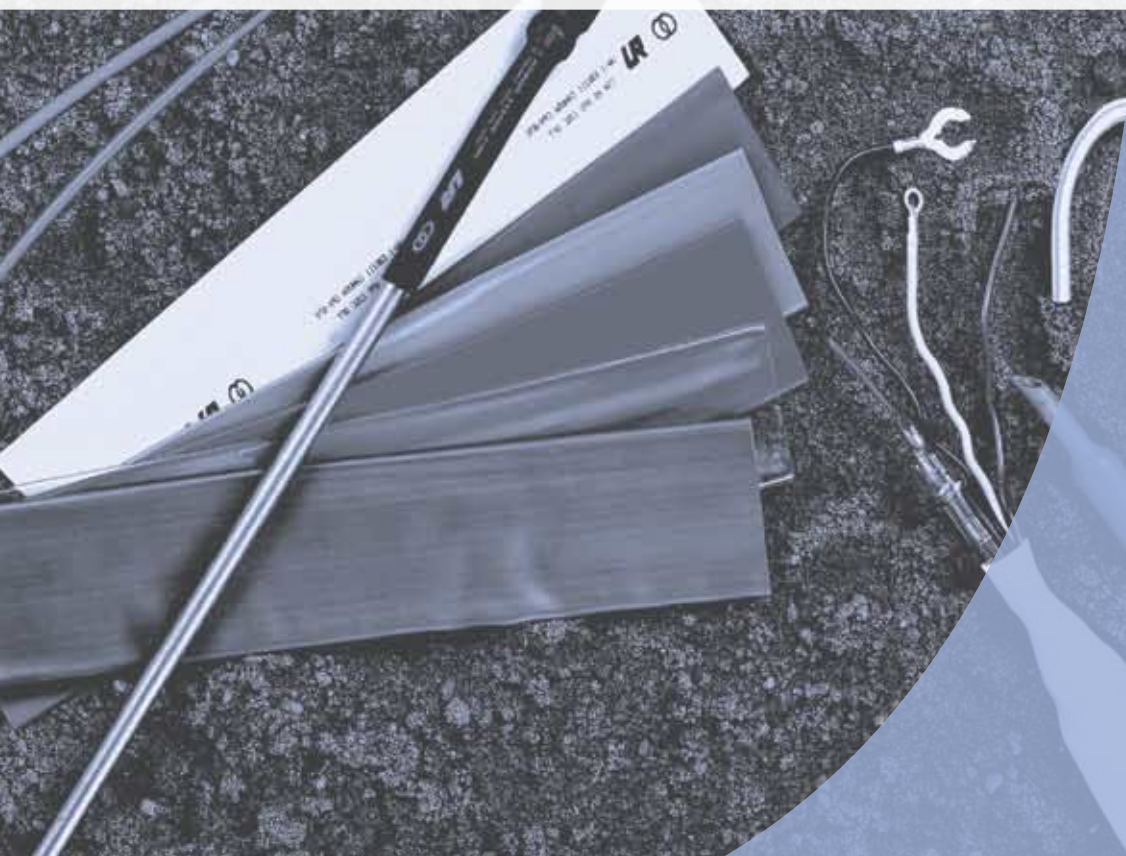




DSG-CANUSA

A SHAWCOR COMPANY

PRODUCT CATALOG



Insulate. Seal. Protect.

WELCOME TO THE DSG-CANUSA PRODUCT CATALOG

The DSG-Canusa catalog includes information on all major products that we carry to service Electrical/Utility, Industrial, Automotive, Electronics, Military/Aerospace and Communications applications.

The catalog is arranged into the following sections to help you quickly find information and compare products:

Selection

- A quick comparison of products within the major item classes to facilitate selection

Low Voltage Products

- Our world class medium and heavy wall heat shrink as well as many specialized products and kits for low voltage electrical applications

Medium Voltage Products

- Detailed specifications on medium voltage terminations and joints

Equipment Insulation

- Insulation products for bus bars and industrial equipment

Single Wall

- Thin wall polyolefin heat shrink tubing for wire harnesses and general purpose insulation and protection

Dual Wall (adhesive lined)

- Thin wall adhesive lined polyolefin heat shrink tubing for wire harnesses and general purpose sealing and protection

Automotive

- Custom designed heat shrink solutions for splice sealing and water blocking

Specialty Non-polyolefin

- Thin wall non-polyolefin heat shrink products for demanding applications

Communications

- Innovative products for cable, telecom and wireless

Reference

- Useful tools for product cross reference and quick selection

DSG-CANUSA, A DIVISION OF SHAWCOR

DSG-Canusa is a division of ShawCor, a publicly traded growth oriented energy services company with revenues of more than 1 billion CDN annually. ShawCor operates globally through seven divisions to provide products and services to the pipeline and industrial market segments. ShawCor has manufacturing and service facilities throughout the world.

DSG-CANUSA, A GLOBAL SUCCESS

DSG-Canusa provides electrical and mechanical insulation solutions for the Electrical/Utility, Communications, Automotive and Electronics markets. In operation since 1981, DSG-Canusa has experienced double digit growth and is one of the largest heat shrink manufacturers in the world.

Manufacturing and Distribution

United States	Canada	United Kingdom
Germany	China	

Research and Development

Canada	Germany	China
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Sales and Satellite Distribution

Worldwide

UNIQUE SOLUTIONS FOR CUSTOM APPLICATIONS

DSG-Canusa is the complete source for heat shrink products and related technology. Product offering includes polyolefin, fluoropolymer, elastomer and PVC heat shrink based materials in thin, medium and heavy walled tubing as well as heat shrink accessories and equipment. New products are continuously being developed to meet industry requirements. Moreover, a commitment to develop unique solutions for customer applications has earned DSG-Canusa a reputation of excellence in Customer satisfaction.

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PRODUCT SELECTION CHART

MEDIUM/HEAVY WALL PRODUCTS

SHRINK RATIO	PRODUCT NAME	DESCRIPTION	OPERATING TEMPERATURE (C/F)		TYPICAL APPLICATIONS	(C/F)	
			MAXIMUM	MINIMUM		RECOVERY TEMPERATURE	
6:1	CFHR	Heavy wall, high shrink ratio Polyolefin tubing with optional adhesive lining	110/230	-55/-67	Strain relief and mechanical protection of military, electronic and transportation wiring applications	120/248	
3:1	CFM	Medium wall polyolefin, optional adhesive lining	110/230	-55/-67	Splice termination and cable insulation, mechanical protection, environmental sealing	120/248	
3:1	CFW	Heavy wall polyolefin, optional adhesive lining	110/230	-55/-67	Splice termination and cable applications including Direct Burial, URD and Submersible	120/248	
3:1	FCFW	Heavy wall polyolefin, optional adhesive lining	110/230	-55/-67	Maximum flame retardancy for splice, termination and cable applications including Direct Burial, URD and Submersible	120/248	
3:1	QuickWrap	Wraparound sleeve	110/230	-55/-67	Wraparound protection for repair and retrofit of cables and connectors	120/248	
3:1	CCAP-RL	Medium wall end sealing cap	110/230	-55/-67	Cable ends, pipe and conduit sealing	120/248	
3:1	CCAP-FR/RL	Heavy wall, flame retardant end sealing cap	110/230	-55/-67	Cable ends, pipe and conduit sealing	120/248	
	CCB	Breakout boots	100/212	-55/-67	Cable and conduit breakouts. Mechanical protection and environmental sealing	135/275	
>3:1	CRDW	Railed wraparound sleeve	45/113	-15/5	Cable jacket repair and splicing applications	120/248	
3:1	CRLS	RAIL-LESS® repair sleeve	110/230	-55/-67	Cable repair and splicing applications where tubing cannot be used	120/248	
3:1	CFTV	Adhesive lined, flexible polyolefin with heat indicating lines	110/230	-55/-67	Cable TV and communications industries - waterproof sealing and mechanical protection for cable connections	120/248	
>3:1	CFTV QuickWrap	Wraparound sleeve	110/230	-55/-67	Accommodates all sizes of cable and connectors - cut to size in the field	120/248	
3:1	CBTM	Medium wall, anti-track tubing	125/257	-40/-40	Bus bar insulating tubing for medium voltage switch gear and distribution systems to 25 kV	120/248	
3:1	CBTH	Heavy wall polyolefin anti-track tubing	125/257	-40/-40	Bus bar insulating tubing for medium voltage switch gear and distribution systems to 36 kV	120/248	
1.7:1	CMVBT	Anti-track bus bar tape	90/194	-40/-40	Medium voltage bus bar applications to 25 kV	120/248	
>2:1	CSS	Cold applied splice sealing tubes	105/221	-40/-40	In line cable connector insulation and elbow to cable jacket applications	N/A	

PLEASE REFER TO THE QUIK_SELECT'R GUIDE ON PAGE 189 FOR LOW AND MEDIUM VOLTAGE CABLE ACCESSORIES

	FLAME RATING	SPECIFICATIONS	COLOR	SIZES	FEATURES
	Flame retardant	UL-94-V-O flame rating Meets SAE-AMS-DTL 23053/15	Black	0.75 to 4.7 in 19.1 to 119.3 mm	High ratio to accommodate extreme dimensional differences in connector and wire assemblies
	Non-flame retardant		Black, Red, Clear	0.4 to 9.0 in 10.2 to 228.6 mm	Mechanical durability, strain relief
	Non-flame retardant	UL 486; CSA C22.2 No. 198.2; ANSI C119.1; Western Underground Guide No. 2.4 and 2.5; ICEA and NEMA insulation thickness requirements; DNV Type approval	Black, Red	0.35 to 4.72 in 8.9 to 119.9 mm	Rated for 1 kV, 90°C service. Excellent insulating and mechanical durability
	Flame retardant	UL 486D; CSA C22.2 No. 198.2; ANSI C119.1; Western Underground Guides No. 2.4 and 2.5; MIL-DTL-23053/15; IEEE 383 Vertical Flame Test; ANSI C37.20.2; ICEA and NEMA insulation thickness requirements; DNV Type approval	Black, Red	0.35 to 4.72 in 8.9 to 119.9 mm	Rated for 1 kV, 90°C service. Excellent insulating and mechanical durability, flame retardant
	Flame retardant & non-flame retardant versions available		Black	Length: 12 in (305 mm) Width: 5.7 to 9.5 in (145 to 241 mm)	Ease of installation without disconnection
	Non-flame retardant		Black	0.18 to 4.50 in 4.5 to 114.3 mm	Provides complete environmental protection and insulation
	Flame retardant		Black	0.15 to 4.10 in 3.5 to 104 mm	Provides complete environmental protection and insulation
	Flame retardant	ESI 09-11	Black	2,3 and 4 legged boots; wide range of sizes	Thermoplastic adhesive liner; provides complete environmental protection
	Non-flame retardant		Black	Expanded Diameter: 1.69 - 7.87 in (43 - 200 mm) Standard 48 in lengths	Sleeve is closed with a flexible stainless steel locking channel
	Non-flame retardant	Meets insulation thickness specifications of ICEA and NEMA	Black	Length: 1.2 to 6.75 in (30 to 171 mm) Width: 6 to 36 in (15 to 90 cm)	RAIL-LESS® wraparound design for ease of installation
	Non-flame retardant		Black	0.4 to 2.74 in 10.2 to 69.8 mm	Selective strippability, smooth flow adhesive liner and excellent environmental seal
	Non-flame retardant		Black	Length: 9 to 36 in 23 - 23 cm Width: 7 in, 18 cm	Wraparound sleeve with adhesive for complete environmental sealing without the need for disconnection
	Flame retardant	Tested to ANSI C27.20.2 to 25 kV, test report available	Red	0.75 to 6.7 in 1.0 to 170.1 mm	Specifically designed anti-track tubing for medium voltage applications
	Flame retardant	Tested to ANSI C27.20.2 to 36 kV, test report available	Red	1.1 to 6.6 in 27.9 to 167.6 mm	Specifically designed anti-track tubing for medium voltage applications
	Flame retardant	Tested to ANSI C27.20.2 to 25 kV, test report available	Red	Roll length 25 ft (7.62 m) Width: 1,2,4 in (25, 50, 102 mm)	Anti-track, adhesive coated tape for medium voltage bus bar applications
	Non-flame retardant	Tested to ANSI C119.1	Black	0.67" to 3.77" (expanded core ID)	Ease of installation without special tools Rated for 1kV

PRODUCT SELECTION CHART

SINGLE WALL PRODUCTS

SHRINK RATIO	PRODUCT NAME	DESCRIPTION	OPERATING TEMPERATURE (C/F)		TYPICAL APPLICATIONS	(C/F)	
			MAXIMUM	MINIMUM		RECOVERY TEMPERATURE	
2:1	CHM 140	Semi-rigid polyolefin	135/275	-55/-67	Automatic feed equipment or other applications requiring strain relief and exceptional mechanical strength	135/257	
2:1	CPX 100	General purpose, flexible polyolefin	125/275	-55/-67	Insulation protection, strain relief, identification, Military and Industrial	90/194	
3:1	CPX 201	Striped green and yellow, flexible polyolefin	135/257	-55/-67	Grounding line designation	90/194	
3:1	CPX 300	High shrink ratio, flexible polyolefin	135/275	-55/-67	Protection for irregular shapes/components, bundling, insulation and identification of cables and wires	90/194	
2:1	CPX 876	High performance, flexible polyolefin	135/275	-55/-67	Industrial, Military/Aerospace and Automotive applications requiring low recovery temperature and high flame retardancy	85/185	
2:1	CZT 200	Zero halogen, thin wall flexible polyolefin	105/221	-40/-40	Low smoke generation for use in confined areas such as underground transportation systems, military and aerospace applications	120/248	
2:1	DERAY® ITW	Ultra thin wall, very flexible polyolefin	135/275	-55/-67	Insulation and protection of splices in very flexible cables, high volume production operations	90/194	
2:1	DERAY® LSB	Very low shrink temperature, flexible polyolefin	105/221	-45/-49	Thermally sensitive electronic components, high volume product lines	70/158	

DUAL WALL PRODUCTS

SHRINK RATIO	PRODUCT NAME	DESCRIPTION	OPERATING TEMPERATURE (C/F)		TYPICAL APPLICATIONS	(C/F)	
			MAXIMUM	MINIMUM		RECOVERY TEMPERATURE	
3:1	CPA 100	High shrink ratio, flexible polyolefin, adhesive lined	110/230	-55/-67	Encapsulation of cables, wires, splices and covering for irregularly sized objects	120/248	
3:1	CPA 300	High shrink ratio, flexible polyolefin, adhesive lined	125/257	-55/-67	Environmental sealing and flame retardancy for a variety of applications	120/248	
4:1	CWWT 450	Thin wall, water clear adhesive lined tubing	110/230	-55/-67	Water clear, adhesive lined specifically designed for pump applications	120/248	
>2:1	DERAY® HXKT	Semi-rigid, adhesive lined polyolefin	110/230	-55/-67	Insulation and environmental protection in applications requiring superior strain relief and abrasion resistance	110/230	
4:1	DERAY® IHKT	Polyamide lined flexible polyolefin	125/257	-55/-67	Adheres readily to connector and metal substrates	100/212	
3:1	DERAY® CrimpSeal II	Crystal clear, semi-rigid, adhesive lined tubing with integral solderless splice connector	125/257	-55/-67	Wire to wire splicing. Environmental protection for crimp-connections & terminals.	90/194	
4:1	CFRA	Fuse link rated adhesive lined polyolefin	125/257	-55/-67	Automotive fuse link and splice protection	125/257	
4:1	DERAY® SpliceMelt	Adhesive lined polyolefin	125/257	-40/-40	Specifically designed to insulate and environmentally protect automotive and electronic wire harness splices	125/257	
4:1	CDR	Semi-rigid, adhesive lined polyolefin	130/266	-40/-40	Specifically designed to insulate and environmentally protect automotive and electronic wire harness splices	125/257	
4:1	DERAY® SpliceMelt Cap	Adhesive lined polyolefin end cap	125/257	-40/-40	Specifically designed to insulate, seal and protect end or stub splices in automotive and electronic wiring harnesses	125/257	
4:1	CDR Cap	Semi-rigid, adhesive lined polyolefin end cap	130/266	-40/-40	Specifically designed to insulate and environmentally protect automotive and electronic wire harness splices	125/257	

	FLAME RATING	SPECIFICATIONS	COLOR	SIZES	FEATURES
	Flame retardant	SAE-AMS-DTL-23053/6; AMS 3638 and 3639; UL 224 125°C, CSA 22.2 No 198.1 125°C	Black	3/64 to 1/2 in 1.2 to 12.7 mm	Semi-rigid for superior mechanical strength and protection
	Flame retardant (except clear)	UL 224 125°C; CSA C22.2 No. 198.1 125°C, SAE-AMS-DTL-23053/5 Class 1 and 2; AMS 3636 and 3637; DEF STAN 59-97 Issue 3 Type 2a	Black, White, Red, Blue, Yellow, Green, Clear	3/64 to 4 in 1.2 to 101.6 mm	Flexible, flame retardant
	Flame retardant	SAE-AMS-DTL-23053/5 Class 1; DEF STAN 59-97 Issue 3 Type 2a; AMS 3636; UL 224 125°C, CSA 22.2 No 198.1 125°C	Yellow and green stripes	3/16 to 1½ in 4.8 to 39.0 mm	Resistant to common fluids and solvents
	Flame retardant (except clear)	UL 224 No. 19981. 125°C; CSA C22.2 125°C SAE-AMS-DTL-23053/5 Class 1 and 2; DEF STAN 59-97 Issue 3 Type 2a	Black, White, Red, Blue, Yellow, Green, Clear	1/8 to 1½ in 3.2 to 38.1 mm	High shrink ratio for good range taking capacity
	Highly flame retardant	UL 125°C VW-1; CSA C22.2 No. 198.1 125°C OFT and Class 1; SAE-AMS-DTL-23053/5 Class 3; MIL-R-46846 Type V; AMS 3587; DEF STAN 59-97 Issue 3 Type 1a	Black, White, Red, Blue, Yellow, Green	3/64 to 4 in 1.2 to 101.6 mm	High flame retardancy, multiple spec approvals
	Flame retardant	DEF STAN 59-97 Issue 3 Type 8; Tested to ASTM E662, ASTM C542, Boeing BSS 7239	Black, White, Yellow	1/16 to 4 in 1.6 to 101.6 mm	Zero halogen
	Black: flame retardant Clear: FMVSS 302	Meets UL 224 125°C flammability	Black, Clear	0.047 to 1.023 in 1.2 to 26.0 mm	Very flexible, ultra thin, flame retardant
	Non-flame retardant	FMVSS 302	Black	1/8 to 2 in 3.2 to 55.0 mm	Low 80°C shrink temperature

