



INDUSTRIAL WIRE & CABLE



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INDUSTRIAL WIRE & CABLE - TABLE OF CONTENTS

ABOUT US	3-6	3-6	ABOUT US, LINE CARD, & MANUFACTURING CAPABILITIES
INSTRUMENTATION - 300V & 600V	7-19	8-11	PVC/PVC PLTC 300V
		12-14	PVC/NYLON/PVC 600V
		15-16	XLPE/PVC 600V
		17-19	XLPE/CPE 600V
TRAY CABLE - 600V	20-37	21-25	PVC/NYLON/PVC 600V
		26-28	XHHW-2/PVC
		29-34	XHHW-2/CPE
		35-36	XHHW-2/LSZH
		37	FEP/FEP 200°C
VFD - VARIABLE FREQUENCY DRIVE CABLE	38-43	39-40	VFD FEATURES & SELECTION GUIDE
		41	ENCODER, SIGNAL AND BRAKE CABLES & MICROPROCESSOR POWER CABLES
		42	XHHW-2/PVC MULTI-CONDUCTOR SHIELDED WITH FOIL & TINNED COPPER BRAID SHIELD CONTROL CABLE
		43	XHHW-2/PVC MULTI-CONDUCTOR SHIELDED WITH BARE COPPER TAPE SHIELD CONTROL CABLE
RENEWABLE ENERGY - WIND POWER / SOLAR	44-49	45-47	1000V WTTC PVC/NYLON / COPOLYMER JACKET -40°C TRAY CABLE
		48	ELECTRONIC CABLES
		49	RHH-RHW-USE-2
INTERLOCK ARMOR	50-53	51	AIAP- ALUMINUM INTERLOCK ARMOR PROTECTION
		52	TECK ALUMINUM INTERLOCK ARMOR
		53	MULTI-CONDUCTOR INTERLOCK ARMOR
SPECIALTY CABLES	54-66	55-60	IMSA CABLES
		61	20/10 CONTROL CABLES
		62	30/15 CONTROL CABLES
		63-66	ICON-CI/CIC CIRCUIT INTEGRITY 2-HOUR FIRE RATED CABLES
CLASSICS	67-77	67-69	CLASSICS AD & BELDEN/TAPPAN CROSS-REF
		70-77	CLASSIC INTERCONNECT CABLES
OTHER PRODUCTS	78-81	78	CATEGORY 3 CMR - RISER
		79	CATEGORY 3 CMP - PLENUM
		80	CATEGORY 5e -CMR - RISER & CMP - PLENUM
		81	CATEGORY 6E -CMR - RISER & CMP - PLENUM
SALES SUPPORT	82-85	82	SALES CONTACT INFORMATION
		83-85	TAPPAN ORDERING INFORMATION

TAPPAN WIRE & CABLE has been a leading manufacturer of wire and cable for over 30 years. We offer a full range of stock and specialty cables including:

Security & Sound Cable: Access Control, UL listed CMR and CMP, Camera Surveillance, CCTV & Siamese, Communication, Multi-Conductor, Pairs, Shielded or Non-Shielded, High Temperature Control for 105C & 200C, Fire Alarm Monitoring Systems, FPL, FPLR, FPLP, PLTC / ITC / FPLR, Local Law 5, and CI/CIC 2- Circuit Integrity 2-Hour Fire Rated cables.

Industrial Cable: UL Type TC 600V Tray Cable TFN/THHN-PVC & XLPE-PVC, CPE & LSZH 300V & 600V Instrumentation Tray Cable, UL TYPE 300V PLTC/ITC, FEP/FEP 600V Tray Cable, VFD Control Cables, UL Type MC (Interlock Armor), IMSA Cables, and Specialty Control & Signal Cables. All are available in Multi-Conductor, Pairs, and Triads, Shielded and Non-Shielded configurations

WTTC Cable: 1000V Unshielded Control Cable - available in PVC/NYLON/PVC, XHHW-2 /PVC or CPE; Electronic Cables - High Temp, EMI/RFI, Control Signals, Continuous Flex Data/Control

Contractor/Commercial Cable: UL listed CMR and CMP, Fire Alarm FPL, FPLR, FPLP, PLTC / ITC / FPLR, Local Law 5, 2-Hour CI and CIC, and Coaxial – Backbone RG-6, RG-11, and RG-59

Data /Communication Cable: Category 3, Category 5e, Category 6E, CMR or CMP, and High Temperature (150C & 200C) Communication Cables

Entertainment Cables: Speaker and Audio Control, Audio Snake, Stage Lighting, CCTV, and Camera Power

Residential Cable: Home Audio, Smart Home, Intercom, and Media Control, Custom Composite Cables offering special colors or markings, with Coax, Category, Speaker, & Power

We also offer Low Smoke-Zero Halogen, Water-Blocked, and Composite constructions, and custom colors, print, and packaging.



TAPPAN WIRE & CABLE

offers a professional and experienced sales team, quick turnaround on quotes and specs, and short lead-times. Serving your needs from our four stocking locations in New York, Atlanta, Dallas, and Los Angeles, we offer you our promise of a quality product at a competitive price.

Give us the opportunity to make you a valued customer. Call us or visit our website.

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EXPLORE OUR CABLE-BILITIES®™

Access Control Cables

- Multi-pair - Individually Shielded & Overall Shielded - Plenum Rated - CMP/CL3P/C(UL)
- Multi-pair - Individually & Overall Shielded, Riser Rated - CMR/CL3R C(UL) CMG
- Multi-pair - Overall Shielded & Unshielded, Plenum Rated CMP/CL3P/FPLP
- Multi-pair - Overall Shielded & Unshielded, Riser Rated CMR/CL3R/FPLR
- Multi-Conductor Overall Shielded & Unshielded Riser Rated CMR/CL3R/FPLR
- Multi-Conductor Unshielded Plenum Rated CMP/CL3P/FPLP
- Multi-pair Individually Shielded & Overall Shielded Power Limited Instrumentation & Control Cable—PLTC
- Composite Cables for “Home Run” Installations

Coaxial Cables / Home Entertainment

- CCTV—CM/CL2 & CM/CL3 (RG 6/U, RG59/U) Plenum & Non-Plenum
- PTZ UTP for CCTV (Cat 5e 24/2 Pair)
- Multi-Media—UL Rated (Quads)
- Home Theatre
- Direct Burial / Outdoor Audio
- Mini-RGB Component Video Cables
- Coaxial Premium Broadband 75° - CATV & Plenum Rated - CATVP
- CATV Coaxial Underground & Outdoor
- 3 GHz Digital & HDTV Coaxial Cables

Communication Circuits, Voice & Data

- Voice & Data- Cat 3 CMR/CMP up to 200 Pairs
- Voice & Data - Enhanced 5e 350 MHz CMR & CMP rated - Cat 6e 550 MHz CMR & CMP
- Data Grade Extended Distance
- Multi-Conductor/Pairs Shielded Control & Communication Cables
- High Temperature Communication Cables—Plenum rated

Fire Protective Signaling Cables

- FPL - Data Grade for Addressable Systems
- FPLR - Riser
- FPLP - Plenum
- NPLF - Non-Power Limited
- LL5 (High Temperature Local Law 5) 150°C & 200° C -New York City Approved
- **CI/CIC Cables, 2-Hour Fire Rated Circuit Integrity Cables per UL2196**

Industrial Control and Instrumentation

- Power Limited Tray Cable—(UL)TYPE PLTC 300 Volt PVC-PVC Instrumentation - Unshielded Pairs & Triads, Shielded, and Individually Shielded Pairs & Triads & WATERBLOCKED constructions
- Tray Cable (UL)TYPE TC-ER* Instrumentation & Control & Power Cables 600 Volts - Pairs, Triads, Multi-Conductor - available Unshielded, Overall Shield or Individual & Overall Shields - 90° Wet or Dry (except THHN - 90° Wet /75° Dry)

- TFFN or THHN/PVC Jacket
- XLPE or XHHW-2/ PVC Jacket
- XLPE or XHHW-2/ CPE Jacket
- XLPE or XHHW/ LSZH Jacket

*TYPE TC-ER APPROVED FOR 600 VOLT EXPOSED RUN APPLICATIONS OF 3 OR MORE CONDUCTORS PER NEC

- VFD Cables - XHHW-2/PVC Foil & Braid and Copper Tape Shield constructions-600-2000V
- 20/10 Control Cables
- 30/15 Control Cables
- FEP/FEP Control Cables rated for 200° C

IMSA Cables

19-1 & 20-1 Aerial & Duct, 50-2 Loop Lead-In Cable, 51-5 Tube Loop Detector Wire

WTTC Cables

- 1000V Unshielded Control Cable - available in PVC/Nylon/PVC, XLPE or XHHW-2/CPE, XLP or XHHW-2/PVC
- Electronic Cables—High Temp, EMI/RFI, Control Signals, Continuous Flex Data & Control Cables

Type MC (Metal Clad Interlocked Armor) AIAP (Alum. Interlock Armor Protection)

Available in Aluminum (AIA) or Galvanized Steel (GSIA) for Type MC 600V cables. MC-FPLR/FPLP. AIAP available for Fire Alarm, Signal & Control, Communication & specialty applications.

Security Cables

Riser Rated - CMR - CL2R - CL3R - CMG
Plenum Rated - CMP - CL2P - CL3P

Specialty Cables

- Low Smoke & Low Smoke Zero Halogen: Coaxial, Multi-conductor Unshielded & Shielded Riser Rated, Fire Alarm Shielded & Unshielded Riser Rated
- Water Blocked - Shielded, Unshielded and combination cables

Phone: 1-845-353-9000 Toll-free: 1-800-947-3911 WEB: www.tappanwire.com FAX: 1-845-353-9315

TAPPAN WIRE & CABLE, INC. 100 Bradley Parkway, Blauvelt, NY 10913

MANUFACTURING CAPABILITIES LISTINGS & COMPLIANCE / ORDERING INFORMATION

Conductor Types

- AWG SIZES 26 THRU 2 AWG, SOLID OR STRANDED
- BARE COPPER or TINNED COPPER
- OTHER MATERIALS AVAILABLE, CONSULT FACTORY

Cabling

- SINGLE CONDUCTORS, PAIRS/TRIADS/MULTI-CONDUCTOR & COMPOSITES
- NON-SHIELDED, OVERALL SHIELDED, INDIVIDUAL AND OVERALL SHIELDED
- 1 - 75 COMPONENTS (DEPENDING ON AWG SIZE)

Insulation & Jacketing

- PVC, PLENUM RATED PVC
- PE, FOAM PE
- NYLON
- POLYPROPYLENE
- CROSS-LINKED POLYETHYLENE
- FLUOROCOPOLYMERS
- FEP®
- FOAMED FEP®
- CPE
- TPE
- PU
- LOW SMOKE & LOW SMOKE ZERO HALOGEN
- INSULATION WALL THICKNESS: .005" - .070"
- JACKET WALL THICKNESS: .005" - .080"
- OVERALL DIAMETERS: UP TO 2"

Shielding/Braids/Tapes/Fillers

- ALUMINUM MYLAR, ALUMINUM FOIL, BRONZE, COPPER, TINNED COPPER TAPES
- COPPER & TINNED COPPER, ALUMINUM BRAIDS
- FILLERS - FIBROUS & SOLID (non-hydroscopic)

Type MC (Metal Clad Interlocked Armor) AIAP (Alum. Interlock Armor Protection)

Available in Aluminum (AIA) or Galvanized Steel (GSIA) for Type MC 600V cables. MC-FPLR/FPLP. AIAP available for Fire Alarm, Signal & Control, Communication & specialty applications.



PHONE: 1-800-WIRE-911

Listings & Compliance

- UL
- NEC
- CSA
- IEEE
- ICEA/NEMA
- CE
- RoHS
- WTTC
- MC

Voltage & Temperature Ratings

- 30V, 150V, 300V, 600V, 1000V, 2000V
- -40°C TO +200°C

Ordering Information

- STANDARD LEADTIMES - STOCK (SSPS) OR 3-4 WKS ARO
- DELIVERY ON SPECIAL MFG ORDERS IS BASED ON QUOTATION & OPEN CAPACITY AT TIME OF ORDER
- MINIMUM ORDER \$250 - SPECIAL MFG ITEMS CONSULT FACTORY FOR MINIMUMS
- PACKAGING: AVAILABLE IN REELS/BOXES 500', 1000', CUSTOMER SPECIFIED, OR LONGEST LENGTHS
- STANDARD TOLERANCE: ± 10%
- FREIGHT: PREPAID AND ALLOWED ON SHIPMENTS OF \$3500 ELECTRONIC; \$10,000 INDUSTRIAL PRODUCTS
- STOCKING LOCATIONS: NEW YORK, ATLANTA, DALLAS, LOS ANGELES
- PLEASE CONSULT OUR CUSTOMER SERVICE & SALES TEAM FOR SPECIAL APPLICATIONS &

Products made in the USA



EXPLORE OUR CABLE-BILITIES®™

PLEASE CONTACT YOUR TAPPAN REPRESENTATIVE



Manufacturing

Capabilities

Cabling

- SINGLE CONDUCTORS, PAIRS/TRIADS
- MULTI-CONDUCTOR & COMPOSITES
- NON-SHIELDED, OVERALL SHIELDED, INDIVIDUAL AND OVERALL SHIELDED
- 1 - 75 COMPONENTS (DEPENDING ON AWG SIZE)



Type MC (Metal Clad Interlocked Armor) & AIAP (Aluminum Interlock Armor Protection)

AVAILABLE IN ALUMINUM (AIA) OR GALVANIZED STEEL (GSIA) INTERLOCK ARMOR FOR TYPE MC 600V CABLES. MC-FPLR/FPLP.

ALUMINUM INTERLOCK ARMOR PROTECTION (AIAP) AVAILABLE FOR FIRE ALARM, COMMUNICATION, SIGNAL & CONTROL, AND SPECIALTY ENGINEERED CABLES.

Listings & Compliance

- UL
- NEC
- CSA
- IEEE
- ICEA/NEMA
- CE
- RoHS
- WTTTC
- MC



Voltage & Temperature Ratings

- 30V, 150V, 300V, 600V, 1000V, 2000V
- -40°C TO +200°C

Conductor Types

- AWG SIZES 26 THRU 2 AWG
- SOLID OR STRANDED
- BARE COPPER
- TINNED COPPER
- OTHER MATERIALS AVAILABLE – CONSULT FACTORY



Insulation & Jacketing

- PVC, PLENUM RATED PVC
- PE, FOAM PE
- NYLON
- POLYPROPYLENE
- CROSS-LINKED POLYETHYLENE
- FLUOROCOPOLYMERS
- FEP®
- FOAMED FEP®
- CPE
- TPE
- PU
- LOW SMOKE & LOW SMOKE ZERO HALOGEN
- INSULATION WALL THICKNESS: .005" - .070"
- JACKET WALL THICKNESS: .005" - .080"
- OVERALL DIAMETERS: UP TO 1.5"



Shielding/Braids/Tapes/Fillers

- ALUMINUM MYLAR, ALUMINUM FOIL, BRONZE, COPPER & TINNED COPPER TAPES
- COPPER & TINNED COPPER, ALUMINUM BRAIDS
- FILLERS - FIBROUS & SOLID (NON-HYDROSCOPIC)

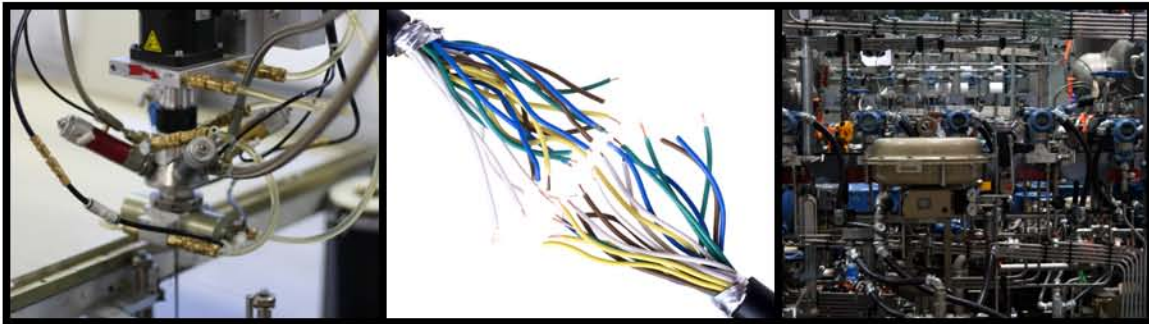
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INSTRUMENTATION—300V & 600V



- . PLTC 300V**
- . TFN/THHN / PVC 600V**
- . XLPE / PVC 600V**
- . XLPE / CPE 600V**



300V UL TYPE PLTC/ITC POWER LIMITED TRAY CABLE



Pairs or Triads, Unshielded Instrumentation

- CONSTRUCTION:** CLASS B STRANDED BARE COPPER. PVC INSULATION, RIPCORDER. PVC JACKET.
JACKET COLOR: BLACK
- APPLICATIONS:** CONTROL SYSTEMS, INDUSTRIAL SIGNALING, ALARM CIRCUITS, AUDIO; FOR USE IN DUCTS, CONDUIT, OR CABLE TRAYS IN 300V APPLICATIONS
- COMPLIANCE:** UL SUBJECT 13 FOR PLTC & UL SUBJECT 2250 FOR ITC, CMG, NEC ARTICLE 725 FOR PLTC CLASS 3 CIRCUITS, PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS PER NEC ARTICLE 501-4(B), NEC ARTICLE 727 FOR ITC. FLAME TESTS: UL 1685, CSA FT4, IEEE 1202 (70,000 BTU/HR), ICEA T-29-520
- PRINT:** E57497 TYPE PLTC / ITC / FPLR OR CL3R XX / PAIRS OR TRIADS XX / AWG UNSHIELDED (UL) OR CMR C(UL) CMG SUNLIGHT RESISTANT 105C MADE IN USA
SEQUENTIAL FOOTAGE MARKINGS. ICEA METHOD 1 - PAIRS BLACK AND WHITE -TRIAD, BLACK, WHITE, RED. ONE CONDUCTOR IN EACH PAIR/TRIAD IS PRINTED ALPHA-NUMERIC
- OPTIONS AVAILABLE:** TINNED COPPER CONDUCTORS, OVERALL SHIELDED PAIRS/TRIADS, INDIVIDUAL AND OVERALL SHIELDED PAIRS/TRIADS, WATERBLOCKED, CONSULT FACTORY FOR OTHER CONSTRUCTIONS

PVC/PVC, INSTRUMENTATION, UNSHIELDED PAIRS & TRIADS

NO. OF PAIRS & TRIADS	AWG	STRAND	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
UNSHIELDED PAIRS/TRIADS 20 AWG							
I	20	7/.0121	12	0.213	9	24	Z30012.1
I TRIAD	20	7/.0121	12	0.222	12	29	Z30013.1
UNSHIELDED PAIRS/TRIADS 18 AWG							
I	18	7/.0152	15	0.225	12	29	Z40016.1
I TRIAD	18	7/.0152	15	0.245	18	38	Z40017.1
UNSHIELDED PAIRS/TRIADS 16 AWG							
I	16	7/.0192	15	0.255	18	39	Z50015.1
I TRIAD	16	7/.0192	15	0.282	27	49	Z50016.1

Weights and dimensions are nominal and are subject to applicable industry tolerances.



300V UL TYPE PLTC/ITC POWER LIMITED TRAY CABLE



Pairs or Triads, Overall Shielded Instrumentation

CONSTRUCTION:	CLASS B STRANDED BARE COPPER. PVC INSULATION, ALUMINUM POLYESTER FOIL SHIELD, TINNED COPPER DRAIN WIRE, RIPCORDER, PVC JACKET. JACKET COLOR: BLACK
APPLICATIONS:	CONTROL SYSTEMS, INDUSTRIAL SIGNALING, ALARM CIRCUITS, AUDIO; FOR USE IN DUCTS, CONDUIT, OR CABLE TRAYS IN 300V APPLICATIONS.
COMPLIANCE:	UL SUBJECT 13 FOR PLTC & UL SUBJECT 2250 FOR ITC, CMG, NEC ARTICLE 725 FOR CLASS 3 CIRCUITS, PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS PER NEC ARTICLE 501-4(B), NEC ARTICLE 727 FOR ITC. FLAME TESTS: UL 1685, CSA FT4, IEEE 1202 (70,000 BTU/HR), ICEA T-29-520
PRINT:	E57497 TYPE PLTC / ITC / FPLR OR CL3 R XX / PAIRS OR TRIADS XX / AWG SHIELDED (UL) OR CMR C (UL) CMG SUNLIGHT RESISTANT 105C MADE IN USA SEQUENTIAL FOOTAGE MARKINGS. ICEA METHOD 1 - PAIRS BLACK AND WHITE -TRIAD, BLACK, WHITE, RED. ONE CONDUCTOR IN EACH PAIR/TRIAD IS PRINTED ALPHA-NUMERIC
OPTIONS AVAILABLE:	TINNED COPPER CONDUCTORS, INDIVIDUAL AND OVERALL SHIELDED PAIRS/TRIADS, WATERBLOCKED, CONSULT FACTORY FOR OTHER CONSTRUCTIONS.

PVC/PVC, INSTRUMENTATION, OVERALL SHIELDED PAIRS & TRIADS

NO. OF PAIRS & TRIADS	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
OVERALL SHIELDED PAIRS/TRIADS 20 AWG								
1	20	7/.0121	15	40	0.210	9	26	U39956.1
4	20	7/.0121	15	40	0.353	28	67	U39955.1
8	20	7/.0121	15	40	0.444	54	113	U39954.1
12	20	7/.0121	15	50	0.542	81	169	U39953.1
16	20	7/.0121	15	50	0.607	107	215	U39952.1
1 TRIAD	20	7/.0121	15	35	0.213	12	34	Z30011.1
OVERALL SHIELDED PAIRS/TRIADS 18 AWG								
1	18	7/.0152	15	35	0.220	12	30	U40025.1
1 TRIAD	18	7/.0152	15	35	0.233	18	38	U40026.1
OVERALL SHIELDED PAIRS/TRIADS 16 AWG								
1	16	7/.0192	15	35	0.240	18	41	U50025.1
1 TRIAD	16	7/.0192	15	40	0.297	27	58	Z50014.1

Weights and dimensions are nominal and are subject to applicable industry tolerances.



300V UL TYPE PLTC/ITC POWER LIMITED TRAY CABLE



Multi-Pair, Individual Plus Overall Shielded Instrumentation

CONSTRUCTION:	CLASS B STRANDED BARE COPPER. PVC INSULATION, ALUMINUM POLYESTER FOIL SHIELD, TINNED COPPER DRAIN WIRE FOR EACH SHIELDED PAIR, RIPCORDER, PVC JACKET. JACKET COLOR: BLACK
APPLICATIONS:	CONTROL SYSTEMS, INDUSTRIAL SIGNALING, ALARM CIRCUITS, AUDIO; FOR USE IN DUCTS, CONDUIT, OR CABLE TRAYS IN 300V APPLICATIONS.
COMPLIANCE:	UL SUBJECT 13 FOR PLTC & UL SUBJECT 2250 FOR ITC, CMG, NEC ARTICLE 725 FOR CLASS 3 CIRCUITS, PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS PER NEC ARTICLE 501-4(B), NEC ARTICLE 727 FOR ITC. FLAME TESTS: UL 1685, CSA FT4, IEEE 1202 (70,000 BTU/HR), ICEA T-29-520
PRINT:	E57497 TYPE PLTC / ITC / FPLR OR CL3 R XX / PAIRS XX / AWG SPOS (UL) OR CMR C (UL) CMG SUNLIGHT RESISTANT 105C MADE IN USA SEQUENTIAL FOOTAGE MARKINGS. ICEA METHOD 1 - PAIRS BLACK AND WHITE. ONE CONDUCTOR IN EACH PAIR IS PRINTED ALPHA-NUMERIC
OPTIONS AVAILABLE:	TINNED COPPER CONDUCTORS, OVERALL SHIELDED PAIRS/TRIADS, WATERBLOCKED, CONSULT FACTORY FOR OTHER CONSTRUCTIONS.

PVC/PVC, INSTRUMENTATION, INDIVIDUAL & OVERALL SHIELDED PAIRS

NO. OF PAIRS	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
INDIVIDUAL AND OVERALL SHIELDED PAIRS 20 AWG								
2	20	7/0121	12	40	0.292	20	46	U39949.1
4	20	7/0121	12	42	0.416	39	76	Z30015.1
8	20	7/0121	12	50	0.481	71	139	Z30016.1
12	20	7/0121	12	60	0.534	83	206	Z30014.1
16	20	7/0121	12	60	0.586	143	246	U39945.1
20	20	7/0121	12	60	0.636	175	325	Z30017.1
24	20	7/0121	12	60	0.686	213	348	U39943.1
36	20	7/0121	12	70	1.015	324	586	Z30009.1
50	20	7/0121	12	70	1.190	433	786	Z30010.1
INDIVIDUAL AND OVERALL SHIELDED PAIRS 18 AWG								
2	18	7/0152	15	42	0.296	30	61	Z40009.1
4	18	7/0152	15	50	0.453	57	115	U49990.1
6	18	7/0152	15	60	0.485	105	212	Z40010.1
8	18	7/0152	15	60	0.571	135	240	Z40011.1
12	18	7/0152	15	60	0.638	166	283	U49992.1
20	18	7/0152	15	70	0.955	252	505	Z40012.1
24	18	7/0152	15	70	1.040	302	596	Z40013.1
36	18	7/0152	15	70	1.215	452	846	Z40014.1
50	18	7/0152	15	80	1.450	628	1165	Z40015.1
INDIVIDUAL AND OVERALL SHIELDED PAIRS 16 AWG								
2	16	7/0192	15	50	0.406	49	95	U59992.1
4	16	7/0192	15	50	0.506	80	151	Z50009.1
6	16	7/0192	15	50	0.545	130	211	Z50062.1
8	16	7/0192	15	50	0.585	180	270	U59987.1
12	16	7/0192	15	60	0.707	267	400	U59994.1
20	16	7/0192	15	70	1.080	375	705	Z50010.1
24	16	7/0192	15	70	1.165	456	828	Z50011.1
36	16	7/0192	15	80	1.390	574	1215	Z50012.1
50	16	7/0192	15	90	1.655	935	1670	Z50013.1

Weights and dimensions are nominal and are subject to applicable industry tolerances.

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300V UL TYPE PLTC/ITC POWER LIMITED TRAY CABLE



Multi-Triad, Individual Plus Overall Shielded Instrumentation

CONSTRUCTION:	CLASS B STRANDED BARE COPPER. PVC INSULATION, ALUMINUM POLYESTER FOIL SHIELD, TINNED COPPER DRAIN WIRE FOR EACH SHIELDED TRIAD, RIPCORDER, PVC JACKET. JACKET COLOR: BLACK
APPLICATIONS:	CONTROL SYSTEMS, INDUSTRIAL SIGNALING, ALARM CIRCUITS, AUDIO; FOR USE IN DUCTS, CONDUIT, OR CABLE TRAYS IN 300V APPLICATIONS.
COMPLIANCE:	UL SUBJECT 13 FOR PLTC & UL SUBJECT 2250 FOR ITC, CMG, NEC ARTICLE 725 FOR CLASS 3 CIRCUITS, PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS PER NEC ARTICLE 501-4(B), NEC ARTICLE 727 FOR ITC. FLAME TESTS: UL 1685, CSA FT4, IEEE 1202 (70,000 BTU/HR), ICEA T-29-520
PRINT:	E57497 TYPE PLTC / ITC / FPLR OR CL3 R XX / TRIADS XX / AWG STOS (UL) OR CMR C (UL) CMG SUNLIGHT RESISTANT 105C MADE IN USA SEQUENTIAL FOOTAGE MARKINGS. ICEA METHOD 1 - TRIAD - BLACK, WHITE, RED. ONE CONDUCTOR IN EACH TRIAD IS PRINTED ALPHA-NUMERIC
OPTIONS AVAILABLE:	TINNED COPPER CONDUCTORS, OVERALL AND INDIVIDUAL & OVERALL SHIELDED PAIRS/TRIADS, WATERBLOCKED, CONSULT FACTORY FOR OTHER CONSTRUCTIONS.

PVC/PVC, INSTRUMENTATION, INDIVIDUAL & OVERALL SHIELDED TRIADS

NO. OF TRIADS	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
INDIVIDUAL AND OVERALL SHIELDED TRIADS 20 AWG								
2	20	7/.0121	12	40	0.340	26	59	Z30001.I
4	20	7/.0121	12	40	0.365	48	97	Z30002.I
8	20	7/.0121	12	50	0.566	97	187	Z30003.I
12	20	7/.0121	12	60	0.705	145	287	Z30004.I
16	20	7/.0121	12	60	0.780	192	365	Z30005.I
20	20	7/.0121	12	60	0.860	240	440	Z30006.I
24	20	7/.0121	12	70	0.955	288	541	Z30007.I
36	20	7/.0121	12	70	1.115	431	767	Z30008.I
INDIVIDUAL AND OVERALL SHIELDED TRIADS 18 AWG								
2	18	7/.0152	15	40	0.321	38	77	Z40001.I
4	18	7/.0152	15	50	0.444	73	143	Z40002.I
6	18	7/.0152	15	60	0.691	147	275	Z40003.I
8	18	7/.0152	15	60	0.840	215	412	Z40004.I
12	18	7/.0152	15	70	0.960	286	550	Z40005.I
20	18	7/.0152	15	70	1.060	357	668	Z40006.I
24	18	7/.0152	15	70	1.145	428	785	Z40007.I
36	18	7/.0152	15	80	1.365	641	1151	Z40008.I
INDIVIDUAL AND OVERALL SHIELDED TRIADS 16 AWG								
2	16	7/.0192	15	40	0.367	54	104	Z50001.I
4	16	7/.0192	15	50	0.502	108	195	Z50002.I
6	16	7/.0192	15	60	0.786	218	375	Z50003.I
8	16	7/.0192	15	70	0.970	325	597	Z50004.I
12	16	7/.0192	15	70	1.075	433	765	Z50005.I
20	16	7/.0192	15	70	1.195	541	933	Z50006.I
24	16	7/.0192	15	80	1.310	649	1125	Z50007.I
36	16	7/.0192	15	80	1.540	972	1620	Z50008.I

Weights and dimensions are nominal and are subject to applicable industry tolerances.



