.8014	0.7496	0.824 x 1.647	1.348	1074	898	26200	RMT 90.45 RMT 68.38	3755 1880	7000 3500
T-2 Toucan	954.0	477.0	22x0.1472	7x0.0818	0.8225	0.7489	0.834 x 1.669	1.366	1148	898	30400	RMT 90.45 RMT 68.38	4025 2015	7020 3510
T-2 Flicker	954.0	477.0	24x0.1410	7x0.0940	0.8467	0.7495	0.846 x 1.692	1.385	1227	898	34400	RMT 90.45 RMT 68.38	4215 2110	6870 3435
T-2 Hawk	954.0	477.0	26x0.1355	7x0.1053	0.8714	0.7495	0.858 x 1.716	1.404	1311	898	39000	RMT 96.60 RMT 68.38	4515 2255	6890 3445
T-2 Hen	954.0	477.0	30x0.1261	7x0.1261	0.9242	0.7493	0.883 x 1.765	1.445	1493	900	47600	RMT 90.45	4620	6190
T-2 Heron	1000.0	500.0	30x0.1291	7x0.1291	0.9687	0.7854	0.904 x 1.807	1.479	1565	944	50000	RMT 96.60	4740	6060
T-2 Nightingale	1034.0	517.0	18x0.1695	1x0.1694	0.8572	0.8122	0.847 x 1.695	1.387	1121	970	25400	RMT 96.60 RMT 68.38	3850 1925	6870 3435
T-2 Creeper	1034.0	517.0	20x0.1608	7x0.0714	0.8681	0.8120	0.857 x 1.715	1.404	1164	974	28400	RMT 96.60	4010	6890
T-2 Osprey	1113.0	556.5	18x0.1758	1x0.1758	0.9224	0.8738	0.879 x 1.758	1.439	1207	1044	27400	RMT 90.45 RMT 68.38	3730 1865	6180 3090
T-2 Tody	1113.0	556.5	20x0.1668	7x0.0741	0.9343	0.8739	0.890 x 1.779	1.456	1253	1048	30600	RMT 90.45 RMT 68.38	3775 1890	6030 3015
T-2 Sapsucker	1113.0	556.5	22x0.1590	7x0.0883	0.9601	0.8743	0.901 x 1.802	1.475	1339	1048	35200	RMT 90.45 RMT 68.38	4050 2025	6050 3025
T-2 Parakeet	1113.0	556.5	24x0.1523	7x0.1015	0.9876	0.8743	0.914 x 1.827	1.496	1432	1048	39600	RMT 90.45 RMT 68.38	4225 2115	5900 2950
T-2 Dove	1113.0	556.5	26x0.1463	7x0.1138	1.0166	0.8742	0.927 x 1.853	1.517	1530	1048	45200	RMT 90.45 RMT 68.38	4125 2060	5390 2695
T-2 Eagle	1113.0	556.5	30x0.1362	7x0.1362	1.0781	0.8742	0.953 x 1.907	1.561	1741	1050	55600	RMT 90.45 RMT 68.38	4590 2295	5270 2635
T-2 Kittiwake	1192.0	596.0	18x0.1820	1x0.1820	0.9886	0.9366	0.910 x 1.820	1.489	1293	1118	29400	RMT 96.60	3925	6070
T-2 Skua	1210.0	605.0	20x0.1739	7x0.0773	1.0158	0.9501	0.928 x 1.855	1.518	1362	1140	33200	RMT 90.45	3670	5390
T-2 Peacock	1210.0	605.0	24x0.1587	7x0.1059	1.0732	0.9499	0.953 x 1.905	1.560	1557	1140	43200	RMT 90.45 RMT 68.38	4185 2090	5370 2685
T-2 Squab	1210.0	605.0	26x0.1526	7x0.1186	1.1053	0.9507	0.966 x 1.932	1.581	1663	1140	48600	RMT 90.45 RMT 68.38	4265 2130	5130 2565
T-2 Wood Duck	1210.0	605.0	30x0.1420	7x0.1420	1.1719	0.9502	0.994 x 1.988	1.627	1893	1142	57800	NR 66.28 RMT 68.38	1895 2365	2000 2500
T-2 Teal	1210.0	605.0	30x0.1420	19x0.0852	1.1669	0.9502	0.994 x 1.988	1.627	1877	1142	60000	RMT 96.60 RMT 68.38	4695 2345	5000 2500
T-2 Swift	1272.0	636.0	36x0.1329	1x0.1329	1.0265	0.9988	0.930 x 1.861	1.523	1286	1192	27600	RMT 90.45 RMT 84.36 NR 60.28	3465 2310 1155	5390 3595 1800
T-2 Kingbird	1272.0	636.0	18x0.1880	1x0.1880	1.0548	0.9993	0.940 x 1.880	1.539	1379	1192	31400	RMT 90.45 RMT 84.36 NR 60.28	3615 2410 1205	5240 3495 1750
T-2 Turacos	1272.0	636.0	20x0.1783	7x0.0792	1.0684	0.9994	0.951 x 1.902	1.557	1432	1198	34800	RMT 90.45 RMT 68.38	3770 1885	5270 2635
T-2 Rook	1272.0	636.0	24x0.1628	7x0.1085	1.1285	0.9990	0.977 x 1.953	1.599	1636	1198	45200	RMT 90.45 RMT 68.38	4195 2100	5130 2565

(1) Code words shown denote ACSR/T-2 with Class A Galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may be slightly greater or slightly less than the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSR/T-2® Bare Overhead Conductor

Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded Twisted Pair

ACSR/T-2 CONCENTRIC-LAY-STRANDED (ELECTRICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	COMPONENT			OUTER AREA SQ. INCHES		OVERALL DIMENSIONS INCHES	EQUIV. DIA. INCHES	RESISTANCE (2) OHMS/1000 FT			AMPACITY 75°C (3)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (4)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (4)
		AWG or kcmil	STRANDING NO. X DIA INCHES												
			AL.	STEEL	TOTAL	AL.			DC @ 20°C	AC @ 25°C	AC @ 75°C				
T-2 Ibis	795.0	397.5	26x0.1236	7x0.0961	0.7261	0.6245	0.783 x 1.566	1.282	0.0214	0.0221	0.0264	940	0.0414	0.0732	0.4818
T-2 Lark	795.0	397.5	30x0.1151	7x0.1151	0.7700	0.6243	0.806 x 1.611	1.319	0.0212	0.0219	0.0261	950	0.0430	0.0723	0.4773
T-2 Pelican	954.0	477.0	18x0.1628	1x0.1628	0.7910	0.7494	0.814 x 1.628	1.332	0.0180	0.0188	0.0224	1030	0.0422	0.0727	0.4757
T-2 Tailorbird	954.0	477.0	20x0.1545	7x0.0686	0.8014	0.7496	0.824 x 1.647	1.348	0.0180	0.0189	0.0224	1035	0.0430	0.0723	0.4738
T-2 Toucan	954.0	477.0	22x0.1472	7x0.0818	0.8225	0.7489	0.834 x 1.669	1.366	0.0180	0.0188	0.0223	1040	0.0437	0.0719	0.4718
T-2 Flicker	954.0	477.0	24x0.1410	7x0.0940	0.8467	0.7495	0.846 x 1.692	1.385	0.0179	0.0187	0.0222	1045	0.0446	0.0715	0.4697
T-2 Hawk	954.0	477.0	26x0.1355	7x0.1053	0.8714	0.7495	0.858 x 1.716	1.404	0.0178	0.0185	0.0221	1055	0.0454	0.0711	0.4675
T-2 Hen	954.0	477.0	30x0.1261	7x0.1261	0.9242	0.7493	0.883 x 1.765	1.445	0.0177	0.0184	0.0219	1065	0.0471	0.0702	0.4630
T-2 Heron	1000.0	500.0	30x0.1291	7x0.1291	0.9687	0.7854	0.904 x 1.807	1.479	0.0169	0.0176	0.0209	1100	0.0482	0.0697	0.4593
T-2 Nightingale	1034.0	517.0	18x0.1695	1x0.1694	0.8572	0.8122	0.847 x 1.695	1.387	0.0166	0.0175	0.0207	1085	0.0439	0.0718	0.4694
T-2 Creeper	1034.0	517.0	20x0.1608	7x0.0714	0.8681	0.8120	0.857 x 1.715	1.404	0.0166	0.0175	0.0208	1085	0.0447	0.0714	0.4675
T-2 Osprey	1113.0	556.5	18x0.1758	1x0.1758	0.9224	0.8738	0.879 x 1.758	1.439	0.0154	0.0163	0.0193	1135	0.0456	0.0710	0.4636
T-2 Tody	1113.0	556.5	20x0.1668	7x0.0741	0.9343	0.8739	0.890 x 1.779	1.456	0.0155	0.0163	0.0193	1135	0.0464	0.0706	0.4618
T-2 Sapsucker	1113.0	556.5	22x0.1590	7x0.0883	0.9601	0.8743	0.901 x 1.802	1.475	0.0154	0.0162	0.0192	1145	0.0472	0.0702	0.4597
T-2 Parakeet	1113.0	556.5	24x0.1523	7x0.1015	0.9876	0.8743	0.914 x 1.827	1.496	0.0153	0.0161	0.0191	1150	0.0481	0.0697	0.4576
T-2 Dove	1113.0	556.5	26x0.1463	7x0.1138	1.0166	0.8742	0.927 x 1.853	1.517	0.0153	0.0160	0.0190	1160	0.0490	0.0693	0.4554
T-2 Eagle	1113.0	556.5	30x0.1362	7x0.1362	1.0781	0.8742	0.953 x 1.907	1.561	0.0152	0.0158	0.0188	1175	0.0509	0.0685	0.4509
T-2 Kittiwake	1192.0	596.0	18x0.1820	1x0.1820	0.9886	0.9366	0.910 x 1.820	1.489	0.0144	0.0153	0.0181	1180	0.0472	0.0702	0.4583
T-2 Skua	1210.0	605.0	20x0.1739	7x0.0773	1.0158	0.9501	0.928 x 1.855	1.518	0.0142	0.0151	0.0179	1195	0.0484	0.0696	0.4552
T-2 Peacock	1210.0	605.0	24x0.1587	7x0.1059	1.0732	0.9499	0.953 x 1.905	1.560	0.0141	0.0149	0.0177	1210	0.0502	0.0688	0.4511
T-2 Squab	1210.0	605.0	26x0.1526	7x0.1186	1.1053	0.9507	0.966 x 1.932	1.581	0.0140	0.0148	0.0175	1220	0.0511	0.0683	0.4489
T-2 Wood Duck	1210.0	605.0	30x0.1420	7x0.1420	1.1719	0.9502	0.994 x 1.988	1.627	0.0140	0.0146	0.0174	1235	0.0530	0.0675	0.4444
T-2 Teal	1210.0	605.0	30x0.1420	19x0.0852	1.1669	0.9502	0.994 x 1.988	1.627	0.0140	0.0146	0.0174	1235	0.0530	0.0675	0.4444
T-2 Swift	1272.0	636.0	36x0.1329	1x0.1329	1.0265	0.9988	0.930 x 1.861	1.523	0.0135	0.0146	0.0183	1185	0.0483	0.0696	0.4548
T-2 Kingbird	1272.0	636.0	18x0.1880	1x0.1880	1.0548	0.9993	0.940 x 1.880	1.539	0.0135	0.0144	0.0170	1230	0.0487	0.0694	0.4532
T-2 Turacos	1272.0	636.0	20x0.1783	7x0.0792	1.0684	0.9994	0.951 x 1.902	1.557	0.0135	0.0144	0.0170	1235	0.0496	0.0690	0.4513
T-2 Rook	1272.0	636.0	24x0.1628	7x0.1085	1.1285	0.9990	0.977 x 1.953	1.599	0.0134	0.0142	0.0168	1250	0.0514	0.0682	0.4471

(1) Code words shown denote ACSR/T-2 with Class A Galvanized steel core ((GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

(3) Based on the given conductor temperature at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions.