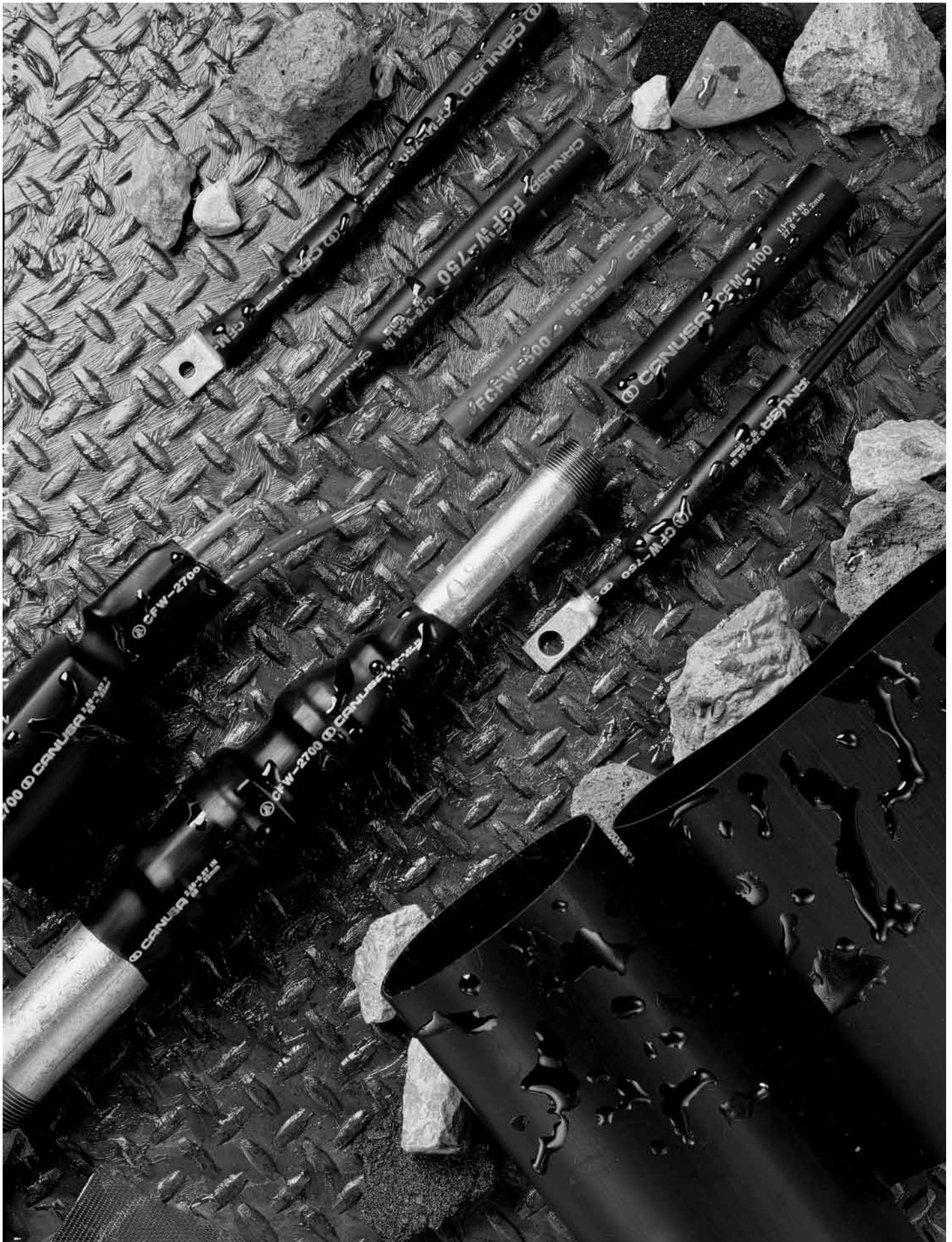
	FLAME RATING	SPECIFICATIONS	COLOR	SIZES	FEATURES
			Black, Red, Blue, Clear	1.8 to 1.57 in 3.2 to 38.1 mm	Environmental sealing adhesive liner with high shrink ratio
	Flame retardant	SAE-AMS-DTL-23053/4 Class 3; UL 224 125°C; CSA 22.2 No 198.1 125°C	Black, White, Red	1/8 to 1.57 in 3.2 to 38.1 mm	Multiple specifications, flame retardant, flexible
	Non-flame retardant		Clear	0.41 in 10.4 mm	Water clear, adhesive lined tubing allows for the examination of substrate wiring
	FMVSS 302	Industrial and automotive OEM approvals	Black	1/8 to 1 in 3.2 to 25.4 mm	Semi-rigid, adhesive lined
	Black: flame retardant Clear: FMVSS 302	VG 95 353 Part 12 Type D Meets the material performance of SAE-AMS-DTL-23053/4 Class 3	Black, Clear	0.157 to 2.047 in 4 to 52.0 mm	High ratio, superior adhesive for connectors
		Meets all major automotive OEM specifications	Clear, Red, Blue, Yellow	28-10 AWG	Crystal clear, Semi-rigid, adhesive lined
	Flame retardant	WSS-M99D56-A4; Ford ES-FOEB-1A263-AA	Black	0.200 to 0.700 in 5.08 to 17.78 mm	Adhesive lined, fuse link rated, flammability resistance
	Black: flame retardant Clear: FMVSS 302	Approved to all major Automotive OEM splice sealing specifications; Chrysler MSDB56, PS9691; Ford ES-FOEB-1A263-AA; GM; VW	Black, Clear	0.236 to 0.708 in 6 to 18 mm	Adhesive lined, mechanical strength and environmental protection
	Flame retardant	Meets all major Automotive OEM splice sealing specifications; Chrysler MSDB56, PS9691; Ford ES-FOEB-1A263-AA; GM; VW	Black	0.236 to 0.708 in 6 to 18 mm	Semi-rigid, adhesive lined, mechanical strength and environmental protection
	Black: flame retardant Clear: FMVSS 302	Approved to all major automotive OEM specifications	Black, Clear	0.236 to 0.708 in 6 to 18 mm	Adhesive lined, mechanical strength and environmental protection
	Flame retardant	Meets all major automotive OEM specifications	Black	0.236 to 0.708 in 6 to 18 mm	Semi-rigid, adhesive lined, mechanical strength and environmental protection

PRODUCT SELECTION CHART

SPECIALTY NON-POLYOLEFIN PRODUCTS

SHRINK RATIO	PRODUCT NAME	DESCRIPTION	OPERATING TEMPERATURE (C/F)		TYPICAL APPLICATIONS	(C/F)	
			MAXIMUM	MINIMUM		RECOVERY TEMPERATURE	
2:1	CNP 200	Highly flexible thin wall Neoprene	120/249	-70/-94	Abrasion protection of harnesses where ruggedness and low temperature flexibility are required	135/275	
2:1	CVN 105	Flexible PVC	105/221	-30/-35	General purpose insulation and mechanical protection	110/230	
2:1	DERAY® KY 175	Semi-rigid PVDF, thin wall	175/356	-55/-67	Electronic applications where strain relief, abrasion and cut-through resistance and higher operating temperatures are required	175/347	
2:1	DERAY® KYF 190	Flexible, high temperature, thin wall	190/374	-55/-67	Applications where flexibility and superior chemical, abrasion and temperature resistance is critical	175/347	
2:1	DERAY® V25	Diesel resistant chlorinated polyolefin	150/302	-75/-103	Automotive and Military/Aerospace cables and harnessing	130/266	
2:1	DERAY® VT 220	Thin wall fluoroelastomer	220/428	-55/-67	Severe chemical and thermal environments, Military/Aerospace applications including electronic and fluid transport systems	175/347	

	FLAME RATING	SPECIFICATIONS	COLOR	SIZES	FEATURES
	Highly flame retardant	MIL-R-46846 Type 1; SAE-AMS-DTL-23053/1; AMS 3623	Black	1/8 to 3 in 3.2 to 75.2 mm	Heavy duty, abrasion resistant, flexible at low temperatures
	Flame retardant	UL 224 VW-1; CSA C22.2 No. 198.1 OFT	Black, White, Clear, Red, Blue, Yellow, Green	3/64 to 4 in 1.2 to 101.6 mm	Semi-rigid for superior mechanical strength and protection
	Flame retardant	DEF STAN 59-97 Issue 3 Type 3a; AMS 3623C; SAE-AMS-DTL-23053/8; UL 224 VW-1; CSA C22.2 OFT	Clear, Black	3/64 to 1 in 1.2 to 25.4 mm	Mechanically tough, high operating temperature
	Highly flame retardant	SAE-AMS-DTL-23053/18 Class 2; UL 224 VW-1; CSA 22.2 OFT	Black, Clear	3/64 to 1/2 in 1.2 to 12.7 mm	Flexible, resistance to chemicals, temperatures
	Flame retardant	SAE-AMS-DTL-23053/16; MIL-R-46846	Black	1/8 to 3 in 3.2 to 76 mm	Diesel, oil and hydraulic fluid resistant; available in standard and thin wall
	Flame retardant	SAE-AMS-DTL-23053/13; MIL-R-46846 Type III Class 1; DEF STAN 59-97 Issue 3 Code 4A	Black	1/8 to 2 in 3.2 to 50.8 mm	Severe chemical and thermal environments; high resistance to impact and abrasion



LOW VOLTAGE PRODUCTS

Medium and heavy wall heat shrink tubing possesses excellent insulating, environmental sealing, impact and abrasion resistance.

Medium and heavy wall tubing is used in a variety of general purpose applications to seal and protect electrical connections and terminations. It also provides excellent mechanical protection.

DSG-Canusa's line of specially designed medium and heavy wall products are used as the industry standard in several markets including Electrical Utility and Wire and Cable. Solutions include cable break-out boots, end sealing caps, wraparound sleeves and a range of specially configured kits designed to reduce field installation time and improve installation effectiveness.

INSULATE
SEAL
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HIGH RATIO, FLAME RETARDANT CROSS-LINKED POLYOLEFIN TUBING

High ratio heat shrink tubing accommodates extreme differences between cables, connectors and backshells

FEATURES AND BENEFITS

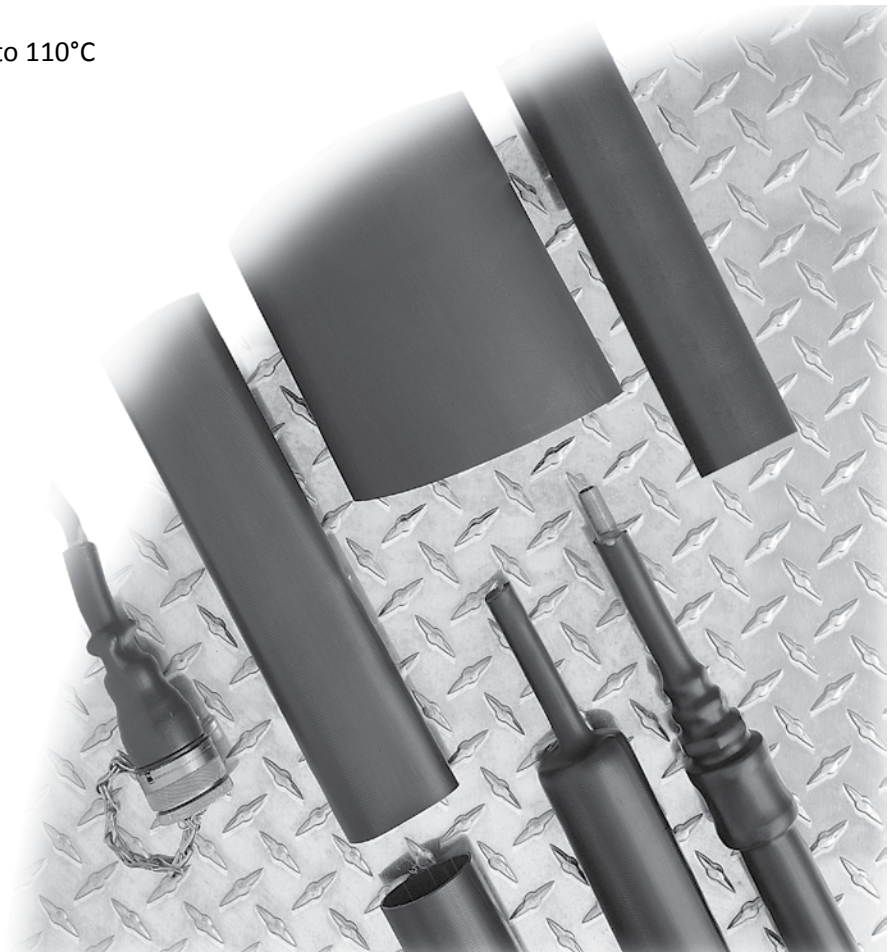
- Up to 6:1 shrink ratio
- Flame retardant
- Accommodates a wide variety of connector shapes and configurations
- Available in semi-rigid or flexible material
- Optional thermoplastic adhesive liner for complete environmental protection and insulation
- Available in 25 ft reels
- Continuous operating temperature: -55°C to 110°C
- Shrink temperature: 120°C

STANDARDS

- Meets material properties of
SAE- AMS- DTL 23053/15

TYPICAL APPLICATIONS

- Wire harnesses
- Abrasion and impact resistance
- Strain relief and protection of cables and connectors



HIGH RATIO, FLAME RETARDANT CROSS-LINKED POLYOLEFIN TUBING

CFHR

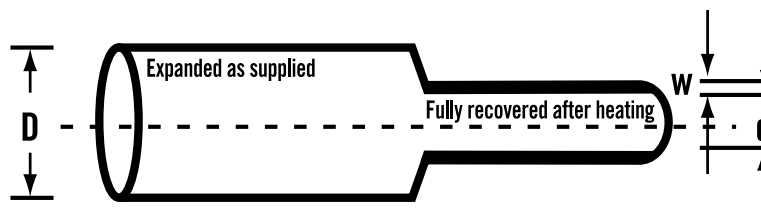
DIMENSIONS

CFHR SEMI-RIGID

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (MIN) W			
	MM	IN	MM	IN	MM	IN	M	IN
0750	19.0	0.750	3.2	0.125	3.2	0.123	1.2	48
1300	33.0	1.300	5.5	0.220	3.4	0.135	1.2	48
1750	44.4	1.750	7.4	0.290	3.6	0.140	1.2	48
2000	50.8	2.000	8.3	0.330	4.3	0.170	1.2	48
2750	69.8	2.750	11.7	0.460	4.8	0.190	1.2	48
3500	88.9	3.500	17.1	0.673	4.3	0.170	1.2	48
4700	119.4	4.700	22.9	0.900	4.8	0.190	1.2	48

CFHR FLEXIBLE

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (MIN) W			
	MM	IN	MM	IN	MM	IN	M	IN
1250	31.8	1.25	5.6	0.220	1.5	0.060	1.2	48
1750	44.4	1.75	8.0	0.315	2.4	0.095	1.2	48
2500	63.5	2.50	12.7	0.500	3.0	0.120	1.2	48
3000	76.2	3.20	19.1	0.750	3.6	0.140	1.2	48



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resulting wall thickness will be less than specified.
- Select Options:
 - Wall Thickness: Semi-Rigid or Flexible
 - Printing: Printed or Unprinted
 - Adhesive Lining: Lined (D) or Unlined (U)
 - Lengths: 6, 12 or 48 inches, or 25 ft spools (unlined only)
- Please specify the product name, order number and options you require
- Order Example: CFHR, 0750, black, unprinted, unlined, 25 ft lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

INSULATE
SEAL
PROTECT

MEDIUM WALL CROSS-LINKED POLYOLEFIN TUBING

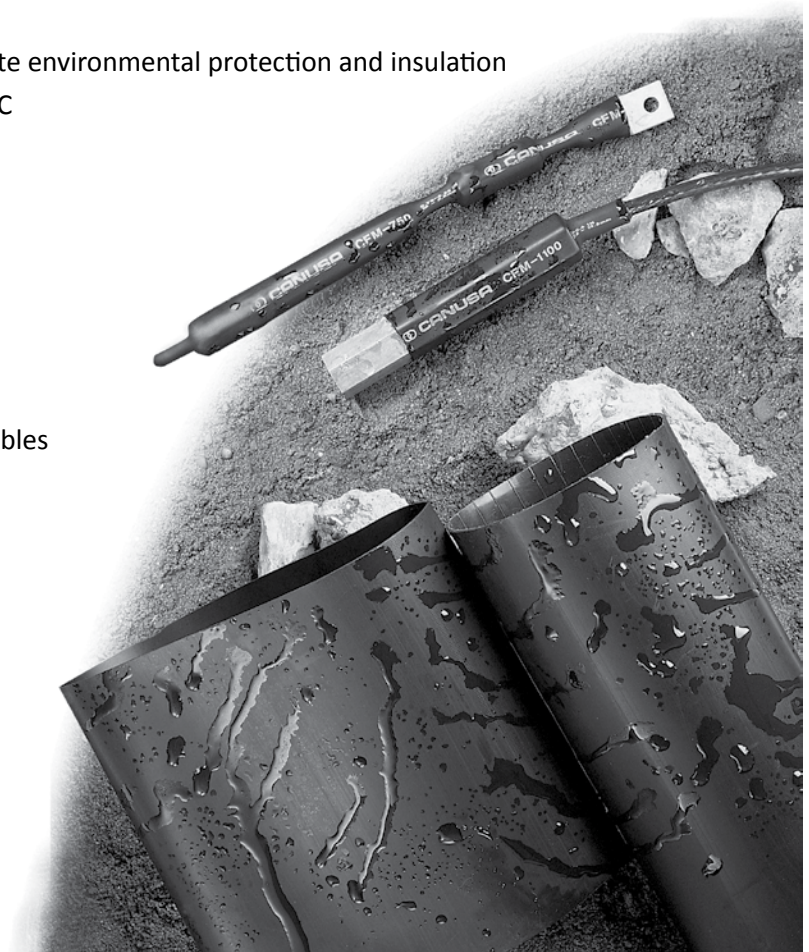
Medium wall heat shrink tubing suitable for a variety of low voltage electrical and mechanical applications where lighter weight and greater flexibility are important

FEATURES AND BENEFITS

- 3:1 shrink ratio
- Seals and protects cable splices and terminations
- Rugged mechanical protection
- Complete moisture sealing
- Strain relief for delicate wire connections
- High resistance to impact and abrasion
- Optional Thermoplastic adhesive liner for complete environmental protection and insulation
- Continuous operating temperature: -55°C to 110°C
- Shrink temperature: 120°C

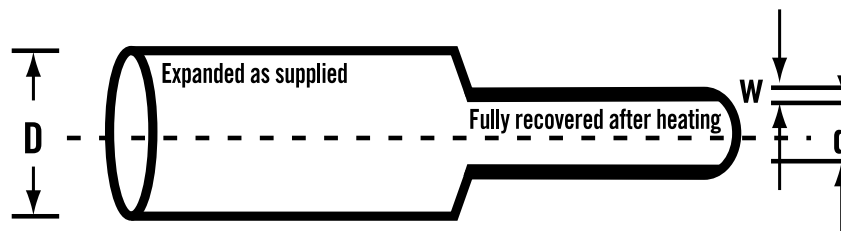
TYPICAL APPLICATIONS

- Strain relief and environmental protection
- Splice covers for electrical cables
- HVAC systems for pipes and ducts
- Insulation cover or jacket repair on low voltage cables