600V TRAY CABLE UL TYPE TC



Multi-Pair, Overall Shielded Instrumentation

CONSTRUCTION:	CLASS B STRANDED BARE COPPER. PVC/NYLON INSULATION, OVERALL ALUMINUM/POLYESTER FOIL SHIELD, TINNED COPPER DRAIN WIRE. RIPCORDER. PVC JACKET. JACKET COLOR: BLACK
APPLICATIONS:	APPROVED FOR DIRECT BURIAL, WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C DRY, 75°C WET
COMPLIANCE:	INDUSTRY: UL 1277 TYPE TC-ER*, UL 1581. FLAME TESTS: UL1277, UL1685, IEEE 1202, CSA FT-4, ICEA T-29-520
PRINT:	TAPPAN W & C E135319 TYPE TC-ER* # PAIRS OR TRIADS XX AWG PVC-NYLON or THHN/THWN CDRS. OAS or POS or TOS (UL) DIR. BUR. SUN RES. 75C WET OR 90C DRY 600 VOLTS MADE IN USA RoHS SEQUENTIAL FOOTAGE MARKINGS. ICEA METHOD 1 - PAIRS BLACK AND WHITE -TRIAD, BLACK, WHITE, RED. ONE CONDUCTOR IN EACH PAIR/TRIAD IS PRINTED ALPHA-NUMERIC
OPTIONS AVAILABLE:	TINNED COPPER CONDUCTORS, INDIVIDUAL AND OVERALL SHIELDED PAIRS/TRIADS, CONSULT FACTORY FOR OTHER CONSTRUCTIONS

PVC/NYLON/PVC, INSTRUMENTATION, OVERALL SHIELDED PAIRS & TRIADS

NO. OF PAIRS / TRIADS	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
OVERALL SHIELDED PAIRS/TRIADS 18 AWG								
1	18	7/.0152	20	45	0.260	13	39	V40032.1
1 TRIAD	18	7/.0152	20	45	0.274	18	47	V40038.1
2	18	7/.0152	20	45	0.388	24	67	V49956.1
3	18	7/.0152	20	45	0.418	33	90	Z40042.1
4	18	7/.0152	20	45	0.447	45	103	V49955.1
5	18	7/.0152	20	45	0.496	55	122	Z40043.1
6	18	7/.0152	20	45	0.515	65	141	V49954.1
7	18	7/.0152	20	60	0.571	75	177	Z40044.1
8	18	7/.0152	20	60	0.596	86	195	V49953.1
10	18	7/.0152	20	60	0.643	107	215	V49952.1
12	18	7/.0152	20	60	0.698	127	269	V49951.1
16	18	7/.0152	20	60	0.783	169	342	V49937.1
20	18	7/.0152	20	80	0.905	210	455	Z40045.1
24	18	7/.0152	20	80	0.968	251	524	V49936.1
36	18	7/.0152	20	80	1.095	375	731	V49926.1
50	18	7/.0152	20	80	1.257	520	975	V49925.1
OVERALL SHIELDED PAIRS/TRIADS 16 AWG								
1	16	7/.0192	20	45	0.280	21	49	V50066.1
1 TRIAD	16	7/.0192	20	45	0.296	30	62	V50056.1
2	16	7/.0192	20	45	0.423	39	86	V59958.1
3	16	7/.0192	20	45	0.456	53	117	Z50053.1
4	16	7/.0192	20	45	0.489	72	138	V59957.1
5	16	7/.0192	20	45	0.520	87	190	Z50054.1
6	16	7/.0192	20	60	0.595	106	209	V59956.1
7	16	7/.0192	20	60	0.630	117	239	Z50055.1
8	16	7/.0192	20	60	0.652	139	262	V59979.1
12	16	7/.0192	20	60	0.766	207	367	V59954.1
16	16	7/.0192	20	80	0.901	274	507	V59936.1
20	16	7/.0192	20	80	1.010	337	628	Z50064.1
24	16	7/.0192	20	80	1.063	408	716	V59935.1
36	16	7/.0192	20	80	1.205	610	1013	V59927.1
50	16	7/.0192	20	80	1.386	846	1362	V59926.1
OVERALL SHIELDED PAIRS 14 AWG								
1	14	7/.0242	20	45	0.314	34	66	V60061.1

Weights and dimensions are nominal and are subject to applicable industry tolerances.

*TYPE TC-ER, NEC approved for Exposed Run applications of 3 or more conductors

1-800-WIRE-911

www.tappanwire.com



600V TRAY CABLE UL TYPE TC



Multi-Pair, Individual Plus Overall Shielded Instrumentation

- CONSTRUCTION:** CLASS B STRANDED BARE COPPER. PVC/NYLON INSULATION, INDIVIDUAL AND OVERALL ALUMINUM/POLYESTER FOIL SHIELD, TINNED COPPER DRAIN WIRE. RIPCORDER. PVC JACKET. JACKET COLOR: BLACK
- APPLICATIONS:** APPROVED FOR DIRECT BURIAL, WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C DRY, 75°C WET
- COMPLIANCE:** INDUSTRY: UL 1277 TYPE TC-ER*, UL 1581. FLAME TESTS: UL1277, UL1685, IEEE 1202, CSA FT-4, ICEA T-29-520
- PRINT:** TAPPAN W & C E135319 TYPE TC-ER* # PAIRS XX AWG PVC-NYLON CDRS. SPOS (UL) DIR. BUR. SUN RES. 75C WET OR 90C DRY 600 VOLTS MADE IN USA RoHS
SEQUENTIAL FOOTAGE MARKINGS. ICEA METHOD 1 - PAIRS BLACK AND WHITE. ONE CONDUCTOR IN EACH PAIR IS PRINTED ALPHA-NUMERIC
- OPTIONS AVAILABLE:** TINNED COPPER CONDUCTORS, OVERALL SHIELDED PAIRS/TRIADS, CONSULT FACTORY FOR OTHER CONSTRUCTIONS

PVC/NYLON/PVC, INSTRUMENTATION, INDIVIDUAL & OVERALL SHIELDED

NO. OF PAIRS	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
INDIVIDUAL AND OVERALL SHIELDED PAIRS 18 AWG								
2	18	7/0.0152	20	45	0.396	30	74	V49950.1
3	18	7/0.0152	20	45	0.422	44	95	V49934.1
4	18	7/0.0152	20	45	0.490	57	120	V49949.1
5	18	7/0.0152	20	45	0.522	74	149	Z40046.1
6	18	7/0.0152	20	60	0.554	85	178	V49948.1
7	18	7/0.0152	20	60	0.541	102	186	Z40047.1
8	18	7/0.0152	20	60	0.605	112	221	V49947.1
10	18	7/0.0152	20	60	0.651	139	247	V49946.1
12	18	7/0.0152	20	60	0.707	166	309	V49945.1
15	18	7/0.0152	20	60	0.758	206	372	V49924.1
16	18	7/0.0152	20	60	0.792	220	395	V49929.1
20	18	7/0.0152	20	60	0.826	274	474	V49928.1
24	18	7/0.0152	20	80	0.976	328	602	V49927.1
36	18	7/0.0152	20	80	1.104	491	848	V49923.1
50	18	7/0.0152	20	80	1.265	681	1137	V49922.1
INDIVIDUAL AND OVERALL SHIELDED PAIRS 16 AWG								
2	16	7/0.0192	20	45	0.432	49	97	V59953.1
3	16	7/0.0192	20	45	0.461	71	128	V59919.1
4	16	7/0.0192	20	60	0.567	92	180	V59952.1
5	16	7/0.0192	20	60	0.586	105	224	Z50056.1
6	16	7/0.0192	20	60	0.605	136	240	V59951.1
7	16	7/0.0192	20	60	0.634	145	290	Z50057.1
8	16	7/0.0192	20	60	0.662	180	303	V59950.1
12	16	7/0.0192	20	60	0.776	267	428	V59948.1
16	16	7/0.0192	20	80	0.911	354	589	V59928.1
20	16	7/0.0192	20	80	0.949	442	706	V59922.1
24	16	7/0.0192	20	80	1.072	529	838	V59986.1
36	16	7/0.0192	20	80	1.215	791	1195	V59924.1
50	16	7/0.0192	20	80	1.395	1097	1614	V59923.1

Weights and dimensions are nominal and are subject to applicable industry tolerances.

*TYPE TC-ER, NEC approved for Exposed Run applications of 3 or more conductors



600V TRAY CABLE UL TYPE TC



Multi-Triad, Individual Plus Overall Shielded Instrumentation

- CONSTRUCTION:** CLASS B STRANDED BARE COPPER. PVC/NYLON INSULATION, INDIVIDUAL AND OVERALL ALUMINUM/POLYESTER FOIL SHIELD, TINNED COPPER DRAIN WIRE. RIPCORDER. PVC JACKET. JACKET COLOR: BLACK
- APPLICATIONS:** APPROVED FOR DIRECT BURIAL, WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C DRY, 75°C WET
- COMPLIANCE:** INDUSTRY: UL 1277 TYPE TC-ER*, UL 1581. FLAME TESTS: UL1277, UL1685, IEEE 1202, CSA FT-4, ICEA T-29-520
- PRINT:** TAPPAN W & C E135319 TYPE TC-ER # TRIADS XX AWG PVC-NYLON CDRS. SPOS (UL) DIR. BUR. SUN RES. 75C WET OR 90C DRY 600 VOLTS MADE IN USA RoHS
SEQUENTIAL FOOTAGE MARKINGS. ICEA METHOD 1 - TRIADS- BLACK, WHITE, RED - ONE CONDUCTOR IN EACH TRIAD IS PRINTED ALPHA-NUMERIC
- OPTIONS AVAILABLE:** TINNED COPPER CONDUCTORS, OVERALL SHIELDED PAIRS/TRIADS, CONSULT FACTORY FOR OTHER CONSTRUCTIONS

PVC/NYLON/PVC, INSTRUMENTATION, INDIVIDUAL & OVERALL SHIELDED

NO. OF TRIADS	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
INDIVIDUAL AND OVERALL SHIELDED TRIADS 16 AWG								
4	16	7/0.0192	20	50	0.594	108	222	Z50058.1
8	16	7/0.0192	20	60	0.784	217	412	Z50059.1
12	16	7/0.0192	20	60	0.975	328	602	Z50060.1
16	16	7/0.0192	20	60	1.088	436	793	Z50065.1
24	16	7/0.0192	20	80	1.500	653	1245	Z50061.1

Weights and dimensions are nominal and are subject to applicable industry tolerances.

*TYPE TC-ER, NEC approved for Exposed Run applications of 3 or more conductors



600V TRAY CABLE UL TYPE TC



Pairs & Triads, Individual Plus Overall Shielded Instrumentation

CONSTRUCTION:

CLASS B STRANDED BARE COPPER, CROSS-LINKED POLYETHYLENE INSULATION (XLPE) VW-1 PRIMARIES, WITH INDIVIDUAL AND OVERALL ALUMINUM/POLYESTER FOIL SHIELDS, TINNED COPPER DRAIN WIRE. RIPCORD, BLACK FLAME RETARDANT PVC JACKET. UL TYPE TC 600 VOLT TRAY CABLE

APPLICATIONS:

APPROVED FOR DIRECT BURIAL, FREE AIR OR RACEWAYS, IN WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C WET OR DRY

COMPLIANCE:

INDUSTRY: UL 1277 TYPE TC-ER*, UL 44, UL 1581, ICEA S-73-532/NEMA WC-57, ICEA S-95-658 / NEMA WC-70, NEC ARTICLE 336. PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS. FLAME TESTS: UL1277, UL1685, UL 1581 VW-1, IEEE 1202, CSA FT-4, ICEA T-29-520

PRINT:

TAPPAN W & C E135319 (UL) TYPE TC-ER/ # PAIRS/TRIADS XX AWG SPOS/STOS PVC JKT DIR. BUR. SUN RES. 90C WET OR DRY 600 VOLTS MADE IN USA

SEQUENTIAL FOOTAGE MARKINGS. ICEA METHOD 1 - PAIRS BLACK AND WHITE, TRIADS BLACK, WHITE, RED. ONE CONDUCTOR IN EACH PAIR/TRIAD IS PRINTED ALPHA-NUMERIC

OPTIONS AVAILABLE: OVERALL SHIELDED PAIRS/TRIADS, TINNED COPPER CONDUCTORS, CONSULT FACTORY FOR OTHER CONSTRUCTIONS

XLPE PRIMARIES & PVC JACKET – PAIRS & TRIADS – SPOS & STOS

NO. OF PAIRS / TRIADS	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
SPOS - INDIVIDUAL AND OVERALL SHIELDED PAIRS 18 AWG								
1	18	7/.0152	30	45	0.300	13	43	Z40018.1
2	18	7/.0152	30	45	0.470	30	82	Z40019.1
3	18	7/.0152	30	45	0.500	44	106	Z40020.1
4	18	7/.0152	30	60	0.614	57	152	Z40021.1
6	18	7/.0152	30	60	0.656	85	198	Z40022.1
8	18	7/.0152	30	60	0.719	112	247	Z40023.1
12	18	7/.0152	30	60	0.845	166	344	Z40024.1
16	18	7/.0152	30	80	0.990	220	478	Z40025.1
20	18	7/.0152	30	80	1.032	254	567	Z40026.1
24	18	7/.0152	30	80	1.168	328	671	Z40027.1
SPOS - INDIVIDUAL AND OVERALL SHIELDED PAIRS 16 AWG								
1	16	7/.0192	30	45	0.320	21	54	Z50017.1
2	16	7/.0192	30	45	0.504	49	106	Z50018.1
3	16	7/.0192	30	45	0.539	71	139	Z50019.1
4	16	7/.0192	30	60	0.661	92	196	Z50020.1
6	16	7/.0192	30	60	0.707	136	261	Z50021.1
8	16	7/.0192	30	60	0.776	180	329	Z50022.1
12	16	7/.0192	30	80	0.954	267	502	Z50023.1
16	16	7/.0192	30	80	1.069	354	640	Z50024.1
20	16	7/.0192	30	80	1.115	442	766	Z50025.1
24	16	7/.0192	30	80	1.264	529	909	Z50026.1

Weights and dimensions are nominal and are subject to applicable industry tolerances.

*TYPE TC-ER, NEC approved for Exposed Run applications of 3 or more conductors



600V TRAY CABLE UL TYPE TC



Pairs & Triads, Individual Plus Overall Shielded Instrumentation

CONSTRUCTION:

CLASS B STRANDED BARE COPPER, CROSS-LINKED POLYETHYLENE INSULATION (XLPE) VW-1 PRIMARIES, WITH INDIVIDUAL AND OVERALL ALUMINUM/POLYESTER FOIL SHIELDS, TINNED COPPER DRAIN WIRE. RIPCORDER, BLACK FLAME RETARDANT PVC JACKET. UL TYPE TC 600 VOLT TRAY CABLE

APPLICATIONS:

APPROVED FOR DIRECT BURIAL, FREE AIR OR RACEWAYS, IN WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C WET OR DRY

COMPLIANCE:

INDUSTRY: UL 1277 TYPE TC-ER*, UL 44, UL 1581, ICEA S-73-532/NEMA WC-57, ICEA S-95-658 / NEMA WC-70, NEC ARTICLE 336. PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS. FLAME TESTS: UL1277, UL1685, UL 1581 VW-1, IEEE 1202, CSA FT-4, ICEA T-29-520

PRINT:

TAPPAN W & C E135319 (UL) TYPE TC-ER/ # PAIRS/TRIADS XX AWG SPOS/STOS PVC JKT DIR. BUR. SUN RES. 90C WET OR DRY 600 VOLTS MADE IN USA

SEQUENTIAL FOOTAGE MARKINGS. ICEA METHOD 1 - PAIRS BLACK AND WHITE, TRIADS BLACK, WHITE, RED. ONE CONDUCTOR IN EACH PAIR/TRIAD IS PRINTED ALPHA-NUMERIC

OPTIONS AVAILABLE:

OVERALL SHIELDED PAIRS/TRIADS, TINNED COPPER CONDUCTORS, CONSULT FACTORY FOR OTHER CONSTRUCTIONS

XLPE PRIMARIES & PVC JACKET – PAIRS & TRIADS – SPOS & STOS

NO. OF PAIRS / TRIADS	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
STOS - INDIVIDUAL AND OVERALL SHIELDED TRIADS 18 AWG								
2	18	7/.0152	30	60	0.594	40	101	Z40028.1
4	18	7/.0152	30	60	0.690	78	166	Z40029.1
8	18	7/.0152	30	80	0.938	153	319	Z40030.1
12	18	7/.0152	30	80	1.137	229	454	Z40031.1
16	18	7/.0152	30	80	1.216	304	576	Z40032.1
20	18	7/.0152	30	80	1.346	379	704	Z40033.1
24	18	7/.0152	30	80	1.566	454	840	Z40034.1
STOS - INDIVIDUAL AND OVERALL SHIELDED TRIADS 16 AWG								
1	16	7/.0192	30	45	0.356	29	57	Z50027.1
2	16	7/.0192	30	60	0.646	64	132	Z50028.1
4	16	7/.0192	30	60	0.752	123	222	Z50029.1
6	16	7/.0192	30	60	0.906	182	315	Z50030.1
8	16	7/.0192	30	80	1.024	241	429	Z50031.1
12	16	7/.0192	30	80	1.246	360	615	Z50032.1
16	16	7/.0192	30	80	1.326	478	785	Z50033.1

Weights and dimensions are nominal and are subject to applicable industry tolerances.

*TYPE TC-ER, NEC approved for Exposed Run applications of 3 or more conductors



600V TRAY CABLE UL TYPE TC



Pairs/Triads, Overall Shielded Instrumentation

CONSTRUCTION:	CLASS B STRANDED TINNED COPPER, CROSS-LINKED POLYETHYLENE INSULATION (XLPE) VW-1 PRIMARIES, WITH OVERALL ALUMINUM/POLYESTER FOIL SHIELDS, TINNED COPPER DRAIN WIRE. RIPCORD, BLACK FLAME RETARDANT CHLORINATED POLYETHYLENE (CPE) JACKET. UL TYPE TC 600 VOLT TRAY CABLE
APPLICATIONS:	APPROVED FOR DIRECT BURIAL, FREE AIR OR RACEWAYS, IN WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C WET OR DRY
COMPLIANCE:	INDUSTRY: UL 1277 TYPE TC-ER*, UL 44, UL 1581, ICEA S-73-532/NEMA WC-57, ICEA S-95-658 / NEMA WC-70, NEC ARTICLE 336. PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS. MEETS COLD BEND TEST OF -40° C. FLAME TESTS: UL1277, UL1685, UL 1581 VW-1, IEEE 1202, CSA FT-4, ICEA T-29-520
PRINT:	TAPPAN W & C E135319 (UL) TYPE TC-ER/ # PAIRS/TRIADS XX AWG POS/OAS** CPE JKT DIR. BUR. SUN RES. 90C WET OR DRY 600 VOLTS MADE IN USA SEQUENTIAL FOOTAGE MARKINGS. ICEA METHOD 1 - PAIRS BLACK AND WHITE, TRIADS BLACK, WHITE, RED. ONE CONDUCTOR IN EACH PAIR/TRIAD IS PRINTED ALPHA-NUMERIC
OPTIONS AVAILABLE:	INDIVIDUAL & OVERALL SHIELDED PAIRS/TRIADS, BARE COPPER CONDUCTORS, CONSULT FACTORY FOR OTHER CONSTRUCTIONS

XLPE PRIMARIES & CPE JACKET – OVERALL SHIELDED INSTRUMENTATION

NO. OF PAIRS / TRIADS	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
OVERALL SHIELDED PAIRS 18 AWG								
1	18	7/.0152	30	45	0.300	14	44	V49918.1
OVERALL SHIELDED PAIRS 16 AWG								
1	16	7/.0192	30	45	0.321	22	55	V59900.1
OVERALL SHIELDED TRIADS 18 AWG								
1	18	7/.0152	30	45	0.330	18	53	V40153.1
OVERALL SHIELDED TRIADS 16 AWG								
1	16	7/.0192	30	45	0.400	30	68	V50161.1

Weights and dimensions are nominal and are subject to applicable industry tolerances.

*TYPE TC-ER, NEC approved for Exposed Run applications of 3 or more conductors

** POS = OVERALL SHIELDED PAIRS OAS= OVERALL SHIELDED TRIADS



600V TRAY CABLE UL TYPE TC



Pairs & Triads, Individual Plus Overall Shielded Instrumentation

- CONSTRUCTION:** CLASS B STRANDED TINNED COPPER, CROSS-LINKED POLYETHYLENE INSULATION (XLPE) VW-1 PRIMARIES, WITH INDIVIDUAL AND OVERALL ALUMINUM/POLYESTER FOIL SHIELDS, TINNED COPPER DRAIN WIRE. RIPCORD, BLACK FLAME RETARDANT CHLORINATED POLYETHYLENE (CPE) JACKET. UL TYPE TC 600 VOLT TRAY CABLE
- APPLICATIONS:** APPROVED FOR DIRECT BURIAL, FREE AIR OR RACEWAYS, IN WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C WET OR DRY
- COMPLIANCE:** INDUSTRY: UL 1277 TYPE TC-ER*, UL 44, UL 1581, ICEA S-73-532/NEMA WC-57, ICEA S-95-658 / NEMA WC-70, NEC ARTICLE 336. PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS. MEETS COLD BEND TEST OF -40° C. FLAME TESTS: UL1277, UL1685, UL 1581 VW-1, IEEE 1202, CSA FT-4, ICEA T-29-520
- PRINT:** TAPPAN W & C E135319 (UL) TYPE TC-ER/ # PAIRS/TRIADS XX AWG SPOS/STOS CPE JKT DIR. BUR. SUN RES. 90C WET OR DRY 600 VOLTS MADE IN USA
- SEQUENTIAL FOOTAGE MARKINGS. ICEA METHOD 1 - PAIRS BLACK AND WHITE, TRIADS BLACK, WHITE, RED. ONE CONDUCTOR IN EACH PAIR/TRIAD IS PRINTED ALPHA-NUMERIC
- OPTIONS AVAILABLE:** OVERALL SHIELDED PAIRS/TRIADS, BARE COPPER CONDUCTORS, CONSULT FACTORY FOR OTHER CONSTRUCTIONS

XLPE PRIMARIES & CPE JACKET – PAIRS & TRIADS – SPOS & STOS

NO. OF PAIRS / TRIADS	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
SPOS - INDIVIDUAL AND OVERALL SHIELDED PAIRS 18 AWG								
1	18	7/0.0152	30	45	0.300	13	43	V40157.1
2	18	7/0.0152	30	45	0.470	30	82	V49917.1
3	18	7/0.0152	30	45	0.500	44	106	V49916.1
4	18	7/0.0152	30	60	0.614	57	152	V49915.1
6	18	7/0.0152	30	60	0.656	85	198	V49914.1
8	18	7/0.0152	30	60	0.719	112	247	V49913.1
12	18	7/0.0152	30	60	0.845	166	344	V49912.1
16	18	7/0.0152	30	80	0.990	220	478	V49911.1
20	18	7/0.0152	30	80	1.032	254	567	V49910.1
24	18	7/0.0152	30	80	1.168	328	671	V49909.1
SPOS - INDIVIDUAL AND OVERALL SHIELDED PAIRS 16 AWG								
1	16	7/0.0192	30	45	0.320	21	54	V50165.1
2	16	7/0.0192	30	45	0.504	49	106	V59899.1
3	16	7/0.0192	30	45	0.539	71	139	V59898.1
4	16	7/0.0192	30	60	0.661	92	196	V59897.1
6	16	7/0.0192	30	60	0.707	136	261	V59896.1
8	16	7/0.0192	30	60	0.776	180	329	V59895.1
12	16	7/0.0192	30	80	0.954	267	502	V59894.1
16	16	7/0.0192	30	80	1.069	354	640	V59893.1
20	16	7/0.0192	30	80	1.115	442	766	V59892.1
24	16	7/0.0192	30	80	1.264	529	909	V59891.1

Weights and dimensions are nominal and are subject to applicable industry tolerances.

*TYPE TC-ER, NEC approved for Exposed Run applications of 3 or more conductors



600V TRAY CABLE UL TYPE TC



Pairs & Triads, Individual Plus Overall Shielded Instrumentation

- CONSTRUCTION:** CLASS B STRANDED TINNED COPPER, CROSS-LINKED POLYETHYLENE INSULATION (XLPE) VW-1 PRIMARIES, WITH INDIVIDUAL AND OVERALL ALUMINUM/POLYESTER FOIL SHIELDS, TINNED COPPER DRAIN WIRE. RIPCORD, BLACK FLAME RETARDANT CHLORINATED POLYETHYLENE (CPE) JACKET. UL TYPE TC 600 VOLT TRAY CABLE
- APPLICATIONS:** APPROVED FOR DIRECT BURIAL, FREE AIR OR RACEWAYS, IN WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C WET OR DRY
- COMPLIANCE:** INDUSTRY: UL 1277 TYPE TC-ER*, UL 44, UL 1581, ICEA S-73-532/NEMA WC-57, ICEA S-95-658 / NEMA WC-70, NEC ARTICLE 336. PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS. MEETS COLD BEND TEST OF -40° C. FLAME TESTS: UL1277, UL1685, UL 1581 VW-1, IEEE 1202, CSA FT-4, ICEA T-29-520
- PRINT:** TAPPAN W & C E135319 (UL) TYPE TC-ER/ # PAIRS/TRIADS XX AWG SPOS/STOS CPE JKT DIR. BUR. SUN RES. 90C WET OR DRY 600 VOLTS MADE IN USA
SEQUENTIAL FOOTAGE MARKINGS. ICEA METHOD 1 - PAIRS BLACK AND WHITE, TRIADS BLACK, WHITE, RED. ONE CONDUCTOR IN EACH PAIR/TRIAD IS PRINTED ALPHA-NUMERIC
- OPTIONS AVAILABLE:** OVERALL SHIELDED PAIRS/TRIADS, BARE COPPER CONDUCTORS, CONSULT FACTORY FOR OTHER CONSTRUCTIONS

XLPE PRIMARIES & CPE JACKET - PAIRS & TRIADS - SPOS & STOS

NO. OF PAIRS / TRIADS	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
STOS - INDIVIDUAL AND OVERALL SHIELDED TRIADS 18 AWG								
2	18	7/0.0152	30	60	0.594	40	101	Z40035.1
4	18	7/0.0152	30	60	0.690	78	166	Z40036.1
8	18	7/0.0152	30	80	0.938	153	319	Z40037.1
12	18	7/0.0152	30	80	1.137	229	454	Z40038.1
16	18	7/0.0152	30	80	1.216	304	576	Z40039.1
20	18	7/0.0152	30	80	1.346	379	704	Z40040.1
24	18	7/0.0152	30	80	1.566	454	840	Z40041.1
STOS - INDIVIDUAL AND OVERALL SHIELDED TRIADS 16 AWG								
1	16	7/0.0192	30	45	0.356	29	57	Z50046.1
2	16	7/0.0192	30	60	0.646	64	132	Z50047.1
4	16	7/0.0192	30	60	0.752	123	222	Z50048.1
6	16	7/0.0192	30	60	0.906	182	315	Z50049.1
8	16	7/0.0192	30	80	1.024	241	429	Z50050.1
12	16	7/0.0192	30	80	1.246	360	615	Z50051.1
16	16	7/0.0192	30	80	1.326	478	785	Z50052.1

Weights and dimensions are nominal and are subject to applicable industry tolerances.

*TYPE TC-ER, NEC approved for Exposed Run applications of 3 or more conductors



TRAY CABLE



- **TFN/THHN / PVC**
- **XHHW-2 / PVC**
- **XHHW-2 / CPE**
- **XHHW-2 / LSZH**
- **FEP / FEP 200°C**



600V TRAY CABLE UL TYPE TC



Multi-Conductor, Unshielded Control Cable

- CONSTRUCTION:** CLASS B STRANDED BARE COPPER. PVC/NYLON INSULATION, RIPCORDER. PVC JACKET. JACKET COLOR: BLACK.
- APPLICATIONS:** APPROVED FOR DIRECT BURIAL, WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C DRY, 75°C WET.
- COMPLIANCE:** INDUSTRY: UL 1277 TYPE TC-ER*, UL 1581. NEMA WC-70/ ICEA S-95-658. FLAME TESTS: UL1277, UL1685, IEEE 1202, CSA FT-4, ICEA T-29-520
- PRINT:** TAPPAN W & C E135319 TYPE TC-ER* # C XX AWG PVC-NYLON OR THHN/THWN CDRS. (UL) DIR. BUR. SUN RES. 75C WET OR 90C DRY 600 VOLTS MADE IN USA RoHS
SEQUENTIAL FOOTAGE MARKINGS. COLOR CODED PER ICEA S-73-532 METHOD 1 TABLE E-2
UNLESS NOTED ▲, E-1
- OPTIONS AVAILABLE:** E-1 COLOR CODE, TINNED COPPER CONDUCTORS, CONSULT FACTORY FOR OTHER CONSTRUCTIONS

PVC/NYLON/PVC, CONTROL, UNSHIELDED

NO. OF COND.	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
UNSHIELDED 18 AWG MULTI CONDUCTOR								
2	18	7/.0152	20	45	0.260	10	35	V40003.1
2 FLAT	18	7/.0152	20	45	0.260	10	35	V40135.1
2 ▲	18	7/.0152	20	45	0.260	10	35	V40132.1
3	18	7/.0152	20	45	0.274	15	44	V40030.1
4 ▲	18	7/.0152	20	45	0.296	20	54	V40002.1
4	18	7/.0152	20	45	0.296	20	54	V40109.1
5	18	7/.0152	20	45	0.308	25	62	V40066.1
6	18	7/.0152	20	45	0.340	30	73	V40046.1
7	18	7/.0152	20	45	0.345	38	84	V40133.1
8	18	7/.0152	20	45	0.375	40	91	V40134.1
9	18	7/.0152	20	45	0.383	45	100	V40105.1
12	18	7/.0152	20	45	0.428	60	126	V40047.1
19	18	7/.0152	20	45	0.516	95	187	V40136.1
25	18	7/.0152	20	60	0.655	128	268	Z40048.1
30	18	7/.0152	20	60	0.695	154	310	Z40049.1
37	18	7/.0152	20	60	0.714	186	360	V40137.1
UNSHIELDED 16 AWG MULTI CONDUCTOR								
2	16	7/.0192	20	45	0.280	16	44	V50021.1
2 ▲	16	7/.0192	20	45	0.280	16	44	V50081.1
2 FLAT	16	7/.0192	20	45	0.280	16	44	V50124.1
3	16	7/.0192	20	45	0.296	24	57	V50082.1
4 ▲	16	7/.0192	20	45	0.320	33	70	V50002.1
4	16	7/.0192	20	45	0.320	33	70	V50010.1
5	16	7/.0192	20	45	0.334	41	83	V50125.1
6	16	7/.0192	20	45	0.358	49	96	V50126.1
7	16	7/.0192	20	45	0.375	57	108	V50127.1
8	16	7/.0192	20	45	0.408	65	123	V50128.1
9	16	7/.0192	20	45	0.418	73	135	V50129.1
10	16	7/.0192	20	45	0.436	82	147	V50085.1
12	16	7/.0192	20	45	0.468	98	172	V50130.1
15	16	7/.0192	20	45	0.513	122	210	V50145.1
19	16	7/.0192	20	60	0.596	155	277	V50131.1
25	16	7/.0192	20	60	0.666	204	352	V50132.1
30	16	7/.0192	20	60	0.719	250	423	V50074.1
37	16	7/.0192	20	60	0.784	302	500	V50133.1

Weights and dimensions are nominal and are subject to applicable industry tolerances.