For specific ampacities, please contact your General Cable sales representative.

(4) Values for inductive reactance and capacitive reactance are expressed in terms of 1 ft radius.

TransPowr® ACSR/T-2® Bare Overhead Conductor

Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded Twisted Pair

ACSR/T-2 CONCENTRIC-LAY-STRANDED (MECHANICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	COMPONENT			OUTER AREA SQ. INCHES		OVERALL DIMENSIONS INCHES	EQUIV. DIA. INCHES	NOMINAL MASS (2) LB/1000 FT		RATED STRENGTH LBS	STANDARD PACKAGES (3)		
		AWG or kcmil	STRANDING NO. X DIA INCHES						TOTAL	AL.		REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
			AL.	STEEL	TOTAL	AL.								
T-2 Grosbeak	1272.0	636.0	26x0.1564	7x0.1216	1.1614	0.9988	0.990 x 1.981	1.621	1749	1198	50400	RMT 96.60 RMT 84.45 NR 66.28	4500 3000 1505	5150 3430 1720
T-2 Scoter	1272.0	636.0	30x0.1456	7x0.1456	1.2321	0.9990	1.019 x 2.038	1.668	1990	1202	60800	RMT 96.60 RMT 68.38	4975 2485	5000 2500
T-2 Egret	1272.0	636.0	30x0.1456	19x0.0874	1.2273	0.9993	1.019 x 2.039	1.669	1974	1202	63000	RMT 90.45 RMT 68.38 NR 60.28	4345 2170 1085	4400 2200 1100
T-2 Siskin	1333.2	666.6	20x0.1826	7x0.0812	1.1193	1.0468	0.974 x 1.947	1.594	1501	1256	36600	RMT 90.45	3860	5140
T-2 Flamingo	1333.2	666.6	24x0.1667	7x0.1111	1.1832	1.0475	1.000 x 2.000	1.637	1715	1256	47400	RMT 96.60 RMT 68.38 NR 60.28	4305 2155 1075	5020 2510 1255
T-2 Gannet	1333.2	666.6	26x0.1601	7x0.1245	1.2172	1.0467	1.014 x 2.028	1.660	1833	1256	52800	RMT 90.45 RMT 68.38 NR 60.28	4160 2080 1040	4540 2270 1135
T-2 Dunlin	1431.0	715.5	20x0.1891	7x0.0840	1.2017	1.1241	1.009 x 2.017	1.651	1611	1348	39200	RMT 90.45	3655	4540
T-2 Stilt	1431.0	715.5	24x0.1727	7x0.1151	1.2699	1.1242	1.036 x 2.072	1.696	1841	1348	51000	RMT 90.45 RMT 68.38 NR 60.28	4070 2035 1015	4420 2210 1105
T-2 Starling	1431.0	715.5	26x0.1659	7x0.1290	1.3069	1.1239	1.051 x 2.101	1.720	1967	1348	56800	RMT 90.45 RMT 68.38 NR 60.28	4220 2110 1055	4290 2145 1070
T-2 Redwing	1431.0	715.5	30x0.1544	19x0.0926	1.3800	1.1241	1.081 x 2.162	1.769	2219	1352	69200	RMT 90.45 RMT 68.38 NR 60.28	4640 2320 1160	4180 2090 1045
T-2 Coot	1590.0	795.0	36x0.1486	1x0.1486	1.2834	1.2487	1.040 x 2.080	1.703	1607	1490	33600	RMT 90.45 RMT 68.38 NR 60.28	3560 1780 890	4430 2215 1110
T-2 Macaw	1590.0	795.0	42x0.1376	7x0.0764	1.3130	1.2489	1.055 x 2.110	1.727	1715	1498	40200	RMT 90.45 RMT 68.38 NR 60.28	3690 1845 920	4300 2150 1075
T-2 Turbit	1590.0	795.0	20x0.1994	7x0.0886	1.3353	1.2490	1.063 x 2.127	1.741	1790	1498	43600	RMT 90.45 RMT 68.38 NR 60.28	3850 1925 960	4300 2150 1075
T-2 Tern	1590.0	795.0	45x0.1329	7x0.0886	1.3348	1.2485	1.063 x 2.127	1.741	1790	1498	44200	RMT 90.45 RMT 84.45 NR 60.28 NR 60.28	3850 2570 1285 860	4300 2870 1435 960
T-2 Puffin	1590.0	795.0	22x0.1901	7x0.1056	1.3714	1.2488	1.077 x 2.154	1.763	1913	1498	49600	RMT 96.60 RMT 84.45 NR 66.28	4130 2755 1375	4320 2880 1440
T-2 Cuckoo	1590.0	795.0	24x0.1820	7x0.1213	1.4104	1.2486	1.092 x 2.184	1.788	2045	1498	55800	RMT 90.45 RMT 84.36 NR 60.28	3825 2545 1275	3740 2490 1245
T-2 Condor	1590.0	795.0	54x0.1213	7x0.1213	1.4098	1.2481	1.092 x 2.184	1.788	2045	1498	56400	RMT 90.45 RMT 68.38	3825 1910	3740 1870
T-2 Drake	1590.0	795.0	26x0.1749	7x0.1360	1.4525	1.2492	1.107 x 2.215	1.813	2186	1498	63000	RMT 90.45 RMT 84.36 NR 60.28	4110 2745 1370	3760 2510 1255
T-2 Mallard	1590.0	795.0	30x0.1628	19x0.0977	1.5340	1.2491	1.140 x 2.279	1.865	2468	1502	76800	RMT 90.45 RMT 84.36 NR 60.28	4505 3000 1500	3650 2430 1215

(1) Code words shown denote ACSR/T-2 with Class A Galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may be slightly greater or slightly less than the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSR/T-2® Bare Overhead Conductor

Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded Twisted Pair

ACSR/T-2 CONCENTRIC-LAY-STRANDED (ELECTRICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	COMPONENT			OUTER AREA SQ. INCHES		OVERALL DIMENSIONS INCHES	EQUIV. DIA. INCHES	RESISTANCE (2) OHMS/1000 FT			AMPACITY 75°C (3)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (4)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (4)
		AWG or kcmil	STRANDING NO. X DIA INCHES		TOTAL	AL.			DC @ 20°C	AC @ 25°C	AC @ 75°C				
			AL.	STEEL											
T-2 Grosbeak	1272.0	636.0	26x0.1564	7x0.1216	1.1614	0.9988	0.990 x 1.981	1.621	0.0134	0.0141	0.0167	1260	0.0524	0.0678	0.4450
T-2 Scoter	1272.0	636.0	30x0.1456	7x0.1456	1.2321	0.9990	1.019 x 2.038	1.668	0.0133	0.0140	0.0166	1275	0.0544	0.0669	0.4405
T-2 Egret	1272.0	636.0	30x0.1456	19x0.0874	1.2273	0.9993	1.019 x 2.039	1.669	0.0133	0.0140	0.0166	1275	0.0544	0.0669	0.4405
T-2 Siskin	1333.2	666.6	20x0.1826	7x0.0812	1.1193	1.0468	0.974 x 1.947	1.594	0.0129	0.0138	0.0163	1270	0.0508	0.0685	0.4476
T-2 Flamingo	1333.2	666.6	24x0.1667	7x0.1111	1.1832	1.0475	1.000 x 2.000	1.637	0.0128	0.0136	0.0161	1285	0.0527	0.0676	0.4435
T-2 Gannet	1333.2	666.6	26x0.1601	7x0.1245	1.2172	1.0467	1.014 x 2.028	1.660	0.0128	0.0135	0.0160	1295	0.0537	0.0672	0.4413
T-2 Dunlin	1431.0	715.5	20x0.1891	7x0.0840	1.2017	1.1241	1.009 x 2.017	1.651	0.0120	0.0129	0.0153	1325	0.0526	0.0677	0.4421
T-2 Stilt	1431.0	715.5	24x0.1727	7x0.1151	1.2699	1.1242	1.036 x 2.072	1.696	0.0119	0.0128	0.0151	1340	0.0546	0.0668	0.4379
T-2 Starling	1431.0	715.5	26x0.1659	7x0.1290	1.3069	1.1239	1.051 x 2.101	1.720	0.0119	0.0127	0.0150	1350	0.0556	0.0664	0.4357
T-2 Redwing	1431.0	715.5	30x0.1544	19x0.0926	1.3800	1.1241	1.081 x 2.162	1.769	0.0118	0.0125	0.0148	1370	0.0577	0.0656	0.4313
T-2 Coot	1590.0	795.0	36x0.1486	1x0.1486	1.2834	1.2487	1.040 x 2.080	1.703	0.0108	0.0120	0.0148	1355	0.0540	0.0671	0.4373
T-2 Macaw	1590.0	795.0	42x0.1376	7x0.0764	1.3130	1.2489	1.055 x 2.110	1.727	0.0108	0.0119	0.0148	1360	0.0551	0.0666	0.4351
T-2 Turbit	1590.0	795.0	20x0.1994	7x0.0886	1.3353	1.2490	1.063 x 2.127	1.741	0.0108	0.0118	0.0139	1410	0.0555	0.0665	0.4338
T-2 Tern	1590.0	795.0	45x0.1329	7x0.0886	1.3348	1.2485	1.063 x 2.127	1.741	0.0108	0.0119	0.0147	1365	0.0557	0.0664	0.4338
T-2 Puffin	1590.0	795.0	22x0.1901	7x0.1056	1.3714	1.2488	1.077 x 2.154	1.763	0.0108	0.0117	0.0138	1420	0.0565	0.0661	0.4318
T-2 Cuckoo	1590.0	795.0	24x0.1820	7x0.1213	1.4104	1.2486	1.092 x 2.184	1.788	0.0107	0.0116	0.0137	1430	0.0575	0.0656	0.4297
T-2 Condor	1590.0	795.0	54x0.1213	7x0.1213	1.4098	1.2481	1.092 x 2.184	1.788	0.0107	0.0117	0.0145	1385	0.0577	0.0655	0.4297
T-2 Drake	1590.0	795.0	26x0.1749	7x0.1360	1.4525	1.2492	1.107 x 2.215	1.813	0.0107	0.0115	0.0136	1440	0.0586	0.0652	0.4275
T-2 Mallard	1590.0	795.0	30x0.1628	19x0.0977	1.5340	1.2491	1.140 x 2.279	1.865	0.0106	0.0114	0.0134	1460	0.0608	0.0643	0.4230