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				APPLICATION RANGE FOR GENERAL USE		LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W					
	MM	IN	MM	IN	MM	IN	MM	IN	M	IN
0400	10.2	0.40	3.8	0.15	2.0	0.080	4.5 - 8.5	.18 - .34	1.2	48
0750	19.1	0.75	5.6	0.22	2.0	0.080	6.0 - 16.5	.24 - .65	1.2	48
1100	27.9	1.10	10.2	0.40	2.4	0.095	11.5 - 25	.45 - 1.0	1.2	48
1300	33.0	1.30	10.2	0.40	2.4	0.095	11.5 - 30	.45 - 1.2	1.2	48
1500	38.1	1.50	12.7	0.50	2.4	0.095	14.0 - 35	.55 - 1.4	1.2	48
1700	43.2	1.70	12.7	0.50	2.5	0.100	14.0 - 40	.55 - 1.6	1.2	48
2050	52.1	2.05	19.1	0.75	2.5	0.100	21.0 - 45	.82 - 1.8	1.2	48
2750	69.9	2.75	25.4	1.00	2.5	0.100	30.0 - 63	1.2 - 2.5	1.2	48
3500	88.9	3.50	30.0	1.18	2.5	0.100	33 - 83.8	1.3 - 3.3	1.2	48
4700	119.4	4.70	39.9	1.57	2.7	0.105	40.6 - 114	1.6 - 4.5	1.2	48
6000	152.4	6.00	50.8	2.00	3.0	0.120	53.3 - 147	2.1 - 5.8	1.2	48
6700	170.2	6.70	58.4	2.30	3.0	0.120	70.0 - 165	2.4 - 6.5	1.2	48
9000	228.6	9.00	77.0	3.00	3.3	0.130	71.0 - 220	2.8 - 8.7	1.2	48



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resulting wall thickness will be less than specified.
- Select Options:
 - Color: Black (BK), Red (RD), Clear (CL)
 - Printing: Printed or Unprinted
 - Adhesive Lining: Lined (D) or Unlined (U)
 - Lengths: 6, 12, 24 or 48 inch, or 25 ft spools (unlined only)
- Please specify the product name, order number and options you require
- Order Example: CFM, 1100, black, unprinted, unlined, 48 in lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

INSULATE
SEAL
PROTECT

HEAVY WALL CROSS-LINKED POLYOLEFIN TUBING

Heavy wall heat shrink tubing provides maximum reliability for insulating and protecting cable joints and terminations

FEATURES AND BENEFITS

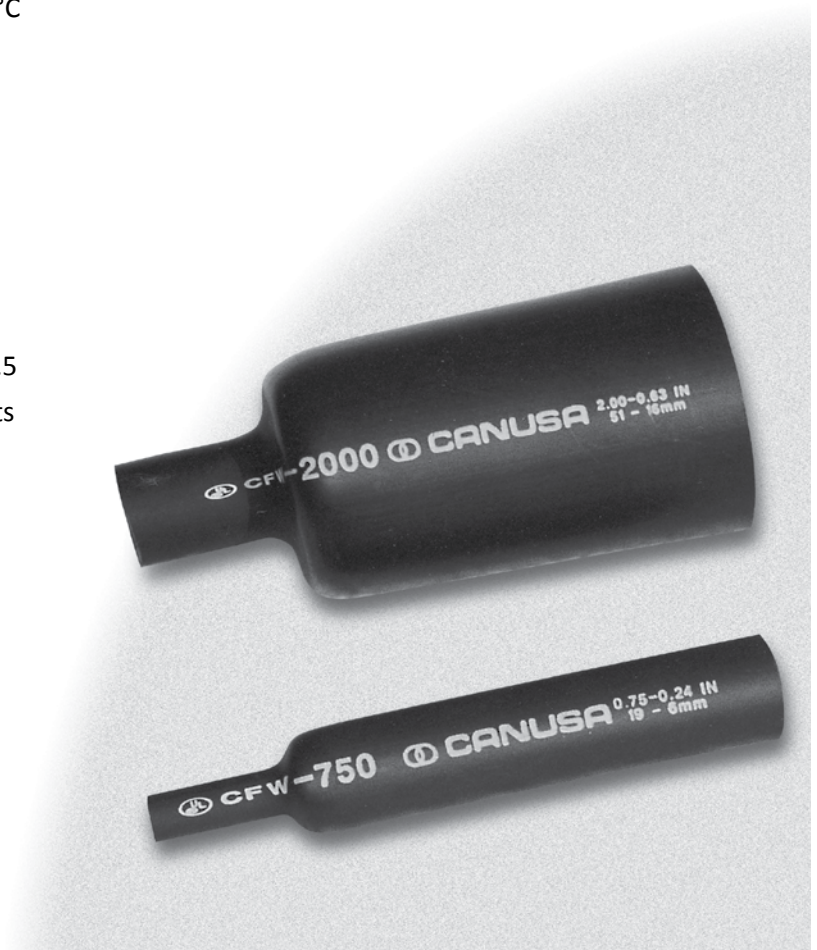
- 3:1 shrink ratio
- Withstands severe mechanical requirements of U.R.D., submersible and direct burial installations
- High impact, abrasion, corrosion and chemical resistance
- Rated for 1 kV, 90°C continuous use
- Optional thermoplastic adhesive liner provides complete environmental protection and insulation
- Continuous operating temperature: -55°C to 110°C
- Shrink temperature: 120°C

STANDARDS

- UL 486D
- CSA C22.2 No. 198.2
- ANSI C119- 1
- Western Underground Guide Numbers 2.4 and 2.5
- ICEA and NEMA insulation thickness requirements
- DNV Type approval

TYPICAL APPLICATIONS

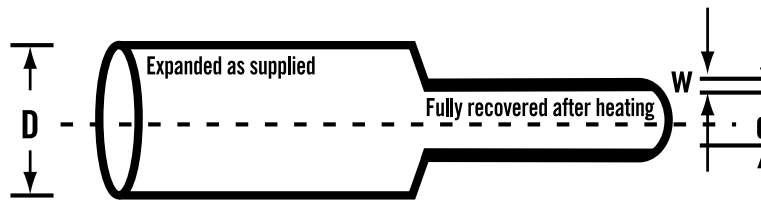
- Electrical/Utility
- Industrial
- Strain relief and mechanical protection
- Insulation of primary low voltage cables



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				APPLICATION RANGE FOR GENERAL USE		600/ 1000 V SINGLE CONDUCTOR SIZE	LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W						
	MM	IN	MM	IN	MM	IN	MM	IN	AWG/MCM	M	IN
0350	8.9	0.35	3.0	0.12	1.8	0.07	3.5 - 8	.15 - .3	#14 - #10	1.2	48
0500	13.0	0.51	4.1	0.16	2.0	0.08	4.5 - 11	.2 - .45	#8 - #6	1.2	48
0750	19.1	0.75	6.1	0.24	3.0	0.12	6.5 - 16.5	.25 - .65	#6 - #2	1.2	48
1100	27.9	1.10	8.9	0.35	3.0	0.12	10 - 24	.4 - .95	#1 - 3/0	1.2	48
1500	38.1	1.50	11.9	0.47	3.6	0.14	13 - 35	.5 - 1.4	2/0 - 350	1.2	48
2000	50.8	2.00	16.0	0.63	3.6	0.14	17.5 - 44	.7 - 1.75	250 - 500	1.2	48
2700	68.1	2.70	22.1	0.87	3.8	0.15	24 - 59	.95 - 2.3	600 - 1000	1.2	48
3500*	89.9	3.54	30.0	1.18	3.8	0.15	33 - 80	1.3 - 3.1	800 - 1250	1.2	48
4700*	119.9	4.72	39.9	1.57	3.8	0.15	44 - 104	1.75 - 4.1	1500 - 2500	1.2	48
5100*	129.5	5.10	39.9	1.57	3.8	0.15	43 - 109	1.7 - 4.3		1.2	48
6000*	152.4	6.00	50.8	2.00	3.8	0.15	56 - 130	2.2 - 5.1		1.2	48
6700*	170.2	6.70	56.6	2.23	3.8	0.15	61 - 145	2.4 - 5.7		1.2	48

*CFW sizes 3500 to 6700 are not UL or CSA listed



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resulting wall thickness will be less than specified.
- Select Options:
 - Color: Black (BK) or Red (RD)
 - Printing: Printed or Unprinted
 - Adhesive Lining: Lined (D) or Unlined (U)
 - Lengths: 6, 9, 12, 24 or 48 inches
- Please specify the product name, order number and options you require
- Order Example: CFW, 1500, black, unprinted, unlined, 48 in lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

INSULATE
SEAL
PROTECT

HEAVY WALL CROSS-LINKED POLYOLEFIN TUBING

Heavy wall heat shrink tubing insulates and protects electrical splices and terminations where maximum flame retardancy and exceptional insulating and sealing characteristics are required

FEATURES AND BENEFITS

- 3:1 shrink ratio
- Flame retardant
- High impact and abrasion resistance - capable of withstanding severe mechanical abuse of U.R.D., submersible and direct burial installations
- FCFW tubing will not split or rupture during installation, even when overheated
- Optional thermoplastic adhesive liner provides complete environmental protection and insulation
- Rated for 1 kV, 90°C continuous use
- Continuous operating temperature: -55°C to 110°C
- Shrink temperature: 120°C

STANDARDS

- UL 486D
- CSA C22.2 No. 198.2
- ANSI C119- 1
- Western Underground Guides No. 2.4 and 2.5
- IEEE 383 Vertical Flame Test
- ANSI C37.20.2
- ICEA S-19-8 and NEMA insulation thickness requirements
- SAE-AMS-DTL-23053/15 Class 1
- DNV Type approval

TYPICAL APPLICATIONS

- Insulation of low voltage cables
- Battery cable protection
- Flame retardant systems

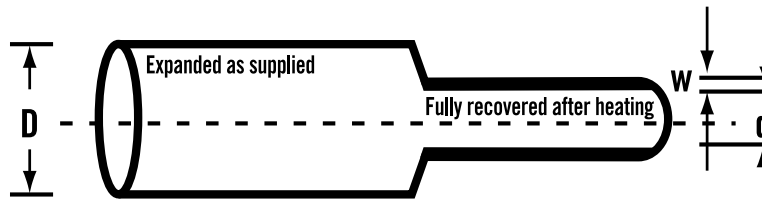


DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				APPLICATION RANGE FOR GENERAL USE		600/ 1000 V SINGLE CONDUCTOR SIZE	LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W						
	MM	IN	MM	IN	MM	IN	MM	IN	AWG/MCM	M	IN
0350**	8.9	0.35	3.0	0.12	1.8	0.07	3.5 - 8	.15 - .3	#14 - #10	1.2	48
0500**	13.0	0.51	4.1	0.16	2.4	0.08	4.5 - 11	.2 - .45	#8 - #6	1.2	48
0750	19.1	0.75	6.1	0.22	2.5	0.09	6.5 - 16.5	.25 - .65	#6 - #2	1.2	48
1100	27.9	1.10	8.9	0.35	3.0	0.12	10 - 24	.4 - .95	#1 - 3/0	1.2	48
1500	38.1	1.50	11.9	0.47	4.1	0.16	13 - 35	.5 - 1.4	2/0 - 350	1.2	48
2000	50.8	2.00	16.0	0.63	4.1	0.16	17.5 - 44	.7 - 1.75	250 - 500	1.2	48
2700	68.1	2.70	22.1	0.87	4.1	0.16	24 - 59	.95 - 2.3	600 - 1000	1.2	48
3500*	89.9	3.54	30.0	1.18	4.1	0.16	33 - 80	1.3 - 3.1	800 - 1250	1.2	48
4700*	119.9	4.72	39.9	1.57	4.2	0.17	44 - 104	1.75 - 4.1	1500 - 2500	1.2	48

*FCFW 3500 and FCFW 4700 are not UL or CSA listed

**Meets the material performance of MIL spec only



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resulting wall thickness will be less than specified.
- Select Options:
 - Color: Black (BK) or Red (RD)
 - Printing: Printed or Unprinted
 - Adhesive Lining: Lined (D) or Unlined (U)
 - Lengths: 6, 9, 12 or 48 inches
- Please specify the product name, order number and options you require
- Order Example: FCFW, 1500, black, unprinted, unlined, 48 in lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

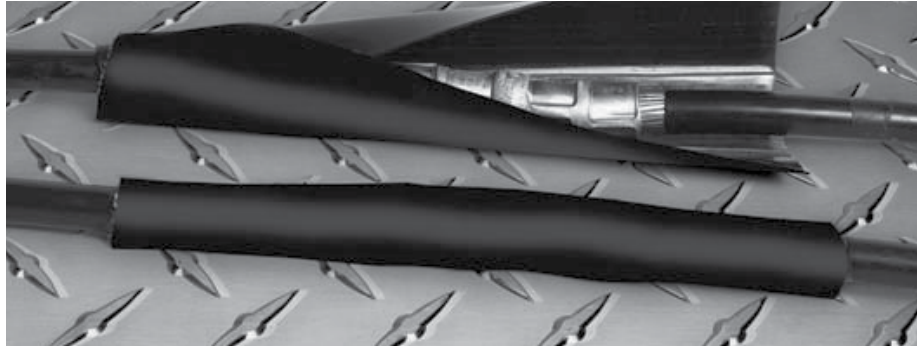
QUICKWRAP

3:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

DSG-Canusa is continually moving forward with innovative options for heat shrink tubing. QuickWrap wrap around sleeves have become the favoured option in cable repair, and retrofit protection of existing cables.



Please select the most appropriate product by choosing from the application criteria, wall thickness, shrink ratio and required standards.

Products	Wall Thickness	Applications	Shrink Ratio	Flame Retardant	Adhesive Lining
FCFW QuickWrap	Heavy	Connectorized cable repair Retrofit protection Cable jacket repairs	3:1	Yes	Yes
CFM QuickWrap	Medium	Wireharness applications Street lighting kits Cable joints Retrofit protection Cable jacket repairs	3:1	No	Yes
CFW QuickWrap	Heavy	Connectorized cable repair Retrofit protection Cable jacket repairs	3:1	No	Yes

FEATURES

- Shrink ratio: 3:1
- Proven thermoplastic adhesive ensures an absolutely waterproof seal
- High impact and abrasion resistance
- Continuous operating temperature: -55°C to 110°C
- Shrink temperature: 120°C

BENEFITS

- Fast and simple installation without interruption of service
- Repair damaged cable jackets
- Suitable for low voltage electrical & mechanical applications
- Minimal heat required results in error free installation without splitting
- QuickWrap can be cut to size in field to suit application

QUICKWRAP

FCFW QUICKWRAP

ORDER NUMBER	LENGTH		WIDTH		RECOMMENDED OVERLAP				EXPANDED SLEEVE I.D. WITH OVERLAP				APPLICATION RANGE (MIN - MAX)		CONDUCTOR SIZE
	IN	MM	IN	MM	IN (MIN)	MM (MIN)	IN (MAX)	MM (MAX)	IN (MIN)	MM (MIN.)	IN (MAX)	MM (MAX)	IN	MM	AWG/MCM 600/1000 V
1500	12	305	5.7	145	1.13	28.6	2.36	59.8	0.75	19.1	1.14	29.0	0.50 - 1.00	13 - 25	#2/0 - 350
2000	12	305	7.3	185	1.13	28.6	3.14	79.8	1.00	25.4	1.64	41.7	0.70 - 1.50	18 - 38	250 - 500
2700	12	305	9.5	241	1.20	30.5	4.24	107.7	1.35	34.3	2.32	58.9	1.00 - 2.00	25 - 58	600 - 1000

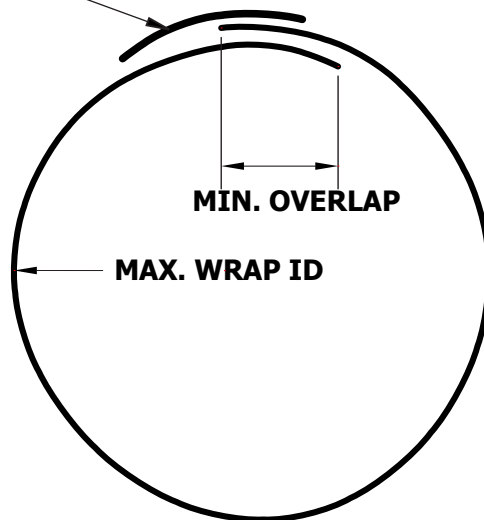
CFM QUICKWRAP

ORDER NUMBER	LENGTH		WIDTH		RECOMMENDED OVERLAP				EXPANDED SLEEVE I.D. WITH OVERLAP				APPLICATION RANGE (MIN - MAX)		CONDUCTOR SIZE
	IN	MM	IN	MM	IN (MIN)	MM (MIN)	IN (MAX)	MM (MAX)	IN (MIN)	MM (MIN.)	IN (MAX)	MM (MAX)	IN	MM	AWG/MCM 600/1000 V
1100	6	152	4.1	104	0.79	20.1	1.35	34.3	0.65	16.5	0.78	19.8	0.35-0.68	9-17	#6-1/0
1500	12	305	5.7	145	1.13	28.6	2.36	59.8	0.75	19.1	1.14	29.0	0.50 - 1.00	13 - 25	#2/0 - 350
2000	12	305	7.3	185	1.13	28.6	3.14	79.8	1.00	25.4	1.64	41.7	0.70 - 1.50	18 - 38	250 - 500
2700	12	305	9.5	241	1.20	30.5	4.24	107.7	1.35	34.3	2.32	58.9	1.00 - 2.00	25 - 58	600 - 1000

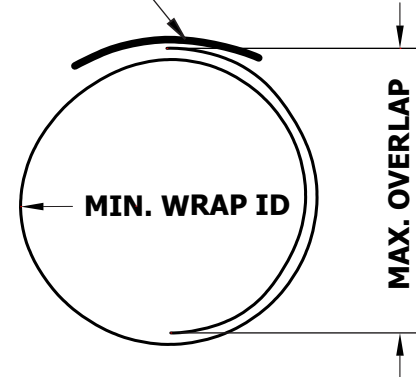
CFW QUICKWRAP

ORDER NUMBER	LENGTH		WIDTH		RECOMMENDED OVERLAP				EXPANDED SLEEVE I.D. WITH OVERLAP				APPLICATION RANGE (MIN - MAX)		CONDUCTOR SIZE
	IN	MM	IN	MM	IN (MIN)	MM (MIN)	IN (MAX)	MM (MAX)	IN (MIN)	MM (MIN.)	IN (MAX)	MM (MAX)	IN	MM	AWG/MCM 600/1000 V
1500	12	305	5.7	145	1.13	28.6	2.36	59.8	0.75	19.1	1.14	29.0	0.50 - 1.00	13 - 25	#2/0 - 350
2000	12	305	7.3	185	1.13	28.6	3.14	79.8	1.00	25.4	1.64	41.7	0.70 - 1.50	18 - 38	250 - 500
2700	12	305	9.5	241	1.20	30.5	4.24	107.7	1.35	34.3	2.32	58.9	1.00 - 2.00	25 - 58	600 - 1000

CLOSURE



CLOSURE



INSTALLATION NOTES

QuickWrap is a one-size-fits-all solution that can accommodate all sizes of cable and connectors. QuickWrap can be cut to length and width in the field to fit the specific application. Simply wrap the sleeve around the cable or connector, ensuring adequate overlap (allow for a minimum of 3 in or 76 mm), and then firmly apply the closure to hold QuickWrap together during the heat shrinking process. Please refer to the installation instructions included with each QuickWrap for more detailed information.