*TYPE TC-ER, NEC approved for Exposed Run applications of 3 or more conductors



600V TRAY CABLE UL TYPE TC



Multi-Conductor, Unshielded Control Cable

CONSTRUCTION:	CLASS B STRANDED BARE COPPER. PVC/NYLON INSULATION, RIPCORDER. PVC JACKET. JACKET COLOR: BLACK.
APPLICATIONS:	APPROVED FOR DIRECT BURIAL, WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C DRY, 75°C WET.
COMPLIANCE:	INDUSTRY: UL 1277 TYPE TC-ER*, UL 1581. NEMA WC-70/ ICEA S-95-658. FLAME TESTS: UL1277, UL1685, IEEE 1202, CSA FT-4, ICEA T-29-520
PRINT:	TAPPAN W & C E135319 TYPE TC-ER* # C XX AWG PVC-NYLON OR THHN/THWN CDRS. (UL) DIR. BUR. SUN RES. 75C WET OR 90C DRY 600 VOLTS MADE IN USA RoHS SEQUENTIAL FOOTAGE MARKINGS. COLOR CODED PER ICEA S-73-532 METHOD 1 TABLE E-2 UNLESS NOTED ▲, E-1
OPTIONS AVAILABLE:	E-1 COLOR CODE, TINNED COPPER CONDUCTORS, CONSULT FACTORY FOR OTHER CONSTRUCTIONS

PVC/NYLON/PVC, CONTROL, UNSHIELDED

NO. OF COND.	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
UNSHIELDED 14 AWG MULTI CONDUCTOR								
2	14	7/.0242	20	45	0.314	26	58	V60005.1
2 FLAT	14	7/.0242	20	45	0.314	25	54	V60057.1
3	14	7/.0242	20	45	0.333	38	76	V60050.1
4	14	7/.0242	20	45	0.361	51	95	V60047.1
5	14	7/.0242	20	45	0.378	64	113	V60051.1
7	14	7/.0242	20	45	0.426	89	150	V60052.1
9	14	7/.0242	20	45	0.476	115	187	V60053.1
12	14	7/.0242	20	60	0.566	153	259	V60054.1
16	14	7/.0242	20	60	0.635	204	333	V60065.1
19	14	7/.0242	20	60	0.681	242	388	V60055.1
25	14	7/.0242	20	60	0.764	319	496	V60058.1
30	14	7/.0242	20	80	0.866	383	621	V60067.1
37	14	7/.0242	20	80	0.943	472	748	V60056.1
UNSHIELDED 12 AWG MULTI CONDUCTOR								
2	12	7/.0305	20	45	0.354	40	78	V70001.1
2 FLAT	12	7/.0305	20	45	0.354	40	78	V70041.1
3	12	7/.0305	20	45	0.376	61	105	V70008.1
3+GRND	12	7/.0305	20	45	0.385	81	131	Z70014.1
4	12	7/.0305	20	45	0.409	81	132	V70031.1
5	12	7/.0305	20	45	0.429	101	159	V70032.1
7	12	7/.0305	20	45	0.486	141	213	V70033.1
9	12	7/.0305	20	60	0.569	182	285	V70042.1
12	12	7/.0305	20	60	0.645	242	368	V70043.1
19	12	7/.0305	20	60	0.781	384	557	V70044.1
25	12	7/.0305	20	80	0.940	515	715	Z70015.1
30	12	7/.0305	20	80	1.030	618	919	Z70016.1
37	12	7/.0305	20	80	1.083	760	1094	V70040.1
UNSHIELDED 10 AWG MULTI CONDUCTOR								
2 FLAT	10	7/.0385	25	45	0.420	63	112	V80007.1
2	10	7/.0385	25	45	0.420	63	112	V80006.1
3	10	7/.0385	25	45	0.448	95	154	V80008.1
3+GRND	10	7/.0385	25	45	0.481	127	196	Z80009.1
4	10	7/.0385	25	45	0.489	127	196	V80009.1
5	10	7/.0385	25	45	0.514	159	237	V80010.1
7	10	7/.0385	25	60	0.615	222	340	V80011.1
9	10	7/.0385	25	60	0.689	285	426	V80012.1
12	10	7/.0385	25	60	0.777	381	552	V80013.1

Weights and dimensions are nominal and are subject to applicable industry tolerances.

*TYPE TC-ER, approved for Exposed Run applications of 3 or more conductors per NEC

1-800-WIRE-911
www.tappanwire.com



600V TRAY CABLE UL TYPE TC



Multi-Conductor, Overall Shielded Control Cable

CONSTRUCTION:	CLASS B STRANDED BARE COPPER. PVC/NYLON INSULATION, ALUMINUM/POLYESTER FOIL SHIELD, TINNED COPPER DRAIN WIRE. RIPCORDER. PVC JACKET. JACKET COLOR: BLACK.
APPLICATIONS:	APPROVED FOR DIRECT BURIAL, WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C DRY, 75°C WET.
COMPLIANCE:	INDUSTRY: UL 1277 TYPE TC-ER*, UL 1581. NEMA WC-70/ ICEA S-95-658. FLAME TESTS: UL1277, UL1685, IEEE 1202, CSA FT-4, ICEA T-29-520
PRINT:	TAPPAN W & C E135319 TYPE TC-ER* # C, XX AWG, PVC-NYLON OR THHN/THWN CDRS. OAS (UL) DIR.BUR.SUN RES. 75C WET OR 90C DRY 600 VOLTS MADE IN USA RoHS SEQUENTIAL FOOTAGE MARKINGS. COLOR CODED PER ICEA S-73-532 METHOD 1 TABLE E-2 UNLESS NOTED ▲, E-1.
OPTIONS AVAILABLE:	E-1 COLOR CODE, TINNED COPPER CONDUCTORS, CONSULT FACTORY FOR OTHER CONSTRUCTIONS

PVC/NYLON/PVC, CONTROL, SHIELDED

NO. OF COND.	COND. SIZE (AWG)	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
OVERALL SHIELDED 18 AWG MULTI CONDUCTOR								
2	18	7/.0152	20	45	0.260	13	39	V40024.1
2▲	18	7/.0152	20	45	0.260	13	39	V40032.1
3	18	7/.0152	20	45	0.274	18	47	V40025.1
3▲	18	7/.0152	20	45	0.274	18	47	V40038.1
4	18	7/.0152	20	45	0.296	23	57	V40045.1
4▲	18	7/.0152	20	45	0.296	23	57	V40049.1
5	18	7/.0152	20	45	0.308	28	67	V40034.1
6	18	7/.0152	20	45	0.350	33	77	V40111.1
7	18	7/.0152	20	45	0.345	38	84	V40035.1
8	18	7/.0152	20	45	0.375	43	95	V40048.1
12	18	7/.0152	20	45	0.428	63	130	V40138.1
37	18	7/.0152	20	60	0.714	189	364	V40139.1
OVERALL SHIELDED 16 AWG MULTI CONDUCTOR								
2	16	7/.0192	20	45	0.280	21	49	V50031.1
2▲	16	7/.0192	20	45	0.280	21	49	V50066.1
3	16	7/.0192	20	45	0.296	30	62	V50041.1
3▲	16	7/.0192	20	45	0.296	30	62	V50056.1
4	16	7/.0192	20	45	0.320	38	75	V50078.1
4▲	16	7/.0192	20	45	0.320	38	75	V50009.1
5	16	7/.0192	20	45	0.334	46	88	V50034.1
6	16	7/.0192	20	45	0.358	54	101	V50068.1
7	16	7/.0192	20	45	0.375	62	114	V50027.1
8	16	7/.0192	20	45	0.408	70	128	V50069.1
9	16	7/.0192	20	45	0.418	78	140	V50028.1
10	16	7/.0192	20	45	0.436	87	152	V50070.1
12	16	7/.0192	20	45	0.468	103	178	V50139.1
19	16	7/.0192	20	60	0.596	160	282	V50030.1
25	16	7/.0192	20	60	0.666	209	357	V50073.1
37	16	7/.0192	20	60	0.784	307	505	V50072.1

Weights and dimensions are nominal and are subject to applicable industry tolerances.

*TYPE TC-ER, approved for Exposed Run applications of 3 or more conductors per NEC.



600V TRAY CABLE UL TYPE TC



Multi-Conductor, Overall Shielded Control Cable

CONSTRUCTION:	CLASS B STRANDED BARE COPPER. PVC/NYLON INSULATION, ALUMINUM/POLYESTER FOIL SHIELD, TINNED COPPER DRAIN WIRE. RIPCORDER. PVC JACKET. JACKET COLOR: BLACK.
APPLICATIONS:	APPROVED FOR DIRECT BURIAL, WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C DRY, 75°C WET.
COMPLIANCE:	INDUSTRY: UL 1277 TYPE TC-ER*, UL 1581. NEMA WC-70/ ICEA S-95-658. FLAME TESTS: UL1277, UL1685, IEEE 1202, CSA FT-4, ICEA T-29-520
PRINT:	TAPPAN W & C E135319 TYPE TC-ER* # C, XX AWG, PVC-NYLON OR THHN/THWN CDRS. OAS (UL) DIR.BUR.SUN RES. 75C WET OR 90C DRY 600 VOLTS MADE IN USA RoHS SEQUENTIAL FOOTAGE MARKINGS. COLOR CODED PER ICEA S-73-532 METHOD 1 TABLE E-2 UNLESS NOTED ▲, E-1.

OPTIONS AVAILABLE: E-1 COLOR CODE, TINNED COPPER CONDUCTORS, CONSULT FACTORY FOR OTHER CONSTRUCTIONS

PVC/NYLON/PVC, CONTROL, SHIELDED

NO. OF COND.	COND. SIZE (AWG)	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
OVERALL SHIELDED 14 AWG MULTI CONDUCTOR								
2	14	7/.0242	20	45	0.314	34	66	V60007.1
2▲	14	7/.0242	20	45	0.314	34	66	V60061.1
3	14	7/.0242	20	45	0.333	46	84	V60013.1
3 +GRND	14	7/.0242	20	45	0.333	59	97	Z60015.1
4	14	7/.0242	20	45	0.361	59	103	V60042.1
5	14	7/.0242	20	45	0.378	72	121	V60015.1
7	14	7/.0242	20	45	0.426	97	158	V60029.1
9	14	7/.0242	20	45	0.476	123	196	V60031.1
12	14	7/.0242	20	60	0.566	161	268	V60032.1
19	14	7/.0242	20	60	0.681	251	396	V60016.1
37	14	7/.0242	20	80	0.943	480	756	V60034.1
OVERALL SHIELDED 12 AWG MULTI CONDUCTOR								
2	12	7/.0305	20	45	0.354	53	91	V70009.1
3	12	7/.0305	20	45	0.376	73	118	V70007.1
3 +GRND	12	7/.0305	20	45	0.376	94	139	V70078.1
4	12	7/.0305	20	45	0.409	94	145	V70034.1
5	12	7/.0305	20	45	0.429	114	172	V70035.1
7	12	7/.0305	20	45	0.486	154	226	V70036.1
9	12	7/.0305	20	60	0.575	195	298	V70037.1
12	12	7/.0305	20	60	0.645	255	381	V70038.1
19	12	7/.0305	20	60	0.781	397	569	V70039.1
37	12	7/.0305	20	80	1.083	760	1088	V70040.1
OVERALL SHIELDED 10 AWG MULTI CONDUCTOR								
2	10	7/.0385	25	45	0.430	68	119	Z80010.1
3	10	7/.0385	25	45	0.460	101	162	Z80011.1
3 +GRND	10	7/.0385	25	45	0.448	147	208	V80035.1
4	10	7/.0385	25	45	0.489	147	219	V80039.1
12	10	7/.0385	25	60	0.781	408	585	V80050.1

Weights and dimensions are nominal and are subject to applicable industry tolerances.

*TYPE TC-ER, approved for Exposed Run applications of 3 or more conductors per NEC.



600V TRAY CABLE UL TYPE TC-ER



Multi-Conductor, Power Cable

CONSTRUCTION:

CLASS B STRANDED BARE COPPER, PVC/NYLON INSULATION INSULATED CONDUCTORS, CABLED WITH STRANDED BARE COPPER GROUND WIRE, BLACK FLAME RETARDANT PVC JACKET. UL TYPE TC 600 VOLT TRAY CABLE.

APPLICATIONS:

APPROVED FOR DIRECT BURIAL, FREE AIR OR RACEWAYS, IN WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C DRY, 75°C WET.

COMPLIANCE:

INDUSTRY: UL 1277 TYPE TC-ER, UL 1581, UL 83 NEC TYPE THHN CONDUCTORS, ICEA S-95-658/ NEMA WC-70, NEC ARTICLE 336, PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS. FLAME TESTS: UL1277, UL1685, UL1581, IEEE 1202, CSA FT-4. RATED OIL RESISTANT, SUNLIGHT RESISTANT, DIRECT BURIAL

PRINT:

TAPPAN W & C E135319 (UL) TYPE TC-ER XX/ C XX/ AWG THHN CDRS PVC JKT DIR. BUR. SUN RES. 90C DRY 75C WET 600 VOLTS MADE IN USA

SEQUENTIAL FOOTAGE MARKINGS. COLOR CODE METHOD 4 - BLACK WITH PRINTED NUMBERS

PVC/NYLON/PVC POWER CABLE

TAPPAN SPEC #	NO. OF COND.	COND. AWG	COND. STRAND	GROUND WIRE AWG	INSULATION THICKNESS INCHES	JACKET THICKNESS INCHES	NOMINAL O.D. INCHES	NET WEIGHT PER MFT
	3	8	7	10	0.036	0.060	0.590	220
	3	6	7	8	0.036	0.060	0.690	403
	3	4	7	8	0.048	0.060	0.890	630
	3	2	7	6	0.048	0.080	1.020	942
	4	8	7	10	0.036	0.060	0.610	295
	4	6	7	8	0.036	0.060	0.780	505
	4	4	7	8	0.048	0.080	0.970	808
	4	2	7	6	0.048	0.080	1.130	1203

Weights and dimensions are nominal and are subject to applicable industry tolerances.



600V TRAY CABLE UL TYPE TC



Multi-Conductor, Unshielded Control Cable

CONSTRUCTION:

CLASS B STRANDED BARE COPPER, CROSS-LINKED POLYETHYLENE INSULATION (XLPE) VW-1 PRIMARIES, RIPCORDER, BLACK FLAME RETARDANT PVC JACKET. UL TYPE TC 600 VOLT TRAY CABLE

APPLICATIONS:

APPROVED FOR DIRECT BURIAL, FREE AIR OR RACEWAYS, IN WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C WET OR DRY

COMPLIANCE:

INDUSTRY: UL 1277 TYPE TC-ER*, UL 44, UL 1581, ICEA S-73-532/NEMA WC-57, ICEA S-95-658 / NEMA WC-70, NEC ARTICLE 336. PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS. FLAME TESTS: UL1277, UL1685, UL 1581 VW-1, IEEE 1202, CSA FT-4, ICEA T-29-520

PRINT:

TAPPAN W & C E135319 (UL) TYPE TC-ER/ XX / C XX AWG PVC JKT DIR. BUR. SUN RES. 90C WET OR DRY 600 VOLTS MADE IN USA

SEQUENTIAL FOOTAGE MARKINGS. COLOR CODED PER ICEA METHOD 1 TABLE E-2 UNLESS NOTED ▲ E-1

OPTIONS AVAILABLE: E-1 COLOR CODE, SHIELDED MULTI-CONDUCTOR, PAIRS & TRIADS, TINNED COPPER CONDUCTORS, CONSULT FACTORY FOR OTHER CONSTRUCTIONS

XLPE PRIMARIES AND PVC JACKET CONTROL, UNSHIELDED

NO. OF COND.	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
UNSHIELDED 16 AWG MULTI CONDUCTOR								
2 FLAT	16	7/0.0192	30	45	0.320	16	49	Z50034.I
3	16	7/0.0192	30	45	0.340	24	63	Z50035.I
4	16	7/0.0192	30	45	0.368	33	77	Z50036.I
5	16	7/0.0192	30	45	0.386	41	91	Z50037.I
7	16	7/0.0192	30	45	0.435	57	119	Z50038.I
9	16	7/0.0192	30	45	0.487	73	148	Z50039.I
12	16	7/0.0192	30	60	0.578	98	206	Z50040.I
15	16	7/0.0192	30	60	0.632	122	249	Z50041.I
19	16	7/0.0192	30	60	0.696	155	305	Z50042.I
25	16	7/0.0192	30	60	0.781	204	387	Z50043.I
29	16	7/0.0192	30	60	0.832	237	441	Z50044.I
37	16	7/0.0192	30	60	0.964	302	586	Z50045.I

Weights and dimensions are nominal and are subject to applicable industry tolerances.

*TYPE TC-ER, NEC approved for Exposed Run applications of 3 or more conductors

600V TRAY CABLE UL TYPE TC



Multi-Conductor, Unshielded Control Cable

CONSTRUCTION:

CLASS B STRANDED BARE COPPER, CROSS-LINKED POLYETHYLENE INSULATION XHHW-2 VW-1 PRIMARIES, RIPCORD. BLACK FLAME RETARDANT PVC JACKET. UL TYPE TC 600 VOLT TRAY CABLE.

APPLICATIONS:

APPROVED FOR DIRECT BURIAL, FREE AIR OR RACEWAYS, IN WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C WET OR DRY

COMPLIANCE:

INDUSTRY: UL 1277 TYPE TC-ER*, UL 44, UL 1581, ICEA S-73-532/NEMA WC-57, ICEA S-95-658/ NEMA WC-70, NEC ARTICLE 336. PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS. FLAME TESTS: UL1277, UL1685, UL1581 VW-1, IEEE 1202, CSA FT-4

PRINT:

TAPPAN W & C E135319 (UL) TYPE TC-ER XX/ C XX/ AWG XHHW-2 CDRS PVC JKT DIR. BUR. SUN RES. 90C WET OR DRY 600 VOLTS MADE IN USA
SEQUENTIAL FOOTAGE MARKINGS. COLOR CODED PER ICEA METHOD 1 TABLE E-2
UNLESS NOTED ▲E-1.

OPTIONS AVAILABLE:

E-1 COLOR CODE, SHIELDED MULTI-CONDUCTOR, PAIRS & TRIADS, BARE COPPER CONDUCTORS, CONSULT FACTORY FOR OTHER CONSTRUCTIONS

XHHW-2 PRIMARIES AND PVC JACKET CONTROL, UNSHIELDED

NO. OF COND.	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
UNSHIELDED 14 AWG MULTI CONDUCTOR								
2 FLAT	14	7/.0242	30	45	0.354	26	63	Z60001.1
2	14	7/.0242	30	45	0.354	26	63	Z60002.1
3	14	7/.0242	30	45	0.376	38	82	Z60003.1
4	14	7/.0242	30	45	0.409	51	102	Z60004.1
5	14	7/.0242	30	45	0.429	64	122	Z60005.1
7	14	7/.0242	30	45	0.486	89	161	Z60006.1
9	14	7/.0242	30	60	0.575	115	218	Z60007.1
12	14	7/.0242	30	60	0.645	153	279	Z60008.1
15	14	7/.0242	30	60	0.707	191	338	Z60009.1
19	14	7/.0242	30	60	0.781	242	417	Z60010.1
25	14	7/.0242	30	80	0.919	319	569	Z60011.1
30	14	7/.0242	30	80	0.992	383	668	Z60012.1
37	14	7/.0242	30	80	1.083	472	804	Z60013.1
UNSHIELDED 12 AWG MULTI CONDUCTOR								
2 FLAT	12	7/.0305	30	45	0.394	40	83	Z70001.1
2	12	7/.0305	30	45	0.394	40	83	Z70002.1
3	12	7/.0305	30	45	0.420	61	111	Z70003.1
4	12	7/.0305	30	45	0.458	81	140	Z70004.1
5	12	7/.0305	30	45	0.481	101	168	Z70005.1
7	12	7/.0305	30	60	0.576	141	242	Z70006.1
9	12	7/.0305	30	60	0.644	182	302	Z70007.1
12	12	7/.0305	30	60	0.725	242	389	Z70008.1
15	12	7/.0305	30	60	0.796	303	474	Z70009.1
19	12	7/.0305	30	80	0.922	384	624	Z70010.1
25	12	7/.0305	30	80	1.034	505	796	Z70011.1
30	12	7/.0305	30	80	1.118	606	938	Z70012.1
37	12	7/.0305	30	80	1.222	747	1135	Z70013.1
UNSHIELDED 10 AWG MULTI CONDUCTOR								
2 FLAT	10	7/.0385	30	45	0.440	63	112	Z80001.1
2	10	7/.0385	30	45	0.440	63	112	Z80002.1
3	10	7/.0385	30	45	0.470	95	153	Z80003.1
4	10	7/.0385	30	45	0.514	127	195	Z80004.1
5	10	7/.0385	30	60	0.570	159	253	Z80005.1
7	10	7/.0385	30	60	0.645	222	338	Z80006.1
9	10	7/.0385	30	60	0.724	285	424	Z80007.1
12	10	7/.0385	30	60	0.817	381	550	Z80008.1

Weights and dimensions are nominal and are subject to applicable industry tolerances.

*TYPE TC-ER, NEC approved for Exposed Run applications of 3 or more conductors

1-800-WIRE-911

www.tappanwire.com



600V TRAY CABLE UL TYPE TC-ER



Multi-Conductor, Power Cable

CONSTRUCTION:

CLASS B STRANDED BARE COPPER, CROSS-LINKED POLYETHYLENE INSULATION (XHHW-2) PRIMARIES, CABLED WITH STRANDED BARE COPPER GROUND WIRE, BLACK FLAME RETARDANT PVC JACKET. UL TYPE TC 600 VOLT TRAY CABLE.

APPLICATIONS:

APPROVED FOR DIRECT BURIAL, FREE AIR OR RACEWAYS, IN WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C WET OR DRY.

COMPLIANCE:

INDUSTRY: UL 1277 TYPE TC-ER, UL 44, UL 1581, ICEA S-73-532/NEMA WC-57, ICEA S-95-658/ NEMA WC-70, NEC ARTICLE 336, UL TYPE XHHW-2. PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS. FLAME TESTS: UL1277, UL1685, UL1581 VW-1, IEEE 1202, CSA FT-4. RATED OIL RESISTANT, SUNLIGHT RESISTANT, DIRECT BURIAL

PRINT:

TAPPAN W & C E135319 (UL) TYPE TC-ER XX/ C XX/ AWG XHHW-2 CDRS PVC JKT DIR. BUR. SUN RES. 90C WET OR DRY 600 VOLTS MADE IN USA

SEQUENTIAL FOOTAGE MARKINGS. COLOR CODE METHOD 4 - BLACK WITH PRINTED NUMBERS

XHHW-2 / PVC JACKET POWER CABLE

TAPPAN SPEC #	NO. OF COND.	COND. AWG	COND. STRAND	GROUND WIRE AWG	INSULATION THICKNESS INCHES	JACKET THICKNESS INCHES	NOMINAL O.D. INCHES	NET WEIGHT PER MFT
	3	8	7	10	0.045	0.060	0.660	330
	3	6	7	8	0.045	0.060	0.745	460
	3	4	7	8	0.045	0.080	0.890	685
	3	2	7	6	0.045	0.080	1.020	1015
	4	8	7	10	0.045	0.060	0.726	410
	4	6	7	8	0.045	0.060	0.820	590
	4	4	7	8	0.045	0.080	0.975	870
	4	2	7	6	0.045	0.080	1.020	1250

Weights and dimensions are nominal and are subject to applicable industry tolerances.



600V TRAY CABLE UL TYPE TC



Multi-Conductor, Unshielded Control Cable

- CONSTRUCTION:** CLASS B STRANDED TINNED COPPER, CROSS-LINKED POLYETHYLENE INSULATION (XLPE) VW-1 PRIMARIES, RIPCORDER, BLACK FLAME RETARDANT CHLORINATED POLYETHYLENE (CPE) JACKET. UL TYPE TC 600 VOLT TRAY CABLE
- APPLICATIONS:** APPROVED FOR DIRECT BURIAL, FREE AIR OR RACEWAYS, IN WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C WET OR DRY
- COMPLIANCE:** INDUSTRY: UL 1277 TYPE TC-ER*, UL 44, UL 1581, ICEA S-73-532/NEMA WC-57, ICEA S-95-658 / NEMA WC-70, NEC ARTICLE 336. PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS. MEETS COLD BEND TEST OF -40°C. FLAME TESTS: UL1277, UL1685, UL 1581 VW-1, IEEE 1202, CSA FT-4, ICEA T-29-520
- PRINT:** TAPPAN W & C E135319 (UL) TYPE TC-ER/ XX / C XX AWG CPE JKT DIR. BUR. SUN RES. 90C WET OR DRY 600 VOLTS MADE IN USA
- SEQUENTIAL FOOTAGE MARKINGS. COLOR CODED PER ICEA METHOD 1 TABLE E-2
UNLESS NOTED ▲ E-1
- OPTIONS AVAILABLE:** E-1 COLOR CODE, SHIELDED MULTI-CONDUCTOR, PAIRS & TRIADS, BARE COPPER CONDUCTORS, CONSULT FACTORY FOR OTHER CONSTRUCTIONS

XLPE PRIMARIES AND CPE JACKET CONTROL, UNSHIELDED

NO. OF COND.	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
UNSHIELDED 16 AWG MULTI CONDUCTOR								
2 FLAT	16	7/.0192	30	45	0.320	16	49	V50149.I
3	16	7/.0192	30	45	0.340	24	63	V50150.I
4	16	7/.0192	30	45	0.368	33	77	V50151.I
5	16	7/.0192	30	45	0.386	41	91	V50152.I
7	16	7/.0192	30	45	0.435	57	119	V50153.I
9	16	7/.0192	30	45	0.487	73	148	V50154.I
12	16	7/.0192	30	60	0.578	98	206	V50155.I
15	16	7/.0192	30	60	0.632	122	249	V50156.I
19	16	7/.0192	30	60	0.696	155	305	V50157.I
25	16	7/.0192	30	60	0.781	204	387	V50158.I
29	16	7/.0192	30	60	0.832	237	441	V50159.I
37	16	7/.0192	30	60	0.964	302	586	V50160.I

Weights and dimensions are nominal and are subject to applicable industry tolerances.

*TYPE TC-ER, NEC approved for Exposed Run applications of 3 or more conductors



600V TRAY CABLE UL TYPE TC



Multi-Conductor, Unshielded Control Cable

CONSTRUCTION:	CLASS B STRANDED TINNED COPPER, CROSS-LINKED POLYETHYLENE INSULATION XHHW-2 VW-1 PRIMARIES, RIPCORD. BLACK FLAME RETARDANT CHLORINATED POLYETHYLENE (CPE) JACKET. UL TYPE TC 600 VOLT TRAY CABLE.
APPLICATIONS:	APPROVED FOR DIRECT BURIAL, FREE AIR OR RACEWAYS, IN WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C WET OR DRY
COMPLIANCE:	INDUSTRY: UL 1277 TYPE TC-ER*, UL 44, UL 1581, ICEA S-73-532/NEMA WC-57, ICEA S-95-658/ NEMA WC-70, NEC ARTICLE 336. PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS. MEETS COLD BEND TEST OF -40° C. FLAME TESTS: UL1277, UL1685, UL1581 VW-1, IEEE 1202, CSA FT-4, ICEA T-29-520
PRINT:	TAPPAN W & C E135319 (UL) TYPE TC-ER XX/ C XX/ AWG XHHW-2 CDRS CPE JKT DIR. BUR. SUN RES. 90C WET OR DRY 600 VOLTS MADE IN USA SEQUENTIAL FOOTAGE MARKINGS. COLOR CODED PER ICEA METHOD 1 TABLE E-2 UNLESS NOTED ▲E-1.
OPTIONS AVAILABLE:	E-1 COLOR CODE, SHIELDED MULTI-CONDUCTOR, PAIRS & TRIADS, BARE COPPER CONDUCTORS, CONSULT FACTORY FOR OTHER CONSTRUCTIONS

XHHW-2 PRIMARIES AND CPE JACKET CONTROL, UNSHIELDED

NO. OF COND.	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
UNSHIELDED 14 AWG MULTI CONDUCTOR								
2 FLAT	14	7/.0242	30	45	0.354	26	63	V60068.1
2 FLAT ▲	14	7/.0242	30	45	0.354	26	63	V60069.1
2	14	7/.0242	30	45	0.354	26	63	V60070.1
3	14	7/.0242	30	45	0.376	38	82	V60071.1
3 ▲	14	7/.0242	30	45	0.376	38	82	V60072.1
4	14	7/.0242	30	45	0.409	51	102	V60073.1
4 ▲	14	7/.0242	30	45	0.409	51	102	V60074.1
5	14	7/.0242	30	45	0.429	64	122	V60075.1
5 ▲	14	7/.0242	30	45	0.429	64	122	V60076.1
7	14	7/.0242	30	45	0.486	89	161	V60077.1
7 ▲	14	7/.0242	30	45	0.486	89	161	V60078.1
9	14	7/.0242	30	60	0.575	115	218	V60079.1
12	14	7/.0242	30	60	0.645	153	279	V60080.1
15	14	7/.0242	30	60	0.707	191	338	V60081.1
19	14	7/.0242	30	60	0.781	242	417	V60082.1
25	14	7/.0242	30	80	0.919	319	569	V60083.1
30	14	7/.0242	30	80	0.992	383	668	V60084.1
37	14	7/.0242	30	80	1.083	472	804	V60085.1
UNSHIELDED 12 AWG MULTI CONDUCTOR								
2 FLAT	12	7/.0305	30	45	0.394	40	83	V70048.1
2 FLAT ▲	12	7/.0305	30	45	0.394	40	83	V70049.1
2	12	7/.0305	30	45	0.394	40	83	V70050.1
3	12	7/.0305	30	45	0.420	61	111	V70051.1
3 ▲	12	7/.0305	30	45	0.420	61	111	V70052.1
4	12	7/.0305	30	45	0.458	81	140	V70053.1
4 ▲	12	7/.0305	30	45	0.458	81	140	V70054.1
5	12	7/.0305	30	45	0.481	101	168	V70055.1
5 ▲	12	7/.0305	30	45	0.481	101	168	V70056.1
7	12	7/.0305	30	60	0.576	141	242	V70057.1
7 ▲	12	7/.0305	30	60	0.576	141	242	V70058.1
9	12	7/.0305	30	60	0.644	182	302	V70059.1
12	12	7/.0305	30	60	0.725	242	389	V70060.1
12 ▲	12	7/.0305	30	60	0.725	242	389	V70061.1
15	12	7/.0305	30	60	0.796	303	474	V70062.1
19	12	7/.0305	30	80	0.922	384	624	V70063.1
25	12	7/.0305	30	80	1.034	505	796	V70064.1
30	12	7/.0305	30	80	1.118	606	938	V70065.1
37	12	7/.0305	30	80	1.222	747	1135	V70066.1

Weights and dimensions are nominal and are subject to applicable industry tolerances.