(1) Code words shown denote ACSR/T-2 with Class A Galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

(3) Based on the given conductor temperature at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(4) Values for inductive reactance and capacitive reactance are expressed in terms of 1 ft radius.



General Cable

TransPowr® ACSR/T-2® Bare Overhead Conductor

Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded Twisted Pair

ACSR/T-2 CONCENTRIC-LAY-STRANDED (MECHANICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	COMPONENT			OUTER AREA SQ. INCHES		OVERALL DIMENSIONS INCHES	EQUIV. DIA. INCHES	NOMINAL MASS (2) LB/1000 FT		RATED STRENGTH LBS	STANDARD PACKAGES (3)		
		AWG or kcmil	STRANDING NO. X DIA INCHES						TOTAL	AL.		REEL DESIGNATION	WEIGHT POUNDS	LENGTH FEET
			AL.	STEEL	TOTAL	AL.								
T-2 Surfbird	1749.0	874.5	20x0.2091	7x0.0929	1.4683	1.3734	1.115 x 2.230	1.826	1969	1648	47600	RMT 90.45	3570	3630
T-2 Turnstone	1800.0	900.0	20x0.2121	7x0.0943	1.5113	1.4135	1.131 x 2.263	1.852	2026	1696	48200	RMT 90.45 RMT 68.38	3695 1850	3650 1825
T-2 Ruddy	1800.0	900.0	45x0.1414	7x0.0943	1.5113	1.4135	1.131 x 2.263	1.852	2026	1696	48800	RMT 90.45 RMT 84.36 NR 60.28 NR 60.28	3695 2460 1230 820	3650 2430 1215 810
T-2 Canary	1800.0	900.0	54x0.1291	7x0.1291	1.5970	1.4137	1.162 x 2.324	1.902	2316	1696	63800	RMT 90.45 RMT 68.38	4100 2050	3540 1770
T-2 Catbird	1908.0	954.0	36x0.1628	1x0.1628	1.5404	1.4988	1.140 x 2.279	1.865	1929	1788	39600	RMT 90.45 RMT 68.38	3520 1760	3650 1825
T-2 Phoenix	1908.0	954.0	42x0.1507	7x0.0837	1.5752	1.4981	1.155 x 2.311	1.891	2058	1798	46800	RMT 90.45 RMT 68.38	3635 1815	3530 1765
T-2 Corncrake	1908.0	954.0	20x0.2184	7x0.0971	1.6024	1.4987	1.165 x 2.330	1.907	2148	1798	51200	RMT 90.45 RMT 68.38	3790 1895	3530 1765
T-2 Rail	1908.0	954.0	45x0.1456	7x0.0971	1.6024	1.4987	1.165 x 2.330	1.907	2148	1798	51800	RMT 90.45 RMT 84.36 NR 60.28	3805 2535 1270	3540 2360 1180
T-2 Towhee	1908.0	954.0	48x0.1410	7x0.1097	1.6315	1.4992	1.175 x 2.350	1.923	2245	1798	57000	RMT 90.45 RMT 84.45 NR 66.28	3985 2660 1330	3550 2370 1185
T-2 Redbird	1908.0	954.0	24x0.1994	7x0.1329	1.6930	1.4987	1.196 x 2.392	1.958	2455	1798	67000	RMT 90.45 RMT 68.38	3720 1860	3030 1515
T-2 Cardinal	1908.0	954.0	54x0.1329	7x0.1329	1.6924	1.4982	1.196 x 2.392	1.958	2455	1798	67600	RMT 90.45 RMT 68.38	3720 1860	3030 1515
T-2 Canvasback	1908.0	954.0	30x0.1783	19x0.1070	1.8400	1.4983	1.248 x 2.497	2.043	2961	1802	92200	RMT 90.45 RMT 84.36 NR 60.28	4350 2900 1450	2940 1960 980
T-2 Snowbird	2067.0	1033.5	42x0.1568	7x0.0872	1.7062	1.6226	1.203 x 2.405	1.969	2230	1946	50600	RMT 90.45 RMT 68.38	3380 1690	3030 1515
T-2 Ortolan	2067.0	1033.5	45x0.1516	7x0.1010	1.7363	1.6241	1.212 x 2.425	1.985	2327	1946	55400	RMT 90.45 RMT 84.36 NR 60.28	3535 2360 1180	3040 2030 1015
T-2 Whooper	2067.0	1033.5	48x0.1467	7x0.1141	1.7658	1.6226	1.223 x 2.446	2.002	2432	1946	61600	RMT 90.45 RMT 84.36 NR 60.28	3705 2475 1240	3050 2035 1020
T-2 Curlew	2067.0	1033.5	54x0.1384	7x0.1383	1.8345	1.6242	1.245 x 2.490	2.038	2659	1946	73200	RMT 90.45 RMT 68.38	3905 1955	2940 1470
T-2 Avocet	2226.0	1113.0	42x0.1628	7x0.0904	1.8381	1.7482	1.248 x 2.496	2.043	2401	2096	54200	RMT 90.45 RMT 84.36 NR 60.28	3530 2355 1175	2940 1960 980
T-2 Bluejay	2226.0	1113.0	45x0.1572	7x0.1049	1.8684	1.7474	1.258 x 2.516	2.060	2506	2096	59600	RMT 90.45 RMT 84.36 NR 60.28	3700 2470 1235	2950 1970 985
T-2 Bullfinch	2226.0	1113.0	48x0.1523	7x0.1185	1.9036	1.7492	1.269 x 2.538	2.077	2619	2096	65600	RMT 90.45 RMT 84.36 NR 60.28	3880 2580 1290	2960 1970 985
T-2 Finch	2226.0	1113.0	54x0.1436	19x0.0862	1.9695	1.7477	1.292 x 2.584	2.115	2859	2106	78200	RMT 90.45 RMT 68.38	4075 2040	2850 1425

(1) Code words shown denote ACSR/T-2 with Class A Galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Due to rounding, total values may be slightly greater or slightly less than the sum of the component values.

(3) Weights shown are for conductor only and do not include the reel. Weights and lengths are nominal. Normal length and shipping tolerances apply.

TransPowr® ACSR/T-2® Bare Overhead Conductor

Aluminum Conductor Steel-Reinforced Concentric-Lay-Stranded Twisted Pair

ACSR/T-2 CONCENTRIC-LAY-STRANDED (ELECTRICAL PROPERTIES)

CODE WORD (1)	SIZE AWG OR kcmil	COMPONENT			OUTER AREA SQ. INCHES		OVERALL DIMENSIONS INCHES	EQUIV. DIA. INCHES	RESISTANCE (2) OHMS/1000 FT			AMPACITY 75°C (3)	GEOMETRIC MEAN RADIUS FT	INDUCTIVE REACTANCE OHM/1000 FT (4)	CAPACITIVE REACTANCE MEGAOHM 1000 FT (4)
		AWG or kcmil	STRANDING NO. X DIA INCHES						DC @ 20°C	AC @ 25°C	AC @ 75°C				
			AL.	STEEL	TOTAL	AL.									
T-2 Surfbird	1749.0	874.5	20x0.2091	7x0.0929	1.4683	1.3734	1.115 x 2.230	1.826	0.00984	0.0109	0.0127	1490	0.0582	0.0654	0.4264
T-2 Turnstone	1800.0	900.0	20x0.2121	7x0.0943	1.5113	1.4135	1.131 x 2.263	1.852	0.00956	0.0106	0.0124	1515	0.0590	0.0650	0.4241
T-2 Ruddy	1800.0	900.0	45x0.1414	7x0.0943	1.5113	1.4135	1.131 x 2.263	1.852	0.00956	0.0107	0.0131	1470	0.0593	0.0649	0.4241
T-2 Canary	1800.0	900.0	54x0.1291	7x0.1291	1.5970	1.4137	1.162 x 2.324	1.902	0.00949	0.0105	0.0129	1495	0.0614	0.0641	0.4200
T-2 Catbird	1908.0	954.0	36x0.1628	1x0.1628	1.5404	1.4988	1.140 x 2.279	1.865	0.00903	0.0103	0.0126	1505	0.0592	0.0650	0.4230
T-2 Phoenix	1908.0	954.0	42x0.1507	7x0.0837	1.5752	1.4981	1.155 x 2.311	1.891	0.00904	0.0102	0.0125	1515	0.0604	0.0645	0.4208
T-2 Corncrake	1908.0	954.0	20x0.2184	7x0.0971	1.6024	1.4987	1.165 x 2.330	1.907	0.00902	0.0101	0.0118	1565	0.0607	0.0644	0.4196
T-2 Rail	1908.0	954.0	45x0.1456	7x0.0971	1.6024	1.4987	1.165 x 2.330	1.907	0.00902	0.0101	0.0124	1525	0.0611	0.0643	0.4196
T-2 Towhee	1908.0	954.0	48x0.1410	7x0.1097	1.6315	1.4992	1.175 x 2.350	1.923	0.00900	0.0101	0.0124	1530	0.0618	0.0640	0.4182
T-2 Redbird	1908.0	954.0	24x0.1994	7x0.1329	1.6930	1.4987	1.196 x 2.392	1.958	0.00895	0.00988	0.0116	1590	0.0630	0.0635	0.4154
T-2 Cardinal	1908.0	954.0	54x0.1329	7x0.1329	1.6924	1.4982	1.196 x 2.392	1.958	0.00895	0.00995	0.0122	1545	0.0633	0.0634	0.4154
T-2 Canvasback	1908.0	954.0	30x0.1783	19x0.1070	1.8400	1.4983	1.248 x 2.497	2.043	0.00886	0.00965	0.0113	1625	0.0666	0.0623	0.4087
T-2 Snowbird	2067.0	1033.5	42x0.1568	7x0.0872	1.7062	1.6226	1.203 x 2.405	1.969	0.00835	0.00956	0.0116	1585	0.0628	0.0636	0.4146
T-2 Ortolan	2067.0	1033.5	45x0.1516	7x0.1010	1.7363	1.6241	1.212 x 2.425	1.985	0.00833	0.00949	0.0116	1595	0.0636	0.0633	0.4133
T-2 Whooper	2067.0	1033.5	48x0.1467	7x0.1141	1.7658	1.6226	1.223 x 2.446	2.002	0.00831	0.00943	0.0115	1605	0.0643	0.0631	0.4120
T-2 Curlew	2067.0	1033.5	54x0.1384	7x0.1383	1.8345	1.6242	1.245 x 2.490	2.038	0.00826	0.00930	0.0114	1620	0.0658	0.0625	0.4091
T-2 Avocet	2226.0	1113.0	42x0.1628	7x0.0904	1.8381	1.7482	1.248 x 2.496	2.043	0.00775	0.00901	0.0109	1655	0.0652	0.0627	0.4088
T-2 Bluejay	2226.0	1113.0	45x0.1572	7x0.1049	1.8684	1.7474	1.258 x 2.516	2.060	0.00773	0.00894	0.0109	1665	0.0659	0.0625	0.4075
T-2 Bullfinch	2226.0	1113.0	48x0.1523	7x0.1185	1.9036	1.7492	1.269 x 2.538	2.077	0.00771	0.00887	0.0108	1675	0.0667	0.0622	0.4061
T-2 Finch	2226.0	1113.0	54x0.1436	19x0.0862	1.9695	1.7477	1.292 x 2.584	2.115	0.00771	0.00878	0.0107	1690	0.0683	0.0617	0.4033