All information contained in this data sheet is believed to be reliable. We advise, however, that customers should separately evaluate the suitability of our products for their particular application. DSG-Canada and ShawCor give no guarantees in respect of the accuracy or sufficiency of the information presented and disclaim any liability regarding its use. Our responsibilities are only those listed in our Standard Terms and Conditions of Sale for these products. In no instance will we be liable for any eventual, indirect or consequential damage or damages arising from the sale, resale, transfer, use or misuse of the product.

INSULATE
SEAL
PROTECT

>2:1
SHRINK RATIO

COLD SEAL SPLICE KITS

CSS series cold applied splice sealing products are made of specially formulated silicone rubber that offers excellent insulation and moisture proof sealing for in-line cable connector systems or elbow to cable jacket applications. The rubber sleeves are factory expanded and held over a removable, plastic rip core housing. Installs quickly and easily.

FEATURES AND BENEFITS

- Ease of installation
- Suitable for a wide range of cable sizes
- UV resistance
- 1000V rating as a primary insulation cover
- No special tools or training required for installation

STANDARDS

- ANSI C119.1

TYPICAL APPLICATIONS

- Submersible cable connections
- In-line connector covers
- Elbow to cable jacket sealing
- Suitable for indoor or outdoor locations
- Cable jacket repair



COLD SEAL SPLICE KITS

DIMENSIONS

In-Line Splice Sealing Kits

Order No.	Conductor Size Range	Application Range (min – max)	Relaxed tube length
CSS-0750-8"	#2 – 1/0	0.37" – 0.57"	8.00"
CSS-1500-9"	2/0 – 400	0.57" – 1.35"	9.00"
CSS-2000-9"	500 – 800	0.97" – 1.95"	9.00"
CSS-3000-9"	900 - 1000	1.32" – 2.65"	9.00"
CSS-4000-9"	1250 - 2000	1.63" – 3.67"	9.00"

Kit Contents: Cold shrink tube and an instruction sheet.

Cable Jacket Sealing Kits (JCN Cables)

Order No.	Min Seal Diameter	Max Install Diameter	Supplied Tube Length	Relaxed Tube Length	15kV Cable	25kV Cable	35kV Cable
CSS-K1	0.97"	1.95"	4.5"	6.0"	#2-4/0	#2-2/0	1/0
CSS-K2	1.32"	2.65"	6.5"	8.0"	2/0-1000	1/0-750	1/0-500
CSS-K3	1.63"	3.67"	7.5"	9.0"	750-1500	600-1250	350-1000

Kit Contents: Cold shrink tube, mastic sealing strips and an instruction sheet.

Cable Jacket Sealing Kits (Metal Tape Shielded Cables)

Order No.	Min Seal Diameter	Max Install Diameter	Supplied Tube Length	Relaxed Tube Length	8kV Cable	15kV Cable	25kV Cable	35kV Cable
CSS-K0G	0.57"	1.35"	4.5"	6.0"	#8-#1	-	-	-
CSS-K1G	0.97"	1.95"	4.5"	6.0"	1/0-350	#2-250	#1-250	1/0
CSS-K2G	1.32"	2.65"	6.5"	8.0"	500-1000	350-1000	350-750	2/0-350
CSS-K3G	1.63"	3.67"	7.5"	9.0"	-	1250-1500	1000-1500	500-1500

Kit Contents: Cold shrink tube, mastic sealing strips, an external ground kit and an instruction sheet.

INSTALLATION NOTES

- Allow 2.0" min coverage on either side of connector during installation of sleeve
- Tube length dimensions are nominal

ORDERING

- Order example: CSS-0750-8"
- Please contact us for availability of non-standard cut-lengths

INSULATE
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PROTECT

AIRPORT LIGHTING KIT

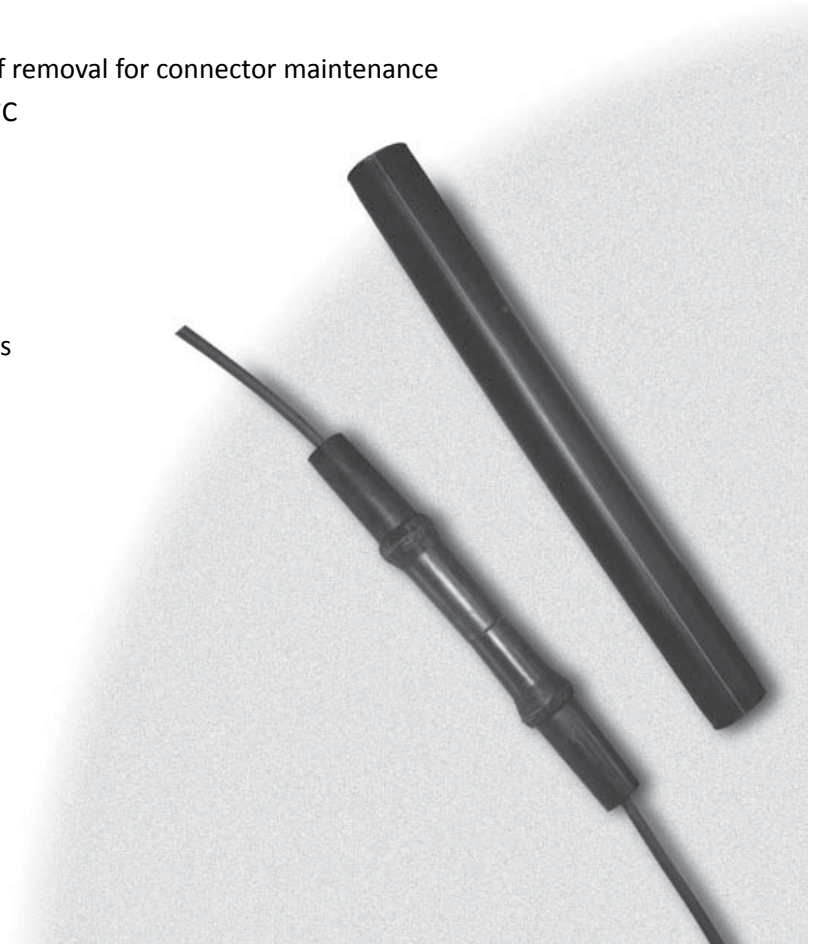
Airport Lighting Kits providing excellent insulating and environmental sealing protection for FAA approved L-823 plug and receptacle connectors

FEATURES AND BENEFITS

- 3:1 shrink ratio
- Protects against water intrusion and accidental disconnection
- Provides added strain relief for the connector/cable assembly
- Heat indicating lines disappear upon correct shrink temperature
- High impact and abrasion resistance
- Installs in minutes
- Adhesive free over connector allowing for ease of removal for connector maintenance
- Continuous operating temperature: -55°C to 110°C
- Shrink temperature: 120°C

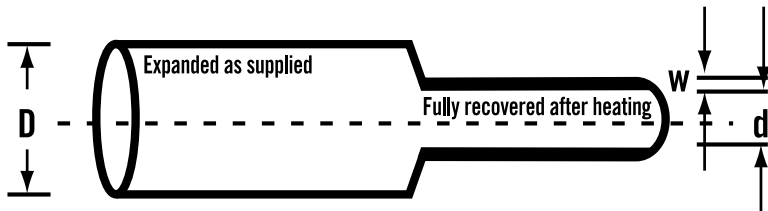
TYPICAL APPLICATIONS

- Airfield lighting systems
- Sealing L-823 type plug and receptacle connectors



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				SLEEVE LENGTH	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	MM	IN
1500	38.1	1.5	9.53	0.375	2.0	0.08	406	16



NOTE

- When heated above 120°C, CAPL Airport Lighting Kit sleeves shrinks rapidly to seal and encapsulate electrical connections, providing a fast, simple and clean insulation system that can also be easily removed.

ORDERING

- Please specify the product name plus the options you require
- Order Example: CAPL, 1500, 16 in

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

All information contained in this data sheet is believed to be reliable. We advise, however, that customers should separately evaluate the suitability of our products for their particular application. DSG-Canusa and ShawCor give no guarantees in respect of the accuracy or sufficiency of the information presented and disclaim any liability regarding its use. Our responsibilities are only those listed in our Standard Terms and Conditions of Sale for these products. In no instance will we be liable for any eventual, indirect or consequential damage or damages arising from the sale, resale, transfer, use or misuse of the product.

CCAP-RL

3:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

MEDIUM WALL CROSS-LINKED POLYOLEFIN END CAP

Heat shrink end caps are a simple yet effective method for sealing cable ends, pipe, conduit or other similar objects

FEATURES AND BENEFITS

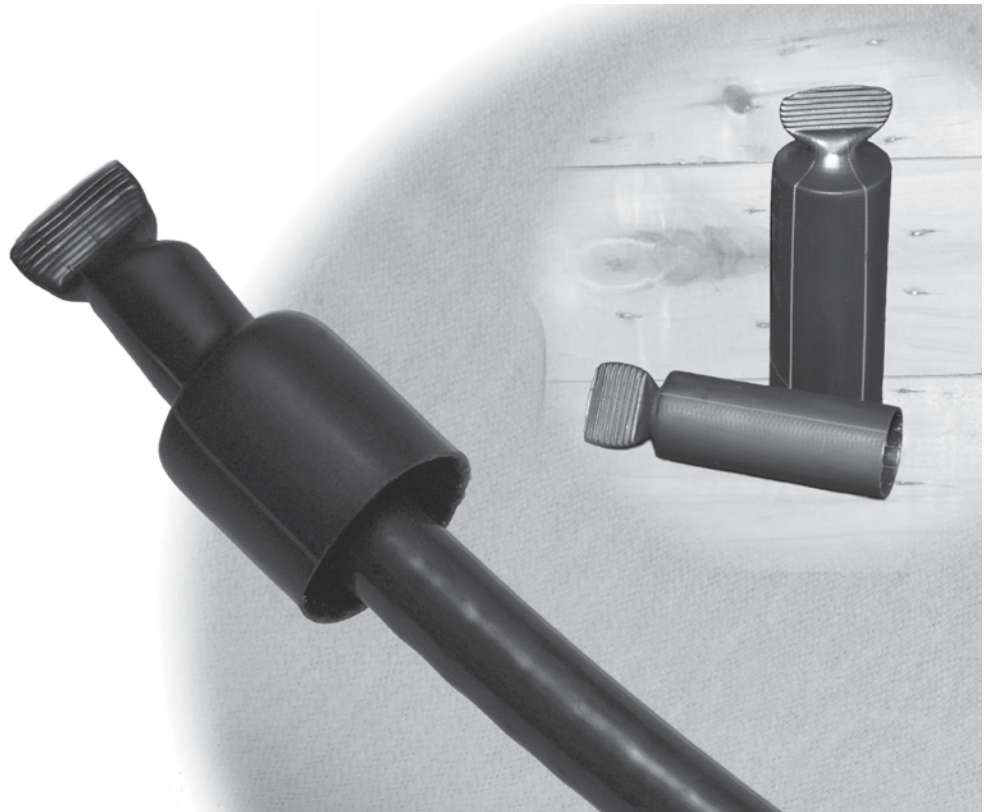
- 3:1 shrink ratio
- Superior resistance to weathering, moisture contamination and adverse environmental conditions
- Resistant to common fluids and solvents
- Standard adhesive liner provides complete environmental protection and insulation
- Coated hot melt adhesive resists pull-off
- Heat indicating lines
- Continuous operating temperature: -55°C to 110°C
- Shrink temperature: 120°C

STANDARDS

- Rated for 600/1000 V,
90°C continuous use

TYPICAL APPLICATIONS

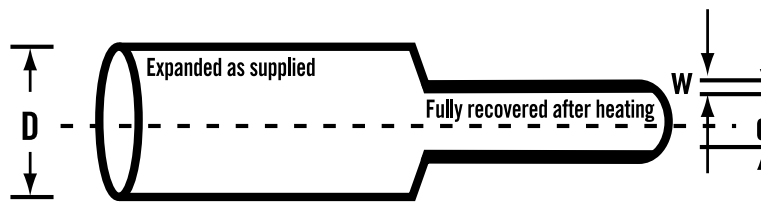
- Watertight sealing of cable
ends and pipe conduit



DIMENSIONS

ORDER NUMBER	EXPANDED LENGTH ¹ (NOM)		EXPANDED		RECOVERED				GENERAL USE DIAMETER		CABLE RANGE
			INTERNAL DIAMETER (MIN) - D		INTERNAL DIAMETER (MAX) - d		WALL THICKNESS (NOM) - W				
	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	AWG/MCM
0400-RL	50.8	2.0	10.2	0.40	3.8	0.15	2.0	0.080	4.5 - 8.5	.18 - .34	#8 - #1
0750-RL	63.5	2.5	19.1	0.75	5.6	0.22	2.0	0.080	6 - 16.5	.24 - .65	#2 - 4/0
1100-RL	76.2	3.0	27.9	1.10	10.2	0.40	2.4	0.095	11.5 - 25	.45 - 1	2/0 - 500
1300-RL	76.2	3.0	33.0	1.30	10.2	0.40	2.4	0.095	11.5 - 30	.45 - 1.2	300 - 1000
1500-RL	88.9	3.5	38.1	1.50	12.7	0.50	2.4	0.095	14 - 35	.55 - 1.4	500 - 1500
1700-RL	88.9	3.5	43.2	1.70	12.7	0.50	2.5	0.100	14 - 40	.55 - 1.6	650 - 1750
2050-RL	88.9	3.5	52.1	2.05	19.0	0.75	2.5	0.100	21 - 45	.82 - 1.8	900 - 2500
2750-RL	101.6	4.0	69.8	2.75	25.4	1.00	2.5	0.100	30 - 63	1.2 - 2.5	2000 - 2500
3500-RL	114.3	4.5	88.9	3.50	30.0	1.18	2.5	0.100	33 - 83.8	1.3 - 3.3	
4700-RL	139.7	5.5	119.4	4.70	39.9	1.57	2.7	0.105	40.6 - 114.3	1.6 - 4.5	

¹Length is measured from shoulder to open end of cap



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Printing: Printed or Unprinted
 - Adhesive Lining: Lined (D) or Unlined (U)
- Please specify the product name, order number and options you require
- Order example: CCAP, 1300-RL, black, unprinted, lined

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

CCAP-FR/RL

3:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

HEAVY WALL CROSS-LINKED POLYOLEFIN END CAP

Heat shrink end caps provide a simple yet effective method for sealing cable ends, pipe, conduit or other similar objects where maximum flame retardancy is required

FEATURES AND BENEFITS

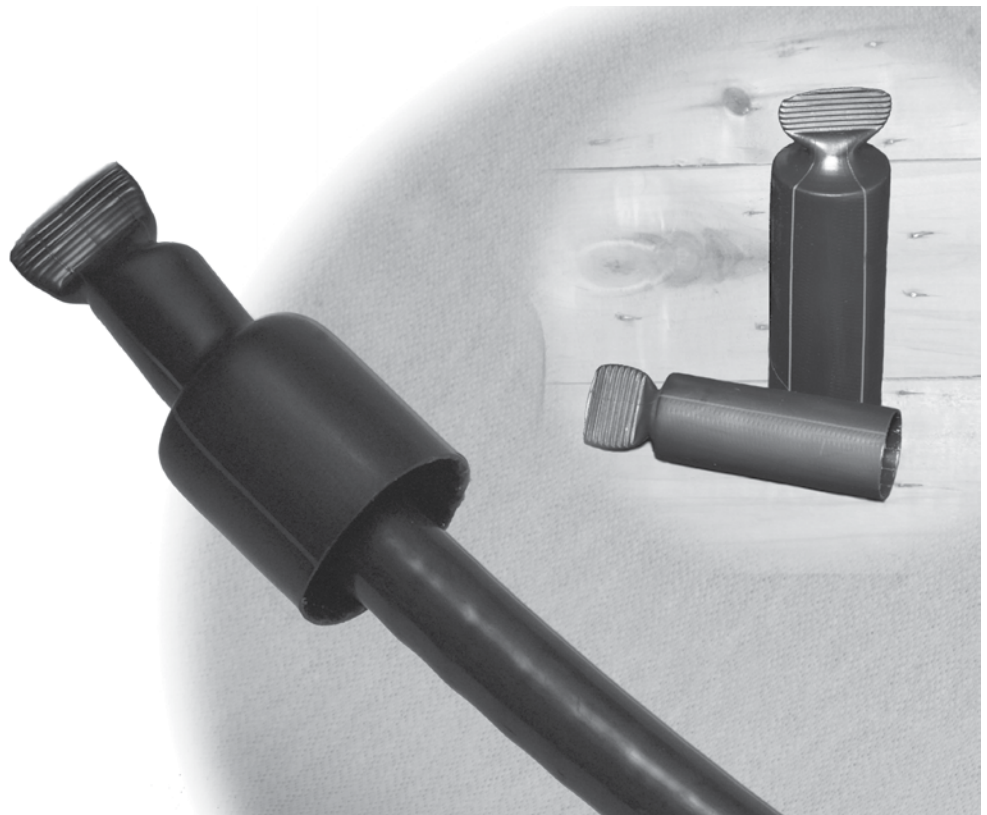
- 3:1 shrink ratio
- Flame retardant
- Superior resistance to weathering, moisture contamination and adverse environmental conditions
- Resistant to common fluids and solvents
- Standard adhesive liner provides complete environmental protection and insulation
- Heat indicating lines
- Continuous operating temperature: -55°C to 110°C
- Shrink temperature: 120°C

STANDARDS

- Rated for 600/1000 V,
90°C continuous use

TYPICAL APPLICATIONS

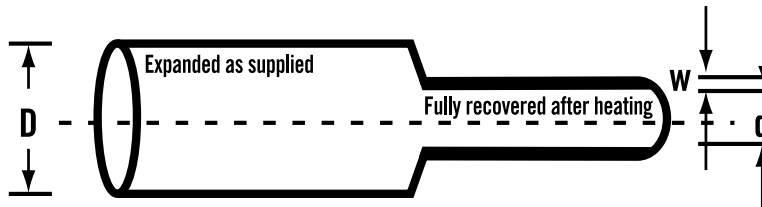
- Watertight sealing of cable ends and pipe conduit



DIMENSIONS

ORDER NUMBER	EXPANDED LENGTH ¹ (NOM)		EXPANDED		RECOVERED				GENERAL USE DIAMETER		CABLE RANGE
			INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W				
	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	AWG/MCM
0350-RL	50.8	2.0	8.9	0.35	3.0	0.12	1.8	0.07	3.5 - 8	.15 - .300	#14 - #10
0500-RL	63.5	2.5	13.0	0.51	4.1	0.16	2.4	0.09	4.5 - 11	.20 - .450	#8 - #6
0750-RL	63.5	2.5	19.0	0.75	6.1	0.24	2.4	0.09	6 - 16.5	.24 - .650	#6 - #2
1100-RL	76.2	3.0	27.9	1.10	8.9	0.35	3.0	0.12	10 - 24	.40 - .950	#1 - 3/0
1500-RL	88.9	3.5	38.1	1.50	11.9	0.47	4.1	0.16	13 - 35	.55 - 1.40	2/0 - 350
2000-RL	88.9	3.5	50.8	2.00	16.0	0.63	4.1	0.16	17.5 - 44	.70 - 1.75	250 - 500
2700-RL	101.6	4.0	68.1	2.70	22.1	0.87	4.1	0.16	24 - 59	.95 - 2.30	600 - 1000
3500-RL	114.3	4.5	89.9	3.50	30.0	1.18	4.1	0.16	33 - 80	1.3 - 3.30	800 - 1250
4700-RL	139.7	5.5	119.4	4.70	39.9	1.57	4.2	0.17	44 - 104	1.7 - 4.10	1500 - 2500