*TYPE TC-ER, NEC approved for Exposed Run applications of 3 or more conductors



600V TRAY CABLE UL TYPE TC



Multi-Conductor, Unshielded Control Cable

- CONSTRUCTION:** CLASS B STRANDED TINNED COPPER, CROSS-LINKED POLYETHYLENE INSULATION XHHW-2 VW-1 PRIMARIES, RIPCORD. BLACK FLAME RETARDANT CHLORINATED POLYETHYLENE (CPE) JACKET. UL TYPE TC 600 VOLT TRAY CABLE.
- APPLICATIONS:** APPROVED FOR DIRECT BURIAL, FREE AIR OR RACEWAYS, IN WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C WET OR DRY
- COMPLIANCE:** INDUSTRY: UL 1277 TYPE TC-ER*, UL 44, UL 1581, ICEA S-73-532/NEMA WC-57, ICEA S-95-658/ NEMA WC-70, NEC ARTICLE 336. PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS. MEETS COLD BEND TEST OF -40° C. FLAME TESTS: UL1277, UL1685, UL1581 VW-1, IEEE 1202, CSA FT-4, ICEA T-29-520
- PRINT:** TAPPAN W & C E135319 (UL) TYPE TC-ER XX/ C XX/ AWG XHHW-2 CDRS CPE JKT DIR. BUR. SUN RES. 90C WET OR DRY 600 VOLTS MADE IN USA
SEQUENTIAL FOOTAGE MARKINGS. COLOR CODED PER ICEA METHOD 1 TABLE E-2
UNLESS NOTED ▲E-1.
- OPTIONS AVAILABLE:** E-1 COLOR CODE, SHIELDED MULTI-CONDUCTOR, PAIRS & TRIADS, BARE COPPER CONDUCTORS, CONSULT FACTORY FOR OTHER CONSTRUCTIONS

XHHW-2 PRIMARIES AND CPE JACKET CONTROL, UNSHIELDED

NO. OF COND.	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
UNSHIELDED 10 AWG MULTI CONDUCTOR								
2 FLAT	10	7/.0385	30	45	0.440	63	112	V80015.1
2 FLAT▲	10	7/.0385	30	45	0.440	63	112	V80016.1
2	10	7/.0385	30	45	0.440	63	112	V80017.1
3	10	7/.0385	30	45	0.470	95	153	V80018.1
3▲	10	7/.0385	30	45	0.470	95	153	V80019.1
4	10	7/.0385	30	45	0.514	127	195	V80020.1
4▲	10	7/.0385	30	45	0.514	127	195	V80021.1
5	10	7/.0385	30	60	0.570	159	253	V80022.1
5▲	10	7/.0385	30	60	0.570	159	253	V80023.1
7	10	7/.0385	30	60	0.645	222	338	V80024.1
7▲	10	7/.0385	30	60	0.645	222	338	V80025.1
9	10	7/.0385	30	60	0.724	285	424	V80026.1
12	10	7/.0385	30	60	0.817	381	550	V80027.1

Weights and dimensions are nominal and are subject to applicable industry tolerances.

*TYPE TC-ER, NEC approved for Exposed Run applications of 3 or more conductors

**600V TRAY CABLE
UL TYPE TC**



Multi-Conductor, Overall Shielded Control Cable

- CONSTRUCTION:** CLASS B STRANDED TINNED COPPER, CROSS-LINKED POLYETHYLENE INSULATION (XLPE) VW-1, ALUMINUM/POLYESTER FOIL SHIELD, TINNED COPPER DRAIN WIRE. RIPCORD. BLACK FLAME BLACK RETARDANT CHLORINATED POLYETHYLENE (CPE) JACKET. UL TYPE TC 600 VOLT TRAY CABLE.
- APPLICATIONS:** APPROVED FOR DIRECT BURIAL, FREE AIR OR RACEWAYS, IN WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C WET OR DRY
- COMPLIANCE:** INDUSTRY: UL 1277 TYPE TC-ER*, UL44, UL 1581, ICEA S-73-532/NEMA WC-57, ICEA S-95-658/ NEMA WC-70, NEC ARTICLE 336. PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS. MEETS COLD BEND TEST OF -40°C. FLAME TESTS: UL1277, UL1685, UL1581 VW-1, IEEE 1202, CSA FT-4, ICEA T-29-520
- PRINT:** TAPPAN W & C E135319 (UL) TYPE TC-ER/ XX / C XX AWG OAS CPE JKT DIR. BUR. SUN RES. 90C WET OR DRY 600 VOLTS MADE IN USA
SEQUENTIAL FOOTAGE MARKINGS. COLOR CODED PER ICEA METHOD 1 TABLE E-2
UNLESS NOTED ▲ E-1.
- OPTIONS AVAILABLE:** E-1 COLOR CODE, NON-SHIELDED MULTI-CONDUCTOR, OVERALL AND INDIVIDUAL & OVERALL SHIELDED PAIRS & TRIADS, BARE COPPER CDRS,CONSULT FACTORY FOR OTHER CONSTRUCTIONS

XLPE PRIMARIES AND CPE JACKET, CONTROL, OVERALL SHIELDED

NO. OF COND.	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
OVERALL SHIELDED 18 AWG MULTI CONDUCTOR								
2	18	7/0152	30	45	0.300	13	43	V40154.I
3	18	7/0152	30	45	0.318	18	53	V40155.I
4	18	7/0152	30	45	0.344	23	64	V40156.I
OVERALL SHIELDED 16 AWG MULTI CONDUCTOR								
2	16	7/0192	30	45	0.320	21	54	V50162.I
3	16	7/0192	30	45	0.340	30	68	V50163.I
4	16	7/0192	30	45	0.368	38	82	V50164.I

Weights and dimensions are nominal and are subject to applicable industry tolerances.

*TYPE TC-ER, NEC approved for Exposed Run applications of 3 or more conductors



600V TRAY CABLE UL TYPE TC



Multi-Conductor, Overall Shielded Control Cable

CONSTRUCTION:	CLASS B STRANDED TINNED COPPER, CROSS-LINKED POLYETHYLENE INSULATION XHHW-2 VW-1, ALUMINUM/POLYESTER FOIL SHIELD, TINNED COPPER DRAIN WIRE. RIPCORD. BLACK FLAME BLACK RETARDANT CHLORINATED POLYETHYLENE (CPE) JACKET. UL TYPE TC 600 VOLT TRAY CABLE.
APPLICATIONS:	APPROVED FOR DIRECT BURIAL, FREE AIR OR RACEWAYS, IN WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C WET OR DRY
COMPLIANCE:	INDUSTRY: UL 1277 TYPE TC-ER*, UL44, UL 1581, ICEA S-73-532/NEMA WC-57, ICEA S-95-658/ NEMA WC-70, NEC ARTICLE 336. PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS. MEETS COLD BEND TEST OF -40°C. FLAME TESTS: UL1277, UL1685, UL1581 VW-1, IEEE 1202, CSA FT-4, ICEA T-29-520
PRINT:	TAPPAN W & C E135319 (UL) TYPE TC-ER XX/ C XX / AWG XHHW-2 CDRS. OAS CPE JKT DIR. BUR. SUN RES. 90C WET OR DRY 600 VOLTS MADE IN USA SEQUENTIAL FOOTAGE MARKINGS. COLOR CODED PER ICEA METHOD 1 TABLE E-2 UNLESS NOTED ▲ E-1.
OPTIONS AVAILABLE:	E-1 COLOR CODE, NON-SHIELDED MULTI-CONDUCTOR, OVERALL AND INDIVIDUAL & OVERALL SHIELDED PAIRS & TRIADS, BARE COPPER CDRS,CONSULT FACTORY FOR OTHER CONSTRUCTIONS

XHHW-2 PRIMARIES AND CPE JACKET, CONTROL, OVERALL SHIELDED

NO. OF COND.	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
OVERALL SHIELDED 14 AWG MULTI CONDUCTOR								
2	14	7/.0242	30	45	0.354	34	71	V60086.1
3	14	7/.0242	30	45	0.376	46	90	V60087.1
4	14	7/.0242	30	45	0.409	59	111	V60088.1
5	14	7/.0242	30	45	0.429	72	130	V60089.1
7	14	7/.0242	30	45	0.486	97	170	V60090.1
9	14	7/.0242	30	60	0.575	123	226	V60091.1
12	14	7/.0242	30	60	0.645	161	287	V60092.1
19	14	7/.0242	30	60	0.781	251	425	V60093.1
25	14	7/.0242	30	80	0.919	327	577	V60094.1
30	14	7/.0242	30	80	0.992	391	676	V60095.1
37	14	7/.0242	30	80	1.083	480	812	V60096.1
OVERALL SHIELDED 12 AWG MULTI CONDUCTOR								
2	12	7/.0305	30	45	0.394	53	96	V70067.1
3	12	7/.0305	30	45	0.420	73	124	V70068.1
4	12	7/.0305	30	45	0.458	94	153	V70069.1
5	12	7/.0305	30	45	0.481	114	181	V70070.1
7	12	7/.0305	30	60	0.576	154	255	V70071.1
9	12	7/.0305	30	60	0.644	195	315	V70072.1
12	12	7/.0305	30	60	0.725	255	401	V70073.1
19	12	7/.0305	30	80	0.922	397	637	V70074.1
25	12	7/.0305	30	80	1.034	568	809	V70075.1
30	12	7/.0305	30	80	1.118	619	951	V70076.1
37	12	7/.0305	30	80	1.222	760	1148	V70077.1
OVERALL SHIELDED 10 AWG MULTI CONDUCTOR								
2	10	7/.0385	30	45	0.440	84	132	V80028.1
3	10	7/.0385	30	45	0.470	115	173	V80029.1
4	10	7/.0385	30	45	0.514	147	216	V80030.1
5	10	7/.0385	30	60	0.570	179	273	V80031.1
7	10	7/.0385	30	60	0.645	242	359	V80032.1
9	10	7/.0385	30	60	0.724	306	445	V80033.1
12	10	7/.0385	30	60	0.817	401	571	V80034.1

Weights and dimensions are nominal and are subject to applicable industry tolerances.

*TYPE TC-ER, NEC approved for Exposed Run applications of 3 or more conductors



600V TRAY CABLE UL TYPE TC-ER



Multi-Conductor, Power Cable

CONSTRUCTION:

CLASS B STRANDED TINNED COPPER, CROSS-LINKED POLYETHYLENE INSULATION (XHHW-2) PRIMARIES, CABLED WITH STRANDED TINNED COPPER GROUND WIRE, BLACK FLAME RETARDANT CPE JACKET. UL TYPE TC 600 VOLT TRAY CABLE.

APPLICATIONS:

APPROVED FOR DIRECT BURIAL, FREE AIR OR RACEWAYS, IN WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C WET OR DRY.

COMPLIANCE:

INDUSTRY: UL 1277 TYPE TC-ER, UL 44, UL 1581, ICEA S-73-532/NEMA WC-57, ICEA S-95-658/ NEMA WC-70, NEC ARTICLE 336, UL TYPE XHHW-2. PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS. FLAME TESTS: UL1277, UL1685, UL1581 VW-1, IEEE 1202, CSA FT-4. RATED OIL RESISTANT, SUNLIGHT RESISTANT, DIRECT BURIAL

PRINT:

TAPPAN W & C E135319 (UL) TYPE TC-ER XX/ C XX/ AWG XHHW-2 CDRS CPE JKT DIR. BUR. SUN RES. 90C WET OR DRY 600 VOLTS MADE IN USA

SEQUENTIAL FOOTAGE MARKINGS. COLOR CODE METHOD 4 - BLACK WITH PRINTED NUMBERS

XHHW-2 / CPE JACKET – POWER CABLE

TAPPAN SPEC #	NO. OF COND.	COND. AWG	COND. STRAND	GROUND WIRE AWG	INSULATION THICKNESS INCHES	JACKET THICKNESS INCHES	NOMINAL O.D. INCHES	NET WEIGHT PER MFT
	3	8	7	10	0.045	0.060	0.660	355
	3	6	7	8	0.045	0.060	0.745	528
	3	4	7	8	0.045	0.080	0.890	745
	3	2	7	6	0.045	0.080	1.020	1050
	4	8	7	10	0.045	0.060	0.726	435
	4	6	7	8	0.045	0.060	0.820	620
	4	4	7	8	0.045	0.080	0.975	900
	4	2	7	6	0.045	0.080	1.020	1290

Weights and dimensions are nominal and are subject to applicable industry tolerances.



600V TRAY CABLE UL TYPE TC



Multi-Conductor, Unshielded Control Cable

CONSTRUCTION:	CLASS B STRANDED TINNED COPPER, CROSS-LINKED POLYOLEFIN INSULATION XHHW-2 PRIMARIES, RIPCORD. BLACK FLAME RETARDANT, SUNLIGHT RESISTANT, LOW SMOKE, ZERO-HALOGEN POLYOLEFIN JACKET. UL TYPE TC-LS-ER* 600 VOLT TRAY CABLE.
APPLICATIONS:	APPROVED FOR DIRECT BURIAL, FREE AIR OR RACEWAYS, IN WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C WET OR DRY
COMPLIANCE:	INDUSTRY: UL 1277 TYPE TC-LS-ER*, UL 44, UL 1581, PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS. MEETS COLD BEND TEST OF -30° C. FLAME TESTS: UL1277, UL1685, UL1581, IEEE 1202
PRINT:	TAPPAN W & C E135319 (UL) TYPE TC-LS-ER* XX/ C XX/ AWG XHHW-2 CDRS LSZH JKT DIR. BUR. SUN RES. 90C WET OR DRY 600 VOLTS MADE IN USA SEQUENTIAL FOOTAGE MARKINGS. COLOR CODED PER ICEA METHOD 1 TABLE E-2 UNLESS NOTED ▲ E-1.
OPTIONS AVAILABLE:	E-1 COLOR CODE, SHIELDED MULTI-CONDUCTOR, PAIRS & TRIADS, BARE COPPER CONDUCTORS, CONSULT FACTORY FOR OTHER CONSTRUCTIONS

XHHW-2 PRIMARIES AND LSZH JACKET CONTROL, UNSHIELDED

NO. OF COND.	COND. SIZE (AWG)	STOCK ITEM	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
UNSHIELDED 14 AWG MULTI CONDUCTOR									
2 FLAT	14		7/.0242	30	45	0.354	26	63	
2	14		7/.0242	30	45	0.354	26	63	
3	14		7/.0242	30	45	0.376	38	82	
4	14		7/.0242	30	45	0.409	51	102	
5	14		7/.0242	30	45	0.429	64	122	
7	14		7/.0242	30	45	0.486	89	161	
9	14		7/.0242	30	60	0.575	115	218	
12	14		7/.0242	30	60	0.645	153	279	
15	14		7/.0242	30	60	0.707	191	338	
19	14		7/.0242	30	60	0.781	242	417	
25	14		7/.0242	30	80	0.919	319	569	
30	14		7/.0242	30	80	0.992	383	668	
37	14		7/.0242	30	80	1.083	472	804	
UNSHIELDED 12 AWG MULTI CONDUCTOR									
2 FLAT	12		7/.0305	30	45	0.394	40	83	
2	12		7/.0305	30	45	0.394	40	83	
3	12		7/.0305	30	45	0.420	61	111	
4	12		7/.0305	30	45	0.458	81	140	
5	12		7/.0305	30	45	0.481	101	168	
7	12		7/.0305	30	60	0.576	141	242	
9	12		7/.0305	30	60	0.644	182	302	
12	12		7/.0305	30	60	0.725	242	389	
15	12		7/.0305	30	60	0.796	303	474	
19	12		7/.0305	30	80	0.922	384	624	
25	12		7/.0305	30	80	1.034	505	796	
30	12		7/.0305	30	80	1.118	606	938	
37	12		7/.0305	30	80	1.222	747	1135	
UNSHIELDED 10 AWG MULTI CONDUCTOR									
2 FLAT	10		7/.0385	30	45	0.440	63	112	
2	10		7/.0385	30	45	0.440	63	112	
3	10		7/.0385	30	45	0.470	95	153	
4	10		7/.0385	30	45	0.514	127	195	
5	10		7/.0385	30	60	0.570	159	253	
7	10		7/.0385	30	60	0.645	222	338	
9	10		7/.0385	30	60	0.724	285	424	
10	10		7/.0385	30	60	0.771	333	487	
12	10		7/.0385	30	60	0.817	381	550	

Weights and dimensions are nominal and are subject to applicable industry tolerances.

*TYPE TC-ER, NEC approved for Exposed Run applications of 3 or more conductors

1-800-WIRE-911

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**600V TRAY CABLE
UL TYPE TC-ER
LSZH (LOW SMOKE ZERO HALOGEN)**



Multi-Conductor, Power Cable

CONSTRUCTION:

CLASS B STRANDED TINNED COPPER, CROSS-LINKED POLYETHYLENE INSULATION (XHHW-2) PRIMARIES, CABLED WITH STRANDED TINNED COPPER GROUND WIRE, BLACK FLAME RETARDANT LOW SMOKE ZERO HALOGEN POLYOLEFIN JACKET. UL TYPE TC 600 VOLT TRAY CABLE.

APPLICATIONS:

APPROVED FOR DIRECT BURIAL, FREE AIR OR RACEWAYS, IN WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C WET OR DRY.

COMPLIANCE:

INDUSTRY: UL 1277 TYPE TC-LS-ER, UL 44, UL 1581, ICEA S-73-532/NEMA WC-57, ICEA S-95-658/ NEMA WC-70, NEC ARTICLE 336, UL TYPE XHHW-2. PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS. FLAME TESTS: UL1277, UL1685, UL1581 VW-1, IEEE 1202, CSA FT-4. RATED OIL RESISTANT, SUNLIGHT RESISTANT, DIRECT BURIAL

PRINT:

TAPPAN W & C E135319 (UL) TYPE TC-LS-ER XX/ C XX/ AWG XHHW-2 CDRS LSZH JKT DIR. BUR. SUN RES. 90C WET OR DRY 600 VOLTS MADE IN USA

SEQUENTIAL FOOTAGE MARKINGS. COLOR CODE METHOD 4 - BLACK WITH PRINTED NUMBERS

XHHW-2 / LOW SMOKE ZERO HALOGEN POLY JACKET – POWER CABLE

TAPPAN SPEC #	NO. OF COND.	COND. AWG	COND. STRAND	GROUND WIRE AWG	INSULATION THICKNESS INCHES	JACKET THICKNESS INCHES	NOMINAL O.D. INCHES	NET WEIGHT PER MFT
	3	8	7	10	0.045	0.060	0.630	298
	3	6	7	8	0.045	0.060	0.745	450
	3	4	7	8	0.045	0.080	0.890	665
	3	2	7	6	0.045	0.080	1.020	1015
	4	8	7	10	0.045	0.060	0.726	410
	4	6	7	8	0.045	0.060	0.820	590
	4	4	7	8	0.045	0.080	0.975	790
	4	2	7	6	0.045	0.080	1.020	1210

Weights and dimensions are nominal and are subject to applicable industry tolerances.



600V TRAY CABLE UL TYPE TC



Multi-Conductor, Unshielded Control Cable

CONSTRUCTION:

CLASS B STRANDED TINNED COPPER, FEP INSULATION, RIPCORD. BLACK FLAME RETARDANT FEP 200°C JACKET. UL TYPE TC 600 VOLT TRAY CABLE.

APPLICATIONS:

SUNLIGHT & WEATHER RESISTANT, NON-STICK CHARACTERISTICS, HEAT RESISTANCE TO 200°C DRY.

COMPLIANCE:

INDUSTRY: UL 1277 TYPE TC, NEC 336. PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS. FLAME TESTS: IEEE 383, AND PASSES UL VW-1

PRINT:

TAPPAN W & C E135319 (UL) TYPE TC XX/ C XX/ AWG FEP JKT SUN RES. 200C DRY 600 VOLTS MADE IN USA

SEQUENTIAL FOOTAGE MARKINGS. COLOR CODED PER ICEA METHOD 1 TABLE E-2.

OPTIONS AVAILABLE:

E-1 COLOR CODE, SHIELDED MULTI-CONDUCTOR, PAIRS & TRIADS, BARE COPPER CONDUCTORS, CONSULT FACTORY FOR OTHER CONSTRUCTIONS

FEP PRIMARIES AND FEP JACKET – CONTROL, UNSHIELDED 200 °C

NO. OF COND.	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
UNSHIELDED 16 AWG MULTI CONDUCTOR								
2	16	7/.0192	20	45	0.278	24	53	
3	16	7/.0192	20	45	0.304	24	71	
4	16	7/.0192	20	45	0.319	33	80	
6	16	7/.0192	20	45	0.373	41	110	
7	16	7/.0192	20	45	0.465	57	119	
12	16	7/.0192	20	60	0.587	98	204	
UNSHIELDED 14 AWG MULTI CONDUCTOR								
2	14	7/.0242	20	45	0.304	26	66	
3	14	7/.0242	20	45	0.328	38	84	
6	14	7/.0242	20	45	0.410	64	146	
7	14	7/.0242	20	45	0.410	89	162	
UNSHIELDED 12 AWG MULTI CONDUCTOR								
2	12	7/.0305	20	45	0.340	40	66	
4	12	7/.0305	20	45	0.385	81	141	
5	12	7/.0305	20	45	0.420	101	170	
7	12	7/.0305	20	45	0.455	141	223	
12	12	7/.0305	20	60	0.633	242	388	
19	12	7/.0305	20	60	0.715	384	575	

Weights and dimensions are nominal and are subject to applicable industry tolerances.



VFD –VARIABLE FREQUENCY DRIVE CABLE



- . XHHW-2 / PVC MULTI-
CONDUCTOR SHIELDED
CONTROL CABLE WITH FOIL
& TINNED COPPER BRAID
SHIELD**
- . XHHW-2 / PVC MULTI-
CONDUCTOR SHIELDED
CONTROL CABLE WITH BARE
COPPER TAPE SHIELD**



TAPPAN WIRE & CABLE ANNOUNCES:

“ A NEW and IMPROVED VFD CABLE ”

APPROVALS & FEATURES	COMPETITION	TAPPAN
UL STANDARD 1277, TYPE TC-ER, 90°C, 600V, SUN RES, DIR. BUR.	X	X
UL 1000 VOLT FLEXIBLE MOTOR SUPPLY CABLE	X	X
85% TINNED COPPER BRAID SHIELD & FOIL SHIELD 100% COVERAGE	NOT ALL	X
XLP INSULATION, 14 & 12 AWG (RHW-2), 10 - 2 AWG (XHHW-2)	X	X
FLAME TESTS: UL 1581 VERTICAL TRAY, IEEE 1202, CSA c(UL) FT-4	X	X
CSA AWM I/II A/B XHHW-2 - RHW-2	X	X
VERY FLEXIBLE TINNED COPPER CONDUCTORS	NOT ALL	X
OIL RESISTANT - UL OIL I & II	NONE LISTED	X
TEMPERATURE RANGE: -25°C TO +90°C	X	X
-40°C UL COLD BEND	NONE LISTED	X
CLASS I & II DIVISION 2 HAZARDOUS LOCATIONS	X	X
RoHS	X	X
CE	X	X

Compare our cable to what you are currently buying. **Tappan's VFD Cable offers:** Flexibility, UL Oil I & II, -40°C Cold Bend Test, WTTC, (Wind Turbine Tray Cable requirement) - ***all at a competitive price.***



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EXPLORE OUR CABLE-BILITIES®™



VFD CABLE SELECTION GUIDE

Based on Motor HP*

AWG	230V/ 3ph	460V/3ph	575/3ph
16	1/4 to 3HP	10 HP	10 HP
14	5 HP	10 HP	15 HP
12	7 1/2 HP	15 HP	20 HP
10	10 HP	20 HP	30 HP
8	15 HP	30 HP	40 HP
6	20 HP	40 HP	50 HP
4	25 HP	50 HP	60 HP
2	40 HP	75 HP	100 HP

	VFD with Signal Pair		
16	1/4 to 3HP	7 1/2 HP	10 HP
14	5 HP	10 HP	10 HP
12	5 HP	10 HP	15 HP
10	7 1/2 HP	15 HP	20 HP

* Values based on Typical Full Load Current (FLC) ratings of three phase AC motors as published in NEC Table 430.250 (2005) Multiplied by 125% per NEC article 430-22 (A) (2005). The ampacity ratings of the cables are based on NEC Table 310.16 (2005), for 90 deg Crated conductors. The VFD w/signal pair ampacity ratings were de-rated to 80% per NEC table 310.15 (B)(2)(a)(2005) due to increased number of current carrying conductors included in these cables. Please consult drive/motor manufacturers for exact FLC ratings as well as any temperature deratings that may apply. NEC ampacity interpretations are subject to user's local authority having jurisdiction.

Contact **Tappan Wire & Cable** for more information:

100 Bradley Parkway, Blauvelt, NY 10913 Fax: (845) 353-9315

www.tappanwire.com

1-800-WIRE-911



TAPPAN Encoder, Signal and Brake Cables & Microprocessor Power Cables

TAPPAN is your cable source for Encoder applications. Information about the speed and position of the motor is fed to the microprocessor by the Encoder. The Encoder is especially important where dynamic braking is utilized. **TAPPAN** has Encoder cables for low temperature as well as high temperature and harsh environments.

Encoder Cables

Construction	60°C	150°C / 200°C
2 pr 24 AWG	L19887	K19998 (150°C)
3 pr 24 AWG	L19886	T19982 (200°C)
4 pr 24 AWG	L19888	K19990 (150°C)
4 pr 20 AWG	L39995	Call 1-800-WIRE-911

TAPPAN's Signal and Brake application cables are available in a wide range of ratings. The most popular designs are listed below. These cables are also suitable for most thermal contact applications. VFD/Flexible Motor Supply Cables with integral signal pairs are also available. Call **TAPPAN** for **VFD** Cables with the signal pair cabled in with the VFD cable elements.

Signal Cables

*(also for **Brake** applications & **Thermal Contact** applications)*

Construction	Rating	TAPPAN Spec. Number
1 pr 16 AWG Shielded	PLTC 105°C PVC / PVC	U50058
1 pr 16 AWG Shielded	TC TFFN Type PVC	V50031
1 pr 16 AWG Shielded	PLTC XLPE / CPE	V50058
1 pr 16 AWG Shielded	200°C FEP/FEP - CMP	T50036

Shielded Power Supply Cables

Construction	60°C	200°C
1 pr 18 AWG ; 85% Braid	A40123	T40038

Contact **TAPPAN Wire & Cable** for more information:

100 Bradley Parkway, Blauvelt, NY 10913 Fax: (845) 353-9315

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1-800-WIRE-911

1000V FLEXIBLE MOTOR SUPPLY
600V TRAY CABLE
UL TYPE TC-ER



Variable Frequency Drive (VFD)
XLPE INSULATION –COPOLYMER JACKET
TINNED COPPER BRAID
Multi-Conductor Shielded Cable



CONSTRUCTION:

(3) STRANDED TINNED COPPER CIRCUIT CONDUCTORS PLUS (1) FULL SIZE INSULATED GROUND WIRE (4/C CABLE) PLUS DOUBLE SIDED ALUMINUM FOIL TAPE SHIELD PLUS (1) FULL SIZE DRAIN WIRE UNDER SHIELD TAPE PLUS TINNED COPPER BRAID (85%) OVER SHIELD TAPE JACKET
> CIRCUIT CONDUCTORS: SIZE PER TABLE, XLPE INSULATION, BLACK W/PRINTED NUMBERS
> GROUND WIRE: SAME SIZE AS CIRCUIT COND. ; PVC INSULATION - GREEN W/YELLOW STRIPE
> DRAIN WIRE: SAME SIZE AS CIRCUIT CONDUCTORS, SEGMENTED AND SYMMETRICAL FOR 8 AWG AND LARGER ; NUMBER SIZE AND STRAND PER TABLE; UNDER FOIL TAPE
> FOIL TAPE: DOUBLE SIDED ALUMINUM FOIL TAPE, POLYESTER REINFORCED FOR STRENGTH
> BRAID: TINNED COPPER, 85% COVERAGE; OVER FOIL TAPE
> COPOLYMER JACKET

APPLICATIONS:

APPROVED FOR DIRECT BURIAL, FREE AIR OR RACEWAYS, IN WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, -40°C UL COLD BEND, OIL I & II, CLASS 1 DIV 2, RATED 90°C WET OR DRY, UL 1000 VOLTS FLEXIBLE MOTOR SUPPLY CABLE
> UL 2277; 1000 VOLT RMS FLEXIBLE MOTOR SUPPLY CABLE; WTTTC
> UL 1277; 600 VOLT RMS TYPE TC-ER UNLISTED SINGLES
> CSA SPECIFICATION: 1000V AWM I/II A/B
> NEC ARTICLE 336 - ER

COMPLIANCE:

INDUSTRY: UL 1277 TYPE TC-ER, UL 2277 FLEXIBLE MOTOR SUPPLY and WTTTC; UL 44, UL 1581, ICEA S-73-532/NEMA WC-57, ICEA S-95-658/ NEMA WC-70, NEC ARTICLE 336. PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS, OIL RES I & II -40°C UL COLD BEND. FLAME TESTS: UL1277, UL1685, UL1581 VW-1, IEEE 1202, CSA

PRINT:

TAPPAN W & C E135319 (UL) TYPE TC-ER XX/ C XX/ AWG XLPE CDRS 90C WET OR DRY 600V DIR. BUR. SUN. RES. -40C UL COLD BEND OIL I & II CLASS 1 DIV 2 c(UL) FT-4 VFD 1000V FLEXIBLE MOTOR SUPPLY CABLE MADE IN USA

SEQUENTIAL FOOTAGE MARKINGS. COLOR CODE - BLACK WITH PRINTED NUMBERS

YMER JACKET, FOIL & BRAID SHIELD

TAPPAN SPEC #	NO. OF COND. INCLUDING INS. GROUND	COND. AWG	COND. STRAND	INSULATION THICKNESS	NO. OF DRAIN WIRES	DRAIN WIRE AWG AND STRAND	NOMINAL O.D. INCHES	NET WEIGHT PER MFT
VARIABLE FREQUENCY DRIVE CABLE WITHOUT BRAKE PAIR								
H91949.I	4	16	26/30	.045"	1	16-(26/30)	0.535	164
H91950.I	4	14	41/30	.045"	1	14 (41/30)	0.575	229
H91870.I	4	12	65/30	.045"	1	12 (65/30)	0.630	247
H91951.I	4	10	105/30	.045"	1	10 (105/30)	0.721	354
H91954.I	4	8	7 x 19 x 29	.060"	4	14 (41/30)	0.928	658
H91957.I	4	6	7 x 19 x 27	.060"	4	12 (65/30)	1.009	902
H91960.I	4	4	7 x 19 x 25	.060"	4	10 (105/30)	1.164	1244
H91963.I	4	2	7 x 19 x 23	.060"	4	8 (133/29)	1.322	1772

Weights and dimensions are nominal and are subject to applicable industry tolerances.

Picture representative of product family.