(1) Code words shown denote ACSR/T-2 with Class A Galvanized steel core (GA2). See the Options section to find the appropriate code word modifier designation for alternative design options.

(2) Based on a conductivity of 61.2% (minimum lot average) IACS at 20°C for aluminum and 8% IACS at 20°C for the steel core. AC resistance for single-layer and three-layer designs approximates the effects of core magnetization. To convert to ohms/mile, multiply by 5.28. To convert to ohms/km, multiply by 3.281.

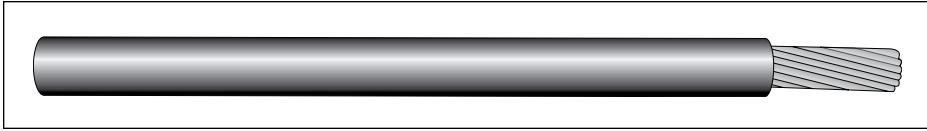
(3) Based on the given conductor temperature at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(4) Values for inductive reactance and capacitive reactance are expressed in terms of 1 ft radius.

Notes

Weatherproof Line Wire Overhead Conductor

Aluminum Conductor LLDPE or XLPE Covering



Product Construction:

Complete Conductor:

Weatherproof line wire consists of one aluminum conductor covered with polyethylene. Weatherproof line wire meets the requirements of ICEA S-70-547. Conductors meet ASTM Specifications B231 and B232 as applicable.

Conductor:

Solid, Class A or Class AA concentric-lay-stranded aluminum alloy 1350-H19 or ACSR conductor. The direction of the lay of the outer layer of stranded wires is right-hand.

Covering:

Either black Linear Low-Density Polyethylene (LLDPE) or black extruded Cross-Linked Polyethylene (XLPE) covers the wire for weatherproofing purposes only. There is no voltage rating assigned.

Features and Benefits:

The covering provides mechanical protection to the conductor and is resistant to weathering, abrasion, tearing, cutting and chemicals. If conductors accidentally come into contact due to high winds, falling tree limbs or other disturbances, the covering resists short circuits and the tendency of conductors to weld together.

Applications:

Weatherproof line wire is used for overhead transmission and distribution lines. Covered line wire is not an electrically insulated cable. Therefore, it should be installed on insulators, and users should treat line wire as bare conductor for personal safety.

For other conductor sizes, designs and/or specific installation requirements not shown in the tables, contact your General Cable sales representative or e-mail info@generalcable.com.

Weatherproof Line Wire Overhead Conductor

Aluminum Conductor LLDPE or XLPE Covering

ALUMINUM 1350 CONDUCTORS

CODE WORD (1)	SIZE AWG OR kcmil	NO. OF WIRES	COVER THKN. INCHES	APPROX. CABLE O.D.	NOMINAL MASS LB/1000 FT			RATED STRENGTH LBS	AMPACITY		PACKAGING (4)	
					AL.	TOTAL			PE (2)	XLPE (3)	TYPE & SIZE	LENGTH FT
						LLDPE	XLPE					
Apple	6	1	0.030	0.224	24.6	33.4	33.4	440	105	120	NR 30.18 COIL	12300 4000
Plum	6	7	0.030	0.245	24.6	34.6	34.6	505	105	120	NR 30.18 COIL	10100 4000
Pear	4	1	0.030	0.266	39.1	50.3	50.3	710	140	160	NR 30.18 COIL	8600 2400
Apricot	4	7	0.030	0.293	39.1	52.0	52.0	795	140	160	NR 30.18 COIL	7000 250
Cherry	2	1	0.045	0.350	62.2	83.2	83.2	1105	185	210	NR 30.18 COIL	5000 2000
Peach	2	7	0.045	0.384	62.2	86.1	86.1	1215	185	210	NR 32.24 COIL	7500 1500
Nectarine	1	7	0.045	0.420	78.4	105.5	105.5	1475	200	230	NR 32.24 COIL	6000 1200
Quince	1/0	7	0.060	0.491	99.0	135.5	135.5	1790	245	280	NR 32.24 COIL	4700 1000
Orange	2/0	7	0.060	0.537	124.8	165.6	165.6	2260	290	335	NR 32.24	3800
Fig	3/0	7	0.060	0.587	157.3	203.1	203.1	2735	325	375	NR 40.24	4400
Olive	4/0	7	0.060	0.645	198.3	249.3	249.3	3445	375	430	NR 40.24	3500
Mulberry	266.8	19	0.060	0.715	250	307	307	4475	430	500	NR 40.24	3000
Silverbelt	266.8	19	0.080	0.756	250	326	326	4475	430	500	NR 40.24	3000
Anona	336.4	19	0.060	0.788	315	379	379	5535	500	580	NR 40.24	2500
Crabapple	336.4	19	0.080	0.829	315	400	400	5535	495	575	NR 40.24	2500
Chinquapin	350.0	19	0.060	0.802	328	393	393	5750	510	595	NR 40.24	2500
Ginkgo	350.0	19	0.080	0.843	328	414	414	5750	510	595	NR 40.24	2400
Molles	397.5	19	0.080	0.887	373	464	464	6400	545	640	NR 40.24	2000
Ash	400.0	19	0.080	0.889	375	467	467	6440	550	640	NR 40.24	2000
Huckleberry	477.0	37	0.080	0.959	447	548	548	7820	610	715	NR 50.32	3300
Paw Paw	556.5	37	0.080	1.022	522	631	631	8950	675	790	NR 50.32	2800
Breadfruit	636.0	61	0.095	1.113	596	731	731	10200	725	850	NR 50.32	2500
Persimmon	795.0	61	0.095	1.222	745	896	896	12900	830	975	NR 50.32	2200
Grapefruit	1033.5	61	0.095	1.366	969	1142	1142	16400	890	1055	NR 50.32	1700
Mango	1590.0	61	0.110	1.679	1490	1739	1739	24300	1240	1470	NR 58.32	1700

(1) Code words shown are for LLDPE products; add the suffix "XLP" to the code word for cross-linked products. Example: Walnut/XLP.

(2) Based on a conductor temperature of 75°C at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(3) Based on a conductor temperature of 90°C at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(4) Normal length and shipping tolerances apply. Reel sizes may vary.

Weatherproof Line Wire Overhead Conductor

Aluminum Conductor LLDPE or XLPE Covering

ASCR CONDUCTORS												
CODE WORD (1)	SIZE AWG OR kcmil	NO. OF WIRES	COVER THKN. INCHES	APPROX. CABLE O.D.	NOMINAL MASS LB/1000 FT			RATED STRENGTH LBS	AMPACITY		PACKAGING (4)	
					AL	LLDPE	XLPE		PE (2)	XLPE (3)	TYPE & SIZE	LENGTH FT
Walnut	6	6/1	0.030	0.260	24.5	46.9	46.9	1130	105	120	NR 27.18 COIL	8800 2700
Butternut	4	6/1	0.030	0.312	38.9	71.3	71.3	1765	140	160	NR 30.18 COIL	6200 2200
Hickory	4	7/1	0.030	0.319	38.9	81.4	81.4	2240	140	160	NR 30.18 COIL	6000 2000
Pignut	2	6/1	0.045	0.408	61.9	117.2	117.2	2710	180	210	NR 32.24 COIL	6700 1200
Almond	1/0	6/1	0.060	0.521	98.5	184.5	184.5	4160	235	275	NR 32.24 COIL	4000 1000
Pecan	2/0	6/1	0.060	0.570	124.1	226.9	226.9	5035	270	315	NR 36.24	3400
Filbert	3/0	6/1	0.060	0.625	156.5	280.1	280.1	6290	335	385	NR 40.24	3900
Buckeye	4/0	6/1	0.060	0.686	197.4	346.5	346.5	7935	370	440	NR 40.24	3000
Hackberry	266.8	18/1	0.060	0.732	250	347	347	6540	435	505	NR 40.24	2600
Redbud	266.8	18/1	0.080	0.773	250	367	367	6540	435	505	NR 40.24	2600
Mockernut	336.4	18/1	0.060	0.807	315	430	430	8245	505	585	NR 40.24	2500
Aspen	336.4	18/1	0.080	0.848	315	452	452	8245	500	580	NR 40.24	2400

(1) Code words shown are for LLDPE products; add the suffix "XLP" to the code word for cross-linked products. Example: Walnut/XLP.