¹Length is measured from shoulder to open end of cap



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Printing: Printed or Unprinted
 - Adhesive Lining: Lined (D) or Unlined (U)
- Please specify the product name, order number and options you require
- Order example: CCAP-FR, 1500-RL, black, unprinted, lined

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

INSULATE
SEAL
PROTECT

CROSS-LINKED POLYOLEFIN CABLE BREAKOUT BOOTS

Heat Shrink Boots seal and protect multi-conductor cable and conduit breakouts

FEATURES AND BENEFITS

- Shrink ratio accommodates a wide range of cables
- Flame retardant
- Boots for 2, 3 and 4 way cable breakouts
- Strain relief and mechanical protection
- Thermoplastic adhesive liner provides complete environmental protection and insulation
- Continuous operating temperature: -55°C to 100°C
- Shrink temperature: 135°C

STANDARDS

- ESI 09-11

TYPICAL APPLICATIONS

- Strain relief for multi-core cables
- Moisture sealing and environmental protection

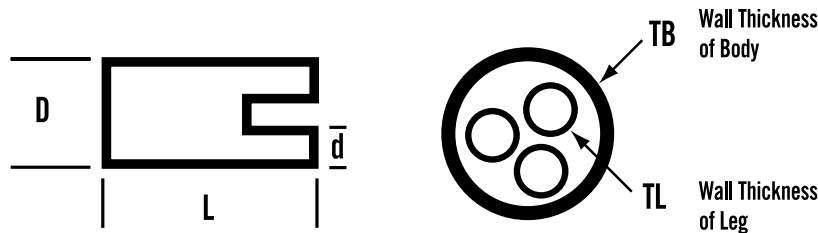


CROSS-LINKED POLYOLEFIN CABLE BREAKOUT BOOTS

CCB

DIMENSIONS

ORDER NUMBER	LEG	EXPANDED				RECOVERED										APPLICATION LEGS 600 V CONDUCTOR
		DIAMETER (MIN) D		DIAMETER (MIN) d		DIAMETER (MAX) D		DIAMETER (MAX) d		LENGTH (NOM) L		WALL THICKNESS OF BODY (NOM) TB		WALL THICKNESS OF LEG (NOM) TL		
	NO	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	AWG/MCM
0120	2	30.0	1.18	15.0	0.59	9.4	0.37	4.10	0.16	94.0	3.70	1.5	0.06	1.2	0.05	#10 - 2/0
0200	2	50.0	1.97	21.0	0.83	22.9	0.90	7.60	0.30	119.0	4.69	3.2	0.13	3.2	0.13	#3 - 300
0340	2	87.0	3.43	43.0	1.69	38.1	1.50	12.70	0.50	141.5	5.57	3.8	0.15	3.8	0.15	3/0 - 1000
0150	3	38.1	1.50	16.5	0.65	12.7	0.50	4.00	0.16	113.5	4.47	2.9	0.11	2.9	0.11	#8 - 3/0
0170	3	43.2	1.70	20.8	0.82	22.9	0.90	7.60	0.30	99.0	3.90	3.8	0.15	3.8	0.15	#3 - 300
0220	3	55.8	2.20	30.4	1.20	22.5	0.89	9.00	0.35	180.0	7.09	3.0	0.12	2.0	0.12	#1 - 600
0240	3	61.0	2.40	31.8	1.25	35.6	1.40	12.60	0.50	144.5	5.69	3.8	0.15	3.8	0.15	3/0 - 750
0280	3	100.0	3.94	39.9	1.57	27.9	1.10	12.9	0.51	210.0	8.27	3.6	0.14	2.5	0.10	300 - 1000
0350	3	90.0	3.54	35.0	1.38	34.0	1.34	14.00	0.55	200.0	7.87	3.0	0.12	2.0	0.08	4/0 - 1000
0430	3	110.0	4.33	40.0	1.57	35.0	1.38	17.50	0.69	178.0	7.01	4.0	0.16	3.0	0.12	300 - 1000
0490	3	125.0	4.92	50.8	2.00	59.0	2.32	25.40	1.00	283.0	11.14	3.8	0.15	3.8	0.15	750 - 1000
0140	4	35.0	1.38	15.0	0.59	12.0	0.47	3.00	0.12	95.0	3.74	2.5	0.10	2.0	0.08	#12 - 2/0
0190	4	47.4	1.87	21.5	0.85	22.9	0.90	6.40	0.25	165.1	6.50	4.1	0.16	3.3	0.13	#6 - 350
0240	4	60.0	2.36	30.0	1.18	22.9	0.90	6.40	0.25	202.0	7.95	4.1	0.16	3.3	0.13	#4 - 600
0310	4	78.7	3.10	38.1	1.50	35.6	1.40	12.50	0.49	240.0	9.45	3.3	0.13	3.3	0.13	3/0 - 1000
0525	4	133.4	5.25	34.3	1.35	76.2	3.00	14.00	0.55	254.4	10.02	4.1	0.13	4.1	0.16	4/0 - 1000



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Legs: 2, 3 or 4
 - Printing: Printed or Unprinted
 - Adhesive Lining: Lined (D) or Unlined (U)
- Please specify the product name, order number and options you require
- Order example: CCB, 0120, 2 legs, black, unprinted, unlined

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

INSULATE
SEAL
PROTECT

MINING CABLE SPLICE KIT

Mining Cable Splice Kits permanently insulate and seal cable splices to 2 kV

FEATURES AND BENEFITS

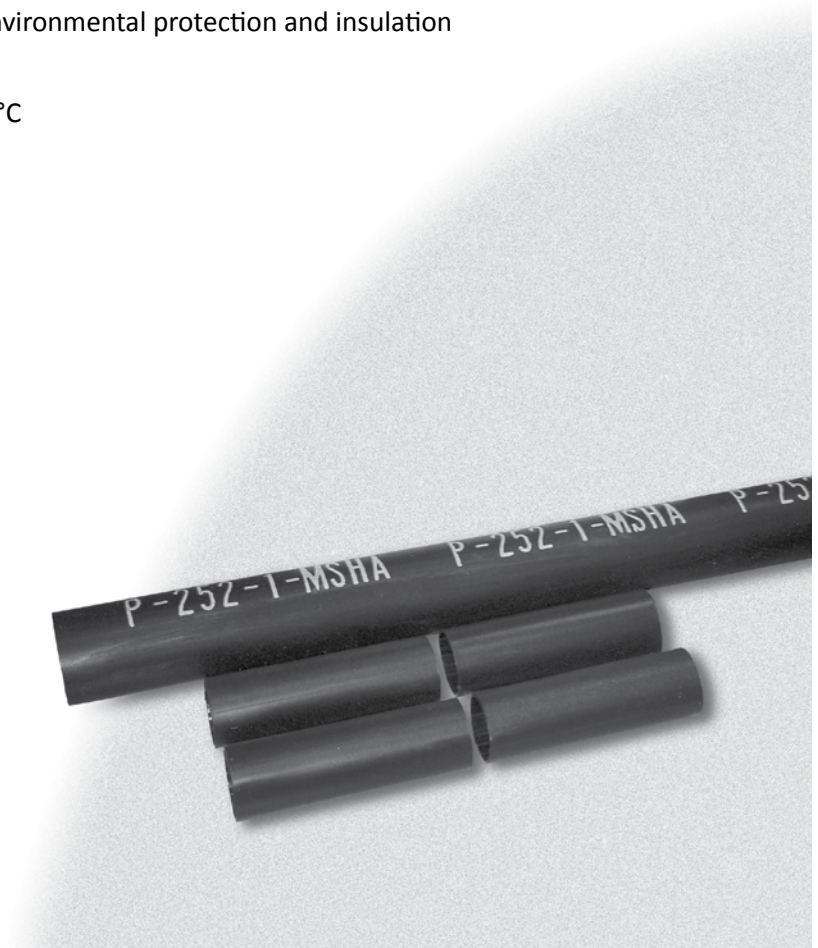
- 3:1 shrink ratio
- Flame retardant
- Quick and easy installation
- Covers many types of mining cables including round, flat, W, G, G-GC, PG and PCG cable types
- Outer sleeves will not split or rupture during normal installation, even on overheating
- Thermoplastic adhesive liner proves complete environmental protection and insulation
- Installation at temperature as low as -40°C
- Continuous operating temperature: -55°C to 110°C

STANDARDS

- MSHA approved, #P-252-1

TYPICAL APPLICATIONS

- Mining cable splices



DIMENSIONS

ORDER NUMBER	CABLE DIAMETER SIZE RANGE	TYPE G ROUND, POWER CONDUCTOR SIZE RANGE (AWG/MCM)			
		(G) 2/C	(G) 3/C	(G) 4/C	(G-GC) 3/C
046	.08 - 1.2	#8 - #4	#8 - #6	#8 - #6	#8 - #6
047	1.2 - 2.0	#3 - 4/0	#4 - 1/0	#4 - 1/0	#4 - 1/0
058	1.5 - 3.0		2/0 - 500	2/0 - 4/0	2/0 - 500

		TYPE P ROUND, POWER CONDUCTOR SIZE RANGE (AWG/MCM)			
		(PG) 2/C	(PG) 3/C	(PCG) 4/C	(PCG) 3/C
046	.08 - 1.2	#8 - #4	#8 - #6	#8 - #4	#8 - #6
047	1.2 - 2.0	#3 - 4/0	#4 - 1/0		
058	1.5 - 3.0		2/0 - 500		

		TYPE W ROUND, POWER CONDUCTOR SIZE RANGE (AWG/MCM)			
		(W) 1/C	(W) 2/C	(W) 3/C	(W) 4/C
046	.08 - 1.2	Contact Factory	#6 - #2	#6 - #3	#8 - #6
047	1.2 - 2.0		#1 - 2/0	#2 - 4/0	#4 - 1/0
058	1.5 - 3.0				2/0 - 4/0

		FLAT, POWER CONDUCTOR SIZE RANGE (AWG/MCM)			
		(W) 2/C	(G) 2/C	(G) 3/C	(G-GC) 3/C
046	.08 - 1.2	#4 - #1	#4 - #1		
047	1.2 - 2.0	1/0 - 4/0	1/0 - 4/0	#6 - #2	#6 - #2
058	1.5 - 3.0			#1 - 2/0	#1 - 2/0

ORDERING

- Select the appropriate CMSK Mining Cable Splice Kit based on your cable conductor size. Check the cable dimensions to be sure they conform to the selected kit size.
- Please specify the product name plus the options you require
- Order Example: CMSK, 046-C

Please contact your Customer Service Representative for information on custom sizes, lengths and material data sheet.

INSULATE
SEAL
PROTECT

HEAT SHRINK CABLE REPAIR SLEEVE

Adhesive lined, heat shrink wraparound sleeve that is closed with a flexible stainless-steel locking channel. Used for general re-jacketing and sealing applications, protection of damaged cable or repair of cable joints. Installs easily in splice applications that are longer in length.

FEATURES AND BENEFITS

- >3:1 shrink ratio
- Provides water tight seal upon recovery
- Offers mechanical durability
- Application procedure is quick, simple and clean
- Covered with thermochromatic paint that changes upon correct shrink temperature
- Sleeve and channel can be cut to suit short application requirements
- Steel channel provides permanent closure system
- Installation temperature range: -15°C to 45°C

TYPICAL APPLICATIONS

- Cable jacket repair
- Primary insulation cover on low voltage cables
- Re-jacketing cover for power cables



DIMENSIONS

ORDER NUMBER	EXPANDED ID		RECOVERED ID		RECOVERED WALL THICKNESS		SLEEVE LENGTH	
	MM	IN	MM	IN	MM	IN	MM	IN
CRDW-1	43	1.69	8	0.32	2.3	0.09	1219	48
CRDW-2	75	2.95	15	0.59	2.3	0.09	1219	48
CRDW-3	93	3.66	25	0.98	2.3	0.09	1219	48
CRDW-4	137	5.39	34	1.34	2.3	0.09	1219	48
CRDW-5	160	6.30	48	1.89	2.3	0.09	1219	48
CRDW-6	200	7.87	48	1.89	2.3	0.09	1219	48

ORDERING

- Select a dimension which will shrink snugly over the component to be covered. Allow for a minimum of 76 mm (3 in) length overlap beyond each end of the area to be covered.
- Please specify the product name plus the options you require
- Order Example: CRDW-1
- Standard Product: Black, 48 in length

Please contact your Customer Service Representative for information on custom lengths and material data sheet.

CRDW-CT



INSULATE
SEAL
PROTECT

1 KV CABLE TAP SPLICE KIT

Adhesive lined, heat shrink wraparound sleeve that is closed with a flexible stainless-steel locking channel. Used for making in-line Y or H parallel splices on cable up to 1000 V without cutting the main or run cable

FEATURES AND BENEFITS

- Provides water tight seal upon recovery
- Offers mechanical durability
- Suitable for connecting Main and Tap runs to 500 kcmil size
- Accommodates compression and split bolt connectors
- High shrink ratio covers irregular shapes
- High impact and abrasion resistance
- Application procedure is quick, simple and clean
- Steel channel provides permanent closure system
- Installation temperature range: -15°C to 50°C

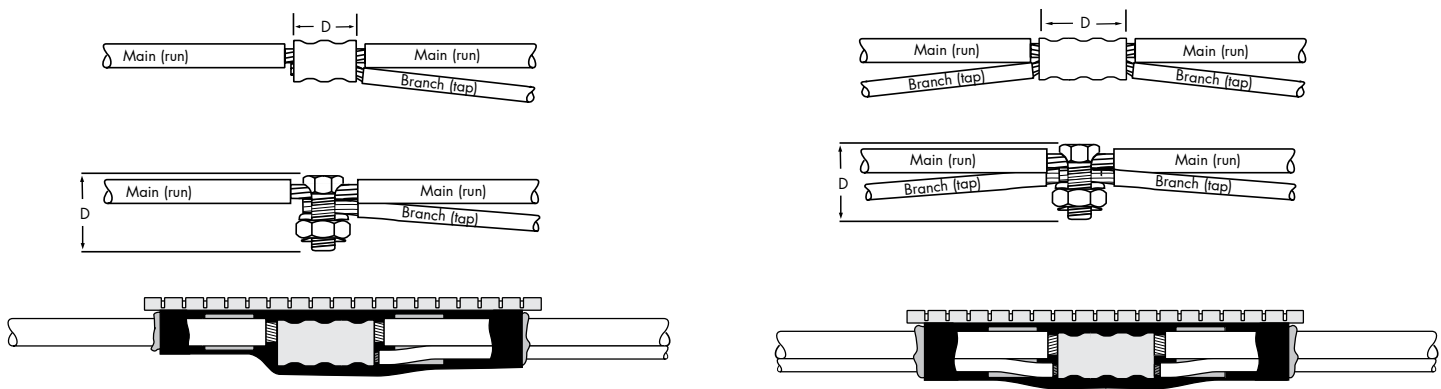
TYPICAL APPLICATIONS

- Cable tap splicing
- General re-jacketing and sealing of electrical cables



DIMENSIONS

ORDER NUMBER	MAIN (RUN) CABLE SIZE	BRANCH (TAP) CABLE SIZE	CONNECTOR DIMENSIONS	SLEEVE LENGTH
	AWG/KCMIL	AWG/KCMIL	"D" MAX	IN
CRDW-CT1	#8 - #2	#10 - #2	2	6
CRDW-CT2	#2 - 4/0	#10 - 4/0	4	8
CRDW-CT3	4/0 - 500	#2 - 500	6	10



NOTE

- Split bolts can only be used up to #2 AWG Main and Branch cable sizes

ORDERING

- Select the cable run and tap combination and confirm that the connector dimensions are not exceeded.
- Please specify the product name plus the options you require
- Order Example: CRDW-CT1

Please contact your Customer Service Representative for information on non-standard sizes, combinations and material data sheet.

INSULATE
SEAL
PROTECT

HEAT SHRINK CABLE REPAIR SLEEVE

A superior wraparound insulation product that easily installs in repair and splice applications providing excellent insulation and protection for cable jackets

FEATURES AND BENEFITS

- 3:1 shrink ratio
- Shut down of system not required for repair
- High shrink ratio covers even irregular shapes
- Better split resistance than competitive products
- Simple RAIL-LESS® installation with clamshell design
- Thermoplastic adhesive liner provides complete environmental protection and insulation
- Continuous operating temperature: -55°C to 110°C
- Shrink temperature: 120°C

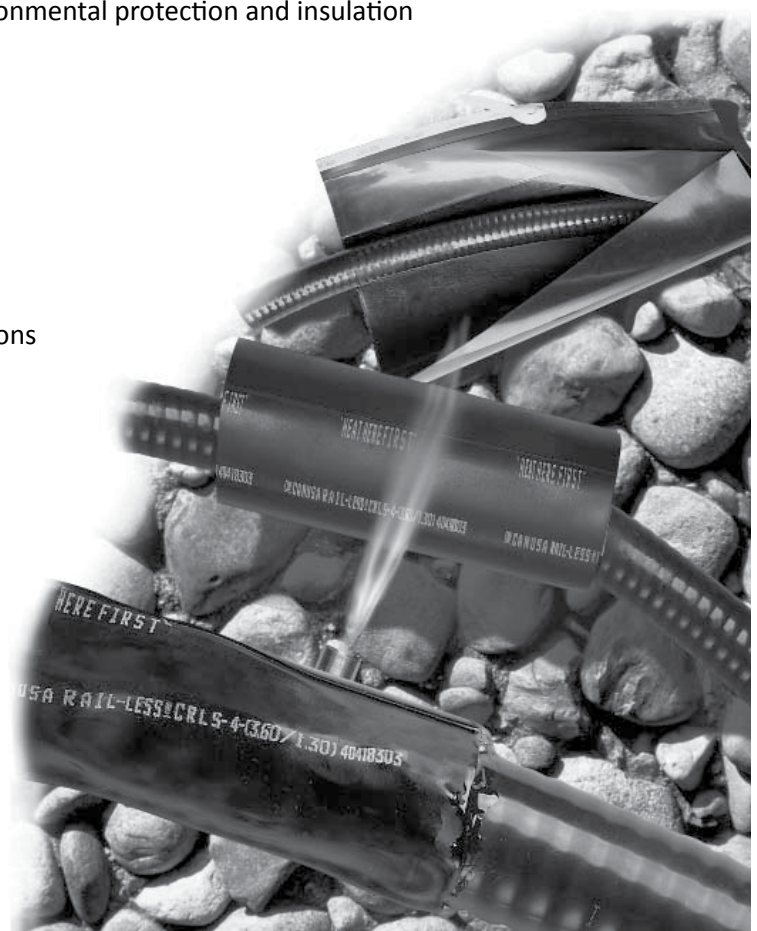
*RAIL-LESS is a registered trademark of ShawCor

STANDARDS

- Meets ICEA and NEMA insulation thickness specifications

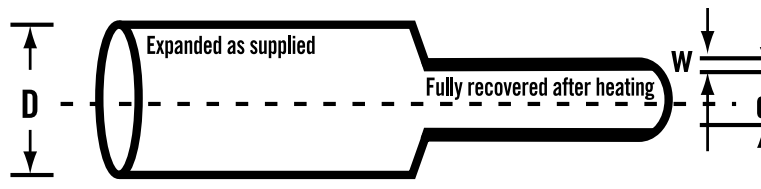
TYPICAL APPLICATIONS

- Cable jacket repair
- Retrofit protection of connectors
- Low voltage cable splicing
- Conduit repair



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				600/1000 V SINGLE CONDUCTOR SIZE	LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W				
	MM	IN	MM	IN	MM	IN	AWG/MCM	MM	IN
1	30	1.20	12	0.47	2	0.08	#1 - 3/0	152, 203, 305, 610, 914	6,8,12,24,36
2	46	1.80	14	0.60	2	0.08	2/0 - 400	203, 305, 610, 914	8,12,24,36
3	68	2.70	24	0.95	2	0.08	400 - 1000	203, 305, 610, 914	8,12,24,36
4	91	3.60	33	1.30	2	0.08	1000 - 2000	203, 305, 610, 914	8,12,24,36
5	126	4.95	47	1.65	2	0.08	Multiple Conductor	203, 305, 610, 914	8,12,24,36
6	171	6.75	67	2.50	2	0.08	Multiple Conductor	203, 305, 610, 914	8,12,24,36



ORDERING

- Select a dimension which will shrink snugly over the component to be covered.
Allow for a minimum of 76 mm (3 in) length overlap beyond each end of the area to be covered.
- Please specify the product name plus the options you require
- Order Example: CRLS 2
- Standard Product: Black, 36 in length

Please contact your Customer Service Representative for information on custom sizes, lengths and material data sheet.