1000V FLEXIBLE MOTOR SUPPLY /
600V TRAY CABLE
UL TYPE TC-ER



Variable Frequency Drive (VFD)
XLPE-COPOLYMER JACKET – COPPER TAPE SHIELD
Multi-Conductor, Shielded Cable



CONSTRUCTION:

3/C CLASS B STRANDED TINNED COPPER, CROSS-LINKED POLYETHYLENE INSULATION PRIMARIES, CABLED WITH THREE STRANDED BARE COPPER GROUNDS, .005" BARE COPPER TAPE SHIELD (50% OVERLAP), RIPCORD, BLACK FLAME RETARDANT COPOLYMER JACKET.

APPLICATIONS:

APPROVED FOR DIRECT BURIAL, FREE AIR OR RACEWAYS, IN WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, -40°C UL COLD BEND, OIL I & II, CLASS 1, DIV 2, RATED 90°C WET OR DRY, UL 1000 VOLTS FLEXIBLE MOTOR SUPPLY CABLE
> UL 2277; 1000 VOLT RMS FLEXIBLE MOTOR SUPPLY CABLE
> UL 1277; 600 VOLT RMS TYPE TC-ER XHHW-2 LISTED SINGLES
> CSA SPECIFICATION: 600V AWM I/II A/B
> NEC ARTICLE 336 -ER

COMPLIANCE:

INDUSTRY: UL 1277 TYPE TC-ER, UL 2277 FLEXIBLE MOTOR SUPPLY. UL 44, UL 1581, ICEA S-73-532/NEMA WC-57, ICEA S-95-658/ NEMA WC-70, NEC ARTICLE 336. PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS, OIL I & II. FLAME TESTS: UL1277, UL1685, UL1581 VW-1, IEEE 1202, CSA FT-4. RATED OIL RESISTANT, SUNLIGHT RESISTANT, DIRECT BURIAL, -40°C UL COLD BEND

PRINT:

TAPPAN W & C E135319 (UL) TYPE TC-ER XX/ C XX/ AWG XLPE CDRS 90C WET OR DRY 600V DIR. BUR. SUN. RES. -40C UL COLD BEND OIL I & II CLASS 1 DIV 2 c(UL) FT-4 VFD 1000V FLEXIBLE MOTOR SUPPLY CABLE MADE IN USA

SEQUENTIAL FOOTAGE MARKINGS. COLOR CODE - BLACK WITH PRINTED NUMBERS

XLPE PRIMARIES & COPOLYMER JACKET, COPPER TAPE SHIELD

TAPPAN SPEC #	NO. OF COND.	COND. AWG	COND. STRAND	GROUND WIRE AWG AND STRAND	INSULATION THICKNESS INCHES	JACKET THICKNESS INCHES	NOMINAL O.D. INCHES	NET WEIGHT PER MFT
VARIABLE FREQUENCY DRIVE CABLE WITHOUT BRAKE PAIR								
CONSULT FACTORY	3	14	7	3 x 18-7	0.031	0.060	0.58	265
	3	12	7	3 x 16-7	0.031	0.060	0.60	301
	3	10	7	3 x 14-7	0.031	0.060	0.62	340
	3	8	7	3 x 12-7	0.046	0.060	0.65	425
	3	6	7	3 x 10-7	0.046	0.060	0.73	515
	3	4	7	3 x 8-7	0.046	0.080	0.87	770
	3	2	7	3 x 6-7	0.046	0.080	0.93	1120

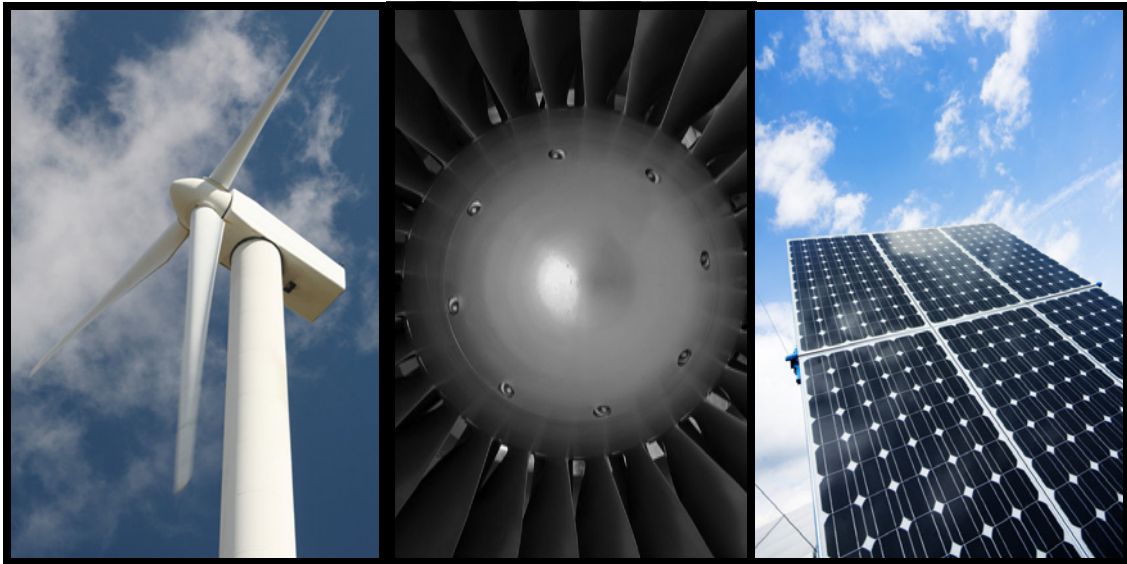
Weights and dimensions are nominal and are subject to applicable industry tolerances.

Picture representative of product family.

1-800-WIRE-911
www.tappanwire.com



RENEWABLE ENERGY WIND POWER / SOLAR



- . 1000V WTTC TFN/THHN / PVC
-40°C TRAY CABLE**
- . ELECTRONIC CABLES**
- . RHH-RHW-USE-2**

UL TYPE: WTTC (WIND TURBINE TRAY CABLE) 1000V

OIL RES I & II, 90C, - 40C COLD BEND RATING (UL) c(UL) CIC FT4

MULTI – CONDUCTOR WTTC (WIND TURBINE TRAY CABLE)



CONSTRUCTION:	HIGH STRAND BARE COPPER. PVC/NYLON INSULATION, FLEXIBLE, OIL RESISTANT BLACK COPOLYMER JACKET
APPLICATIONS:	APPROVED FOR USE IN WIND TURBINES, 1000V, - 40C COLD BEND RATING (UL), RATED 90°C OR UL TYPE TC - ER, 90C, SUN RES, OIL RES I & II, DIR BUR, MTW FLEXING, DP-1, CLASS I DIV II OR c(UL) CIC FT4 OUTDOOR AWM II A/B, RoHS, MADE IN USA, CE
COMPLIANCE:	INDUSTRY: UL TYPE WTTC 1000V 90C - 40C COLD BEND RATING (UL) OR UL 1277 TYPE TC-ER OR DP-1, UL 1581. UL 83 NEC TYPE THHN/THWN CONDUCTORS, NEMA WC-70/ ICEA S-95-658, UL -40C COLD BEND. FLAME TESTS: UL1277, UL1685, IEEE 1202, ICEA T-29-520, UL MTW, NFPA 79 2007, CLASS 1 DIVISION 2 PER NEC 336, 392, 501 c(UL) TYPE TC, CIC, FT4
PRINT:	TAPPAN W & C E135319 (UL) TYPE WTTC TC 1000V # C XX AWG OIL I & II, - 40C COLD BEND RATING (UL) 90C OR (UL) TYPE TC-ER THHN/THWN-2 90C 600V SUN RES OIL RES I & II DIR BUR or "MTW TFLEX" or DP-1 or WTTC 1000V 90C DRY -40C or SUBMERSIBLE PUMP CABLE or c(UL) CIC/TC PVC FT4 - CSA AWM II A/B 90C 600V CE ROHS MADE IN USA SEQUENTIAL FOOTAGE MARKINGS. COLOR CODE: BLACK WITH WHITE NUMBERS PLUS GREEN/YELLOW GROUND

PVC/NYLON INSULATION/COPOLYMER JACKET, FLEXIBLE, UNSHIELDED CONTROL CABLE

NO. OF COND. INCLUDES GROUND	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
UNSHIELDED 18 AWG MULTI CONDUCTOR								
3	18	16/30	20	50	0.298	19	57	
4	18	16/30	20	50	0.321	25	68	
5	18	16/30	20	50	0.345	31	76	
7	18	16/30	20	50	0.375	44	102	
9	18	16/30	20	50	0.423	56	110	
12	18	16/30	20	50	0.475	75	170	
18	18	16/30	20	65	0.585	113	242	
25	18	16/30	20	65	0.665	156	325	
50	18	16/30	20	85	0.935	313	643	
UNSHIELDED 16 AWG MULTI CONDUCTOR								
3	16	26/30	20	50	0.325	27	70	
4	16	26/30	20	50	0.350	36	85	
5	16	26/30	20	50	0.380	45	95	
7	16	26/30	20	50	0.410	64	125	
8	16	26/30	20	50	0.445	73	135	
9	16	26/30	20	50	0.475	82	170	
12	16	26/30	20	65	0.566	109	220	
16	16	26/30	20	65	0.620	145	270	
18	16	26/30	20	65	0.652	163	290	
25	16	26/30	20	65	0.740	227	395	
41	16	26/30	20	85	0.985	372	625	
50	16	26/30	20	85	1.045	454	760	
61	16	26/30	20	85	1.085	553	770	

Weights and dimensions are nominal and are subject to applicable industry tolerances. Picture representative of product family.

UL TYPE: WTTC (WIND TURBINE TRAY CABLE) 1000V
OIL RES I & II, 90C, - 40C COLD BEND RATING (UL) c(UL) CIC FT4
MULTI – CONDUCTOR WTTC (WIND TURBINE TRAY CABLE)



CONSTRUCTION:	HIGH STRAND BARE COPPER. PVC/NYLON INSULATION, FLEXIBLE, OIL RESISTANT BLACK COPOLYMER JACKET
APPLICATIONS:	APPROVED FOR USE IN WIND TURBINES, 1000V, - 40C COLD BEND RATING (UL), RATED 90°C OR UL TYPE TC - ER, 90C, SUN RES, OIL RES I & II, DIR BUR, MTW FLEXING, DP-1, CLASS I DIV II OR c(UL) CIC FT4 OUTDOOR AWM II A/B, RoHS, MADE IN USA, CE
COMPLIANCE:	INDUSTRY: UL TYPE WTTC 1000V 90C - 40C COLD BEND RATING (UL) OR UL 1277 TYPE TC-ER OR DP-1, UL 1581. UL 83 NEC TYPE THHN/THWN CONDUCTORS, NEMA WC-70/ ICEA S-95-658, UL -40C COLD BEND. FLAME TESTS: UL1277, UL1685, IEEE 1202, ICEA T-29-520, UL MTW, NFPA 79 2007, CLASS 1 DIVISION 2 PER NEC 336, 392, 501 c(UL) TYPE TC, CIC, FT4
PRINT:	TAPPAN W & C E135319 (UL) TYPE WTTC TC 1000V # C XX AWG OIL I & II, - 40C COLD BEND RATING (UL) 90C OR (UL) TYPE TC-ER THHN/THWN-2 90C 600V SUN RES OIL RES I & II DIR BUR or "MTW TFLEX" or DP-1 or WTTC 1000V 90C DRY -40C or SUBMERSIBLE PUMP CABLE or c(UL) CIC/TC PVC FT4 - CSA AWM II A/B 90C 600V CE ROHS MADE IN USA SEQUENTIAL FOOTAGE MARKINGS. COLOR CODE: BLACK WITH WHITE NUMBERS PLUS GREEN/YELLOW GROUND

PVC/NYLON INSULATION/COPOLYMER JACKET, FLEXIBLE, UNSHIELDED CONTROL CABLE

NO. OF COND. INCLUDES GROUND	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
UNSHIELDED 14 AWG MULTI CONDUCTOR								
3	14	41/30	20	50	0.360	45	85	
4	14	41/30	20	50	0.395	60	105	
5	14	41/30	20	50	0.425	75	130	
7	14	41/30	20	50	0.465	105	170	
9	14	41/30	20	50	0.570	135	225	
12	14	41/30	20	65	0.635	179	305	
18	14	41/30	20	65	0.735	269	440	
25	14	41/30	20	85	0.880	374	590	
UNSHIELDED 12 AWG MULTI CONDUCTOR								
4	12	65/30	20	50	0.460	100	154	
5	12	65/30	20	50	0.505	125	185	
7	12	65/30	20	50	0.580	175	255	
UNSHIELDED 10 AWG MULTI CONDUCTOR								
4	10	105/30	25	50	0.575	147	265	
5	10	105/30	25	50	0.630	184	320	
7	10	105/30	25	65	0.685	257	445	

Weights and dimensions are nominal and are subject to applicable industry tolerances. Picture representative of product family.

UL TYPE: WTTC (WIND TURBINE TRAY CABLE) 1000V
OIL RES I & II, 90C, - 40C COLD BEND RATING (UL) c(UL) CIC FT4
MULTI – CONDUCTOR WTTC (WIND TURBINE TRAY CABLE)

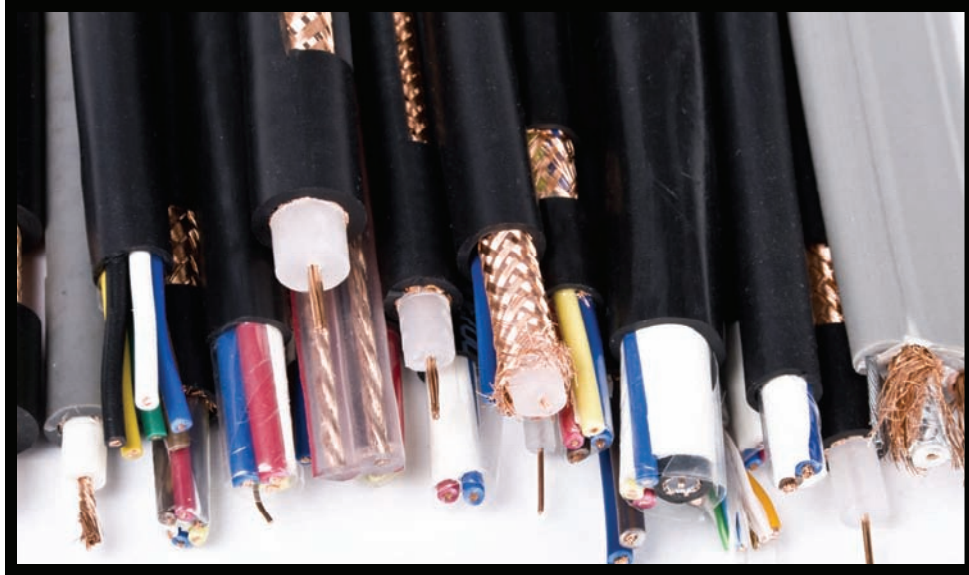


- CONSTRUCTION:** HIGH STRAND BARE COPPER. PVC/NYLON INSULATION, FLEXIBLE, OIL RESISTANT BLACK COPOLYMER JACKET
- APPLICATIONS:** APPROVED FOR USE IN WIND TURBINES, 1000V, - 40C COLD BEND RATING (UL), RATED 90°C OR UL TYPE TC - ER, 90C, SUN RES, OIL RES I & II, DIR BUR, MTW FLEXING, DP-1, CLASS I DIV II OR c(UL) CIC FT4 OUTDOOR AWM II A/B, RoHS, MADE IN USA, CE
- COMPLIANCE:** INDUSTRY: UL TYPE WTTC 1000V 90C - 40C COLD BEND RATING (UL) OR UL 1277 TYPE TC-ER OR DP-1, UL 1581. UL 83 NEC TYPE THHN/THWN CONDUCTORS, NEMA WC-70/ ICEA S-95-658, UL -40C COLD BEND. FLAME TESTS: UL1277, UL1685, IEEE 1202, ICEA T-29-520, UL MTW, NFPA 79 2007, CLASS 1 DIVISION 2 PER NEC 336, 392, 501 c(UL) TYPE TC, CIC, FT4
- PRINT:** TAPPAN W & C E135319 (UL) TYPE WTTC TC 1000V # C XX AWG OIL I & II, - 40C COLD BEND RATING (UL) 90C OR (UL) TYPE TC-ER THHN/THWN-2 90C 600V SUN RES OIL RES I & II DIR BUR or "MTW TFLEX" or DP-1 or WTTC 1000V 90C DRY -40C or SUBMERSIBLE PUMP CABLE or c(UL) CIC/TC PVC FT4 - CSA AWM II A/B 90C 600V CE ROHS MADE IN USA
- SEQUENTIAL FOOTAGE MARKINGS. COLOR CODE: BLACK WITH WHITE NUMBERS PLUS GREEN/YELLOW GROUND

PVC/NYLON INSULATION/COPOLYMER JACKET, FLEXIBLE, UNSHIELDED CONTROL CABLE

NO. OF COND. INCLUDES GROUND	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
4	8	133/.0111	35	65	0.656	204	335	
5	8	133/.0111	35	65	0.685	255	402	
3	6	133/.0141	35	65	0.671	243	365	
4	6	133/.0141	35	65	0.750	324	471	
5	6	133/.0141	46	65	0.783	405	569	
3	4	133/.0177	46	80	0.863	387	594	
4	4	133/.0177	46	80	0.939	516	758	
3	2	133/.0223	46	80	0.993	615	860	
4	2	133/.0223	46	80	1.084	820	1108	
5	2	133/.0223	46	80	1.305	1205	1457	

Weights and dimensions are nominal and are subject to applicable industry tolerances. Picture representative of product family.



Electronic Cables

We offer a complete line of Electronic cables for all environments and applications:

- **High Temperature**
- **EMI/RFI**
- **Control Signals**
- **Continuous Flex Data Cables**
- **Continuous Flex Control Cables**

BUILDING WIRE COPPER CONDUCTOR RHH-RHW-USE-2 VW-1 600V



BUILDING WIRE – RHH-RHW-USE-2 VW-1 600V

CONSTRUCTION: CLASS B STRANDED BARE COPPER. CROSS-LINKED POLYETHYLENE INSULATION

APPLICATIONS: APPROVED FOR USE AS GENERAL PURPOSE WIRING - RESIDENTIAL, COMMERCIAL, INDUSTRIAL AND SOLAR APPLICATIONS - FOR INSTALLATION IN CONDUIT, AIR, DIRECT BURIAL, WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, RATED 90°C WET OR DRY, 600 VOLTS.

COMPLIANCE: INDUSTRY: UL 44, UL 854, UL 1581, NEMA WC-70/ ICEA S-95-658, FLAME TEST VW-1

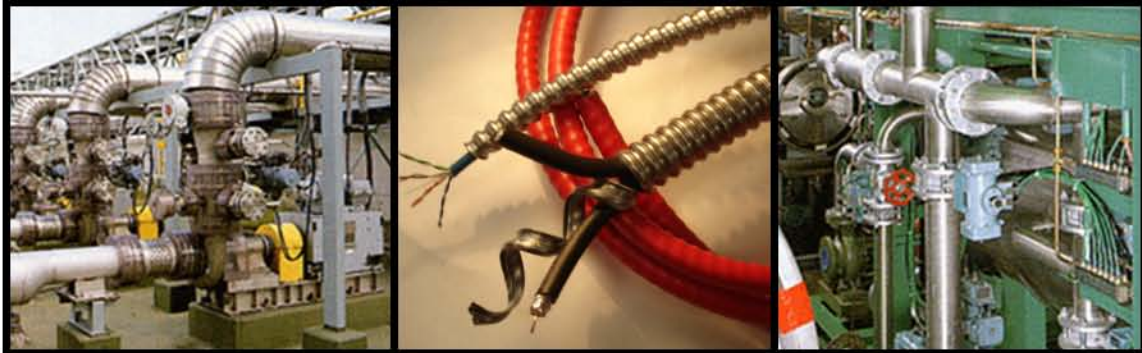
PRINT: TAPPAN W & C E219343 XX AWG RHH-RHW-USE-2 VW-1 600 VOLTS MADE IN USA

RHH-RHW-USE-2 VW-1 600V

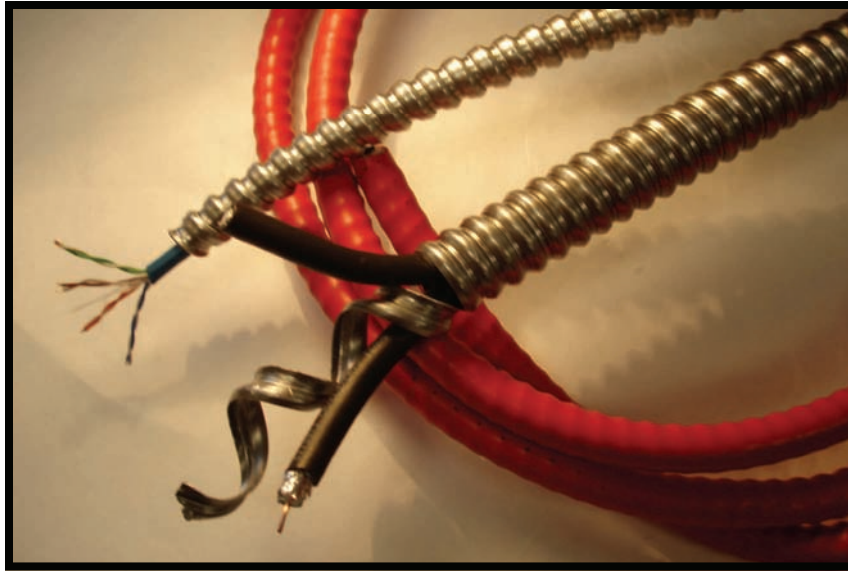
AWG	NO. OF STRANDS	OVERALL INSULATION THICKNESS MILS	NOMINAL O.D. INCHES	NET WEIGHT PER MFT	TAPPAN SPEC #
14	7	45	0.17	22	
12	7	45	0.19	32	
10	7	45	0.21	47	
8	7	60	0.27	71	
6	7	60	0.37	105	
4	7	60	0.36	155	
2	7	60	0.42	240	



INTERLOCK ARMOR



- . AIAP - ALUMINUM INTERLOCK ARMORED PROTECTION**
- . TECK ARMORED CABLES**
- . MULTI-CONDUCTOR ALUMINUM INTERLOCK ARMOR (AIA)**



Aluminum Interlock Armor Protection

Tappan offers a wide range of Armor Protected Cables:

- **MC Fire Alarm**
- **Category 5e & 6E with 1, 2 or 3 cables**
- **Electronic Cables**
- **MC – TFN / THHN**
- **Security & Sound**
- **LSZH Cables**
- **Coax**
- **Camera Cable**
- **Ability to armor any cable from stock up to 2" core**

We offer:

Quick Delivery

Custom Jacket Colors

Jacket materials include LSZH, PU, CMR/CMP Rated PVC



600V UL TYPE MC



Multi-Conductor, TECK Aluminum Interlock Armor Unshielded Control Cable 600V

CONSTRUCTION:	CLASS B STRANDED BARE COPPER, CROSS-LINKED POLYETHYLENE INSULATION XHHW-2 PRIMARIES, BARE COPPER GROUND WIRE, INNER PVC JACKET, ALUMINUM INTERLOCK ARMOR, BLACK FLAME RETARDANT PVC JACKET. UL TYPE MC 600 VOLTS
APPLICATIONS:	APPROVED FOR INSTALLATION INDOORS OR OUT, DIRECT BURIAL, IN AIR, DUCTS, CONDUIT, CABLE TRAYS, SUNLIGHT RESISTANT, RATED 90°C WET OR DRY
COMPLIANCE:	INDUSTRY: UL TYPE MC PER UL 1569, UL 44, ICEA S-95-658/WC-70, NEC 336. PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS. FLAME TESTS: IEEE 383, UL 1581, IEEE 1202/CSA FT-4, ICEA T-29-520
PRINT:	TAPPAN W & C (UL) TYPE MC/ XX / C XX AWG TECK ARMOR PVC JKT DIR. BUR. SUN RES. 90C WET OR DRY 600 VOLTS MADE IN USA
OPTIONS AVAILABLE:	SEQUENTIAL FOOTAGE MARKINGS. COLOR CODED PER ICEA METHOD 1 TABLE E-2 E-1 COLOR CODE, TINNED COPPER CONDUCTORS, CONSULT FACTORY FOR OTHER CONSTRUCTIONS

XHHW-2 PRIMARIES, TECK ALUMINUM INTERLOCK ARMOR, PVC JACKET 600V

NO. OF COND.	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	INNER JACKET THICKNESS MILS	GROUND WIRE	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
UNSHIELDED 14 AWG MULTI CONDUCTOR										
2	14	7/.0242	30	50	14	50	0.710	38	219	
3	14	7/.0242	30	50	14	50	0.730	52	245	
4	14	7/.0242	30	50	14	50	0.770	64	277	
5	14	7/.0242	30	50	14	50	0.790	78	304	
7	14	7/.0242	30	50	14	50	0.870	104	376	
9	14	7/.0242	30	50	14	50	0.950	130	440	
12	14	7/.0242	30	50	14	50	1.010	169	517	
19	14	7/.0242	30	50	14	50	1.111	260	683	
25	14	7/.0242	30	50	14	50	1.300	338	958	
30	14	7/.0242	30	50	14	50	1.360	403	1015	
UNSHIELDED 12 AWG MULTI CONDUCTOR										
2	12	7/.0305	30	50	14	50	0.750	60	258	
3	12	7/.0305	30	50	14	50	0.770	80	293	
4	12	7/.0305	30	50	14	50	0.810	100	334	
5	12	7/.0305	30	50	14	50	0.850	120	376	
7	12	7/.0305	30	50	14	50	0.950	160	471	
9	12	7/.0305	30	50	14	50	1.030	201	555	
12	12	7/.0305	30	50	14	50	1.090	260	657	
15	12	7/.0305	30	50	14	50	1.210	320	890	
19	12	7/.0305	30	50	14	50	1.300	424	975	
25	12	7/.0305	30	50	14	50	1.420	520	1214	
30	12	7/.0305	30	50	14	50	1.490	620	1320	
UNSHIELDED 10 AWG MULTI CONDUCTOR										
2	10	7/.0385	30	50	12	50	0.790	95	312	
3	10	7/.0385	30	50	12	50	0.810	127	360	
4	10	7/.0385	30	50	12	50	0.870	159	421	
5	10	7/.0385	30	50	12	50	0.910	190	477	
7	10	7/.0385	30	50	12	50	1.030	251	607	
9	10	7/.0385	30	50	12	50	1.130	315	724	
12	10	7/.0385	30	50	12	50	1.190	421	868	

Weights and dimensions are nominal and are subject to applicable industry tolerances.



600V UL TYPE MC



Multi-Conductor, Aluminum Interlock Armor Unshielded Control Cable 600V

- CONSTRUCTION:** CLASS B STRANDED BARE COPPER, CROSS-LINKED POLYETHYLENE INSULATION XHHW-2 PRIMARIES, BARE COPPER GROUND WIRE, ALUMINUM INTERLOCK ARMOR, BLACK FLAME RETARDANT PVC JACKET. UL TYPE MC 600 VOLTS
- APPLICATIONS:** APPROVED FOR INSTALLATION INDOORS OR OUT, DIRECT BURIAL, IN AIR, DUCTS, CONDUIT, CABLE TRAYS, SUNLIGHT RESISTANT, RATED 90°C WET OR DRY
- COMPLIANCE:** INDUSTRY: UL TYPE MC PER UL 1569, UL 44, ICEA S-95-658/WC-70, NEC 336. PERMITTED FOR USE IN CLASS 1 DIVISION 2 FOR HAZARDOUS AREAS. FLAME TESTS: IEEE 383, UL 1581, IEEE 1202, ICEA T-29-520
- PRINT:** TAPPAN W & C (UL) TYPE MC/ XX / C XX AWG PVC JKT DIR. BUR. SUN RES. FOR CT USE 90C WET OR DRY 600 VOLTS MADE IN USA
- SEQUENTIAL FOOTAGE MARKINGS. COLOR CODED PER ICEA METHOD 1 TABLE E-2
- OPTIONS AVAILABLE:** E-1 COLOR CODE, TINNED COPPER CONDUCTORS, CONSULT FACTORY FOR OTHER CONSTRUCTIONS

XHHW-2 PRIMARIES, ALUMINUM INTERLOCK ARMOR, PVC JACKET 600V

NO. OF COND.	AWG	STRAND	OVERALL INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	GROUND WIRE	NOMINAL O.D. INCHES	COPPER WEIGHT PER MFT	NET WEIGHT PER MFT	TAPPAN SPEC #
UNSHIELDED 14 AWG MULTI CONDUCTOR									
2	14	7/.0242	30	50	14	0.560	38	160	
3	14	7/.0242	30	50	14	0.590	52	187	
4	14	7/.0242	30	50	14	0.640	64	220	
5	14	7/.0242	30	50	14	0.660	78	245	
7	14	7/.0242	30	50	14	0.700	104	292	
9	14	7/.0242	30	50	14	0.780	130	360	
12	14	7/.0242	30	50	14	0.860	169	440	
19	14	7/.0242	30	50	14	0.980	260	586	
25	14	7/.0242	30	50	14	1.140	338	750	
30	14	7/.0242	30	50	14	1.170	403	890	
37	14	7/.0242	30	50	14	1.270	494	1110	
UNSHIELDED 12 AWG MULTI CONDUCTOR									
2	12	7/.0305	30	50	12	0.560	60	205	
3	12	7/.0305	30	50	12	0.590	80	234	
4	12	7/.0305	30	50	12	0.660	100	270	
5	12	7/.0305	30	50	12	0.720	120	310	
7	12	7/.0305	30	50	12	0.760	160	378	
9	12	7/.0305	30	50	12	0.770	201	460	
12	12	7/.0305	30	50	12	0.840	260	577	
15	12	7/.0305	30	50	12	1.050	320	670	
19	12	7/.0305	30	50	12	1.100	424	790	
25	12	7/.0305	30	50	12	1.260	520	1035	
30	12	7/.0305	30	50	12	1.340	620	1205	
37	12	7/.0305	30	50	12	1.410	760	1395	
UNSHIELDED 10 AWG MULTI CONDUCTOR									
2	10	7/.0385	30	50	10	0.670	95	260	
3	10	7/.0385	30	50	10	0.680	127	305	
4	10	7/.0385	30	50	10	0.730	159	355	
5	10	7/.0385	30	50	10	0.800	190	410	
7	10	7/.0385	30	50	10	0.850	251	500	
9	10	7/.0385	30	50	10	0.960	315	620	
12	10	7/.0385	30	50	10	1.070	421	770	

Weights and dimensions are nominal and are subject to applicable industry tolerances.