(2) Based on a conductor temperature of 75°C at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(3) Based on a conductor temperature of 90°C at 60 Hz and the following conditions: 25°C ambient temperature, 2 ft/sec crosswind (90° to conductor), 0.5 coefficient of emissivity, 0.5 coefficient of absorptivity, 30° northern latitude, sea level elevation, 90° azimuth of line (East-West), clear atmosphere, and a date and time of noon on July 1 (resulting in 96.0 W/ft² of solar and sky radiated heat). Actual ampacity will differ based on local conditions. For specific ampacities, please contact your General Cable sales representative.

(4) Normal length and shipping tolerances apply. Reel sizes may vary.

Aluminum Tie Wire

Soft Solid 1350 Aluminum Wire

Product Construction:

Description:

Aluminum tie wire is a soft solid aluminum wire that is used in overhead transmission and distribution line construction to mechanically secure components such as conductors to pin insulators. The wire is also used for above-ground grounding applications in line construction.

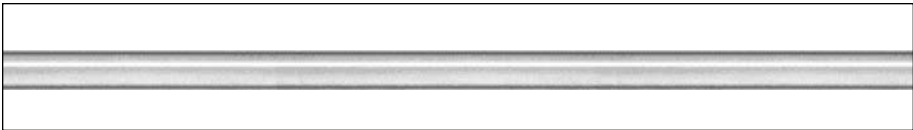
Aluminum tie wire is a solid annealed (soft) aluminum wire manufactured to ASTM B609 “O” tensile grade and wire diameter dimension.

Options:

Tie Wire may be supplied with a black weather-resistant covering. The nominal thickness of this extruded covering is 30 mils.

Packaging:

Aluminum tie wire is sold in coils.



SIZE AWG	DIAMETER OF SOLID WIRE INCHES	NOMINAL MASS LB/1000 FT	NOMINAL BREAKING STRENGTH LBS (1)
6	0.162	24.1	175
4	0.204	38.4	280
2	0.258	61.0	440

(1) Based on a annealed aluminum having a minimum tensile strength of 8500 psi.

BICC® Brand Stock Program

5

General Cable BICC® Brand Electric Utility Stock Program

As a service to our customers, General Cable maintains an inventory of factory stock for frequently purchased items of bare overhead distribution, low-voltage overhead and underground service cable and medium-voltage cable products. These products are manufactured to industry-standard specifications and are available for immediate shipment from our manufacturing facilities across North America.

Terms and Conditions of Sale for Stock Products

Standards:

- Medium-voltage aluminum URD stock is manufactured and tested in accordance with the latest revisions of ANSI/ICEA S-94-649 standard for concentric neutral cables rated 5–46kV and also meets the requirements of the latest revision of the AEIC CS8 specification. The insulation system utilized in our medium-voltage aluminum URD stock is accepted by RUS for specification U-1.
- Low-voltage insulated and bare aluminum stock products are manufactured and tested in accordance with the latest revisions of ASTM and ICEA standards.
- Weights and dimensions shown are nominal and subject to standard industry tolerances.

Order Acceptance:

- All stock orders subject to prior sale.
- Minimum order value is \$1,000.00.
- Order acceptance period is 15 days.

Pricing Policy:

- Firm prices are available for items confirmed in-stock for immediate buy and ship.
- Adjustable prices are available and subject to metals escalation/de-escalation at the time of shipment.
- Backorders or delayed shipments may be subject to price adjustment.
- Stock prices and terms of sale are subject to change without notice.
- Coils are sold in full-pallet quantities.

Shipping Method:

- Shipments will be made via common carrier. Special instructions must be stated at the time of order. Flatbed shipments (truckload quantities only) are subject to availability and extra freight charges, depending upon geographic destinations.
- Freight charges for greater than 5,000 lbs. net weight will be prepaid and allowed.

Inventory Holds:

- No inventory holds will be accepted.
- Stock shall be subject to prior sale.

PowrServ® Low-Voltage Power Cable Stock

OH Service Drop Cable Neutral-Supported 600 V

POWRSERV® OH SERVICE DROP CABLE–XLPE INSULATION–600 VOLTS

CODE WORD (1)	PHASE CONDUCTOR			BARE NEUTRAL			EFF. O.D. INCHES	NOMINAL WEIGHT LB/1000 FT		PACKAGING (3)		PART NUMBER
	SIZE AWG	NO. OF WIRES	INS. THKN. INCHES	SIZE AWG OR kcmil	NO. OF WIRES	RATED STRG. LBS (2)		AL.	TOTAL	NO. COILS/ PALLET SIZE OR REEL SIZE	LENGTH FT	

DUPLEX 600 V AL CONDUCTOR XLPE INSULATION–ACSR FULL-SIZE NEUTRAL MESSENGER

Shepherd/XLP	6	7	0.045	6	6/1	1190	0.475	49	77	CL 12/30X60 CL 12/30X60 NR 30.18.10	500 1000 3300	467670 789984 410155
Terrier/XLP	4	7	0.045	4	6/1	1860	0.573	78	117	CL 12/30X60	500	413856

TRIPLEX 600 V AL CONDUCTOR XLPE INSULATION–ACSR FULL-SIZE NEUTRAL MESSENGER

Voluta/XLP	6	7	0.045	6	6/1	1190	0.550	74	118	CL 12/30X60 NR 30.18.10	500 2200	955389 906146
Periwinkle/XLP	4	7	0.045	4	6/1	1860	0.649	117	176	CL 12/30X60 NR 30.18.10 NR 32.24.12	500 1500 1800	646156 523531 803846
Conch/XLP	2	7	0.045	2	6/1	2850	0.774	186	267	CL 10/30X60 NR 36.24.14	500 1800	573699 750887
Neritina/XLP	1/0	7	0.060	1/0	6/1	4380	0.985	296	428	CL 10/30X60 CL 4/42X42 NR 36.24.14	250 500 1200	686625 641805 869460
Runcina/XLP	2/0	7	0.060	2/0	6/1	5300	1.075	374	528	NR 42.26.14	1500	656882
Zuzara/XLP	4/0	19	0.060	4/0	6/1	8350	1.139	594	794	NR 42.26.14	1000	292357

TRIPLEX 600 V AL CONDUCTOR XLPE INSULATION–ACSR REDUCED-SIZE MESSENGER

Cockle/XLP	2	7	0.045	4	6/1	1860	0.763	163	233	CL 10/30X60 NR 32.24.12	500 1800	605891 608816
Janthina/XLP	1/0	7	0.060	2	6/1	2850	0.970	260	374	CL 5/36X36 NR 36.24.14	500 1200	228042 815497
Cerapus/XLP	4/0	19	0.060	2/0	6/1	5300	1.230	522	677	NR 40.24.14	1000	606730

TRIPLEX 600 V AL CONDUCTOR XLPE INSULATION–6201-T81 FULL-SIZE NEUTRAL MESSENGER

Barnacles/XLP	4	7	0.045	48.69	7	1760	0.650	124	164	NR 30.18.10	500	725589
Shrimp/XLP	2	7	0.045	77.47	7	2800	0.770	197	248	NR 32.24.12	1800	304770
Gammarus/XLP	1/0	7	0.060	123.3	7	4280	0.980	313	398	NR 36.24.14	1200	471541

QUADRUPLIX 600 V AL CONDUCTOR XLPE INSULATION–ACSR FULL-SIZE MESSENGER

Palomino/XLP	2	7	0.045	2	6/1	2850	0.885	249	355	CL 5/42X42 NR 40.24.14	500 1800	708477 691057
Costena/XLP	1/0	19	0.060	1/0	6/1	4380	1.136	396	557	NR 42.26.14	1200	577196
Appaloosa/XLP	4/0	19	0.060	4/0	6/1	8350	1.498	792	1045	NR 50.32.21	1100	812366

(1) ACSR messenger has Class A galvanized core.

(2) Rated strengths shown are applicable to GA2 cores.

(3) Weights shown are for cable only. All weights and lengths are nominal. Normal length and shipping tolerances apply.

Standard Surface Identification of Stocked Overhead Service Drop Cable

Duplexed:		Standard OH print legend (4)
1/C Insulated	No ribs	
1/C Bare Messenger		
Triplexed:		Standard OH print legend (4)
1/C Insulated	No ribs	
1/C Insulated	No ribs	Standard OH print legend (4)
1/C Bare Messenger		
Quadruplexed:		No print legend
1/C Insulated	One rib	
1/C Insulated	Two ribs	No print legend
1/C Insulated	No ribs	Standard OH print legend (4)
1/C Bare Messenger		

(4) The standard OH print legend contains the following information: "BICC® BRAND"-Plant ID_Conductor Size_Conductor Type_Insulation Type_"600 V"_Year.