INSULATE
SEAL
PROTECT

STREET LIGHTING KIT

Street Lighting Kits are a convenient method for the installation, maintenance and repair of street lighting systems

FEATURES AND BENEFITS

- 3:1 shrink ratio
- Excellent insulation, sealing and strain relief for splice repairs or cable extensions
- Thermoplastic adhesive liner provides complete environmental protection and insulation
- High impact and abrasion resistance
- Kits can be installed at temperature as low as -40°C
- Tubing will not split or rupture during normal installation, even when overheated
- Continuous operating temperature: -55°C to 110°C
- Shrink temperature: 120°C
- Also available as a wrap-around sleeve

TYPICAL APPLICATIONS

- Street lighting cable splices



DIMENSIONS

ORDER NUMBER	KIT DESCRIPTION	CONNECTOR TYPE
1	12 AWG, 2 Conductor, Solid 10 AWG, 2 Conductor, Stranded	2 each, "C" Type/Crimp
1A	12 AWG, 2 Conductor, Solid 10 AWG, 2 Conductor, Stranded (with ground)	3 each, "C" Type/Crimp

CONTENTS

- Each kit includes adhesive coated heat shrink sleeves and compression connectors

ORDERING

- Select the appropriate CSLK Street Lighting Kit.
- Please specify the product name plus the options you require
- Order Example: CSLK 1A

Please contact your Customer Service Representative for information on custom kits and material data sheet.

CTSB-2/CTSG-1



INSULATE
SEAL
PROTECT

TAPE SEALANT

CTSB-2: Specially designed, rubber based, black sealant tape for use with heat shrink tubing
CTSG-1: Cross-linked, grey butyl tape suitable for continuous high temperature applications

FEATURES AND BENEFITS

CTSB-2

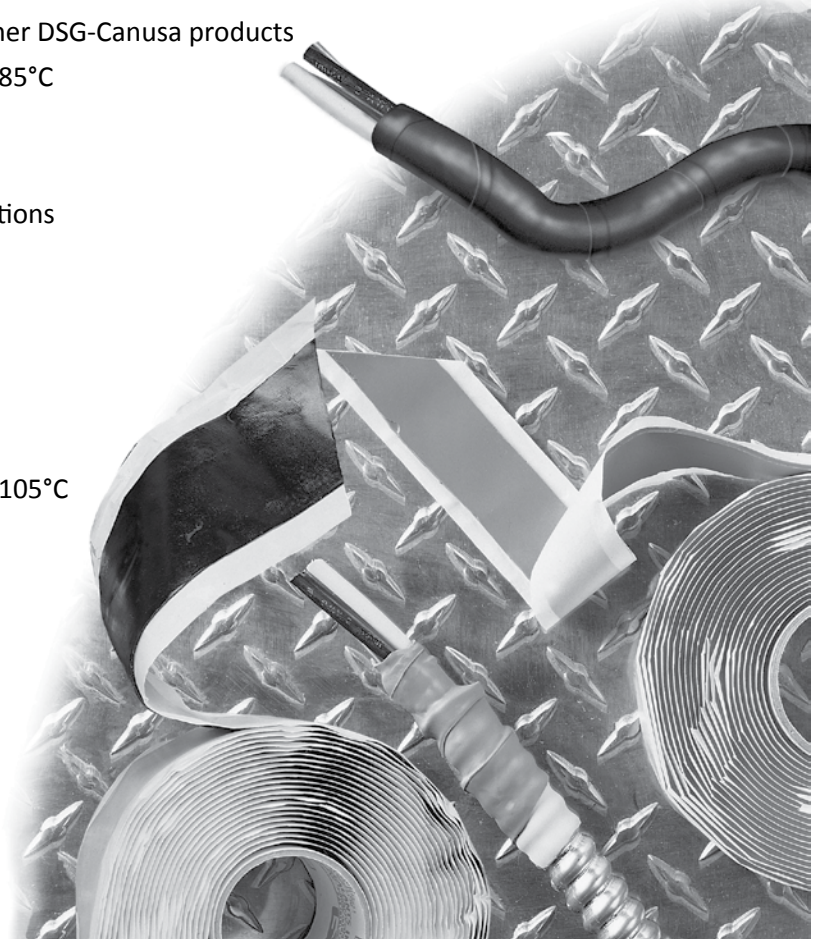
- Excellent adhesion to PVC, PE and steel
- Softens to fill voids
- Remains flexible over time
- Non-conductive
- Superior waterproof seal when used with other DSG-Canusa products
- Continuous operating temperature: -30°C to 85°C

CTSG-1

- Protects sharp edges and smooths out transitions
- Environmentally seals areas and tubing
- Non-conductive
- Excellent high temperature performance
- Resistant to common fluids and solvents
- High dielectric strength (310 V/mil)
- Continuous operating temperature: -30°C to 105°C

TYPICAL APPLICATIONS

- Insulating and sealing electrical connections
- Padding over irregular surfaces



DIMENSIONS

ORDER NUMBER	WIDTH		THICKNESS		ROLL LENGTH	
	MM	IN	MM	IN	MM	IN
CTSB-2 (Black)	50.8	2.0	1.5	0.06	7620	300
CTSG-1 (Grey)	25.4	1.0	1.5	0.06	7620	300

ORDERING

- Select the appropriate tape sealant.
- Please specify the product name plus the options you require
- Order Example: CTSG-1

Please contact your Customer Service Representative for information on tape sealant and material data sheet.

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DV TAPE

1.1:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

ADHESIVE LINED CROSS-LINKED POLYOLEFIN TAPE

Adhesive lined, heat shrink duct and vacuum tape specifically designed for sealing joints on spiral, flexible or flat oval ducts used in heating, ventilating, air conditioning and exhaust recovery systems

FEATURES AND BENEFITS

- 1.1:1 shrink ratio
- Eliminates air leakage in vacuum and ventilation systems
- Seals against moisture ingress and other contaminants
- Powerful adhesive bonds to galvanized steel, aluminum and stainless steel
- Effective, reproducible seal allows for resistance to bending, vibrations and other mechanical stresses over a wide range of temperatures
- Application procedure is quick, simple and clean
- Operating temperature range: -25°C to 45°C
- Shrink temperature: 120°C

TYPICAL APPLICATIONS

- Sealing HVAC duct systems



DIMENSIONS

DV TAPE WIDTH		DUCT DIA APPLICATION RANGE		STANDARD LENGTH		RECOMMENDED MINIMUM JOINT OVERLAP	
MM	IN	MM	IN	M	FT	MM	IN
50	2	50 - 250	2 - 10	25	82	50	2.0
75	3	280 - 500	11 - 20	25	82	63	2.5
100	4	550 - 1000	22 - 40	25	82	75	3.0
100	4	1050 - 1500	42 - 60	25	82	100	4.0

INSTALLATION NOTES

- Cut the DV Tape to the circumference of the duct plus the recommended overlap noted in the Dimensions table. DV Tape is supplied with the adhesive side face up on the roll. Wrap around the joint and hold in place. Upon application of heat using a propane gas torch, the tape shrinks tightly around the joint, forcing the melted adhesive to flow in surface contours, spiral seams or corrugations. After cooling, the adhesive solidifies and bonds tenaciously to galvanized steel, aluminum or stainless steel. The ducting can be handled immediately after cooling.

ORDERING

- Select a dimension which will fit snugly over the component to be covered
- Please specify the product name plus the options you require
- Order Example: DV Tape, 2 in width

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

UF SPLICE KIT



INSULATE
SEAL
PROTECT

UNDERGROUND FEEDER (UF) CABLE SPLICE KITS

UF Cable Splice Kits are used to provide a reliable yet simple method of connecting 600 V rated UF cables ranging from #14/2 with ground up to #8/3 with ground. Heavy wall, adhesive lined heat shrink tubing provides an effective, moisture proof seal that is suitable for submersible and direct burial splice applications

FEATURES AND BENEFITS

- Outer tubing sleeve provides excellent abrasion resistance
- Accommodates #14 to #8 AWG UF type cables
- Heat activated seal ensures maximum protection against moisture ingress
- Quick and easy installation
- Rated for 600 V

STANDARDS

- UL 486D listed for direct burial applications

TYPICAL APPLICATIONS

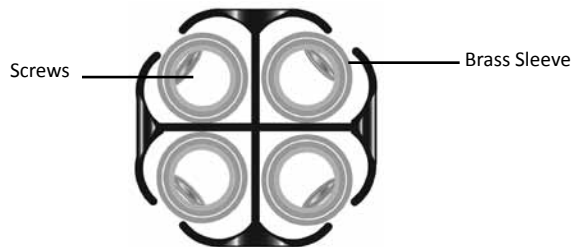
- Irrigation systems
- Splicing of underground feeder cables



UF SPLICE KIT

INSTALLATION INSTRUCTIONS

1. Remove 2 in. of jacket from UF cable.
2. Strip 5/8 in. of insulation from conductors.
3. Clean cable surface and wipe dry.
4. Insert wires into the brass connector making sure that the wires are inserted an equal length into the brass sleeve so that the set screw can engage into the copper of each wire.
7. Slide the heat shrink tubing over the connection so that it is centered over the brass connector assembly.
8. Apply heat to the shrink tube with a torch or heat gun from the middle of the shrink tubing moving out to each end.
9. Apply heat until adhesive flows out on both ends of the tube.



5. Slide the enclosed heat shrink tubing over one end of the wire.



10. Properly installed, shrink tube will be smooth and



conform to the cable.

6. Tighten screws with 8 in pounds of torque.

ORDERING

- UF Splice Kit

KIT CONTENTS

- Heavy Wall Tubing
- Four (4) position Barrel Connector
- Instruction Sheet



MEDIUM VOLTAGE PRODUCTS

Medium voltage heat shrink and cold shrink products are used on electrical distribution cable networks and accessories, and other electrical equipment to provide the highest quality insulation solutions.

Heat shrink and cold shrink solutions for power cable applications include cable terminations and splices to 35 kV. DSG-Canusa's innovative products provide a cost effective alternative to hand applied tape, rubber moulded force-fit shapes, and resin based technology. The kits are factory designed and independently tested to the latest IEEE standards.

CT SERIES

INSULATE
SEAL
PROTECT

HEAT SHRINK CABLE TERMINATIONS FOR 1/C AND 3/C, 5 kV TO 35 kV SHIELDED AND NON-SHIELDED POWER CABLES FOR THE ELECTRICAL UTILITY, COMMERCIAL AND INDUSTRIAL MARKETS

The CT series heat shrink cable terminations rated 5 kV through 35 kV are designed for single and three core, non-shielded, metal tape, drain wire shield, bare and jacketed concentric neutral and LC type shielded cables. The terminations use heat activated mastic seals that unequivocally bond to plastics and metal to provide excellent protection against moisture ingress. The electrical stresses at the semicon cutback point are controlled with the use of a proven, stress control tube and stress control sealant that provide a smooth, void-free interface and a redundant seal. CT series terminations are designed with a non-tracking outer insulating material that offers resistance to UV degradation and a self-cleaning outer surface that prevents build up of environmental contaminants to eliminate sources of tracking

FEATURES AND BENEFITS

- Fast, consistent installation means lower installed costs
- Installation environment: use of torch adds flexibility to cable preparation in any climate
- Heat activated seal ensures maximum protection against moisture ingress
- Custom tailored with options to your exacting needs
- Lightweight construction requires no additional support
- Wide cable ranges for reduced inventory requirements
- Tough abrasion resistant non-tracking outer covering
- Slim profile allows installation in confined switch gear cubicles

STANDARDS

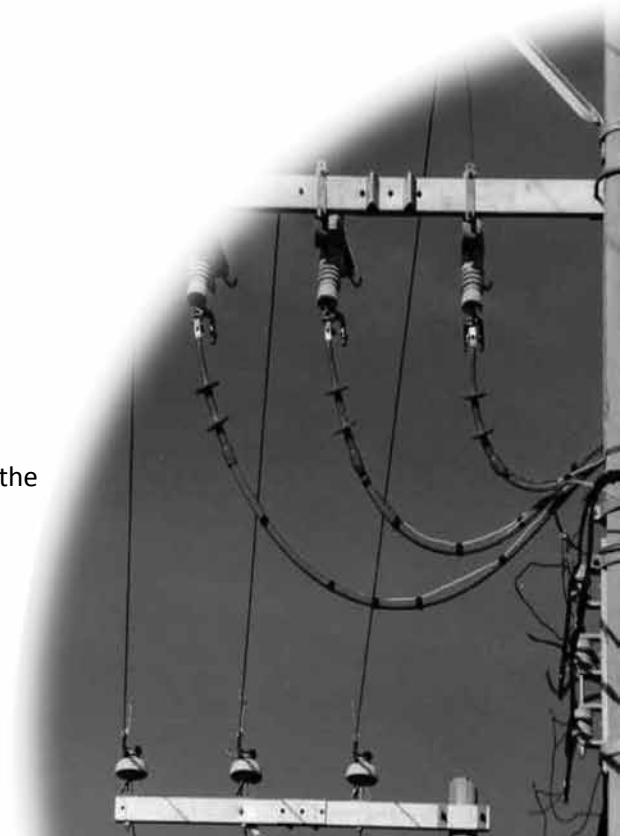
- IEEE 48-1996, Class 1

TEST REPORTS

The CT 080 series through CT 350 series terminations were tested to the requirements of IEEE 48-1996, Class 1 at an independent laboratory.

Test reports are available as follows:

- CT 080 series: HVS020075
- CT 150 series: HVS020076
- CT 250 series: HVS020077 and HVS020083
- CT 350 series: HVS020078



HEAT SHRINK, MEDIUM VOLTAGE CABLE TERMINATIONS

CT SERIES

PRODUCT LINE

- CT 50N Series: 5 kV through 8 kV non-shielded extruded dielectric (XLPE or EPR) fixed power cable terminations.
Available as single core and three core configurations.
Standard Packaging: CT 50N three, single core kits per box; or
CT 50N3 one, three core kit per box
- CT LC Series: 15 kV through 35 kV, longitudinally corrugated shield (LC), extruded dielectric (XLPE or EPR) fixed power cable, indoor and outdoor terminations
Available as a single core kit packaged: one single core kit per box
Comes complete with solder less external grounding kit
Available with optional cable preparation/cleaning kit
- CT UD Series: 15 kV through 35 kV, bare and jacketed concentric neutral, extruded dielectric (XLPE or EPR) underground distribution cable, indoor and outdoor terminations
Available as single core kit packaged one single core kit per box
Optional cable preparation/cleaning kit can be included
- CT G Series: 5 kV through 35 kV, copper tape, drain wire, UniShield® and lead sheath shielded, extruded dielectric (XLPE or EPR) cable terminations
Available in single core kits packaged three kits per box and as three core kits packaged as one, three core kit per box

Connectors are not supplied in the kits because of the different connector types (copper or aluminum), terminal type (pin or pad), type of pad (1 hole, 2 hole or 4 hole, etc.), and the hole size and spacing required for the pads. Ask you local DSG-Canusa stocking distributor to add connectors to your kits or consult the DSG-Canusa factory.

TEST DATA

TERMINATION TESTS TO IEEE 48-1996, CLASS 1 STANDARD TEST PROCEDURES AND REQUIREMENTS FOR ALTERNATING CURRENT CABLE TERMINATIONS 2.5 kV THROUGH 765 kV	TEST SEQUENCE	VOLTAGE CLASS			
		5 - 8 kV	15 kV	25 kV	35 kV
Partial discharge (corona) extinction voltage <5 pC	↓	7.5 kV	13 kV	21.5 kV	30 kV
Power frequency voltage 1 min dry withstand	↓	35 kV	50 kV	65 kV	90 kV
Power frequency voltage 6 hr dry withstand	↓	25 kV	35 kV	55 kV	75 kV
Power frequency voltage 10 sec wet withstand	↓	30 kV	45 kV	60 kV	80 kV
Direct voltage 15 min dry withstand	↓	65 kV	75 kV	105 kV	140 kV
Lightning impulse voltage withstand (1.2 x 50 µs wave)	↓	95 kV	110 kV	150 kV	200 kV
Partial discharge (corona) extinction voltage <5 pC	↓	7.5 kV	13 kV	21.5 kV	30 kV
Cyclic Aging: 30 cycles; 130°C for 6 hr/day at:	↓	15 kV	26 kV	43 kV	60 kV
Lightning impulse voltage withstand (1.2 x 50 µs wave)	↓	95 kV	110 kV	150 kV	200 kV
Partial discharge (corona) extinction voltage <5 pC	↓	7.5 kV	13 kV	21.5 kV	30 kV
Pressure leak test: 30 psig for 1 hr, 15 psig for 2 hr, 7.5 psig for 6 hr and 67 Pa to <670 Pa for 30 min	■	Pass	Pass	Pass	Pass
Continuous current rating	Equal to cable ampacity _____				

CT 50N SERIES

INSULATE
SEAL
PROTECT

HEAT SHRINK MEDIUM VOLTAGE CABLE TERMINATIONS

Heat shrink terminations for single and three core, 5 kV through 8 kV XLPE and EPR non-shielded cables for the Utility and Construction markets

FEATURES AND BENEFITS

- Fast, consistent installation means lower installed costs
- Installation environment: use of torch adds flexibility to cable preparation in any climate
- Heat activated sealant for weather tight seals
- Light weight construction requires no additional support
- UV resistant, non-tracking outer tube for long life even under adverse conditions.
No sheds are required for outdoor use
- Tough abrasion resistant outer covering
- Slim profile allows installation in confined switch gear cubicles

STANDARDS

- IEEE 48-1996, Class 1

TEST REPORTS

The CT 080 series terminations were tested to the requirements of IEEE 48-1996, Class 1 at an independent test laboratory.