Picture is representative of product family - inner jacket is optional



SPECIALTY CABLES



- . IMSA CABLE**
 - . 20/10 CONTROL CABLE**
 - . 30/15 CONTROL CABLE**
 - . ICON-CI/CIC TM**
- CIRCUIT INTEGRITY 2-HOUR
FIRE RATED CABLES**



IMSA TRAFFIC SIGNAL CABLE

SPEC 19-1 AERIAL & DUCT CABLE



- APPLICATIONS:** Outdoor or indoor use in traffic signal, traffic control systems, fire alarm systems, underground conduit and aerial use with messenger. Rated for 600 Volts 75 °C wet or dry locations
- CONSTRUCTION:** Solid or stranded bare copper, polyethylene insulation, color coded, cabled, polyester binder tape, black sunlight resistant PVC jacket, sequential footage markers, indent printed
- COMPLIANCE:** Cables are manufactured to meet current IMSA guidelines

MULTIPLE CONDUCTOR, NON-SHIELDED 600V - IMSA 19-1

NUMBER OF CONDUCTORS	AWG	SOLID OR STRANDED	INSULATION / JACKET THICKNESS INCHES	NOMINAL DIAMETER INCHES	APPROX WEIGHT/LBS PER MFT	TAPPAN SPEC #
14 AWG SOLID						
2	14	SOLID	.025/.045	0.318	58	SU6077.I
3	14	SOLID	.025/.045	0.338	75	SU6044.I
4	14	SOLID	.025/.045	0.366	93	SU6040.I
5	14	SOLID	.025/.045	0.383	110	SU6041.I
7	14	SOLID	.025/.045	0.432	146	SU6042.I
9	14	SOLID	.025/.045	0.484	182	SU6060.I
10	14	SOLID	.025/.045	0.505	199	SU6058.I
12	14	SOLID	.025/.060	0.574	252	SU6052.I
15	14	SOLID	.025/.060	0.628	305	SU6063.I
16	14	SOLID	.025/.060	0.645	322	SU6043.I
19	14	SOLID	.025/.060	0.692	375	SU6064.I
20	14	SOLID	.025/.060	0.706	392	SU6046.I
21	14	SOLID	.025/.060	0.721	409	SU6065.I
25	14	SOLID	.025/.060	0.776	478	SU6075.I
14 AWG STRANDED						
2	14	7/.0242	.025/.045	0.334	61	SU6078.I
3	14	7/.0242	.025/.045	0.355	79	SU6054.I
4	14	7/.0242	.025/.045	0.385	98	SU6066.I
5	14	7/.0242	.025/.045	0.404	116	SU6035.I
7	14	7/.0242	.025/.045	0.456	154	SU6036.I
9	14	7/.0242	.025/.045	0.511	191	SU6067.I
10	14	7/.0242	.025/.060	0.534	210	SU6068.I
12	14	7/.0242	.025/.060	0.606	265	SU6069.I
15	14	7/.0242	.025/.060	0.663	321	SU6070.I
16	14	7/.0242	.025/.060	0.681	339	SU6071.I
19	14	7/.0242	.025/.060	0.731	394	SU6072.I
20	14	7/.0242	.025/.060	0.747	412	SU6073.I
21	14	7/.0242	.025/.060	0.763	430	SU6074.I
25	14	7/.0242	.025/.060	0.822	502	SU6076.I

Color Code Chart #2:

NO.	COLOR	NO.	COLOR	NO.	COLOR
1	BLK	10	ORG/BLK	19	BLU/RED
2	WHT	11	BLU/BLK	20	RED/GRN
3	RED	12	BLK/WHT	21	ORG/GRN
4	GRN	13	RED/WHT	22	COLOR CODE REPEATS
5	ORG	14	GRN/WHT	23	
6	BLU	15	BLU/WHT	24	
7	WHT/BLK	16	BLK/RED	25	
8	RED/BLK	17	WHT/RED		
9	GRN/BLK	18	ORG/RED		



IMSA TRAFFIC SIGNAL CABLE

SPEC 19-1 AERIAL & DUCT CABLE



APPLICATIONS: Outdoor or indoor use in traffic signal, traffic control systems, fire alarm systems, underground conduit and aerial use with messenger. Rated for 600 Volts 75 °C wet or dry locations

CONSTRUCTION: Solid or stranded bare copper, polyethylene insulation, color coded, cable, polyester binder tape, black sunlight resistant PVC jacket, sequential footage markers, indent printed

COMPLIANCE: Cables are manufactured to meet current IMSA guidelines

MULTIPLE CONDUCTOR, NON-SHIELDED 600V - IMSA 19-1

NUMBER OF CONDUCTORS	AWG	SOLID OR STRANDED	INSULATION / JACKET THICKNESS INCHES	NOMINAL DIAMETER INCHES	APPROX WEIGHT/LBS PER MFT	TAPPAN SPEC #
12 AWG SOLID						
2	12	SOLID	.030/.045	0.372	81	SU7009.1
3	12	SOLID	.030/.045	0.396	108	SU7010.1
4	12	SOLID	.030/.045	0.431	135	SU7011.1
5	12	SOLID	.030/.045	0.452	162	SU7012.1
7	12	SOLID	.030/.045	0.512	216	SU7013.1
9	12	SOLID	.030/.060	0.576	271	SU7014.1
10	12	SOLID	.030/.060	0.633	317	SU7015.1
12	12	SOLID	.030/.060	0.680	372	SU7016.1
16	12	SOLID	.030/.060	0.768	480	SU7017.1
19	12	SOLID	.030/.060	0.825	560	SU7018.1
20	12	SOLID	.030/.080	0.884	623	SU7019.1
21	12	SOLID	.030/.080	0.902	650	SU7020.1
25	12	SOLID	.030/.080	0.970	759	SU7021.1
12 AWG STRANDED						
2	12	7/.0305	.030/.045	0.394	85	SU7022.1
3	12	7/.0305	.030/.045	0.420	113	SU7023.1
4	12	7/.0305	.030/.045	0.458	142	SU7024.1
5	12	7/.0305	.030/.045	0.481	170	SU7008.1
7	12	7/.0305	.030/.060	0.576	244	SU7025.1
9	12	7/.0305	.030/.060	0.644	304	SU7026.1
10	12	7/.0305	.030/.060	0.673	333	SU7027.1
12	12	7/.0305	.030/.060	0.725	390	SU7028.1
16	12	7/.0305	.030/.060	0.819	503	SU7029.1
19	12	7/.0305	.030/.080	0.922	625	SU7030.1
21	12	7/.0305	.030/.080	0.961	682	SU7031.1
25	12	7/.0305	.030/.080	1.034	796	SU7032.1
10 AWG SOLID OR STRANDED						
2	10	SOLID	.030/.045	0.414	110	SU8001.1
2	10	7/.0385	.030/.045	0.440	115	SU8002.1
3	10	SOLID	.030/.045	0.441	149	SU8003.1
3	10	7/.0385	.030/.045	0.470	156	SU8004.1
4	10	7/.0385	.030/.045	0.544	214	SU8005.1
7	10	7/.0385	.030/.060	0.645	341	SU8006.1
12	10	7/.0385	.030/.060	0.817	552	SU8007.1



IMSA TRAFFIC SIGNAL CABLE

SPEC 20-1 AERIAL & DUCT CABLE



APPLICATIONS:

Outdoor or indoor use in traffic signal, traffic control systems, fire alarm systems, underground conduit and aerial use with messenger. Rated for 600 Volts 75°C wet or dry locations

CONSTRUCTION:

Solid or stranded bare copper, polyethylene insulation, color coded, cabled, polyester binder tape, black sunlight resistant polyethylene jacket, sequential footage markers, indent printed

COMPLIANCE:

Cables are manufactured to meet current IMSA guidelines

MULTIPLE CONDUCTOR, NON-SHIELDED 600V – IMSA 20-1

NUMBER OF CONDUCTORS	AWG	SOLID OR STRANDED	INSULATION / JACKET THICKNESS INCHES	NOMINAL DIAMETER INCHES	APPROX WEIGHT/LBS PER MFT	TAPPAN SPEC #
14 AWG SOLID						
2	14	SOLID	.025/.045	0.318	58	SU6079.1
3	14	SOLID	.025/.045	0.338	66	SU6055.1
4	14	SOLID	.025/.045	0.366	83	SU6081.1
5	14	SOLID	.025/.045	0.383	99	SU6082.1
7	14	SOLID	.025/.045	0.432	133	SU6083.1
9	14	SOLID	.025/.045	0.484	167	SU6084.1
10	14	SOLID	.025/.045	0.505	184	SU6085.1
12	14	SOLID	.025/.060	0.574	229	SU6086.1
15	14	SOLID	.025/.060	0.628	279	SU6087.1
16	14	SOLID	.025/.060	0.645	296	SU6088.1
19	14	SOLID	.025/.060	0.692	346	SU6089.1
20	14	SOLID	.025/.060	0.706	363	SU6090.1
21	14	SOLID	.025/.060	0.721	379	SU6091.1
25	14	SOLID	.025/.060	0.776	445	SU6092.1
14 AWG STRANDED						
2	14	7/.0242	.025/.045	0.334	52	SU6093.1
3	14	7/.0242	.025/.045	0.355	69	SU6056.1
4	14	7/.0242	.025/.045	0.385	87	SU6050.1
5	14	7/.0242	.025/.045	0.404	116	SU6062.1
7	14	7/.0242	.025/.045	0.456	140	SU6051.1
9	14	7/.0242	.025/.045	0.511	176	SU6094.1
10	14	7/.0242	.025/.060	0.564	205	SU6095.1
12	14	7/.0242	.025/.060	0.606	240	SU6096.1
15	14	7/.0242	.025/.060	0.663	293	SU6097.1
16	14	7/.0242	.025/.060	0.681	311	SU6098.1
19	14	7/.0242	.025/.060	0.731	363	SU6099.1
20	14	7/.0242	.025/.060	0.747	381	SU6100.1
21	14	7/.0242	.025/.060	0.763	398	SU6101.1
25	14	7/.0242	.025/.060	0.822	467	SU6102.1

Color Code Chart #2:

NO.	COLOR	NO.	COLOR	NO.	COLOR
1	BLK	10	ORG/BLK	19	BLU/RED
2	WHT	11	BLU/BLK	20	RED/GRN
3	RED	12	BLK/WHT	21	ORG/GRN
4	GRN	13	RED/WHT	22	COLOR CODE REPEATS
5	ORG	14	GRN/WHT	23	
6	BLU	15	BLU/WHT	24	
7	WHT/BLK	16	BLK/RED	25	
8	RED/BLK	17	WHT/RED		
9	GRN/BLK	18	ORG/RED		



IMSA TRAFFIC SIGNAL CABLE

SPEC 20-1 AERIAL & DUCT CABLE



APPLICATIONS:

Outdoor or indoor use in traffic signal, traffic control systems, fire alarm systems, underground conduit and aerial use with messenger. Rated for 600 Volts 75 °C wet or dry locations

CONSTRUCTION:

Solid or stranded bare copper, polyethylene insulation, color coded, cabled, polyester binder tape, black sunlight resistant polyethylene jacket, sequential footage markers, indent printed

COMPLIANCE:

Cables are manufactured to meet current IMSA guidelines

MULTIPLE CONDUCTOR, NON-SHIELDED 600V – IMSA 20-1

NUMBER OF CONDUCTORS	AWG	SOLID OR STRANDED	INSULATION / JACKET THICKNESS INCHES	NOMINAL DIAMETER INCHES	APPROX WEIGHT/LBS PER MFT	TAPPAN SPEC #
12 AWG SOLID						
2	12	SOLID	.030/.045	0.372	70	SU7033.1
3	12	SOLID	.030/.045	0.396	96	SU7034.1
4	12	SOLID	.030/.045	0.431	122	SU7035.1
5	12	SOLID	.030/.045	0.452	148	SU7036.1
7	12	SOLID	.030/.045	0.512	200	SU7037.1
9	12	SOLID	.030/.060	0.606	265	SU7038.1
10	12	SOLID	.030/.060	0.633	291	SU7039.1
12	12	SOLID	.030/.060	0.680	344	SU7040.1
16	12	SOLID	.030/.060	0.768	448	SU7041.1
19	12	SOLID	.030/.060	0.825	525	SU7042.1
21	12	SOLID	.030/.080	0.902	601	SU7043.1
25	12	SOLID	.030/.080	0.970	705	SU7044.1
12 AWG STRANDED						
2	12	7/.0305	.030/.045	0.394	74	SU7045.1
3	12	7/.0305	.030/.045	0.420	101	SU7046.1
4	12	7/.0305	.030/.045	0.458	128	SU7047.1
5	12	7/.0305	.030/.045	0.481	155	SU7048.1
7	12	7/.0305	.030/.060	0.576	221	SU7049.1
9	12	7/.0305	.030/.060	0.644	302	SU7050.1
10	12	7/.0305	.030/.060	0.673	305	SU7051.1
12	12	7/.0305	.030/.060	0.725	360	SU7052.1
16	12	7/.0305	.030/.060	0.819	469	SU7053.1
19	12	7/.0305	.030/.080	0.882	549	SU7054.1
21	12	7/.0305	.030/.080	0.961	629	SU7055.1
25	12	7/.0305	.030/.080	1.034	738	SU7056.1
10 AWG SOLID OR STRANDED						
2	10	SOLID	.030/.045	0.414	98	SU8008.1
2	10	7/.0385	.030/.045	0.440	102	SU8009.1
3	10	SOLID	.030/.045	0.441	136	SU8010.1
3	10	7/.0385	.030/.045	0.470	141	SU8011.1
4	10	7/.0385	.030/.045	0.514	182	SU8012.1
7	10	7/.0385	.030/.060	0.645	315	SU8013.1
12	10	7/.0385	.030/.060	0.817	517	SU8014.1



IMSA TRAFFIC SIGNAL CABLE SPEC 50-2 LOOP LEAD-IN CABLE



APPLICATIONS:

Municipal signal systems as lead-in cable or for use in communication circuits where a low capacitance is needed. Rated for 600V 60°C Wet or dry locations.

CONSTRUCTION:

Tinned copper conductors, PE Insulation (color coded black & clear), Aluminum Foil Shield with tinned copper drain wire, Black PE Jacket

COMPLIANCE:

Cables are manufactured to meet current IMSA guidelines

POLYETHYLENE INSULATED, SHIELDED 600V – IMSA 50-2

NUMBER OF CONDUCTORS	AWG	STRANDING	INSULATION / JACKET THICKNESS INCHES	NOMINAL DIAMETER INCHES	APPROX WEIGHT/LBS PER MFT	TAPPAN SPEC #
2	18	19	.030/.030	0.270	31	SU4042.1
2	16	19	.030/.030	0.290	40	SU5020.1
2	14	19	.030/.030	0.320	56	SU6038.1
2	12	19	.030/.030	0.364	80	SU7057.1



IMSA TRAFFIC SIGNAL CABLE SPEC 51-5 TUBE-LOOP DETECTOR WIRE



APPLICATIONS: Used in road pavements to detect vehicles for the purpose of changing signals or determining amount of traffic flow. Rated for 600V 60°C wet or dry locations.

CONSTRUCTION: Bare copper conductors, PVC/Nylon insulation, PVC or PE tube

COMPLIANCE: Cables are manufactured to meet current IMSA guidelines

SINGLE CONDUCTOR, PVC/NYLON INSULATED, UNSHIELDED 600V – IMSA 51-5

NUMBER OF CONDUCTORS	AWG	SOLID OR STRANDED	INSULATION / JACKET THICKNESS INCHES	NOMINAL DIAMETER INCHES	APPROX WEIGHT/LBS PER MFT	TAPPAN SPEC #	JACKET COLOR
PVC TUBED JACKET							
1	14	19 STR	.020/.030	0.250	28	SU6049.1	ORANGE
1	14	19 STR	.020/.030	0.250	28	SU6049.2	BLACK
1	12	19 STR	.020/.030	0.250	39	SU7058.1	ORANGE
1	12	19 STR	.020/.030	0.250	39	SU7058.2	BLACK
PE TUBED JACKET							
1	14	19 STR	.020/.030	0.250	22	SU6103.1	ORANGE
1	14	19 STR	.020/.030	0.250	22	SU6103.2	BLACK
1	12	19 STR	.020/.030	0.250	34	SU7059.1	ORANGE
1	12	19 STR	.020/.030	0.250	34	SU7059.2	BLACK



600 VOLT CONTROL CABLE



Multi-Conductor, Unshielded Control Cable

CONSTRUCTION:	CLASS B STRANDED BARE COPPER. POLYETHYLENE (PE)/PVC INSULATION, RIPCORD. BLACK PVC JACKET.
APPLICATIONS:	APPROVED FOR DIRECT BURIAL, WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, USED AS AERIAL CABLES, INSTALLED IN CONDUIT, RATED 90°C DRY, 75°C WET.
COMPLIANCE:	INDUSTRY: NEMA WC-57/ ICEA S-73-532.
PRINT:	TAPPAN W & C # C XX AWG CONTROL CABLE 600 VOLTS MADE IN USA SEQUENTIAL FOOTAGE MARKINGS. COLOR CODED PER ICEA METHOD 1 TABLE E-2

20-10 CONTROL CABLE – POLYETHYLENE (PE) & PVC / PVC

NO. OF COND.	AWG	STRAND	OVERALL PE INSULATION THICKNESS MILS	OVERALL PVC INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	NET WEIGHT PER MFT	TAPPAN SPEC #
UNSHIELDED 14 AWG MULTI CONDUCTOR								
2 FLAT	14	7/.0242	20	10	45	0.235 x .375	63	
3	14	7/.0242	20	10	45	0.400	95	
4	14	7/.0242	20	10	45	0.435	117	
5	14	7/.0242	20	10	45	0.475	132	
7	14	7/.0242	20	10	45	0.515	174	
9	14	7/.0242	20	10	60	0.640	238	
12	14	7/.0242	20	10	60	0.710	305	
15	14	7/.0242	20	10	60	0.785	370	
19	14	7/.0242	20	10	60	0.825	453	
25	14	7/.0242	20	10	80	1.030	624	
30	14	7/.0242	20	10	80	1.065	693	
37	14	7/.0242	20	10	80	1.150	832	
UNSHIELDED 12 AWG MULTI CONDUCTOR								
2 FLAT	12	7/.0305	20	10	45	.255 x .415	85	
3	12	7/.0305	20	10	45	0.445	126	
4	12	7/.0305	20	10	45	0.485	158	
5	12	7/.0305	20	10	45	0.560	200	
7	12	7/.0305	20	10	45	0.610	259	
9	12	7/.0305	20	10	60	0.715	328	
12	12	7/.0305	20	10	60	0.795	423	
15	12	7/.0305	20	10	60	0.920	554	
19	12	7/.0305	20	10	60	0.970	675	
25	12	7/.0305	20	10	80	1.150	865	
30	12	7/.0305	20	10	80	1.195	1020	
37	12	7/.0305	20	10	80	1.290	1234	
UNSHIELDED 10 AWG MULTI CONDUCTOR								
2 FLAT	10	7/.0385	20	10	45	.28 x .46	115	
3	10	7/.0385	20	10	45	0.490	165	
4	10	7/.0385	20	10	60	0.570	230	
5	10	7/.0385	20	10	60	0.620	280	
7	10	7/.0385	20	10	60	0.670	355	
9	10	7/.0385	20	10	60	0.790	475	
10	10	7/.0385	20	10	80	0.890	535	
12	10	7/.0385	20	10	80	0.920	615	

Weights and dimensions are nominal and are subject to applicable industry tolerances.



1000V CONTROL CABLE



Multi-Conductor, Unshielded Control Cable

CONSTRUCTION:	CLASS B STRANDED BARE COPPER. POLYETHYLENE (PE) / PVC INSULATION, RIPCORDER. BLACK PVC JACKET.
APPLICATIONS:	APPROVED FOR DIRECT BURIAL, WET OR DRY LOCATIONS, SUNLIGHT RESISTANT, USED IN OPEN AIR, AS AERIAL CABLES, INSTALLED IN CONDUIT, TRAY, RATED 75°C.
COMPLIANCE:	INDUSTRY: NEMA WC-70/ ICEA S-95-658
PRINT:	TAPPAN W & C # C XX AWG CONTROL CABLE 1000 VOLTS MADE IN USA SEQUENTIAL FOOTAGE MARKINGS. COLOR CODED PER ICEA METHOD 1 TABLE E-2
OPTIONS:	FLEXIBLE STRANDING, CONSULT FACTORY FOR OTHER CONSTRUCTIONS

30-15 CONTROL CABLE – POLYETHYLENE (PE) & PVC / PVC 1000V

NO. OF COND.	AWG	STRAND	OVERALL PE INSULATION THICKNESS MILS	OVERALL PVC INSULATION THICKNESS MILS	OVERALL JACKET THICKNESS MILS	NOMINAL O.D. INCHES	NET WEIGHT PER MFT	TAPPAN SPEC #
UNSHIELDED 14 AWG MULTI CONDUCTOR								
2 FLAT	14	7/.0242	30	15	45	.28 x .45	75	
2	14	7/.0242	30	15	45	0.450	94	
3	14	7/.0242	30	15	45	0.470	116	
4	14	7/.0242	30	15	45	0.520	145	
5	14	7/.0242	30	15	60	0.600	184	
7	14	7/.0242	30	15	60	0.650	228	
9	14	7/.0242	30	15	60	0.760	309	
12	14	7/.0242	30	15	60	0.880	410	
15	14	7/.0242	30	15	80	0.960	496	
19	14	7/.0242	30	15	80	1.040	581	
24	14	7/.0242	30	15	80	1.200	733	
30	14	7/.0242	30	15	80	1.280	879	
37	14	7/.0242	30	15	80	1.380	1038	
UNSHIELDED 12 AWG MULTI CONDUCTOR								
2 FLAT	12	7/.0305	30	15	45	.30 x .48	96	
2	12	7/.0305	30	15	45	0.480	121	
3	12	7/.0305	30	15	45	0.510	151	
4	12	7/.0305	30	15	60	0.590	208	
5	12	7/.0305	30	15	60	0.640	264	
7	12	7/.0305	30	15	60	0.710	299	
9	12	7/.0305	30	15	60	0.830	396	
12	12	7/.0305	30	15	80	0.960	538	
15	12	7/.0305	30	15	80	1.050	659	
19	12	7/.0305	30	15	80	1.130	771	
24	12	7/.0305	30	15	80	1.320	978	
30	12	7/.0305	30	15	80	1.400	1179	
37	12	7/.0305	30	15	80	1.510	1401	
UNSHIELDED 10 AWG MULTI CONDUCTOR								
2 FLAT	10	7/.0385	30	15	45	.35 x .56	141	
2	10	7/.0385	30	15	45	0.560	173	
3	10	7/.0385	30	15	60	0.590	217	
4	10	7/.0385	30	15	60	0.650	272	
5	10	7/.0385	30	15	60	0.710	335	
7	10	7/.0385	30	15	60	0.780	407	
9	10	7/.0385	30	15	80	0.910	569	
10	10	7/.0385	30	15	80	0.980	631	
12	10	7/.0385	30	15	80	1.030	722	

Weights and dimensions are nominal and are subject to applicable industry tolerances.



2-Hour Fire Rated Cables – Circuit Integrity

Unshielded 18 AWG – 12 AWG

✓ NEC TYPE FPLR-CI; For Use Without Conduit

✓ CIC* In-Conduit solution



ICON-CI/CIC™ – Fire Resistive Cables; and Cable for Conduit System*

CONSTRUCTION: BARE COPPER CONDUCTORS, SOLID OR STRANDED, CERAMIFIABLE SILICONE RUBBER INSULATION, CABLED, MICA TAPE, RED FRPE LSZH JACKET, INSULATION RATED FOR 300 VOLTS, 75°C COLOR CODE - 2/C: BLACK & RED COLORED INSULATION. 4/C AND ABOVE: BLACK INSULATION WITH PRINTED NUMBERS.

APPLICATIONS: FIRE ALARM CIRCUIT INTEGRITY (NEC ARTICLE 760), EMERGENCY SYSTEMS (NEC ARTICLES 700 AND 517) SURVIVABILITY FROM ATTACK BY FIRE (MUST BE CONNECTED TO FIRE COMMAND CENTER TO MEET FIRE ALARM CODE & SURVIVABILITY REQUIREMENTS.) SUITABLE FOR 2-HOUR FIRE RESISTIVE USES IN CONDUIT* OR OUTSIDE OF CONDUIT. LISTED FOR POWER-LIMITED SYSTEMS (72V). SUITABLE FOR USE IN NON-POWER LIMITED SYSTEMS (75C.) SUITABLE FOR USE IN RISERS.

COMPLIANCE: NEC FPLR-CI (UL), 2-HOUR FIRE RESISTIVE TEST UL2196 WITHOUT CONDUIT, UL2196 IN CONDUIT*, NEC ARTICLE 760, UL1424 FOR POWER-LIMITED FIRE-ALARM CIRCUITS. FLAME RATING UL1666, NFPA-72.

PRINT: "TAPPAN WIRE & CABLE-R ICON-CI/CIC™ #C #AWG FPLR-CI 75C (UL) / (UL) CLASSIFIED FIRE RESISTIVE CABLE FOR USE IN ELECTRICAL CIRCUIT PROTECTIVE SYSTEMS-SYSTEM 32." SEQUENTIAL FOOTAGE MARKERS.

OPTIONS AVAILABLE: AVAILABLE ON 1000 FT STANDARD LENGTH SPOOLS - CONSULT FACTORY FOR OTHER LENGTHS. AVAILABLE WITH NON-POWER LIMITED LISTING AND NPLFR-CI 75C PRINT LEGEND (SAME CONSTRUCTION) - MINIMUMS APPLY, CONSULT FACTORY.

FPLR-CI UNSHIELDED ICON-CI/CIC™*

TAPPAN SPEC #	# COND.	AWG	INSUL THICKNESS (INCH)	JACKET THICKNESS (INCH)	NOMINAL O.D. (INCH)	MAXIMUM CONDUCTOR RESISTANCE PER MFT.	NOMINAL CAPACITANCE CONDUCTOR-CONDUCTOR (Pf / FT)	NET WEIGHT (LBS PER MFT)
SC4001.1	2	18 SOLID	.032	.046	.318	6.48	16	50
SC4002.1	4	18 SOLID	.032	.046	.361	6.48	16	75
SC4003.1	6	18 SOLID	.032	.046	.423	6.48	16	104
SC4004.1	8	18 SOLID	.032	.046	.456	6.48	16	129
SC5001.1	2	16 SOLID	.032	.046	.334	4.10	18	60
SC5002.1	4	16 SOLID	.032	.046	.380	4.10	18	94
SC6001.1	2	14-7 STR	.032	.046	.374	2.60	20	77
SC6006.1	2	14 SOLID	.032	.046	.360	2.60	20	74
SC6002.1	4	14-7 STR	.032	.046	.429	2.60	20	124
SC7001.1	2	12-7 STR	.032	.046	.412	1.64	21	98
SC7002.1	4	12-7 STR	.032	.046	.474	1.64	21	166

Note: Weights and Dimensions are nominal, and subject to normal manufacturing tolerances. Dimensional specifications are subject to change for materials and process improvements not affecting cable qualifications or functionality."

* UL Classified Fire Resistive Cable for use in Electrical Circuit Protective Systems - System 32. See UL Fire Resistive Directory.



2-Hour Fire Rated Cables – Circuit Integrity Shielded 18 AWG CI

✓ NEC TYPE FPLR-CI; For Use Without Conduit



Fire Resistive Cables

- CONSTRUCTION:** BARE COPPER CONDUCTORS, SOLID, CERAMIFIABLE SILICONE RUBBER INSULATION, REINFORCED ALUMINUM FOIL TAPE SHIELD, DRAIN WIRE, MICA TAPE, CABLED, RED FRPE LSZH JACKET, INSULATION RATED FOR 300 VOLTS, 75°C COLOR CODE - 2/C: BLACK & RED COLORED INSULATION. 4/C AND ABOVE: BLACK INSULATION WITH PRINTED NUMBERS.
- APPLICATIONS:** FIRE ALARM CIRCUIT INTEGRITY (NEC ARTICLE 760), EMERGENCY SYSTEMS (NEC ARTICLES 700) SURVIVABILITY FROM ATTACK BY FIRE (MUST BE CONNECTED TO FIRE COMMAND CENTER TO MEET FIRE ALARM CODE & SURVIVABILITY REQUIREMENTS.) SUITABLE FOR 2-HOUR FIRE RESISTIVE USES OUTSIDE OF CONDUIT. LISTED FOR POWER-LIMITED SYSTEMS (72V). SUITABLE FOR USE IN NON-POWER LIMITED SYSTEMS (75C.) SUITABLE FOR USE IN RISERS.
- COMPLIANCE:** NEC FPLR-CI (UL), 2-HOUR FIRE RESISTIVE TEST UL2196 WITHOUT CONDUIT. NEC ARTICLE 760, UL1424 FOR POWER-LIMITED FIRE-ALARM CIRCUITS. FLAME RATING UL1666, NFPA-72.
- PRINT:** "TAPPAN WIRE & CABLE-R CI #C #AWG SHIELDED FPLR-CI 75C (UL)" SEQUENTIAL FOOTAGE MARKERS.
- OPTIONS AVAILABLE:** AVAILABLE ON 1000 FT STANDARD LENGTH SPOOLS - CONSULT FACTORY FOR OTHER LENGTHS. AVAILABLE WITH NON-POWER LIMITED LISTING AND NPLFR-CI 75C PRINT LEGEND (SAME CONSTRUCTION) - MINIMUMS APPLY, CONSULT FACTORY.

FPLR-CI SHIELDED 18AWG CI

TAPPAN SPEC #	# COND.	AWG	INSUL THICKNESS (INCH)	JACKET THICKNESS (INCH)	NOMINAL O.D. (INCH)	MAXIMUM CONDUCTOR RESISTANCE PER MFT.	NOMINAL CAPACITANCE CONDUCTOR- CONDUCTOR (Pf / FT)	NET WEIGHT (LBS PER MFT)
SC4009.I	2	18 SOLID	.032	.046	.322	6.48	16	56
SC4010.I	4	18 SOLID	.032	.046	.365	6.48	16	81
SC4011.I	6	18 SOLID	.032	.046	.428	6.48	16	110
SC4012.I	8	18 SOLID	.032	.046	.462	6.48	16	136

Note: Weights and Dimensions are nominal, and subject to normal manufacturing tolerances. Dimensional specifications are subject to change for materials and process improvements not affecting cable qualifications or functionality."



2-Hour Fire Rated Cables – CIC

Shielded 18 AWG

✓ CIC* In-Conduit solution



Fire Resistive Cable for Conduit System*

CONSTRUCTION: BARE COPPER CONDUCTORS, SOLID, CERAMIFIABLE SILICONE RUBBER INSULATION, REINFORCED COPPER FOIL TAPE SHIELD, DRAIN WIRE, MICA TAPE, CABLED, RED FRPE LSZH JACKET, INSULATION RATED FOR 300 VOLTS, 75°C COLOR CODE - 2/C: BLACK & RED COLORED INSULATION. 4/C AND ABOVE: BLACK INSULATION WITH PRINTED NUMBERS.