PowerServ® Low-Voltage Power Cable Stock

Underground Distribution Cable Type USE-2 600 V

POWRSERV® XL UNDERGROUND DISTRIBUTION CABLE–XLPE INSULATION–600 VOLTS

CODE WORD	PHASE CONDUCTORS			NEUTRAL CONDUCTOR			EFFECTIVE O.D. INCHES	NOMINAL WEIGHT (1) LB/1000 FT		PACKAGING (2)	PART NUMBER
	SIZE AWG OR kcmil	NO. OF WIRES	INS. THICKNESS INCHES	SIZE AWG OR kcmil	NO. OF WIRES	INS. THICKNESS INCHES		AL.	TOTAL	1000 FT REEL	

DUPLEX 600 V AL CONDUCTOR XLPE INSULATION UL LISTED

Clafin/XLP/EYS	6	7	0.060	6	7	0.060	0.61	49	91	NR 24.18.10	914966
Delgado/XLP/EYS	4	7	0.060	4	7	0.060	0.70	78	129	NR 24.18.10	600124

TRIPLEX 600 V AL CONDUCTOR XLPE INSULATION UL LISTED

Erskine/XLP/EYS	6	7	0.060	6	7	0.060	0.65	74	139	NR 27.18.10	198339
Vassar/XLP/EYS	4	7	0.080	4	7	0.060	0.75	118	197	NR 30.18.10	178257
Stephens/XLP/EYS	2	7	0.060	4	7	0.060	0.84	164	256	NR 32.24.12	228095
Ramapo/XLP/EYS	2	7	0.060	2	7	0.060	0.88	187	286	NR 32.24.12	263582
Brenau/XLP/EYS	1/0	19	0.080	2	7	0.060	1.06	261	395	NR 36.24.12	954346
Bergen/XLP/EYS	1/0	19	0.080	1/0	19	0.080	1.14	298	451	NR 40.24.14	535682
Converse/XLP/EYS	2/0	19	0.080	1	19	0.080	1.18	329	487	NR 40.24.14	011165
Sweetbriar/XLP/EYS	4/0	19	0.080	2/0	19	0.080	1.38	523	718	NR 42.26.14	395269
Monmouth/XLP/EYS	4/0	19	0.080	4/0	19	0.080	1.46	597	805	NR 45.28.18	344606
Wesleyan/XLP/EYS	350	37	0.095	4/0	19	0.080	1.72	857	1136	NR 50.32.21	541366

QUADRUPLIX 600 V AL CONDUCTOR XLPE INSULATION UL LISTED

Dyke/XLP/EYS	2	7	0.060	4	7	0.060	0.96	227	355	NR 32.24.12	870398
Wittenberg/XLP/EYS	2	7	0.060	2	7	0.060	1.00	250	385	NR 45.28.18	664028
Notre Dame/XLP/EYS	1/0	19	0.080	2	7	0.060	1.22	361	550	NR 42.26.14	011171
Wake Forest/XLP/EYS	4/0	19	0.080	2/0	19	0.080	1.58	722	993	NR 50.32.21	825425
Slippery Rock/XLP/EYS	350	37	0.095	4/0	19	0.080	1.98	1188	1582	NR 58.32.24	183981

TRIPLEX 600 V AL (8000) CONDUCTOR XLPE INSULATION UL LISTED

Brenau-8000	1/0	19	0.080	2	7	0.060	1.04	261	384	NR 36.24.14	637972
Sweetbriar-8000	4/0	19	0.080	2/0	19	0.080	1.36	523	702	NR 42.26.14	370997
Monmouth-8000	4/0	19	0.080	4/0	19	0.080	1.42	597	789	NR 45.28.18	321128
Pratt-8000	250	37	0.095	3/0	19	0.080	1.53	628	852	NR 45.28.18	281446
Wesleyan-8000	350	37	0.095	4/0	19	0.080	1.69	858	1111	NR 50.32.21	124261

TRIPLEX 600 V AL CONDUCTOR XLPE INSULATION HDXLPE JACKET UL LISTED

Brenau/XLP/EYS-AR	1/0	19	40/40	2	7	30/30	1.07	261	406	NR 36.24.14	011178
Converse/XLP/EYS-AR	2/0	19	40/40	1	19	40/40	1.19	329	499	NR 40.24.14	222083
Sweetbriar/XLP/EYS-AR	4/0	19	40/40	2/0	19	40/40	1.39	523	732	NR 42.26.14	011180
Wesleyan/XLP/EYS-AR	350	37	40/50	4/0	19	40/40	1.73	857	1155	NR 50.32.21	503904

(1) Weights shown are for cable only. All weights and lengths are nominal. Normal length and shipping tolerances apply.

(2) Reel sizes may vary.

Standard Surface Identification of Stocked Underground Service Entrance Cable (6)

Duplexed:		Print seq. footage No seq. footage	Standard UG print legend (5) Standard UG print legend
1/C Insulated	No Phase ID		
1/C Insulated Neutral	EYS (3)		
Triplexed:		Print seq. footage No seq. footage No seq. footage	Standard UG print legend (5) Standard UG print legend Standard UG print legend
1/C Insulated	No Phase ID		
1/C Insulated	No Phase ID		
1/C Insulated Neutral	EYS (3)		
Quadruplexed:		Print seq. footage No seq. footage No seq. footage No seq. footage	Standard UG print legend (5) Standard UG print legend Standard UG print legend Standard UG print legend
1/C Insulated	Print "Phase A" (4)		
1/C Insulated	No Phase ID		
1/C Insulated	No Phase ID		
1/C Insulated Neutral	EYS (3)		

(3) EYS = Three extruded yellow stripes located 120 degrees apart.

(4) The presence of the print, "Phase A," gives a means to identify phases by simply counting the conductors, clockwise or counter clockwise, from the cable marked as "Phase A."

(5) The standard UG print legend contains the following information:
"BICC® BRAND"-Plant ID_Conductor Size_Conductor Type_Insulation Type_"600 V"-Type Use-2 (UL)"_Year.

(6) Print legend would include the word "Ruggedized" after the year for abuse resistant cables.

EmPowr® Medium-Voltage Power Cable Stock

Underground Distribution Cable—Concentric Neutral 5-46 kV

EMPOWR® MEDIUM-VOLTAGE POWER CABLE STOCK AL CONDUCTOR TRXLPE CONCENTRIC INSULATION NEUTRAL LLDPE JACKET

AL. COND. (1)		CU. NEUTRAL		DIAMETER (2) INCHES			NOMINAL JACKET THKN. INCHES (2)	APPROXIMATE WEIGHT (2) LB/1000 FT		
AWG OR kcmil	NO. OF WIRES	# WIRES NEU.	WIRE SIZE AWG	INS. MIN	INS. MAX	ENCAP JACKET		AL. COND.	CU. NEUT. WIRES	TOTAL
15 kV-175mils Nominal – Full Neutral										
2	7	10	14	0.635	0.720	0.965	0.055	62	133	464
1/0	19	16	14	0.715	0.800	1.044	0.055	99	209	610
1/0	1	16	14	0.680	0.760	1.007	0.055	97	209	584
4/0	19	20	12	0.865	0.950	1.228	0.055	199	423	990
15 kV-220mils Nominal – Full Neutral										
2	7	10	14	0.725	0.815	1.067	0.055	62	133	552
1/0	1	16	14	0.770	0.855	1.109	0.055	97	213	669
1/0	19	16	14	0.805	0.895	1.146	0.055	99	213	697
4/0	19	20	12	0.955	1.045	1.318	0.055	199	430	1071
15 kV-220mils Nominal – Reduced (1/3) Neutral										
1/0	19	6	14	0.805	0.895	1.134	0.055	99	79	550
4/0	19	11	14	0.955	1.045	1.296	0.055	199	147	819
350	37	18	14	1.115	1.200	1.463	0.055	329	240	1111
500	37	16	12	1.240	1.330	1.625	0.055	468	338	1444
750	61	24	12	1.430	1.520	1.862	0.080	703	508	1998
25 kV-260mils Nominal – Full Neutral										
1	1	13	14				0.055			
1/0	1	16	14	0.840	0.930	1.189	0.055	97	213	735
1/0	19	16	14	0.875	0.965	1.226	0.055	99	213	760
4/0	19	20	12	1.025	1.115	1.418	0.055	199	432	1162
25 kV-260mils Nominal – Reduced (1/3) Neutral										
1/0	19	6	14	0.875	0.965	1.214	0.055	99	82	611
750	61	24	12	1.500	1.595	1.942	0.080	703	518	2105
1000	61	20	10	1.645	1.740	2.163	0.080	936	686	2693

EMPOWR® FILL MEDIUM-VOLTAGE POWER CABLE STOCK AL CONDUCTOR EPR INSULATION CONCENTRIC NEUTRAL LLDPE JACKET

AL. COND. (1)		CU. NEUTRAL		DIAMETER (2) INCHES			NOMINAL JACKET THKN. INCHES (2)	APPROXIMATE WEIGHT (2) LB/1000 FT		
AWG OR kcmil	NO. OF WIRES	# WIRES NEU.	WIRE SIZE AWG	INS. MIN	INS. MAX	ENCAP JACKET		AL. COND.	CU. NEUT. WIRES	TOTAL
15 kV-220mils Nominal – Full Neutral										
1/0	1	16	14	0.770	0.855	1.109	0.055	97	213	719
1/0	19	16	14	0.805	0.895	1.146	0.055	99	213	750
15 kV-220mils Nominal – Reduced (1/3) Neutral										
1/0	19	6	14	0.805	0.895	1.134	0.055	99	80	596
4/0	19	11	14	0.955	1.045	1.296	0.055	199	147	885
350	37	18	14	1.115	1.200	1.463	0.055	329	245	1185
500	37	16	12	1.240	1.330	1.625	0.080	468	339	1523
750	61	24	12	1.430	1.520	1.862	0.080	703	518	2100
1000	61	20	10	1.575	1.670	2.083	0.080	937	673	2678
25 kV-260mils Nominal – Full Neutral										
1/0	1	16	14	0.840	0.930	1.177	0.055	97	218	762
1/0	19	16	14	0.875	0.965	1.214	0.055	99	214	788
4/0	19	20	12				0.055	198	415	
25 kV-260mils Nominal – Reduced (1/3) Neutral										
1/0	19	6	14	0.875	0.965	1.214	0.055	99	82	670
4/0	19	11	14	1.025	1.115	1.384	0.055	199	147	949
1000	61	20	10	1.645	1.740	2.163	0.080	937	686	2821

(1) All stranded conductors are STRANDFILL®.

(2) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/CEA S-94-649 and also meet the requirements of the latest revisions of AIEC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances. Normal length and shipping tolerances apply.

Note: Material is stocked on master length reels that can be cut-to-length upon customer request.