Test report available:

- CT 080 series: HVS020075



HEAT SHRINK MEDIUM VOLTAGE CABLE TERMINATIONS

CT 50N SERIES

PRODUCT LINE

CT 50N Series

- 1/C, 5 - 8 kV non-shielded extruded dielectric (XLPE or EPR) fixed power cable terminations. They are available as three each single core kits per box for XLPE and EPR insulated cables.

CT 50N3 series

- 3/C, 5 - 8 kV non-shielded extruded dielectric (XLPE or EPR) fixed power cable terminations. They are available in one, three core kit per box. As an option, the 1/C, CT 50N series kits can be converted to 3/C kits by purchasing a CT3M0DA or CT3M0DB conversion kit. The following is the selection criteria for the 3/C conversion kits:

STANDARD 3 - 1/C KIT		3/C CONVERSION KIT		1 - 3/C KIT
CT 51N	+	CT3M0DA	=	CT 51N3
CT 52N	+	CT3M0DA	=	CT52N3
CT 53N	+	CT3M0DB	=	CT 53N3

DIMENSIONS

INDOOR/OUTDOOR KIT ORDER NUMBER	CONDUCTOR SIZE RANGE	INSULATION DIAMETER (MIN)		JACKET DIAMETER (MAX)		STANDARD PACKAGE
		IN	MM	IN	MM	
1/C CABLE, 5 - 8 kV						
CT 51N	#4 - 2/0 AWG	0.40	10	0.94	24	3 - 1/C
CT 52N	3/0 - 500 kcmil	0.70	18	1.30	33	3 - 1/C
CT 53N	750 - 1500 kcmil	1.10	28	2.15	55	3 - 1/C
3/C AND 3/C ARMORED CABLE, 5 - 8 kV						
CT 51N3	#4 - 2/0 AWG	0.40	10	3.00	76	1 - 3/C
CT 52N3	3/0 - 500 kcmil	0.70	18	3.31	84	1 - 3/C
CT 53N3	750 - 1500 kcmil	1.10	28	5.00	127	1 - 3/C

ORDERING

- Select the termination kit size for the non-shielded cable to be terminated.
- Confirm that the minimum and maximum cable dimensions are not exceeded. When at the high end of the conductor range it may be necessary to select the next larger kit size. Size range dimensions are based on the cable dimensions in the ICEA cable standards.
- To include a cable preparation kit with the termination kit, add the suffix "P" to the end of the order number. FOR EXAMPLE: a 5 kV termination for 2/0 cable with a cable preparation kit would be CT 51NP.

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CT UD SERIES

INSULATE
SEAL
PROTECT

HEAT SHRINK MEDIUM VOLTAGE CABLE TERMINATIONS

Heat shrink cable terminations for single core, 15 kV to 35 kV, bare and jacketed concentric neutral underground distribution cable for the electrical utility market

FEATURES AND BENEFITS

- Fast, consistent installation means lower installed costs
- Heat activated seals ensure maximum protection against moisture ingress
- Installation environment: use of torch adds flexibility to cable preparation in any climate
- Lightweight construction requires no additional support
- UV resistant, non-tracking outer tube for long life, even under adverse conditions
- Slim profile allows installation in confined switch gear cubicles

STANDARDS

- IEEE 48-1996, Class 1

TEST REPORTS

The CT 150 series through CT 350 series terminations were tested to the requirements of IEEE 48-1996 Class 1 at an independent laboratory.

Test reports are available as follows:

- CT 150 series: HVS 020076
- CT 250 series: HVS020077 and HVS020083
- CT 350 series: HVS020078



HEAT SHRINK MEDIUM VOLTAGE CABLE TERMINATIONS

CT UD SERIES

DIMENSIONS

INDOOR KIT ORDER NUMBER	OUTDOOR KIT ORDER NUMBER	CONDUCTOR SIZE RANGE	INSULATION DIAMETER MIN - MAX		JACKET DIAMETER MAX		STANDARD PACKAGE
			IN	MM	IN	MM	KITS/Box
15 kV							
CT 151UD	CT 151UDE	#4 - 3/0 AWG	0.60 - 1.00	16 - 25	1.30	33	1
CT 152UD	CT 152UDE	3/0 - 350 kcmil	0.80 - 1.25	21 - 35	1.75	45	1
CT 153UD	CT 153UDE	400 - 1000 kcmil	1.10 - 1.65	28 - 42	2.10	55	1
CT 154UD	CT 154UDE	1250 - 2500 kcmil	1.60 - 2.45	41 - 63	2.75	70	1
25 - 28 kV							
CT 251UD	CT 251UDE	#2 - 350 kcmil	0.80 - 1.40	21 - 35	1.80	46	1
CT 252UD	CT 252UDE	350 - 1000 kcmil	1.10 - 1.80	28 - 46	2.50	64	1
CT 253UD	CT 253UDE	1000 - 1750 kcmil	1.60 - 2.45	41 - 63	2.75	70	1
35 kV							
CT 351UD	CT 351UDE	#1 - 250 kcmil	0.95 - 1.40	24 - 35	1.90	48	1
CT 352UD	CT 352UDE	250 - 1000 kcmil	1.25 - 2.10	32 - 53	2.60	66	1

ORDERING

- Select the termination kit size for the bare or jacket concentric neutral cable to be terminated.
- Confirm that the minimum and maximum cable dimensions are not exceeded. When at the high end of the conductor range it may be necessary to select the next larger kit size. Size range dimensions are based on the cable dimensions in the AEIC CS5 and AEIC CS6 cable standards.
- For terminations that will be exposed to direct precipitation, select the outdoor termination by adding the suffix "E" to the part number.
- To include a cable preparation kit with the termination add the suffix "P" to the end of the order number.
FOR EXAMPLE: a 15 kV outdoor termination for a 2/0 cable with a cable preparation kit would be CT 151UDEP.

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CT G SERIES

INSULATE
SEAL
PROTECT

HEAT SHRINK MEDIUM VOLTAGE CABLE TERMINATIONS

Heat shrink cable terminations for single core, 5 kV to 35 kV, copper tape, drain wire, UniShield® or lead sheathed XLPE and EPR power cables for the electrical construction market

FEATURES AND BENEFITS

- Fast, consistent installation means lower installed costs
- Heat activated seals ensure maximum protection against moisture ingress
- Installation environment: use of torch adds flexibility to cable preparation in any climate
- Light weight construction requires no additional support
- UV resistant, non-tracking outer tube for long life, even under adverse conditions
- Slim profile allows installation in confined switch gear cubicles

STANDARDS

- Rated to IEEE 48-1996, Class 1

TEST REPORTS

The CT 080 series through CT 350 series terminations were tested to the requirements of IEEE 48-1996 Class 1 at an independent laboratory.

Test reports are available as follows:

- CT 080 series: HVS020075
- CT 150 series: HVS 020076
- CT 250 series: HVS020077 and HVS020083
- CT 350 series: HVS020078



HEAT SHRINK MEDIUM VOLTAGE CABLE TERMINATIONS

CT G SERIES

DIMENSIONS

INDOOR KIT ORDER NUMBER	OUTDOOR KIT ORDER NUMBER	CONDUCTOR SIZE RANGE	INSULATION DIAMETER MIN - MAX		JACKET DIAMETER MAX	
			IN	MM	IN	MM
5 kV						
CT 081(G)	CT 081E(G)	#4 - #1 AWG	0.40 - 0.60	11 - 16	0.95	24
CT 082 (G)	CT 082E(G)	1/0 - 250 kcmil	0.60 - 0.95	16 - 24	1.20	30
CT 083(G)	CT 083E(G)	300 - 500 kcmil	0.80 - 1.25	21 - 35	1.50	38
CT 084(G)	CT 084E(G)	600 - 1750 kcmil	1.10 - 1.75	28 - 45	2.10	55
CT 085(G)	CT 085E(G)	1500 - 2500 kcmil	1.60 - 2.45	41 - 62	2.75	70
8 kV						
CT 081(G)	CT 081E(G)	#6 - #2 AWG	0.40 - 0.60	11 - 16	0.95	24
CT 082(G)	CT 082E(G)	#1 - 4/0 AWG	0.60 - 0.95	16 - 24	1.20	30
CT 083(G)	CT 083E(G)	250 - 500 kcmil	0.80 - 1.25	21 - 35	1.50	38
CT 084(G)	CT 084E(G)	600 - 1750 kcmil	1.10 - 1.75	28 - 45	2.10	55
CT 085(G)	CT 085E(G)	1500 - 2500 kcmil	1.60 - 2.45	41 - 62	2.75	70
15 kV						
CT 151(G)	CT 151E(G)	#4 - 4/0 AWG	0.60 - 1.05	16 - 27	1.45	37
CT 152(G)	CT 152E(G)	3/0 - 350 kcmil	0.80 - 1.25	21 - 35	1.75	45
CT 153(G)	CT 153E(G)	400 - 1000 kcmil	1.10 - 1.65	28 - 42	2.10	55
CT 154(G)	CT 154E(G)	1250 - 2500 kcmil	1.60 - 2.45	41 - 63	2.75	70
25 - 28 kV						
CT 251(G)	CT 251E(G)	#2 - 350 kcmil	0.80 - 1.40	21 - 35	1.80	46
CT 252(G)	CT 252E(G)	350 - 1000 kcmil	1.10 - 1.80	28 - 46	2.50	64
CT 253(G)	CT 253E(G)	1000 - 1750 kcmil	1.60 - 2.45	41 - 63	2.75	70
35 kV						
CT 351(G)	CT 351E(G)	#1 - 250 kcmil	0.95 - 1.40	24 - 35	1.90	48
CT 352(G)	CT 352E(G)	250 - 1000 kcmil	1.25 - 2.10	32 - 53	2.60	66

ORDERING

- Select the termination kit size for the copper tape, drain wire, lead sheathed or UniShield® shielded power cable to be terminated.
- Confirm the cable dimensions. At the high end of the conductor range it may be necessary to select the next larger size kit. Dimensions are based on cable information from AEIC CS5 and CS6 cable standards.
- For terminations that will be exposed to direct precipitation select the outdoor termination by adding the suffix "E" to the order number. To add an external grounding kit for tape shielded cables add "G" to the order number. To include a cable preparation kit add the suffix "P" to the end of the order number. FOR EXAMPLE: a 15 kV outdoor termination for 2/0 cable with an external ground kit and cable preparation kit would be CT 151EGP.

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CT 3G SERIES

INSULATE
SEAL
PROTECT

HEAT SHRINK MEDIUM VOLTAGE CABLE TERMINATIONS

Heat shrink cable terminations for three core armored and unarmored 5 kV to 35 kV, copper tape, drain wire and UniShield® XLPE and EPR power cables for the electrical construction market

FEATURES AND BENEFITS

- Fast, consistent installation means lower installed costs
- Heat activated seals ensure maximum protection against moisture ingress
- Installation environment: use of torch adds flexibility to cable preparation in any climate
- Light weight construction requires no additional support
- UV resistant, non-tracking outer tube for long life, even under adverse conditions
- Slim profile allows installation in confined switch gear cubicles

STANDARDS

- IEEE 48-1996, Class 1

TEST REPORTS

The CT 3G series terminations were tested to the requirements of IEEE 48-1996 Class 1 at an independent laboratory.

Test reports are available as follows:

- CT 080 series: HVS020075
- CT 150 series: HVS 020076
- CT 250 series: HVS020077 and HVS020083
- CT 350 series: HVS020078



HEAT SHRINK MEDIUM VOLTAGE CABLE TERMINATIONS

CT 3G SERIES

DIMENSIONS

INDOOR KIT ORDER NUMBER	OUTDOOR KIT ORDER NUMBER	CONDUCTOR SIZE RANGE	INSULATION DIAMETER MIN - MAX		JACKET DIAMETER MAX	
NO BOOT	BOOT		IN	MM	IN	MM
5 kV						
CT 3X081	CT 3B081	#4 - #1 AWG	0.40 - 0.60	11 - 16	3.00	76
CT 3X082	CT 3B082	1/0 - 250 kcmil	0.60 - 0.95	16 - 24	3.00	76
CT 3X083	CT 3B083	300 - 500 kcmil	0.80 - 1.25	21 - 35	3.00	76
CT 3X084	CT 3B084	600 - 1750 kcmil	1.10 - 1.75	28 - 45	5.00	127
8 kV						
CT 3X081	CT 3B081	#6 - #2 AWG	0.40 - 0.60	11 - 16	3.00	76
CT 3X082	CT 3B082	#1 - 4/0 AWG	0.60 - 0.95	16 - 24	3.00	76
CT 3X083	CT 3B083	250 - 500 kcmil	0.80 - 1.25	21 - 35	3.00	76
CT 3X084	CT 3B084	600 - 1750 kcmil	1.10 - 1.75	28 - 45	5.00	127
15 kV						
CT 3X151	CT 3B151	#4 - 4/0 AWG	0.60 - 1.05	16 - 27	3.00	76
CT 3X152	CT 3B152	3/0 - 350 kcmil	0.80 - 1.25	21 - 35	3.00	76
CT 3X153	CT 3B153	400 - 1000 kcmil	1.10 - 1.65	28 - 42	5.00	127
25 - 28 kV						
CT 3X251	CT 3B251	#2 - 350 kcmil	0.80 - 1.40	21 - 35	3.00	76
CT 3X252	CT 3B252	350 - 1000 kcmil	1.10 - 1.80	28 - 46	5.00	127
35 kV						
CT 3X351	CT 3B351	#1 - 250 kcmil	0.95 - 1.40	24 - 35	5.00	127
CT 3X352	CT 3B352	250 - 1000 kcmil	1.25 - 2.10	32 - 53	5.00	127

ORDERING

- Select the 3/C termination kit size for the 3/C copper tape, drain wire or UniShield® shielded power cable to be terminated. The CT 3X kits are for use with armour terminators or whenever a complete seal to the cable jacket is not required. The CT 3B series kits include a breakout boot and sealant to seal the termination to the 3/C cable jacket.
- Confirm the cable dimensions. At the high end of the conductor range it may be necessary to select the next larger size kit. Dimensions are based on cable information from AIEC CS5 and CS6 cable standards.
- For terminations that will be exposed to direct precipitation select the outdoor termination and add the suffix "E" to the order number. To add an external grounding kit for tape shielded cables add "G" to the end of the order number. To include a cable preparation kit add the suffix "P" to the end of the order number. FOR EXAMPLE: a 3/C, 15 kV outdoor termination with a boot for 350 kcmil cable with an external ground kit and cable preparation kit would be CT 3B152EGP. The same cable terminated indoors with a boot and cable preparation kit would be CT 3B152GP.

CT LC SERIES

INSULATE
SEAL
PROTECT

HEAT SHRINK MEDIUM VOLTAGE CABLE TERMINATIONS

Heat shrink cable terminations for single core, 15 kV to 35 kV, longitudinally corrugated shielded cable for the electrical utility market

FEATURES

- Fast, consistent installation means lower installed costs
- Heat activated seals ensure maximum protection against moisture ingress
- Installation environment: use of torch adds flexibility to cable preparation in any climate
- Lightweight construction requires no additional support
- UV resistant, non-tracking outer tube for long life, even under adverse conditions
- Slim profile allows installation in confined switch gear cubicles

STANDARDS

- Rated to IEEE 48-1996 Class 1

TEST REPORTS

The CT 150 series through CT 350 series terminations were tested to the requirements of IEEE 48-1996 at an independent laboratory.

Test reports are available as follows:

- CT 150 series: HVS 020076
- CT 250 series: HVS020077 and HVS020083
- CT 350 series: HVS020078



HEAT SHRINK MEDIUM VOLTAGE CABLE TERMINATIONS

CT LC SERIES

DIMENSIONS

INDOOR KIT ORDER NUMBER	OUTDOOR KIT ORDER NUMBER	CONDUCTOR SIZE RANGE	INSULATION DIAMETER MIN - MAX		JACKET DIAMETER MAX		STANDARD PACKAGE
			IN	MM	IN	MM	KITS/Box
15 kV							
CT 151LC	CT 151LCE	#4 - 3/0 AWG	0.60 - 1.00	16 - 25	1.30	33	1
CT 152LC	CT 152LCE	3/0 - 350 kcmil	0.80 - 1.25	21 - 35	1.75	45	1
CT 153LC	CT 153LCE	400 - 1000 kcmil	1.10 - 1.65	28 - 42	2.10	55	1
CT 154LC	CT 154LCE	1250 - 2500 kcmil	1.60 - 2.45	41 - 63	2.75	70	1
25 - 28 kV							
CT 251LC	CT 251LCE	#2 - 350 kcmil	0.80 - 1.40	21 - 35	1.80	46	1
CT 252LC	CT 252LCE	350 - 1000 kcmil	1.10 - 1.80	28 - 46	2.50	64	1
CT 253LC	CT 253LCE	1000 - 1750 kcmil	1.60 - 2.45	41 - 63	2.75	70	1
35 kV							
CT 351LC	CT 351LCE	#1 - 250 kcmil	0.95 - 1.40	24 - 35	1.90	48	1
CT 352LC	CT 352LCE	250 - 1000 kcmil	1.25 - 2.10	32 - 53	2.60	66	1

ORDERING

- Select the termination kit size for the type LC, longitudinally corrugated shielded cable to be terminated.
- Confirm that the minimum and maximum cable dimensions are not exceeded. When at the high end of the conductor range it may be necessary to select the next larger kit size. Size range dimensions are based on the cable dimensions in the AEIC CS5 and CS6 cable standards.
- To include a cable preparation kit with the termination add the suffix "P" to the end of the order number. For example, a 15 kV outdoor termination for 2/0 cable with a cable preparation kit would be CT 151LCEP.

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TITAN G SERIES

INSULATE
SEAL
PROTECT

COLD SHRINK MEDIUM VOLTAGE CABLE TERMINATIONS

Cold Shrink cable terminations for single core, 5kV to 35 kV XLPE and EPR copper tape, drain wire, UniShield® or lead sheathed power cables for the electrical construction market.

FEATURES AND BENEFITS

- One piece terminators designed for quick, easy and cost effective installation.
- Compact design covers full range from #4AWG to 1500kcmil.
- Non-tracking silicone insulating tube offers superior weathering and track resistance.
- Geometric stress cone & stress control sealant design provides exceptional performance & secondary seal.
- Spiral rip cord housing unwinds easily to facilitate quick removal of the hold-out core
- Anti-tracking thixotropic sealant ensures maximum protection against moisture ingress.

STANDARDS

- Rated to IEEE-48-1996, Class 1

TEST REPORTS

The TITAN 150 Series terminations were tested to the requirements of IEEE 48-1996, Class 1 at an independent laboratory.