APPLICATIONS: FIRE ALARM CIRCUIT INTEGRITY - CONDUIT SYSTEM (NEC ARTICLE 760), EMERGENCY SYSTEMS (NEC ARTICLES 700 AND 517) SURVIVABILITY FROM ATTACK BY FIRE (MUST BE CONNECTED TO FIRE COMMAND CENTER TO MEET FIRE ALARM CODE & SURVIVABILITY REQUIREMENTS.) SUITABLE FOR 2-HOUR FIRE RESISTIVE USES IN CONDUIT*. LISTED FOR POWER-LIMITED SYSTEMS (72V). SUITABLE FOR USE IN NON-POWER LIMITED SYSTEMS (75C.)

COMPLIANCE: NEC FPLR (UL), 2-HOUR FIRE RESISTIVE TEST UL2196 IN CONDUIT*. NEC ARTICLE 760, UL1424 FOR POWER-LIMITED FIRE-ALARM CIRCUITS. FLAME RATING UL1666, NFPA-72.

PRINT: "TAPPAN WIRE & CABLE-R CIC #C #AWG SHIELDED FPLR 75C (UL) / (UL) CLASSIFIED FIRE RESISTIVE CABLE FOR USE IN ELECTRICAL CIRCUIT PROTECTIVE SYSTEMS-SYSTEM 32." SEQUENTIAL FOOTAGE MARKERS

OPTIONS AVAILABLE: AVAILABLE ON 1000 FT STANDARD LENGTH SPOOLS - CONSULT FACTORY FOR OTHER LENGTHS. AVAILABLE WITH NON-POWER LIMITED LISTING AND NPLFR 75C PRINT LEGEND (SAME CONSTRUCTION) - MINIMUMS APPLY, CONSULT FACTORY.

FPLR SHIELDED 18AWG CIC

TAPPAN SPEC #	# COND.	AWG	INSUL THICKNESS (INCH)	JACKET THICKNESS (INCH)	NOMINAL O.D. (INCH)	MAXIMUM CONDUCTOR RESISTANCE PER MFT.	NOMINAL CAPACITANCE CONDUCTOR-CONDUCTOR (Pf / FT)	NET WEIGHT (LBS PER MFT)
SC4013.1	2	18 SOLID	.032	.046	.321	6.48	16	56
SC4014.1	4	18 SOLID	.032	.046	.364	6.48	16	81
SC4015.1	6	18 SOLID	.032	.046	.426	6.48	16	110
SC4016.1	8	18 SOLID	.032	.046	.460	6.48	16	136

Note: Weights and Dimensions are nominal, and subject to normal manufacturing tolerances. Dimensional specifications are subject to change for materials and process improvements not affecting cable qualifications or functionality."

* UL Classified Fire Resistive Cable for use in Electrical Circuit Protective Systems - System 32. See UL Fire Resistive Directory.



2-Hour Fire Rated Cables – Circuit Integrity Shielded 16 AWG – 12 AWG

- ✓ NEC TYPE FPLR-CI; FOR USE WITHOUT CONDUIT
- ✓ CIC* In-Conduit solution



ICON-CI/CIC™ – Fire Resistive Cables; and Cable for Conduit System*

- CONSTRUCTION:** BARE COPPER CONDUCTORS, SOLID OR STRANDED, CERAMIFIABLE SILICONE RUBBER INSULATION, REINFORCED COPPER FOIL TAPE SHIELD, DRAIN WIRE, MICA TAPE, CABLED, RED FRPE LSZH JACKET, INSULATION RATED FOR 300 VOLTS, 75°C COLOR CODE - 2/C: BLACK & RED COLORED INSULATION. 4/C AND ABOVE: BLACK INSULATION WITH PRINTED NUMBERS.
- APPLICATIONS:** FIRE ALARM CIRCUIT INTEGRITY (NEC ARTICLE 760), EMERGENCY SYSTEMS (NEC ARTICLES 700 AND 517) SURVIVABILITY FROM ATTACK BY FIRE (MUST BE CONNECTED TO FIRE COMMAND CENTER TO MEET FIRE ALARM CODE & SURVIVABILITY REQUIREMENTS.) SUITABLE FOR 2-HOUR FIRE RESISTIVE USES IN CONDUIT* OR OUTSIDE OF CONDUIT. LISTED FOR POWER-LIMITED SYSTEMS (72V). SUITABLE FOR USE IN NON-POWER LIMITED SYSTEMS (75C.) SUITABLE FOR USE IN RISERS.
- COMPLIANCE:** NEC FPLR-CI (UL), 2-HOUR FIRE RESISTIVE TEST UL2196 WITHOUT CONDUIT, UL2196 IN CONDUIT*, NEC ARTICLE 760, UL1424 FOR POWER-LIMITED FIRE-ALARM CIRCUITS. FLAME RATING UL1666, NFPA-72.
- PRINT:** "TAPPAN WIRE & CABLE-R ICON-CI/CIC™ #C #AWG SHIELDED FPLR-CI 75C (UL) / (UL) CLASSIFIED FIRE RESISTIVE CABLE FOR USE IN ELECTRICAL CIRCUIT PROTECTIVE SYSTEMS-SYSTEM 32." SEQUENTIAL FOOTAGE MARKERS.
- OPTIONS AVAILABLE:** AVAILABLE ON 1000 FT STANDARD LENGTH SPOOLS - CONSULT FACTORY FOR OTHER LENGTHS. AVAILABLE WITH NON-POWER LIMITED LISTING AND NPLFR-CI 75C PRINT LEGEND (SAME CONSTRUCTION) - MINIMUMS APPLY, CONSULT FACTORY.

FPLR-CI SHIELDED ICON-CI/CIC™*

TAPPAN SPEC #	# COND.	AWG	INSUL THICKNESS (INCH)	JACKET THICKNESS (INCH)	NOMINAL O.D. (INCH)	MAXIMUM CONDUCTOR RESISTANCE PER MFT.	NOMINAL CAPACITANCE CONDUCTOR-CONDUCTOR (Pf / FT)	NET WEIGHT (LBS PER MFT)
SC5007.I	2	16 SOLID	.032	.046	.339	4.10	18	67
SC5008.I	4	16 SOLID	.032	.046	.386	4.10	18	101
SC6007.I	2	14-7 STR	.032	.046	.245	2.60	20	84
SC6011.I	2	14 SOLID	.032	.046	.238	2.60	20	82
SC6008.I	4	14-7 STR	.032	.046	.435	2.60	20	131
SC7007.I	2	12-7 STR	.032	.046	.415	1.64	21	107
SC7008.I	4	12-7 STR	.032	.046	.478	1.64	21	175

Note: Weights and Dimensions are nominal, and subject to normal manufacturing tolerances. Dimensional specifications are subject to change for materials and process improvements not affecting cable qualifications or functionality."

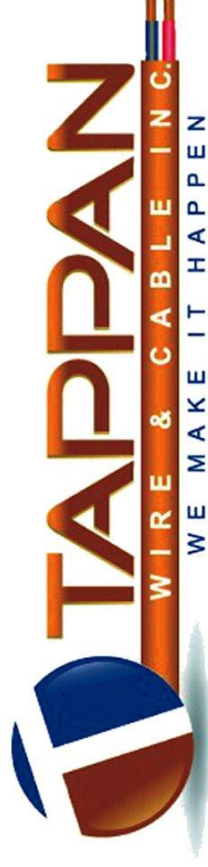
* UL Classified Fire Resistive Cable for use in Electrical Circuit Protective Systems - System 32. See UL Fire Resistive Directory.

Searching for the Classics?

*your search
is over...*



**EXPLORE OUR
CABLE-BILITIES[™]**



Competitive Cross-Reference

by Belden P/N



BELDEN #	TAPPAN P/N	TYPE	TAPPAN SPEC#	BELDEN #	TAPPAN P/N	TYPE	TAPPAN SPEC#
8104	2466AT4M/CL3R	CM/CL2	L19919	5304UE	1880AB6/CMR	CMR/CL3R	R40015
8205	2080AT2/	CMR/CL3R	R30160	5306FE	1880AB8M/CMR	CMR/CL3R	R40014
8303	2266AT3M/NO-DRAIN	CMR/CL3R	R29544	5306UE	1880AB8/CMR	CMR/CL3R	R40052
8444	2280AT4/CMR	CMR/CL3R	R20787	5308UE	1880AB10/CMR	CMR/CL3R	R40054
8451	2280AT2M/PP	CM/CL3	A20288	5309UE	1880AB12/CMR	CMR/CL3R	R40024
8473	1480AT2/	CMR/CL3R	R60091	5320FL	1880BB2M/FPLR	FPLR/CMR	F40099
8618	1680AT3M/CM	CM	L50003	5320UL	1880BB2/FPLR	FPLR/CMR	F40021
8620	1680AT3/CMR	CMR/CL3R	R50094	5322FL	1880BB4M/FPLR	FPLR/CMR	F40030
8691	1860AT6/CMR	CMR/CL3R	R49659	5322UL	1880BB4/FPLR	FPLR/CMR	F40003
8719	1680AT2M/CM	CM/CL3	L50004	5324UL	1880BB6/FPLR	FPLR/CMR	F40025
8720	1480AT2M/CL3	CM/CL3	L60001	5339Q5	18RG6X4/CM	CM/CL2	C40093
8723	2250AT2/CD	CM/CL3	A29925	5399B5	18RG6X2/CM	CM/CL2	C40094
8741	2260BT2/	CMR/CL3R	R29552	5400FE	2080AB2M/CMR	CMR/CL3R	R30024
8760	1880AT2M	CM/CL3	L40008	5400UE	2080AB2/CMR	CMR/CL3R	R30017
8760	1880AT2M/CM	CM	L40008	5401FE	2080AB3M/CMR	CMR/CL3R	R30041
8761	2280AT2M/CM	CM	L20013	5401UE	2080AB3/CMR	CMR/CL3R	R30008
8762	2080AT2M/CM	CM	L30009	5402FE	2080AB4M/CMR	CMR/CL3R	R30042
8770	1880AT3M/CM	CM/CL3	L40009	5402UE	2080AB4/CMR	CMR/CL3R	R30006
8771	2280AT3M/CM	CM	L20014	5500FE	2280AB2M/CMR	CMR/CL3R	R20007
8772	2080AT3M/CM	CM	L30004	5500UE	2280AB2/CMR	CMR/CL3R	R20004
8777	2250AT3/CM	CM/CL3	SM2994	5501FE	2280AB3M/CMR	CMR/CL3R	R20016
8778	2250AT6/PP/	CM/CL3	SM2992	5501UE	2280AB3/CMR	CMR/CL3R	R20044
8787	2480AT4M+	CM/CL2	H90478	5502FE	2280AB4M/CMR	CMR/CL3R	R20030
9156	1860AT2/CMR	CMR/CL3R	R49663	5502GE	2280AB2M2/CMR	CMR/CL3R	R20008
9316	1680AT2M/105DEG/	PLTC/CMR	U50003	5502UE	2280AB4/CMR	CMR/CL3R	R20045
9318	1880AT2M/	PLTC/CMR	U40010	5504FE	2280AB6M/CMR	CMR/CL3R	R20076
9363	2280AT3M/	PLTC/CMR	U20012	5504UE	2280AB6/CMR	CMR/CL3R	R20047
9409	1880AT2/	PLTC/CMR	U40011	5506FE	2280AB8M/CMR	CMR/CL3R	R20024
9444	2080AT4/CMR	CMR/CL3R	R30240	5506UE	2280AB8/CMR	CMR/CL3R	R20025
9460	1880AT2M/PRE/	CM/CL3	L40020	5508FE	2280AB10M/CMR	CMR/CL3R	R20488
9462	2280AT2M/	CMR/CL3R	R20878	5508UE	2280AB10/CMR	CMR/CL3R	R20051
9495	1480AT3/	PLTC/CL3R	U60009	5520FE	2280BB2M/CMR	CMR/CL3R	R20540
9506	2460AT6M/CMR	CMR/CL3R	R19769	5520UE	2280BB2/CMR	CMR/CL3R	R20374
9513	2260AT4M/	PLTC/CMR	U29990	5522FL	2280BB4M/FPLR	FPLR	F20017
9533	2480AT3M/CMR	CMR/CL3R	R10181	5522UL	2280BB4/FPLR	FPLR/CMR	F20004
9534	2480AT4M/CMR	CMR/CL3R	R10182	5582UE	2280BB4/CMR	CMR/CL3R	R20376
9538	2480AT8M	CMR/CL2R	R10163	6000FE	1280AB2M/CL3P	CMP/CL3P	P70006
9728	2450AT4/FO/	CM/CL2	L19888	6000UE	1280AB2/CL3P	CMP/FPLP	P70031
9729	2450AT2/FO/	CM/CL2	L19887	6020FL	1280BB2M/FPLP	FPLP/CL3P	G70019
9730	2450AT3/FO/	CM/CL2	L19886	6020UL	1280BB2/FPLP	FPLP/CL3P	G70009
9740	1880AT2/CMR	CMR/CL3R	R41006	6100FE	1480AB2M/CL3P	CMP/CL3P	P60022
9829	2466AT2M/PE/	CM/CL2	L19909	6100UE	1480AB2/CL3P	CMP/CL3P	P60040
9830	2466AT3M/PE/	CM/CL2	L19908	6102UE	1480AB4/CL3P	CMP/CL3P	P60013
9842	2469AT2M	CM/CL2	L19954	6120FL	1480BB2M/FPLP	FPLP/CL3P	G60025
9873	2050AT3/CM	CM	L39997	6120UL	1480BB2/FPLP	FPLP/CL3P	G60004
9925	2486AT3M/CM		L10040	6122FL	1480BB4M/FPLP	FPLP/CL3P	G60050
9993	2450AT12/PE	CM/CL2	SM1994	6122UL	1480BB4/FPLP	FPLP/CL3P	G60041
82760	1880AT2M/	CMP/CL3P	P41111	6200FE	1680AB2M/CMP	CMP/CL3P	P50002
82761	2280AT2M/FEP	CMP/CL3P	M20027	6200UE	1680AB2/CMP	CMP/CL3P	P50032
83503	2488AT3M/CMP	CMP/CL3P	T10002	6202FE	1680AB4M/CMP	CMP/CL3P	P50023
83602	2088AT2M/CMP	CMP/CL3P	T30002	6202UE	1680AB4/CMP	CMP/CL3P	P50059
83653	1888AT3M/CMP	CMP/CL3P	T40039	6220FL	1680BB2M/FPLP	FPLP/CMP	G50013
88102	2460AT2M/CMP		K19970	6220UL	1680BB2/FPLP	FPLP/CMP	G50106
88103	2460AT3M/CMP		K19955	6222FL	1680BB4M/FPLP	FPLP/CMP	G50054
88444	2280AT4/CMP	CMP/CL3P	T20011	6222UL	1680BB4/FPLP	FPLP/CMP	G50044
88760	1880AT2M/CMP	CMP/CL3P	T40030	6300FE	1880AB2M/CMP	CMP/CL3P	P40133
88761	2280AT2M/CMP	CMP/CL3P	T20010	6300UE	1880AB2/CMP	CMP/CL3P	P40020
88777	2250AT3/CMP	CMP/CL3P	T29978	6301FE	1880AB3M/CMP	CMP/CL3P	P40032
88778	2250AT6/CMP	CMP/CL3P	T29981	6301UE	1880AB3/CMP	CMP/CL3P	P40024
89728	2450AT4/CMP	CMP/CL2P	K19990	6302FE	1880AB4M/CMP	CMP/CL3P	P40073
89729	2450AT2/CMP	CMP/CL2P	K19998	6302UE	1880AB4/CMP	CMP/CL3P	P40031
89740	1880AT2/CMP	CMP/CL3P	T40026	6304FE	1880AB6M/CMP	CMP/CL3P	P40040
513945	14RG11FM/CL3	CL3P	C60003	6304UE	1880AB6/CMP	CMP/CL3P	P40064
539945	18RG6FM+18/2/CM	CM/CL2	H90767	6306FE	1880AB8M/CMP	CMP/CL3P	P40070

Competitive Cross-Reference

by Belden P/N



BELDEN #	TAPPAN P/N	TYPE	TAPPAN SPEC#	BELDEN #	TAPPAN P/N	TYPE	TAPPAN SPEC#
543945	20RG59FM/CM	CM/CL2	C30022	6306UE	1880AB8/CMP	CMP/CL3P	P40030
613948	P14RG11FM/CL3P	CL3P	D60001	6308UE	1880AB10/CMP	CMP/CL3P	P40166
633948	P18RG6FM/CMP	CMP/CL2P	D40012	6309FE	1880AB12M/CMP	CMP/CL3P	P40139
639948	P18RG6FM+18/2/CMP	CM/CL2	H90794	6309UE	1880AB12/CMP	CMP/CL3P	P40168
643948	P20RG59FM/CMP	CMP	D30009	6320FL	1880BB2M/FPLP	FPLP/CMP	G40006
1523A	14CCSRG11X2/CL3	CL3P	C60008	6320UL	1880BB2/BK&R/	FPLP/CMP	G40005
1523AP	P14CCSRG11X2/CL3P	CL3P	D90011	6322FL	1880BB4M/FPLP	FPLP/CMP	G40296
1617A	14CCSRG11X4/CL3	CL3P	C60006	6322UL	1880BB4/FPLP	FPLP/CMP	G40040
5000FE	1280AB2M/CL3R	CMR/CL3R	R70010	6324UL	1880BB6/FPLP	FPLP/CMP	G40436
5000UE	1280AB2/CL3R	CMR/CL3R	R70003	6339Q8/ 1189AP	P18CCSRG6X4/CMP	CMP/CL2P	D40019
5020FL	1280BB2M/FPLR	FPLR/CL3R	F70015	6400FE	2080AB2M/CMP	CMP/CL3P	P30006
5020UL	1280BB2/FPLR	FPLR/CL3R	F70004	6400UE	2080AB2/CMP	CMP/CL3P	P30016
5100FE	1480AB2M/CL3R	CMR/CL3R	R60052	6401FE	2080AB3M/CMP	CMP/CL3P	P30045
5100UE	1480AB2/CL3R	CMR/CL3R	R60012	6401UE	2080AB3/CMP	CMP/CL3P	P30033
5102UE	1480AB4/CL3R	CMR/CL3R	R60014	6402FE	2080AB4M/CMP	CMP/CL3P	P30003
5120FL	1480BB2M/FPLR	FPLR/CL3R	F60030	6402UE	2080AB4/CMP	CMP/CL3P	P30047
5120UL	1480BB2/FPLR	FPLR/CL3R	F60001	6500FE	2280AB2M/CMP	CMP/CL3P	P20032
5122FL	1480BB4M/FPLR	FPLR/CL3R	F60111	6500UE	2280AB2/CMP	CMP/CL3P	P20031
5122UL	1480BB4/FPLR	FPLR/CL3R	F60112	6501FE	2280AB3M/CMP	CMP/CL3P	P20043
5200FE	1680AB2M/CMR	CMR/CL3R	A50039	6501UE	2280AB3/CMP	CMP/CL3P	P20134
5200UE	1680AB2/CMR	CMR/CL3R	R50003	6502FE	2280AB4M/CMP	CMP/CL3P	P20270
5202FE	1680AB4M/CMR	CMR/CL3R	R50031	6502UE	2280AB4/CMP	CMP/CL3P	P20035
5202UE	1680AB4/CMR	CMR/CL3R	R50045	6504FE	2280AB6M/CMP	CMP/CL3P	P20019
5220FL	1680BB2M/FPLR	FPLR/CMR	F50010	6504UE	2280AB6/CMP	CMP/CL3P	P20008
5220UL	1680BB2/FPLR	FPLR/CMR	F50004	6506FE	2280AB8M/CMP	CMP/CL3P	P20037
5222FL	1680BB4M/FPLR	FPLR/CMR	F50030	6506UE	2280AB8/CMP	CMP/CL3P	P20018
5222UL	1680BB4/FPLR	FPLR/CMR	F50011	6508FE	2280AB10M/CMP	CMP/CL3P	P20022
5300FE	1880AB2M/CMR	CMR/CL3R	R40013	6509UE	2280AB12/CMP	CMP/CL3P	P20044
5300UE	1880AB2/CMR	CMR/CL3R	R40018	6520FE	2280BB2M/CMP	CMP/CL3P	P20178
5301FE	1880AB3M/CMR	CMR/CL3R	R40003	6520UE	2280BB2/CMP	CMP/CL3P	P20175
5301UE	1880AB3/CMR	CMR/CL3R	R40048	6522FL	2280BB4M/FPLP	FPLP/CMP	G20338
5302FE	1880AB4M/CMR	CMR/CL3R	R40005	6522UE	2280BB4/CMP	CMP/CL3P	P20177
5302UE	1880AB4/CMR	CMR/CL3R	R40049	6522UL	2280BB4/FPLP	FPLP/CMP	G20342
5304FE	1880AB6M/CMR	CMR/CL3R	R40611	9116P	P18CCSRG6X2/CMP	CMP/CL2P	D40018

This cross reference guide should be used in conjunction with the product information contained in our catalog and/or our Website. It should be used for suggested alternative items which are functionally equal. Tappan Wire & Cable is not responsible for variances due to competitor and industry constructional changes or updates. Please consult our Sales & Customer Service personnel if you have any questions prior to ordering.



Classic Interconnect Cables Industrial and Machine Grade



Unshielded Multi-Core Cables – PVC Insulation

APPLICATIONS:: Control, Instrumentation, Low Voltage Power, Audio, Speaker, and Communication Circuits.

CONSTRUCTION: Tinned high-conductivity copper conductors, color coded PVC Insulation, cabled, overall PVC jacket.

COMPLIANCE: Cables are manufactured to meet the requirements of industrial applications and those of manual bench assembly or automated assembly operations. Cables are manufactured to AWM standards where indicated.

Unshielded, PVC Insulated, Non-Plenum Cabled Multiconductor

CONSTR.	AWG	STR.	MAT'L INS / JKT	STYLES / TYPES	TEMP. RATINGS	VOLT RATING (RMS)	NOM DIA (IN)	APPROX WEIGHT LBS/MFT	TAPPAN SPEC #
22 AWG									
1 Pair	22	7 TC	PVC / PVC	CMR	-20C / +60C	300V	0.170	15.0	R20786
3 Cond.	22	7 TC	PVC / PVC	CMR AWM 2576	-20C / +60C -20C / +80C	300V 150V	0.172	18.0	R21158
4 Cond.	22	7 TC	PVC / PVC	CMR AWM 2576	-20C / +60C -20C / +80C	300V 150V	0.185	22.0	R20787
20 AWG									
7 Cond.	20	19 TC	PVC / PVC	CMR AWM 2464	-20C / +80C -20C / +80C	300V 300V	0.260	51.0	R30242
18 AWG									
1 Pair	18	19 TC	PVC / PVC	CMR AWM 2464	-20C / +80C -20C / +80C	300V 300V	0.210	24.0	R41006
4 Cond.	18	19 TC	PVC / PVC	CMR AWM 2598	-20C / +60C -20C / +60C	300V 300V	0.257	46.0	R41184
16 AWG									
1 Pair	16	19 TC	PVC / PVC	CMR AWM 2598	-20C / +80C -20C / +60C	300V 300V	0.274	24.0	R41006



Classic Interconnect Cables Industrial and Machine Grade



Shielded Multi-Core Cables – PVC or PE Insulation

APPLICATIONS:: Control, Instrumentation, Low Voltage Power, Audio, Speaker, and Communication Circuits; where a foil shield and drain wire are desired for EMI noise rejection.

CONSTRUCTION: Tinned copper conductors, color coded PVC or PE Insulation, cabled, aluminum foil shield tape (polyester reinforced), tinned copper drain wire sized appropriately, overall PVC jacket.

COMPLIANCE: Cables are manufactured to meet the requirements of industrial applications and those of manual bench assembly or automated assembly operations. Cables are manufactured to AWM standards where indicated.

Shielded, PVC or PE Insulated, Non-Plenum Cabled or Paired Multi core.

CONSTR.	AWG	STR.	MAT'L INS / JKT Capacitance	STYLES / TYPES	TEMP. RATINGS	VOLT RATING (RMS)	NOM DIA (IN)	APPROX WEIGHT LBS/MFT	TAPPAN SPEC #
24 AWG RS-232									
1 Pair Shld. RS-232	24	7 TC	PVC / PVC 40 pF/ft	CMR AWM 2464	-30C / +80C	300V	0.156	14.0	R10204
3 Cond. Shld RS-232	24	7 TC	PVC / PVC 33 pF/ft	CMR AWM 2464	-30C / +80C	300V	0.162	18.0	R10181
4 Cond. Shld RS-232	24	7 TC	PVC / PVC 33 pF/ft	CMR AWM 2464	-30C / +80C	300V	0.184	21.0	R10182
22 AWG									
1 Pair Shld.	22	7 TC	PE / PVC 24 pF/ft	CM AWM 2092	-20C / +60C	300V	0.175	17.0	L20013
3 Cond. Shld	22	7 TC	PE / PVC 23 pF/ft	CM AWM 2093	-20C / +60C	300V	0.199	23.0	L20014
20 AWG									
3 Cond. Shld	20	7 TC	PE / PVC 27 pF/ft	CM AWM 2093	-20C / +60C	300V	0.218	31.0	L30004
18 AWG									
1 Pair Shld.	18	19 TC	PE / PVC 30 pF/ft	CM AWM 2092	-20C / +60C	300V	0.222	28.0	L40008
3 Cond. Shld	18	19 TC	PE / PVC 24 pF/ft	CM AWM 2093	-20C / +60C	300V	0.246	37.0	L40009
4 Cond. Shld	18	19 TC	PVC / PVC 70 pF/ft	CMR AWM 2464	-20C / +80C	300V	0.245	44.0	R40893



Classic Interconnect Cables Industrial and Machine Grade



Multi-Pairs; Each Pair Shielded Cables

APPLICATIONS:: Control, Instrumentation, Audio, and Communication Circuits; where foil shields and drain wires are desired for EMI noise rejection. RS-422 and AWM Style application as shown.

CONSTRUCTION: Tinned copper conductors, color coded Insulation, twisted pairs individually shielded (Al-Polyester tape), drain wire(s); multiple shielded pairs cabled, overall PVC jacket.

COMPLIANCE: Cables are manufactured to meet the requirements of industrial applications and those of manual bench assembly or automated assembly operations. RS-422 and AWM compliant as indicated.

Paired, Each Pair Shielded, Non-Plenum Cables

CONSTR.	AWG	STR.	MAT'L INS / JKT Capacitance	STYLES / TYPES	TEMP. RATINGS	VOLT RATING (RMS)	NOM DIA (IN)	APPROX WEIGHT LBS/MFT	TAPPAN SPEC #
24 AWG RS-422 100Ω AWM 2493									
2 Pairs EPS	24	7 TC	FPE / PVC 13 pF/ft	CM AWM 2493	-20C / +80C -20C / +60C	300V	0.266	39.0	L19887
22 AWG									
2 Pairs EPS*	22	7 TC	PP / PVC 33 pF/ft	CM	-30C / +60C	300V	0.160	19.0	A29925
3 Pairs EPS	22	7 TC	PP / PVC 30 pF/ft	CM AWM 2919	-20C / +80C -20C / +80C	300V 30V	0.273	40.0	SM2994
20 AWG									
3 Pairs EPS	20	7 TC	PP / PVC 30 pF/ft	CM AWM 2919	-20C / +80C -20C / +80C	300V 30V	0.341	67.0	L39997

*Single drain wire common to both shielded pairs.



Classic Interconnect Cables Industrial and Machine Grade



RS-485. Foil+Braid Shielded Multi-Core Cables

APPLICATIONS:: RS-485 data transmission, low capacitance microprocessor interconnect, low speed data and machine control.

CONSTRUCTION: Tinned copper conductors, color coded PE Insulation, paired and cabled, aluminum foil shield tape (polyester reinforced), tinned copper braid, overall PVC jacket.

COMPLIANCE: EIA RS-485, AWM 2919. CM (UL)

RS-485 PE/PVC Foil+Braid Shielded

CONSTR.	AWG	STR.	MAT'L INS / JKT Impedance	STYLES / TYPES	TEMP. RATINGS	VOLT RATING (RMS)	NOM DIA (IN)	APPROX WEIGHT LBS/MFT	TAPPAN SPEC #
24 AWG RS-485 AWM 2919									
1 Pair Shld. RS-485	24	7 TC	PE / PVC 120Ω	CM AWM 2919	-30C / +80C -30C / +80C	300V 30V	0.232	40.0	L19827
2 Pair O/A Shld. RS-485	24	7 TC	PE / PVC 120Ω	CM AWM 2919	-30C / +80C -30C / +80C	300V 30V	0.353	57.0	L19954



Classic Interconnect Cables – FEP Insulation Industrial and Machine Grade



Unshielded Multi-Core Cables – FEP Insulation / Plenum

APPLICATIONS:: Control, Instrumentation, Low Voltage Power, Audio, Speaker, and Communication Circuits.

CONSTRUCTION: Tinned high-conductivity copper conductors, color coded FEP Insulation, cabled, overall jacket per table

COMPLIANCE: Cables are manufactured to meet the requirements of industrial applications and those of manual bench assembly or automated assembly operations.

Unshielded, FEP Insulated, Plenum Cabled Multiconductor

CONSTR.	AWG	STR.	MAT'L INS / JKT	STYLES / TYPES	TEMP. RATINGS	VOLT RATING (RMS)	NOM DIA (IN)	APPROX WEIGHT LBS/MFT	TAPPAN SPEC #
18 AWG									
1 Pair	18	19 TC	FEP / LS-PVC	CMP	0C / +75C	300V	0.143	15.0	M40096
1 Pair	18	19 TC	FEP / FEP	CMP	-70C / +200C	300V	0.132	15.0	T40026
4 Cond.	18	19 TC	FEP / LS-PVC	CMP	0C / +75C	300V	0.166	29.0	M40063
4 Cond.	18	19 TC	FEP / FEP	CMP	-70C / +200C	300V	0.156	28.0	T40037



Classic Interconnect Cables – FEP Insulation Industrial and Machine Grade



Shielded Multi-Core Cables – FEP Insulation / Plenum

APPLICATIONS:: Control, Instrumentation, Low Voltage Power, Audio, Speaker, and Communication Circuits; where a foil shield and drain wire are desired for EMI noise rejection. For use in Plenum spaces. For use where FEP insulation, or FEP insulation and jacket are specified.

CONSTRUCTION: Tinned copper conductors, color coded FEP insulation, cabled (or paired and cabled), overall aluminum foil shield tape (polyester reinforced), tinned copper drain wire sized appropriately, overall jacket per table.

COMPLIANCE: NEC CMP (UL). Cables are manufactured to meet the requirements of industrial applications and those of manual bench assembly or automated assembly operations.

Shielded, FEP Insulated, Plenum rated Cabled or Paired Multi core.