TransPowr® Overhead Conductor Stock

Bare AAC, ACSR & ACSR/T-2® Conductors

TRANSPOWR® AAC BARE OVERHEAD CONDUCTOR

CODE WORD (1)	SIZE AWG OR kcmil	STRAND	O.D. INCHES	NOMINAL WEIGHT LB/1000 FT			RATED STRENGTH LB (2)	STANDARD PACKAGES (3)			PART NUMBER
								NO. COILS/ PALLET SIZE OR REEL SIZE	PRODUCT		
				TOTAL	AL.	STEEL			WEIGHT POUNDS	LENGTH FEET	

ALL-ALUMINUM 1350 CONDUCTOR CONCENTRIC-LAY-STRANDED

Arbutus	795.0	37	1.026	745.3	745.3	N/A	13,900	NR 66.28.30	3695	4960	900024
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TRANSPOWR® ACSR BARE OVERHEAD CONDUCTOR

CODE WORD (1)	SIZE AWG OR kcmil	STRAND	O.D. INCHES	NOMINAL WEIGHT LB/1000 FT			RATED STRENGTH LB (2)	STANDARD PACKAGES (3)			PART NUMBER
								PRODUCT			
				TOTAL	AL.	STEEL		NO. COILS/ PALLET SIZE OR REEL SIZE	WEIGHT POUNDS	LENGTH FEET	

ALUMINUM CONDUCTOR STEEL-REINFORCED CONCENTRIC-LAY-STRANDED

Swan	4	6/1	0.250	57.5	39.0	18.5	1860	NR 36.22.16	885	15420	902002
Swanate	4	7/1	0.257	67.0	38.9	28.1	3640	NR 30.22.16	600	8955	902009
								CL 16/60X60	240	3580	902007
Sparrow	2	6/1	0.316	91.2	61.9	29.3	2850	NR 42.28.19	1770	19390	902017
								NR 36.22.16	885	9695	902018
								NR 30.22.16	590	6465	902019
								CL 16/60X60	220	2410	902016
Sparate	2	7/1	0.325	106.6	61.9	44.7	3650	NR 38.22.18	1200	11250	902029
								NR 30.22.16	600	5625	902030
Raven	1/0	6/1	0.398	145.2	98.6	46.6	4380	NR 42.28.19	1770	12190	902034
								NR 36.22.16	885	6095	902035
Quail	2/0	6/1	0.447	182.8	124.1	58.7	5300	NR 42.28.19	1770	9670	902041
								NR 36.22.16	885	4835	902042
Pigeon	3/0	6/1	0.502	230.5	156.4	74.1	6620	NR 42.28.19	1770	7670	902045
								NR 36.22.16	885	3835	902046
Penguin	4/0	6/1	0.563	290.8	197.4	93.4	8350	NR 42.28.19	1770	6080	902049
								NR 36.22.16	885	3040	902050
Merlin	336.4	18/1	0.684	364.0	315.0	49.0	8700	NR 48.28.24	2080	5695	902057
Linnet	336.4	26/7	0.720	462.0	317.0	145.0	14100	NR 60.28.28	3795	8195	902063
Pelican	477.0	18/1	0.814	517.0	447.0	70.0	11800	NR 48.28.24	2075	4015	902067
Hawk	477.0	26/7	0.858	655.0	449.0	206.0	19500	NR 60.28.28	3795	5780	902069
Drake	795.0	26/7	1.108	1093.0	749.0	344.0	31500	RMT 90.45.42	11365	10400	348281

TRANSPOWR® ACSR/T-2® BARE OVERHEAD CONDUCTOR

CODE WORD (1)	EQUIV. AWG OR kcmil	COMPONENT CONDUCTOR		EQUIV. DIA. INCHES	NOMINAL WEIGHT LB/1000 FT			RATED STRG. LB (2)	STANDARD PACKAGES (3)			PART NUMBER
		AWG	STRAND.		TOTAL	AL.	STEEL		NO. COILS/ PALLET SIZE OR REEL SIZE	PRODUCT		
										WEIGHT POUNDS	LENGTH FEET	

ALUMINUM CONDUCTOR STEEL-REINFORCED CONCENTRIC-LAY-STRANDED TWISTED PAIR

T-2 Sparrow	2/0	2	6/1	0.517	182.4	123.8	58.6	5700	NR 48.28.24	1770	9695	990002
T-2 Raven	4/0	1/0	6/1	0.651	290.4	197.2	93.2	8760	NR 66.28.28	3540	12190	990005
									NR 42.28.24	1770	6095	990004
T-2 Penguin	423.2	4/0	6/1	0.922	581.6	394.8	186.8	16700	NR 66.28.30	3540	6080	990011

(1) Code words for ACSR conductors denote Class A galvanized core.

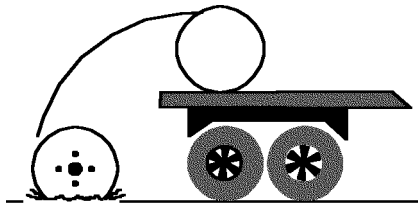
(2) Rated strengths shown are applicable to GA2 cores.

(3) Weights shown are for conductor only. All weights and lengths are nominal. Normal length and shipping tolerances apply.

Packaging Information

6

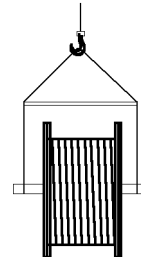
Recommended Reel Handling Procedures



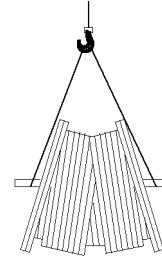
Don't

When off loading reels from a truck, lower reels carefully using a hydraulic gate, hoist or fork lift truck. Never drop reels. If reels must be rolled, roll in opposite direction of the cable wraps to keep cable from loosening on the reel.

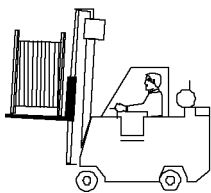
When using a hoist, install a mandrel through the reel arbor holes and attach a sling. Use a spreader bar approximately 6 inches longer than the overall reel width placed between the sling ends just above the reel flanges. This will prevent bending the reel flanges and mashing the cable.



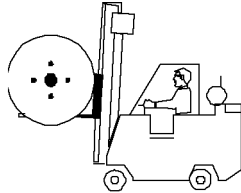
Do



Don't



Do

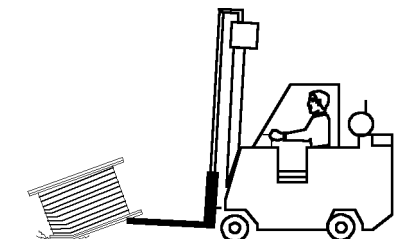


Don't

If a fork lift is used, approach the reel from the flange side. Position the forks such that the reel is lifted by both reel flanges. Do not allow the lift forks to contact the cable. Care must be taken by the fork lift operator not to make sudden turns or stops.

Cable shipped on pallets should be stored indoors if possible. Cable shipped on wooden or metal reels may be stored outdoors. When selecting a storage site, consideration should be given to:

- Traffic patterns during off-loading
- Grade and condition of the soil or pavement
- Protection from vehicle damage during the time in storage
- Environmental conditions such as exposure to heat, corrosive chemicals, etc.



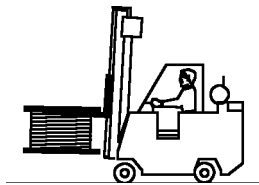
Don't

Cable reels should be stored on hard surfaces resting on the flanges edge (flanges vertical). Align reels flange to flange and, if possible, arrange so that first in is first out. Multiple reels stacked on top of each other ("Pancake" storage), or storing reels flat (flanges horizontal) is not recommended for bare conductor or medium-voltage cable. The weight of the stack can total thousands of pounds creating an enormous load on the bottom reel. Also, damage to the reel and/or cable will likely occur when the reel is flipped for transit. A concentration of stress on the reel flange may cause it to break and subsequently damage the cable.

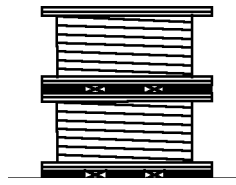
Packaging Information

Recommended Reel Handling Procedures

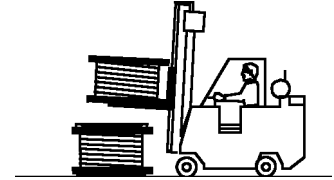
If cable reels must be pancaked or stored in vertical racks, do not lift the reel by the top flange. Spacers placed under the bottom flange and between reels (two 2x4s placed wide side up) create a space to insert the forks and lift the reel without damaging the cable. If nails are used to secure the spacers, make sure the nails do not go through the flange and into the cable.



Don't

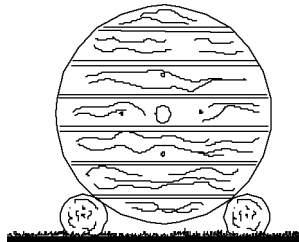


End View of Spacers



Do

For extended storage of bare or insulated cables (spare cable, etc.) reels should be stored cradled between railroad ties, power poles or crossarms. Size and spacing of the supports should raise the flange above the ground.



This helps keep the flanges from decaying and prevents the reels from rolling. At temporary storage sites where soil may be soft, preservative-treated plywood sheets may be used to keep reel flanges from sinking into the ground.

When possible, the reel wrap or lagging supplied on the reels should be replaced to help protect the cable from inadvertent damage. Under extreme environmental conditions, other measures may be necessary. To prevent entrance of water, cable ends should be sealed with plastic end caps. Electrical tape does not offer a sufficient seal. When lengths are cut, cable ends should be immediately resealed and secured.

Packaging Information

Standard Package and Shipping Information

Shipping Information –

Bare Overhead / Individual Package (Reel or Coil)

Unless otherwise agreed upon at time of quotation

- Standard or special lengths are subject to a **manufacturing length tolerance** per shipping reel of plus or minus **5%** from the specified shipping reel length.
- An amount not exceeding 10% of the total quantity of any order may be shipped in random lengths, with no one length shorter than 50% of the specified shipping reel length.
- When required, bare conductor may be furnished in **matched sets**, with the variation in the measured length within each group being no greater than 150 feet for sets of 6 or less, and 200 feet for sets of 9 and 12. In the case where a random length has been produced, the corresponding matched set group will be cut to within a 10 ft. tolerance. For **matched set reel identification**, on both flanges of the reel, a weatherproof tag is attached that has a Number/Letter identifier marked on it. The number is the numerical sequence from 1, 2, 3, 4, etc for the different sets of matched conductor reels, and the letters A, B, C, etc. identify the matched reels in each set.
- For product **shipped in coils**, 90% of an order quantity shall be furnished in exact lengths as specified in General Cable catalog pages. Exact lengths are specified as having a minus 0% tolerance. Up to 10% of an total order quantity may be supplied in random lengths with no one length shorter than 50% of the specified coil length.
- For bare overhead conductor shipped on wood or steel reels, a reel wrap covering is applied over the conductor. The default reel wrap material consists of a NEMA WC26 Level II (Weather Protector). Individual manufacturing plant preferences may utilize heavier grade level of reel wrap material.

Shipping Information –

Covered and Insulated Cable (Reel or Coil)

Unless otherwise agreed upon at time of quotation

- Standard or special lengths are subject to a manufacturing **length tolerance** per shipping reel of plus or minus **10%** from the specified shipping reel length.
- An amount not exceeding 10% of the total quantity of any order may be shipped in random lengths, with no one length shorter than 80% nor greater than 120% of the specified shipping reel length.
- For product **shipped in coils**, 90% of an order quantity shall be furnished in exact lengths as specified in General Cable catalog pages. Exact lengths are specified as having a minus 0% tolerance. Up to 10% of a total order quantity may be supplied in random lengths, with no one length shorter than 90% of the specified coil length.
- For multiplex service drop cable shipped in coils on pallets, the quantity of coils must be in full pallet load quantities.
- With the exception of cable sold from stock, in support of the Green Initiative and reducing waste, reels are shipped without a reel wrap covering.