CONSTR.	AWG	STR.	MAT'L INS / JKT Capacitance	STYLES / TYPES	TEMP. RATINGS	VOLT RATING (RMS)	NOM DIA (IN)	APPROX WEIGHT LBS/MFT	TAPPAN SPEC #
24 AWG RS-232									
1 Pair Shld. RS-232	24	7 TC	FEP / LS-PVC 31 pF/ft	CMP	-0C / +60C	300V	0.106	9.0	M19871
2 Pair Shld. RS-232 / 422 / 485	24 100Ω	7 TC	FEP / PVDF 13 pF/ft	CMP	-20C / +150C	300V	0.203	31.0	K19970
22 AWG									
1 Pair Shld.	22	7 TC	FEP / LS-PVC 35 pF/ft	CMP	-0C / +75C	300V	0.116	13.0	M20027
1 Pair Shld.	22	7 TC	FEP / PVDF 35 pF/ft	CMP	-20C / +150C	300V	0.116	11.0	K20029
1 Pair Shld.	22	7 TC	FEP / FEP 35 pF/ft	CMP	-70C / +200	300V	0.123	15.0	T20010
18 AWG									
1 Pair Shld.	18	19 TC	FEP / LS-PVC 51 pF/ft	CMP	-20C / +75C	300V	0.146	20.0	P41111
1 Pair Shld.	18	19 TC	FEP / PVDF 51 pF/ft	CMP	-20C / +150C	300V	0.146	20.0	P40010
1 Pair Shld.	18	19 TC	FEP / FEP 51 pF/ft	CMP	-70C / +200C	300V	0.153	22.0	T40030
3 Cond. Shld	18	19 TC	FEP / FEP 54 pF/ft	CMP	-70C / +200C	300V	0.155	28.0	T40047



Classic Interconnect Cables – FEP Insulation Industrial and Machine Grade



Multi-Pairs; Each Pair Shielded Cables ; FEP Insulation / Plenum

APPLICATIONS:: Control, Instrumentation, Audio, and Communication Circuits; where foil shields and drain wires are desired for EMI noise rejection. For use in plenums and harsh environments.

CONSTRUCTION: Tinned copper conductors, color coded FEP insulation, twisted pairs individually shielded (Al-Polyester tape), drain wire(s); multiple shielded pairs cabled, overall jacket per table.

COMPLIANCE: Cables are manufactured to meet the requirements of industrial applications and those of manual bench assembly or automated assembly operations. RS-422 and AWM compliant as indicated.

Paired, Each Pair Shielded, FEP Insulated Plenum Cables

CONSTR.	AWG	STR.	MAT'L INS / JKT Capacitance	STYLES / TYPES	TEMP. RATINGS	VOLT RATING (RMS)	NOM DIA (IN)	APPROX WEIGHT LBS/MFT	TAPPAN SPEC #
22 AWG									
2 Pairs EPS*	22	7 TC	FEP / LS-PVC 43 pF/ft	CMP	0C / +80C	300V	0.153	19.0	M29978
2 Pairs EPS*	22	7 TC	FEP / PVDF 35 pF/ft	CMP	-20C / +150C	300V	0.148	20.0	K29980
2 Pairs EPS*	22	7 TC	FEP / FEP 35 pF/ft	CMP	--70C / +200C	300V	0.148	19.0	T29982
3 Pairs EPS	22	7 TC	FEP / LS-PVC 43 pF/ft	CMP	0C / +80C	300V	0.237	39.0	M29940
3 Pairs EPS	22	7 TC	FEP / PVDF 31 pF/ft	CMP	-20C / +150C	300V	0.234	40.0	K29979
3 Pairs EPS	22	7 TC	FEP / FEP 31 pF/ft	CMP	--70C / +200C	300V	0.234	42.0	T29978

*Single drain wire common to both shielded pairs.



Classic Interconnect Cables – FEP Insulation Industrial and Machine Grade



Shielded Multi-Core Cables, Foil+Braid – FEP Insulation / Plenum

APPLICATIONS:: Control, instrumentation, low voltage power, and Communication Circuits. RS-485 Data Transmission where indicated, low capacitance microprocessor interconnect, low speed data and machine control. For use in plenums and harsh environments.

CONSTRUCTION: Tinned copper conductors, color coded FEP Insulation, cabled or paired and cabled, aluminum foil shield tape (polyester reinforced), tinned copper braid, overall jacket per table.

COMPLIANCE: Cables are manufactured to meet the requirements of industrial and harsh environment applications and those of manual bench assembly or automated assembly operations.

FEP Insulated, Foil+Braid Shielded, Plenum and Harsh Environments

CONSTR.	AWG	STR.	MAT'L INS / JKT Capacitance	STYLES / TYPES	TEMP. RATINGS	VOLT RATING (RMS)	NOM DIA (IN)	APPROX WEIGHT LBS/MFT	TAPPAN SPEC #
24 AWG RS-485									
1 Pair Shld. RS-485	24 120Ω	7 TC	FFEP/LS-PVC 22 pF/ft	CMP	0C / +75C	300V	0.204	26.0	M19899
1 Pair Shld. RS-485	24 120Ω	7 TC	FFEP / FEP 22 pF/ft	CMP	-70C / +200C +150C (UL)	300V	0.202	27.0	T19884
2 Pair O/A Shld. RS-485	24 120Ω	7 TC	FFEP/LS-PVC 22 pF/ft	CMP	0C / +75C	300V	0.273	42.0	M19896
2 Pair O/A Shld. RS-485	24 120Ω	7 TC	FFEP / FEP 22 pF/ft	CMP	-70C / +150C	300V	0.305	49.0	
20 AWG									
6 Cond. Shld	20	7 TC	FEP / FEP 26 pF/ft	CMP	-70C / +200C	300V	0.207	47.0	T30004
18 AWG									
1 Pair Shld.	18	19 TC	FEP / FEP 33 pF/ft	CMP	-70C / +200C	300V	0.171	27.0	T40038
3 Cond. Shld.	18	19 TC	FEP / FEP 33 pF/ft	CMP	-70C / +200C	300V	0.180	39.0	T40039
4 Cond. Shld.	18	19 TC	FEP / FEP 33 pF/ft	CMP	-70C / +200C	300V	0.195	46.0	T40040
9 Cond. Shld.	18	19 TC	FEP / FEP 33 pF/ft	CMP	-70C / +200C	300V	0.265	88.0	T40042
16 AWG									
1 Pair Shld.	16	19 TC	FEP / FEP 35 pF/ft	CMP	-70C / +200C	300V	0.196	40.0	T50040
3 Cond. Shld.	16	19 TC	FEP / FEP 35 pF/ft	CMP	-70C / +200C	300V	0.206	50.0	T50041



Communications Circuits Voice & Data Cables



CATEGORY 3 – TYPE CMR

CONSTRUCTION: 24 AWG SOLID BARE COPPER, SR-PVC INSULATION, POLYESTER RIP CORD, FR PVC JACKET. EACH PAIR HAS DIFFERENT LAY LENGTHS FOR CROSS-TALK PREVENTION.

APPLICATIONS: DESIGNED FOR USE IN DATA AND ANALOG & DIGITAL VOICE APPLICATIONS, AND FOR USE IN BACKBONE CABLING SYSTEMS AS DESCRIBED IN ANSI/TIA/EIA 568-B.2

COMPLIANCE: UL TYPE CMR, C (UL) CMG, IEEE 802.3, 10 Base T, ANSI/TIA/EIA 568-B.2 (CATEGORY 3) FLAME RATING UL 1666

PRINT: E118871 24 AWG TYPE CMR (UL) C (UL) CMG IEEE 802.3 10 BASE T ANSI/TIA/EIA 568-B.2 CATEGORY 3 MADE IN USA SEQUENTIAL FOOTAGE MARKINGS

OPTIONS AVAILABLE: VARIOUS JACKET COLORS & PACKAGING OPTIONS, CONSULT FACTORY FOR OTHER CONSTRUCTIONS

CATEGORY 3 TYPE CMR – RISER

NUMBER OF PAIRS	NOMINAL O.D. INCHES	JACKET COLOR	NET WEIGHT PER MFT	TAPPAN SPEC #
2	0.157	BLUE	12	I19998.1
2	0.157	BEIGE	12	I19998.2
2	0.157	GRAY	12	I19998.3
2	0.157	WHITE	12	I19998.4
3	0.168	BLUE	16	I19988.1
3	0.168	BEIGE	16	I19988.2
3	0.168	GRAY	16	I19988.3
4*	0.191	BLUE	21	I19990.1
4*	0.191	BEIGE	21	I19990.2
4*	0.191	GRAY	21	I19990.3
4*	0.191	WHITE	21	I19990.4
6	0.219	BLUE	29	I19997.1
6	0.219	BEIGE	29	I19997.2
6	0.219	GRAY	29	I19997.3
8	0.239	BLUE	37	I19996.1
12	0.280	BLUE	52	I19995.1
12	0.280	BEIGE	52	I19995.2
12	0.280	GRAY	52	I19995.3
25	0.375	BEIGE	99	I19986.2
25	0.375	GRAY	99	I19986.3
50	0.560	BEIGE	219	I90001.2
50	0.560	GRAY	219	I90001.3
100	0.770	GRAY	393	I90002.3
200	1.080	GRAY	744	I90003.3

Weights and dimensions are nominal and are subject to applicable industry tolerances.

*VERIFIED - PRINT LEGEND WILL INCLUDE ETL VERIFIED TO ANSI TIA/EIA 568-B.2

PR # COLOR CODE -Tip / Ring

1 - White-Blue & Blue-White	14- Black-Brown & Brown-Black
2 - White-Orange & Orange-White	15- Black-Gray & Gray-Black
3 - White-Green & Green-White	16- Yellow-Blue & Blue-Yellow
4 - White-Brown & Brown-White	17- Yellow-Orange & Orange-Yellow
5 - White-Gray & Gray-White	18- Yellow-Green & Green-Yellow
6 - Red-Blue & Blue-Red	19- Yellow-Brown & Brown-Yellow
7 - Red-Orange & Orange-Red	20- Yellow-Gray & Gray-Yellow
8 - Red-Green & Green-Red	21- Violet-Blue & Blue-Violet
9 - Red-Brown & Brown-Red	22- Violet-Orange & Orange-Violet
10 - Red-Gray & Gray-Red	23- Violet-Green & Green-Violet
11- Black-Blue & Blue-Black	24- Violet-Brown & Brown-Violet
12- Black-Orange & Orange-Black	25- Violet-Gray & Gray-Violet
13- Black-Green & Green-Black	

Electrical Performance Data

Frequency	Max Attenuation	Near-End Crosstalk
	(dB/100m)	dB (min)
.256 kHz	1.3	n/a
.512 kHz	1.8	n/a
.772 kHz	2.2	43
1MHz	2.6	41
4 MHz	5.6	32
8 MHz	8.5	27
10 MHz	9.7	26
16 MHz	13.1	23

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Communications Circuits Voice & Data Cables



CATEGORY 3 – TYPE CMP

CONSTRUCTION:	24 AWG SOLID BARE COPPER, LOW SMOKE FR-PVC INSULATION, POLYESTER RIP CORD, LOW SMOKE FR PVC JACKET. EACH PAIR HAS DIFFERENT LAY LENGTHS FOR CROSS-TALK PREVENTION.
APPLICATIONS:	DESIGNED FOR USE IN DATA AND ANALOG & DIGITAL VOICE APPLICATIONS, AND FOR USE IN BACKBONE CABLING SYSTEMS AS DESCRIBED IN ANSI/TIA/EIA 568-B.2
COMPLIANCE:	UL TYPE CMP, C (UL) CMP, IEEE 802.3, 10 Base T, ANSI/TIA/EIA 568-B.2 (CATEGORY 3), FLAME RATING NFPA 262,CMP
PRINT:	E118871 24 AWG TYPE CMP (UL) C (UL) IEEE 802.3 10 BASE T ANSI/TIA/EIA 568-B.2 CATEGORY 3 MADE IN USA SEQUENTIAL FOOTAGE MARKINGS
OPTIONS AVAILABLE:	VARIOUS JACKET COLORS & PACKAGING OPTIONS - CONSULT FACTORY FOR OTHER CONSTRUCTIONS

CATEGORY 3 TYPE CMP – PLENUM

NUMBER OF PAIRS	NOMINAL O.D. INCHES	JACKET COLOR	NET WEIGHT PER MFT	TAPPAN SPEC #
2	0.156	WHITE	12	I19991.1
3	0.167	WHITE	16	I19987.1
4 *	0.182	WHITE	21	I19989.1
4 *	0.182	GRAY	21	I19989.2
4 *	0.182	BLUE	21	I19989.3
4 *	0.182	YELLOW	21	I19989.4
6	0.211	WHITE	28	I19992.1
8	0.232	WHITE	36	I19993.1
12	0.275	WHITE	52	I19994.1
25	0.377	WHITE	102	I19985.1
50	0.580	WHITE	224	I90004.1
100	0.840	WHITE	450	I90005.1
200	1.100	WHITE	852	I90006.1

Weights and dimensions are nominal and are subject to applicable industry tolerances.

*VERIFIED - PRINT LEGEND WILL INCLUDE ETL VERIFIED TO ANSI TIA/EIA 568-B.2

PR # COLOR CODE -Tip / Ring

1- White-Blue & Blue-White	14- Black-Brown & Brown-Black
2- White-Orange & Orange-White	15- Black-Gray & Gray-Black
3- White-Green & Green-White	16- Yellow-Blue & Blue-Yellow
4- White-Brown & Brown-White	17- Yellow-Orange & Orange-Yellow
5- White-Gray & Gray-White	18- Yellow-Green & Green-Yellow
6- Red-Blue & Blue-Red	19- Yellow-Brown & Brown-Yellow
7- Red-Orange & Orange-Red	20- Yellow-Gray & Gray-Yellow
8- Red-Green & Green-Red	21- Violet-Blue & Blue-Violet
9- Red-Brown & Brown-Red	22- Violet-Orange & Orange-Violet
10- Red-Gray & Gray-Red	23- Violet-Green & Green-Violet
11- Black-Blue & Blue-Black	24- Violet-Brown & Brown-Violet
12- Black-Orange & Orange-Black	25- Violet-Gray & Gray-Violet
13- Black-Green & Green-Black	

Electrical Performance Data

Frequency	Max Attenuation (dB/100m)	Near-End Crosstalk dB (min)
.256 kHz	1.3	n/a
.512 kHz	1.8	n/a
.772 kHz	2.2	43
1MHz	2.6	41
4 MHz	5.6	32
8 MHz	8.5	27
10 MHz	9.7	26
16 MHz	13.1	23



Communications Circuits Voice & Data Cables



Enhanced Category 5e – 350 Mhz

CONSTRUCTION:

24 AWG SOLID BARE COPPER, 4 UNSHIELDED TWISTED PAIRS, FRPE INSULATION, RIP CORD, FRPVC JACKET, OPERATING TEMPERATURE 75C, 300 VOLTS.

APPLICATIONS:

1000 BASE-T (GIGABIT ETHERNET); 100 BASE-T (FAST ETHERNET); 10 BASE-T (IEEE 802.3); 4/16 Mbps TOKEN RING (IEEE 802.5); 100 VG-Any LAN; 100 Mbps TP-PMD (ANSI X3T9.5); 55/155 Mbps ATM; VOICE, ISDN, Video to Desktop, Multimedia

COMPLIANCE:

ETL VERIFIED ANSI TIA/EIA-568B.2, UL SUBJECT 444, (UL) c(UL) TYPE CMR/CMG, TYPE CM/CMH, ICEA-S-90-661, NEC ARTICLE 800 TYPE CMR OR CM, ISO/TEC 11801.

PRINT:

E118871 (T) 4PR 24AWG CMR (UL) c(UL) 75C CSA CMG ETL VERIFIED TO ANSI TIA/EIA-568-B.2 CATEGORY 5E 350 MHZ. SEQUENTIAL FOOTAGE MARKING.

FEATURES/OPTIONS AVAILABLE:

AVAILABLE IN 1000 FT. BOXES OR REELS. REEL-IN-A-BOX UPON REQUEST. JACKET COLORS OTHER THAN LISTED BELOW, CONSULT FACTORY. COLOR CODE (Orange&White/Orange, Green & White/Green, Blue & White/Blue Brown & White/Brown).

RISER RATED - CMR



AWG	# PAIRS	IMP. OHMS	CABLE TYPE	NOM. O.D.	UL LISTINGS	AVG LBS PER MFT	TAPPAN SPEC #
24	4	100±15	UTP	.200	CMR, CMG	22	R19776.X

Jacket Color = .X 1 = gray, 3=blue, 4=white, 5=yellow, 7=red, 9=green

CONSTRUCTION:

24 AWG SOLID BARE COPPER, 4 UNSHIELDED TWISTED PAIRS, FEP INSULATION, RIP CORD, FRPVC JACKET, OPERATING TEMPERATURE 75C, 300 VOLTS.

APPLICATIONS:

1000 BASE-T (GIGABIT ETHERNET); 100 BASE-T (FAST ETHERNET); 10 BASE-T (IEEE 802.3); 4/16 Mbps TOKEN RING (IEEE 802.5); 100 VG-Any LAN; 100 Mbps TP-PMD (ANSI X3T9.5); 55/155 Mbps ATM; VOICE, ISDN, Video to Desktop, Multimedia

COMPLIANCE:

ETL VERIFIED ANSI TIA/EIA-568B.2 CATEGORY 5e, ISO/IEC 11801 Ed 2.0.(CLASS D) APPROVED FOR PLENUM USE WITHOUT CONDUIT PER NEC ARTICLE 800 BY PASSING UL-910 STEINER TUNNEL TEST AND CSA CMP. UL LISTED CMP c(UL).

PRINT:

E118871 4PR 24AWG CMP (UL) c(UL) ETL VERIFIED TO ANSI TIA/EIA-568-B.2 CATEGORY 5E 350 MHZ. SEQUENTIAL FOOTAGE MARKING.

FEATURES/OPTIONS AVAILABLE:

AVAILABLE IN 1000 FT. BOXES OR REELS. REEL-IN-A-BOX UPON REQUEST. JACKET COLORS OTHER THAN LISTED BELOW, CONSULT FACTORY. COLOR CODE (Orange&White/Orange, Green & White/Green, Blue & White/Blue, Brown & White/Brown).

PLENUM RATED - CMP



AWG	# PAIRS	IMP. OHMS	CABLE TYPE	NOM. O.D.	UL LISTINGS	AVG. LBS. PER MFT	TAPPAN SPEC #
24	4	100±15	UTP	.190	CMP	24	P19915.X

Jacket Color = .X 1 = white, 2=blue, 3=gray, 4=red, 5=yellow, 6=green

FREQUENCY (MHz)	ATTENUATION (dB/100m)	NEXT (dB)	ACR (dB)	PSNEXT (dB)	PSACR (dB)	ELFEXT (dB)	PS.ELFEXT (dB)	RETURN Loss (dB)	CHARACTERISTIC IMPEDANCE 1-350 MHz (OHMS)
1	2	74.3	72.3	72.3	70.3	67.8	64.8	20	100 ± 15
4	3.8	65.5	61.5	63.3	59.5	55.7	52.7	23	100 ± 15
8	5.4	60.8	55.4	58.8	53.4	49.7	46.7	24.5	100 ± 15
10	6	59.3	53.3	57.3	51.3	47.8	44.8	25	100 ± 15
16	7.6	56.3	48.7	54.3	46.7	43.7	40.7	25	100 ± 15
20	8.5	54.8	46.3	52.8	44.3	41.7	38.7	25	100 ± 15
25	9.6	53.3	43.7	51.3	41.7	39.8	36.8	24.3	100 ± 15
31.25	10.7	51	41.2	49.9	39.2	37.9	34.9	23.6	100 ± 15
62.5	15.5	47.4	31.9	45.1	29.9	31.8	28.8	21.5	100 ± 15
100	19.9	44.3	24.4	42.3	22.4	27.8	24.8	20.1	100 ± 15
155	25.3	41.5	16.2	39.5	14.2	23.9	20.9	18.8	100 ± 15
200	29.2	39.8	10.6	37.8	8.6	21.7	18.7	18	100 ± 15
240	36	32.6	-	30.6	-	16.2	13.2	17.4	100 ± 15
300	41	31.2	-	29.2	-	14.2	11.2	16.8	100 ± 15
350	44.9	30.1	-	28.1	-	12.9	9.9	16.3	100 ± 15



Communications Circuits Voice & Data Cables



Enhanced Category 6E – 550 Mhz

CONSTRUCTION:

23 AWG SOLID BARE COPPER, 4 UNSHIELDED TWISTED PAIRS, FRPE INSULATION, STAR FILLER, RIP CORD, FRPVC JACKET, OPERATING TEMPERATURE 75C, 300 VOLTS.

APPLICATIONS:

1000 BASE-T (GIGABIT ETHERNET); 100 BASE-T (FAST ETHERNET); 10 BASE-T (IEEE 802.3); 4/16 Mbps TOKEN RING (IEEE 802.5); 100 VG-Any LAN 55/155 Mbps ATM; 1.2 Gbps ATM (ATM Forum); 622 Mbps ATM (ATM Forum); 1 Gbps Networking System (WGNA): VOICE, ISDN

COMPLIANCE:

ANSI TIA/EIA-568B.2, UL SUBJECT 444, NEC ARTICLE 800 TYPE CMR (UL 1666) OR CM FT4, ISO/TEC 11801.

PRINT:

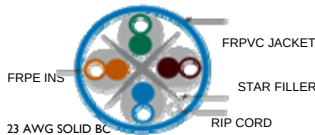
E118871 4PR 23AWG CMR (UL) c(UL) ETL VERIFIED TO ANSI TIA/EIA-568-B.2 CATEGORY 6E 550 MHZ. SEQUENTIAL FOOTAGE MARKING.

FEATURES/OPTIONS

AVAILABLE:

AVAILABLE IN 1000 FT. BOXES OR REELS. REEL-IN-A-BOX UPON REQUEST. JACKET COLORS OTHER THAN LISTED BELOW, CONSULT FACTORY. COLOR CODE (Orange&White/Orange, Brown & White/Brown, Blue & White/Blue, Green & White/Green)

RISER RATED - CMR



AWG	# PAIRS	IMP. OHMS	CABLE TYPE	NOM. O.D.	UL LISTINGS	AVG LBS PER MFT	TAPPAN SPEC #
23	4	100±15	UTP	.240	CMR	32	I99998.X

Jacket Color = .X 1 = gray, 2=blue, 3=white, 4=yellow, 5=green

CONSTRUCTION:

23 AWG SOLID BARE COPPER, 4 UNSHIELDED TWISTED PAIRS, FEP INSULATION, STAR FILLER, RIP CORD, FRPVC JACKET, OPERATING TEMPERATURE 75C, 300 VOLTS.

APPLICATIONS:

1000 BASE-T (GIGABIT ETHERNET); 100 BASE-T (FAST ETHERNET); 10 BASE-T (IEEE 802.3); 4/16 Mbps TOKEN RING (IEEE 802.5); 100 VG-Any LAN 55/155 Mbps ATM; 1.2 Gbps ATM (ATM Forum); 622 Mbps ATM (ATM Forum); 1 Gbps Networking System (WGNA): VOICE, ISDN

COMPLIANCE:

ANSI TIA/EIA-568 B.2, ISO/IEC 11801. APPROVED FOR PLENUM USE WITHOUT CONDUIT PER NEC ARTICLE 800 BY PASSING UL-910 STEINER TUNNEL TEST AND CSA CMP FT6. UL LISTED CMP(NFPA 262), UL 444.

PRINT:

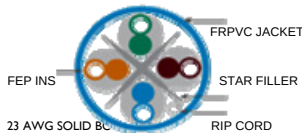
E118871 4PR 23AWG CMP (UL) c(UL) ETL VERIFIED TO ANSI TIA/EIA-568-B.2 CATEGORY 6E 550 MHZ. SEQUENTIAL FOOTAGE MARKING.

FEATURES/OPTIONS

AVAILABLE:

AVAILABLE IN 1000 FT. BOXES OR REELS. REEL-IN-A-BOX UPON REQUEST. JACKET COLORS OTHER THAN LISTED BELOW, CONSULT FACTORY. COLOR CODE (Orange&White/Orange, Brown & White/Brown, Blue & White/Blue, Green & White/Green)

PLENUM RATED - CMP



AWG	# PAIRS	IMP. OHMS	CABLE TYPE	NOM. O.D.	UL LISTINGS	AVG LBS PER MFT	TAPPAN SPEC #
23	4	100±15	UTP	.230	CMP	36	I99997.X

Jacket Color = .X 1=blue, 2=white

FREQUENCY (MHz)	ATTENUATION (dB/100m)	NEXT (dB)	ACR (dB)	PSNEXT (dB)	PSACR (dB)	ELFEXT (dB)	PS.ELFEXT (dB)	RETURN Loss (dB)	CHARACTERISTIC IMPEDANCE 1-350 MHz (OHMS)
1	2	76.3	74.3	74.3	72.3	67.8	64.8	20	100 ± 15
4	3.8	67.3	63.5	65.3	61.5	55.7	52.7	23	100 ± 15
8	5.3	62.8	57.5	60.8	55.5	49.7	46.7	24.5	100 ± 15
10	6	61.3	55.3	59.3	53.3	47.8	44.8	25	100 ± 15
16	7.6	58.3	50.7	56.3	48.7	43.7	40.7	25	100 ± 15
20	8.5	56.8	48.3	54.8	46.3	41.7	38.7	25	100 ± 15
25	9.5	55.3	45.8	53.3	43.8	39.8	36.8	24.3	100 ± 15
31.25	10.7	53.9	43.2	51.9	41.2	37.9	34.9	23.6	100 ± 15
62.5	15.4	49.4	34	47.4	32	31.8	28.8	21.5	100 ± 15
100	19.8	46.3	26.5	44.3	24.5	27.8	24.8	20.1	100 ± 15
155	25.1	43.5	18.4	41.5	16.4	23.9	20.9	18.8	100 ± 15
200	29	41.8	12.8	39.8	10.8	21.7	18.7	18	100 ± 15
250	32.8	40.3	7.5	38.3	5.5	19.8	16.8	17.3	100 ± 15
300	36.4	39.2	2.8	37.2	0.8	18.2	15.2	16.8	100 ± 15
400	43	37.3	-	35.3	-	15.7	12.7	15.9	100 ± 15
550	51.8	35.2	-	33.2	-	12.9	9.9	14.9	100 ± 15



SALES SUPPORT



TAPPAN WIRE & CABLE INC.
100 BRADLEY PARKWAY
BLAUVELT, NY 10913 U.S.A.
1-800-WIRE-911
845-353-9000
FAX: 845-353-9315
www.tappanwire.com



Ordering Information

Please send written order by mail or fax to:

Tappan Wire & Cable

100 Bradley Parkway

Blauvelt, NY 10913

Telephone: 845-353-9000

Toll-free: 800-947-3911

Fax: 845-353-9315

(or you may scan and e-mail it to your Account Manager)

Order Information Required:

- * Quantity
- * Product Description / part or spec numbers
- * Specification (if applicable)
- * Shipping Lengths
- * Packaging
- * Billing and Shipping Addresses
- * Requested Ship Date
- * Quotation or quote reference # - if applicable
- * Written purchase order - required on all special manufacturing orders
- * Quoted Terms & Conditions

Terms

Net (30) days from date of invoice.

At Tappan Wire & Cables discretion, required method of payment may be an irrevocable Letter of Credit, or Wire Transfer, drawn on a bank acceptable to Tappan Wire & Cable.

CREDIT CARDS: We accept Visa, MasterCard & American Express

A service charge of 1.5% per month will apply for all unpaid undisputed items.

Minimum Order:

\$250.00

Please consult factory for minimum order requirements on special manufacturing orders.

Shipping Tolerance:

+/- 10% unless specified or otherwise agreed

On special manufacturing orders, customer agrees to accept all lengths generated.

Lead times:

Delivery on standard stock items is Stock Subject to Prior Sale. If stock is depleted, or if special manufacturing items are ordered, lead time is based on open capacity at time of order.



Ordering Information

Packaging:

Available in reels/boxes, 500', 1000', customer specified or longest lengths.

Cutting Charges:

Order specific - no charge for standard lengths.

Freight Policy

All shipments will be FOB shipping location.

Freight terms will be as provided on the quotation.

Prepaid & Allowed Terms:

\$3500 - Low Voltage except cables listed below:
\$10,000 - PLTC, Control & Tray Cable, Armored Products, & other Industrial Cables

When freight is quoted prepaid and allowed, it shall apply only for destinations within the continental United States and for shipment to one shipping location.

Shipments under the prepaid and allowed parameter will be shipped either freight collect or with freight charges prepaid and charged to the customer. Tappan Wire & Cable will ship via conventional methods unless otherwise specified.

Customer is responsible for material identification, footage count and visual inspection for damage upon receipt of shipment. Notification of shortage must be made within 7 days of date of delivery.

Stocking Locations:

New York, Atlanta, Dallas, Los Angeles

Special Equipment/ Routing

Additional charges will apply to open top trailers or flat beds. Special routing may incur additional charges.

Hydraulic Lift gate: Add \$150.00 to order

Acceptance:

All prices are valid for the period indicated on our quotation. Quotations are subject to change during that time upon notice by Tappan Wire & Cable.



Ordering Information

Returns:

Authorization to return material must be obtained prior to its' return. Tappan Wire will consider return of material, subject to a negotiated restocking charge, and review of the resale ability of the product.

Cable that is not currently a standard stock inventoried item, or any cable that has been cut or altered after delivery, and/or is in non-sellable lengths, is not subject to return. In addition, any stock cable that is older than (90) ninety days, is not subject to return.

Cable that is being returned because of defects in materials or workmanship, as determined in Tappan Wire & Cable's warranty, and have been granted an authorization to return the cable for inspection, is not subject to restocking charges.

Damage Claims:

No claims by Buyer of any kind for damages shall be greater than the purchase price of the cable in respect for which such damages are claimed. The remedies and limitations thereon, which are contained in this paragraph and in the Manufacturer's Warranty shall be the sole and exclusive remedies of the Buyer, and any right to incidental or consequential damages is excluded. When freight damage occurs, Buyer is responsible for signing freight bills as damaged in order for Tappan Wire to assist in filing claims on said carrier. If freight bill is not signed for as damaged, Buyer is responsible for filing the claim on the carrier.

Refunds:

No cash refunds. All monies for legitimate returns or credits will be applied to current account balances for future purchases.

Cancellations:

Cancellations of orders can **only** be done with the express approval of Tappan Wire & Cable. A written request must be made. Cancellation charges, based on the construction of the cable, and/or where the product is in the manufacturing cycle, shall be taken into consideration in the calculation of cancellation charges. We cannot allow cancellations of completed make-order items - see **Returns** Section. See our full Terms & Conditions for more detail.

PLEASE CONSULT OUR CUSTOMER SERVICE & SALES TEAM FOR SPECIAL APPLICATIONS & DESIGNS, OR FOR ANY QUESTIONS ABOUT OUR PRODUCTS AND SERVICES

[Tappan Wire & Cable's full Terms & Conditions & Warranty are available on our website or please contact us directly.](#)

1-800-WIRE-911

www.tappanwire.com