Reeless Package

CODE WORD	MAXIMUM PACKAGE SIZE (18.5" COIL ID, 24" TRAVERSE)			MAXIMUM PACKAGE SIZE 42" MOLDED REEL*			MAXIMUM PACKAGE SIZE 48" MOLDED REEL**		
	LENGTH FEET	WEIGHT POUNDS	OUTER DIA. INCHES	LENGTH FEET	WEIGHT POUNDS	OUTER DIA. INCHES	LENGTH FEET	WEIGHT POUNDS	OUTER DIA. INCHES

PowerServ® OH Duplex Service Drop Cable Neutral-Supported 600 V AI Conductor XLPE Insulation – ACSR Full-Size Neutral Messenger

Shepherd/XLP	5500	424	30.0	14000	1078	40.0	19000	1463	45.3
Terrier/XLP	4000	468	30.2	10000	1170	39.8	14000	1638	46.0

PowerServ® OH Triplex Service Drop Cable Neutral-Supported 600 V AI Conductor XLPE Insulation – ACSR Full-Size Neutral Messenger

Periwinkle/XLP	2200	385	30.3	5300	928	39.7	7550	1321	46.0
Conch/XLP	1300	346	30.0	3300	878	39.9	4650	1237	46.0
Neritina/XLP	800	340	30.2	2000	850	40.0	2800	1190	46.0
Runcina/XLP	700	370	30.4	1700	898	40.0	2400	1267	46.0
Zuzara/XLP	500	395	30.8	1150	909	39.7	1650	1304	46.1

PowerServ® OH Triplex Service Drop Cable Neutral-Supported 600 V AI Conductor XLPE Insulation – ACSR Reduced-Size Messenger

Cockle/XLP	1500	348	30.0	3800	882	39.9	5350	1241	45.9
Janthina/XLP	900	334	29.9	2300	853	40.0	3200	1187	45.8

PowerServ® OH Quadruplex Service Drop Cable Neutral-Supported 600 V AI Conductor XLPE Insulation – ACSR Full-Size Messenger

Palomino/XLP	1300	462	35.8	2000	710	40.0	2750	976	45.7
Costena/XLP	500	279	30.6	1200	668	40.0	1650	919	45.7
Appaloosa/XLP	300	314	30.8	700	732	40.0	1000	1045	46.3

PowerServ® XL Underground Distribution Cable Type USE-2 600 V Triplex AI Conductor XLPE Insulation UL Listed

Stephens/XLP/EYS	1100	292	29.8	2850	755	40.0	4000	1060	46.0
Brenau/XLP/EYS	800	316	30.3	2000	790	40.0	2750	1086	45.9
Converse/XLP/EYS	600	292	30.3	1500	731	40.0	2000	974	45.3
Sweetbriar/XLP/EYS	400	287	29.8	1000	718	39.4	1450	1041	45.9
Monmouth/XLP/EYS	400	322	29.8	1000	805	39.4	1450	1167	45.9
Wesleyan/XLP/EYS	300	341	30.2	750	852	40.0	1050	1193	46.0

PowerServ® XL Underground Distribution Cable Type USE-2 600 V Quadruplex AI Conductor XLPE Insulation UL Listed

Notre Dame/XLP/EYS	500	275	30.8	1150	633	39.7	1650	908	46.0
Wake Forest/XLP/EYS	300	298	32.1	600	596	39.5	850	844	45.5

PowerServ® AR Underground Distribution Cable Type USE-2 600 V Triplex AI Conductor XLPE Insulation HDXLPE Jacket UL Listed

Brenau/XLP/EYS-AR	800	325	30.3	2000	812	40.3	2750	1117	45.9
Converse/XLP/EYS-AR	600	299	30.3	1500	749	40.3	2050	1023	45.8
Sweetbriar/XLP/EYS-AR	400	293	29.8	1000	732	39.4	1450	1061	45.9
Wesleyan/XLP/EYS-AR	300	347	30.2	750	866	40.1	1050	1213	46.0

* Based on molded reel having a 42" flange, 28" traverse, 17.5" drum diameter (18.5" coil diameter).

** Based on molded reel having a 48" flange, 28" traverse, 17.5" drum diameter (18.5" coil diameter).

Reeless Package

The reeless package was introduced by General Cable in 1999 as a means to help utilities with the growing concern of disposal and landfill costs. This is accomplished by supplying material without the wooden reel traditionally used for distribution of wire and cable; instead, material is supplied in a coil with exact dimensions that will allow utilities to pay off by the use of either molded plastic or tubular steel reels, reels on a turntable or turntable in conjunction with a dome. Before shipment, wire coils are protected by plastic strapping and stretch wrap. They are then loaded in a trailer in a triangular fashion or on a pallet.

The reeless package system is a cost-effective means of delivering cable products, saving in material, transportation and landfill costs. In addition, there are savings opportunities for storage costs, as the coils take up less physical space than traditional cable on reels. When used with a turntable or turntable and dome, the reeless package offers 360° payoff ability—a significant benefit when installing cable with limited set-up area.

For further information on General Cable BICC® Brand reeless packaging, please consult your local representative.

Code Word Classifications

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Application	Type	Code Word
Overhead Bare Conductor	1350 AAC	Flowers
Overhead Bare Conductor, Trapezoidal (TW)	1350 AAC/TW	Mountains
Compact Bare Conductor, Smooth Body (SB)	1350 ASC/SB	Reptiles
Overhead Bare Conductor	6201 AAAC	Cities
Overhead Bare Conductor	ACSR	Birds
Overhead Bare Conductor, Trapezoidal (TW)	ACSR/TW	Birds
Compact Bare Conductor, Smooth Body (SB)	ACSR/SB	Fish
Overhead Covered Conductor	1350 AAC	Trees
Overhead Covered Conductor	6201AAAC	Trees
Overhead Covered Conductor	ACSS	Birds
Overhead Bare Conductor, Trapezoidal (TW)	ACSS/TW	Birds
Underground Secondary Dist. 600 volt	Single	Colleges
Underground Secondary Dist. 600 volt	Duplex	Colleges
Underground Secondary Dist. 600 volt	Triplex	Colleges
Underground Secondary Dist. 600 volt	Quadruplex	Colleges
Overhead Service Cables 600 volt	Single	Lakes
Overhead Service Cables 600 volt	Duplex	Dogs
Overhead Service Cables 600 volt	Triplex	Shellfish
Overhead Service Cables 600 volt	Quadruplex	Horses
Overhead Service Cables 600 volt	Triplex RTS*	Car Models

*RTS - Reverse Twist Secondary



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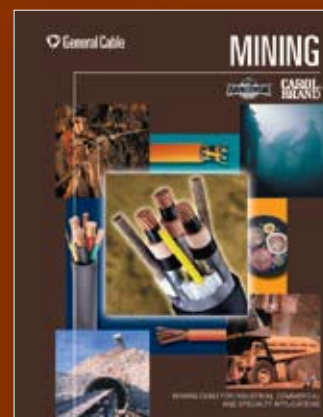
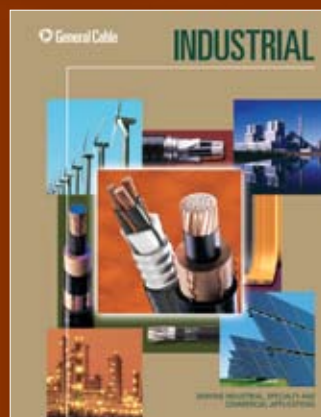
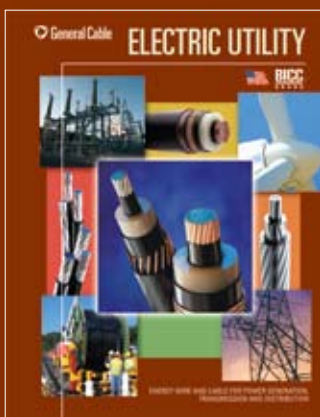
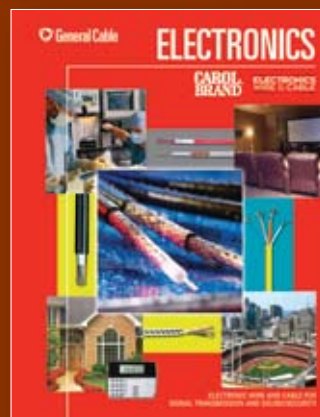
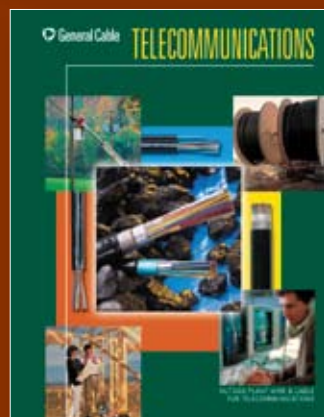
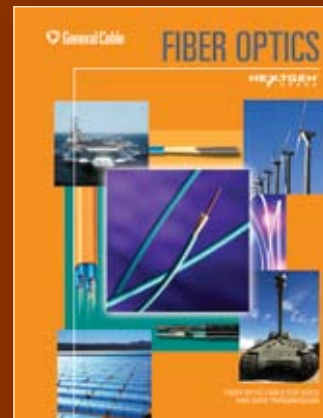
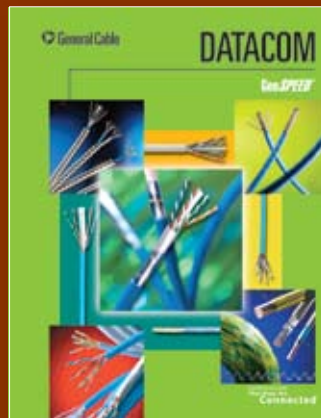
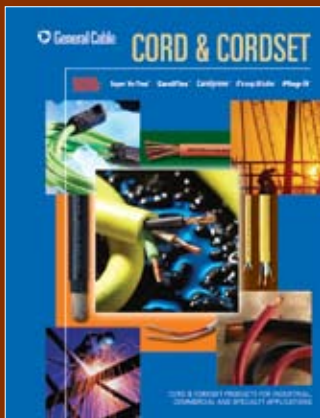
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