Test report available:

- TITAN 150 Series: HVS CST 181207
- TITAN 350 Series: HVS CST 111209



COLD SHRINK MEDIUM VOLTAGE CABLE TERMINATIONS

TITAN G SERIES

DIMENSIONS

INDOOR KIT ORDER NUMBER	OUTDOOR KIT ORDER NUMBER	CONDUCTOR SIZE RANGE	INSULATION DIAMETER (MIN –MAX)		JACKET DIAMETER (MAX)		CONDUCTOR SIZE RANGE	INSULATION DIAMETER (MIN –MAX)		JACKET DIAMETER (MAX)		STANDARD PACKAGE
			IN	MM	IN	MM		IN	MM	IN	MM	KITS/BOX
5kV		5kV, 100 %					5kV, 133 %					
TITAN 050S	TITAN 050SE	#2-#3/0 AWG	0.51-0.71	13-18	0.91	23	#4-#2/0 AWG	0.51-0.71	13-18	0.91	23	3
TITAN 051S	TITAN 051SE	#3/0 AWG-250 KCMIL	0.64-0.79	16.2-20.2	1.10	28	#2/0-#4/0 AWG	0.64-0.79	16.2-20.2	1.10	28	3
TITAN 052S	TITAN 052SE	250 KCMIL - 500 KCMIL	0.79-1.04	20-26.4	1.42	36	#4/0 AWG-500KCMIL	0.79-1.04	20-26.4	1.42	36	3
TITAN 053S	TITAN 053SE	500 - 1000 KCMIL	1.02-1.45	26-36.8	1.73	44	500-1000KCMIL	1.02-1.45	26-36.8	1.73	44	3
8kV		8kV, 100 %					8kV, 133 %					
TITAN 080S	TITAN 080SE	#4 AWG - #2/0 AWG	0.51-0.71	13-18	0.91	23	#4 AWG - 2/0 AWG	0.51-0.71	13-18	0.91	23	3
TITAN 081S	TITAN 081SE	#2/0 - #4/0 AWG	0.64-0.79	16.2-20.2	1.10	28	#1 - #3/0 AWG	0.64-0.79	16.2-20.2	1.10	28	3
TITAN 082S	TITAN 082SE	#4/0 AWG - 500KCMIL	0.79-1.04	20-26.4	1.42	36	#3/0 AWG - 500KCMIL	0.79-1.04	20-26.4	1.42	36	3
TITAN 083S	TITAN 083SE	500-1000KCMIL	1.02-1.45	26-36.8	1.73	44	500 - 1000 KCMIL	1.02-1.45	26-36.8	1.73	44	3
15kV		15kV, 100 %					15kV, 133 %					
TITAN 150S	TITAN 150SE	#2	0.51-0.71	13-18	0.91	23	-	-	-	-	-	
TITAN 151S	TITAN 151SE	#1 - #2/0	0.64-0.79	16.2-20.2	1.10	28	#2 - #1	0.64-0.79	16.2-20.2	1.10	28	3
TITAN 152S	TITAN 152SE	#2/0 - 350 KCMIL	0.79-1.04	20-26.4	1.42	36	#1/0 - #4/0	0.79-1.04	20-26.4	1.42	36	3
TITAN 153S	TITAN 153SE	350 - 750 KCMIL	1.02-1.45	26-36.8	1.73	44	250 - 750 KCMIL	1.02-1.45	26-36.8	1.73	44	3
TITAN 154S	TITAN 154SE	1000 KCMIL	1.45-1.77	36.8-45	2.28	58	750 - 1000 KCMIL	1.45-1.77	36.8-45	2.28	58	3
25-28kV		25-28kV, 100 %					25-28kV, 133 %					
TITAN 251S	TITAN 251SE	#1-350 KCMIL	0.85-1.23	22-31	1.50	38	#1-4/0 AWG	0.99-1.25	25-32	1.52	39	3
TITAN 252S	TITAN 252SE	500-750 KCMIL	1.23-1.52	31-39	1.84	47	250-500 KCMIL	1.22-1.52	31-39	1.79	45	3
TITAN 253S	TITAN 253SE	750-1000 KCMIL	1.42-1.68	36-43	2.05	52	500-750 KCMIL	1.42-1.70	36-43	2.05	52	3
TITAN 254S	TITAN 254SE	1000-1500 KCMIL	1.63-2.20	41-56	2.67	68	750-1500 KCMIL	1.63-2.20	41-56	2.67	68	3
35kV		35kV, 100 %					35kV, 133 %					
TITAN 351S	TITAN 351SE	1/0-4/0 AWG	1.04-1.29	26-33	1.54	39	1/0 AWG ONLY	1.04-1.29	26-33	1.54	39	3
TITAN 352S	TITAN 352SE	250-350 KCMIL	1.23-1.42	31-36	1.75	44	2/0-250 KCMIL	1.23-1.44	31-36	1.75	44	3
TITAN 353S	TITAN 353SE	500-750 KCMIL	1.42-1.66	36-42	2.05	52	350-500 KCMIL	1.42-1.70	36-43	2.05	52	3
TITAN 354S	TITAN 354SE	1000-1500 KCMIL	1.70-2.20	43-56	2.67	68	750-1500 KCMIL	1.70-2.20	43-56	2.67	68	3

ORDERING

- Select the termination kit for the size of copper tape, drain wire, lead sheathed or UniShield® shielded power cable to be terminated.
- Confirm the minimum & maximum cable dimensions are not exceeded. When at the high end of the conductor range it might be necessary to select the next larger kit size. Size range dimensions are based on the cable dimension in the AEIC CS8-07 (3rd Edition) standards.
- All kits are supplied with external grounding kits. For terminations that will be exposed to direct precipitation, select the outdoor termination by adding the suffix "E" to the part number. eg TITAN 154SE. To include a cable prep kit, add the suffix "P" to the end of the order number.

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TITAN UD SERIES

INSULATE
SEAL
PROTECT

COLD SHRINK MEDIUM VOLTAGE CABLE TERMINATIONS

Cold Shrink cable terminations for single core, 15 kV to 35 kV XLPE and EPR bare and jacketed concentric neutral underground distribution cables for the electrical utility market.

FEATURES AND BENEFITS

- One piece terminators designed for quick, easy and cost effective installation
- Compact design covers full range from #2AWG to 1500kcmil
- Non-tracking silicone insulating tube offers superior weathering and track resistance
- Geometric stress cone and stress control sealant design provides exceptional performance and secondary seal.
- Spiral rip cord housing unwinds easily to facilitate quick removal of the hold-out core.
- Anti-tracking thixotropic sealant ensures maximum protection against moisture ingress

STANDARDS

- Rated to IEEE-48-1996, Class 1

TEST REPORTS

The TITAN 150 Series terminations were tested to the requirements of IEEE 48-1996, Class 1 at an independent laboratory.

Test report available:

- TITAN 150 Series: HVS CST 181207
- TITAN 350 Series: HVS CST 111209



COLD SHRINK MEDIUM VOLTAGE CABLE TERMINATIONS

TITAN UD SERIES

DIMENSIONS

INDOOR KIT ORDER NUMBER	OUTDOOR KIT ORDER NUMBER	CONDUCTOR SIZE RANGE	INSULATION DIAMETER (MIN –MAX)	JACKET/ SEMICON DIAMETER (MAX)	CONDUCTOR SIZE RANGE	INSULATION DIAMETER (MIN –MAX)	JACKET/ SEMICON DIAMETER (MAX)	STANDARD PACKAGE
			IN MM	IN MM		IN MM	IN MM	KITS/BOX
BARE CONCENTRIC NEUTRAL CABLE								
15kV		15kV, 100 %			15kV, 133 %			
TITAN 150B	TITAN 150BE	#2 AWG	0.51-0.71	13-18	0.91	23	-	1
TITAN 151B	TITAN 151BE	#2 AWG - #2/0	0.64-0.79	16.2-20.2	1.10	28	#2 AWG - #1/0	1
TITAN 152B	TITAN 152BE	#3/0 AWG - 350 KCMIL	0.79-1.04	20-26.4	1.42	36	#1/0 AWG - 250 KCMIL	1
TITAN 153B	TITAN 153BE	350-750 KCMIL	1.02-1.45	26-36.8	1.73	44	250-750 KCMIL	1
TITAN 154B	TITAN 154BE	750-1000 KCMIL	1.34-1.77	34-45	2.28	58	750-1000 KCMIL	1
25-28kV		25-28kV, 100 %			25-28kV, 133 %			
TITAN 251B	TITAN 251BE	#1-500 KCMIL	0.87-1.53	22-39	1.63	41	#1-500 KCMIL	1
TITAN 252B	TITAN 252BE	350-750 KCMIL	1.23-1.75	31-44	1.89	48	350-750 KCMIL	1
TITAN 253B	TITAN 253BE	750-1000 KCMIL	1.42-1.90	36-48	2.20	56	750-1000 KCMIL	1
TITAN 254B	TITAN 254BE	1000-1500 KCMIL	1.63-2.20	41-56	2.67	68	1000-1500 KCMIL	1
35kV		35kV, 100 %			35kV, 133 %			
TITAN 351B	TITAN 351BE	1/0-250 AWG	1.04-1.49	26-38	1.59	40	1/0-250 AWG	1
TITAN 352B	TITAN 352BE	350-500 KCMIL	1.23-1.75	31-44	1.89	48	350-500 KCMIL	1
TITAN 353B	TITAN 353BE	500-1000 KCMIL	1.42-2.09	36-53	2.20	56	500-1000 KCMIL	1
TITAN 354B	TITAN 354BE	1000-1500 KCMIL	1.70-2.20	43-56	2.67	68	1000-1500 KCMIL	1
JACKETED CONCENTRIC NEUTRAL CABLE								
15kV		15kV, 100 %			15kV, 133 %			
TITAN 150J	TITAN 150JE	#2 AWG	0.51-0.71	13-18	0.91	23	-	1
TITAN 151J	TITAN 151JE	#1 AWG - #2/0	0.64-0.79	16.2-20.2	1.10	28	#2 AWG - #1/0	1
TITAN 152J	TITAN 152JE	#3/0 AWG - 350 KCMIL	0.79-1.04	20-26.4	1.42	36	#1/0 AWG - 250KCMIL	1
TITAN 153J	TITAN 153JE	350-750 KCMIL	1.02-1.45	26-36.8	1.73	44	250-750 KCMIL	1
TITAN 154J	TITAN 154JE	750-1000 KCMIL	1.34-1.77	34-45	2.28	58	750-1000 KCMIL	1
25-28kV		25-28kV, 100 %			25-28kV, 133 %			
TITAN 251J	TITAN 251JE	#1-250 KCMIL	0.87-1.22	22-31	1.59	40	#1-3/0 AWG	1
TITAN 252J	TITAN 252JE	350-500 KCMIL	1.23-1.42	31-36	1.89	48	4/0-350 KCMIL	1
TITAN 253J	TITAN 253JE	750-1000 KCMIL	1.42-1.74	36-44	2.27	58	500-750 KCMIL	1
TITAN 254J	TITAN 254JE	1000-1500 KCMIL	1.63-2.20	41-56	2.67	68	750-1500 KCMIL	1
35kV		35kV, 100 %			35kV, 133 %			
TITAN 351J	TITAN 351JE	1/0-3/0 AWG	1.04-1.22	26-31	1.59	40	-	1
TITAN 352J	TITAN 352JE	4/0-350KCMIL	1.20-1.42	31-36	1.78	45	1/0-4/0 AWG	1
TITAN 353J	TITAN 353JE	500-750 KCMIL	1.42-1.70	36-43	2.20	56	250-500 KCMIL	1
TITAN 354J	TITAN 354JE	750-1500 KCMIL	1.63-2.20	41-56	2.67	68	750-1500 KCMIL	1

ORDERING

- Select the termination kit for the size of bare or jacket concentric neutral cable to be terminated.
- Confirm the minimum & maximum cable dimensions are not exceeded. When at the high end of the conductor range it might be necessary to select the next larger kit size. Size range dimensions are based on the cable dimension in the AEIC CS8-07 (3rd Edition) standards.
- For terminations that will be exposed to direct precipitation, select outdoor termination by adding the suffix “E” to the part number. eg TITAN 154JE. To include a cable prep kit, add the suffix “P” to the end of the order number.

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TITAN NS SERIES

INSULATE
SEAL
PROTECT

COLD SHRINK MEDIUM VOLTAGE CABLE TERMINATIONS

Cold Shrink cable terminations for single core, 5kV to 8kV XLPE and EPR non-shielded cables for the electrical utility and construction markets.

FEATURES AND BENEFITS

- One piece terminators designed for quick, easy and cost effective installation.
- Compact design covers full range from #4AWG to 1000kcmil.
- Non-tracking silicone insulating tube offers superior weathering and track resistance.
- Spiral rip cord housing unwinds easily to facilitate quick removal of the hold-out core
- Anti-tracking thixotropic sealant ensures maximum protection against moisture ingress.

STANDARDS

- Rated to IEEE-48-1996, Class 1

TEST REPORTS

The TITAN 150 Series terminations were tested to the requirements of IEEE 48-1996, Class 1 at an independent laboratory.

Test report available:

- TITAN 150 Series: HVS CST 181207



DIMENSIONS

INDOOR/OUTDOOR KIT ORDER NUMBER	CONDUCTOR SIZE RANGE	INSULATION DIAMETER (MIN –MAX)		JACKET DIAMETER (MAX)		STANDARD PACKAGE
		IN	MM	IN	MM	KITS/BOX

NON-SHIELDED CABLE, 5kV 100%

TITAN 050NS	#2-#3/0 AWG	0.51-0.71	13-18	0.91	23	3
TITAN 051NS	#3/0 AWG-250 KCMIL	0.64-0.79	16.2-20.2	1.10	28	3
TITAN 052NS	250 KCMIL - 500 KCMIL	0.79-1.04	20-26.4	1.42	36	3
TITAN 053NS	500 - 1000 KCMIL	1.02-1.45	26-36.8	1.73	44	3

NON-SHIELDED CABLE, 5kV 133%

TITAN 050NS	#4-#2/0 AWG	0.51-0.71	13-18	0.91	23	3
TITAN 051NS	#2/0-#4/0 AWG	0.64-0.79	16.2-20.2	1.10	28	3
TITAN 052NS	#4/0 AWG-500KCMIL	0.79-1.04	20-26.4	1.42	36	3
TITAN 053NS	500-1000KCMIL	1.02-1.45	26-36.8	1.73	44	3

NON-SHIELDED CABLE, 8kV 100%

TITAN 050NS	#4 AWG - #2/0 AWG	0.51-0.71	13-18	0.91	23	3
TITAN 081NS	#2/0 - #4/0 AWG	0.64-0.79	16.2-20.2	1.10	28	3
TITAN 082NS	#4/0 AWG - 500KCMIL	0.79-1.04	20-26.4	1.42	36	3
TITAN 083NS	500-1000KCMIL	1.02-1.45	26-36.8	1.73	44	3

NON-SHIELDED CABLE, 8kV 133%

TITAN 050NS	#4 AWG - 2/0 AWG	0.51-0.71	13-18	0.91	23	3
TITAN 081NS	#1 - #3/0 AWG	0.64-0.79	16.2-20.2	1.10	28	3
TITAN 082NS	#3/0 AWG - 500KCMIL	0.79-1.04	20-26.4	1.42	36	3
TITAN 083NS	500 - 1000 KCMIL	1.02-1.45	26-36.8	1.73	44	3

ORDERING

- Select the termination kit for the size of non-shielded power cable to be terminated.
- Confirm the minimum & maximum cable dimensions are not exceeded. When at the high end of the conductor range it might be necessary to select the next larger kit size. Size range dimensions are based on the cable dimension in the AEIC CS8-07 (3rd Edition) standards.
- All kits are supplied with a silicone rubber termination, mastic sealants and instruction sheet.
- As an option, the TITAN NS Series Kits can be converted to 3/C kits by purchasing a TITAN 3MODB1, TITAN 3MODB2 or TITAN 3MODB3 conversion kit.

CJ SERIES

INSULATE
SEAL
PROTECT

HEAT SHRINK CABLE JOINTS FOR 1/C AND 3/C, 5 kV - 35 kV SHIELDED AND NON-SHIELDED POWER CABLES FOR THE ELECTRICAL UTILITY AND INDUSTRIAL MARKETS

The CJ series heat shrink cable joints rated 5 kV through 35 kV are designed for single core and three core non-shielded, metallic tape, wire shielded, concentric neutral, jacketed concentric neutral and LC type shielded cables. Individual designs cover both extruded dielectric (XLP/EPR) and laminated dielectric (PILC/VCLC) power cables. The joints use continuously extruded components for stress control, insulation and the insulation shield. This ensures “cable quality” consistency. They do not suffer from the potential “shot-to-shot” variability of molded products. The CJ series joints have redundant seals. The first seal is provided by a heavy wall tube or wraparound sleeve that encapsulates the joint and seals between the cable jackets. The secondary, or redundant seal, is provided by the heavy wall conductive tube that shields and seals the joint to the cables’ insulation shield

FEATURES AND BENEFITS

- Fast, consistent installation means lower installed costs
- Installation environment: use of torch adds flexibility to cable preparation in any climate
- Heat activated seal ensures maximum protection against moisture ingress
- Custom tailored with options to your exacting needs
- Lightweight construction requires no additional support
- Accommodates wide cable ranges for reduced inventory requirements
- Tough abrasion resistant outer covering protects against damage from improper backfill
- Slim profile allows installation in confined areas

STANDARDS

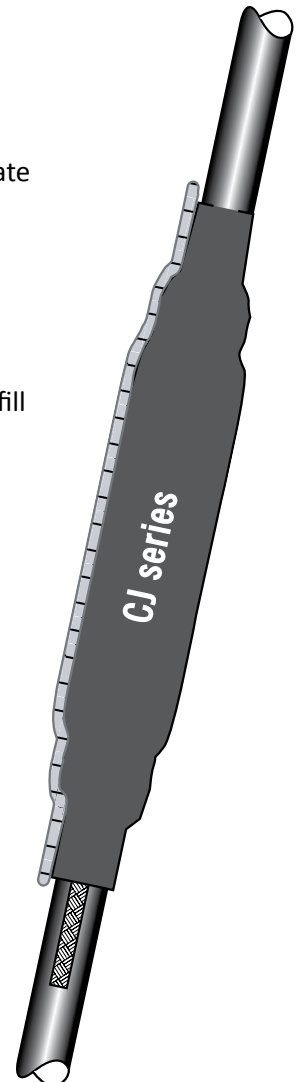
- IEEE 404-2000

TEST REPORTS

The CJ 820 series through CJ 3500 series joints were tested to the requirements of IEEE 404-2000 at an independent laboratory.

Test reports are available as follows:

- CJ 820 series: HVS020079
- CJ 1500 series: HVS020080
- CJ 2500 series: HVS020081 and HVS020083
- CJ 3500 series: HVS020082



HEAT SHRINK MEDIUM VOLTAGE JOINTS

CJ SERIES

PRODUCT LINE

- CJ N50 series: 5 to 8 kV non-shielded extruded dielectric (XLPE or EPR) fixed power cable splices. Available as follows:
 - CJ N50 - three, single core kits per box
 - CJ N350 - one, three core kit per box
 - CJ N3A50 - one, three core armored kit per box
- CJ 10 series: 1/C, 15 to 35 kV bare and jacketed concentric neutral, extruded dielectric (XLPE or EPR) fixed power cable joints. Available as single core kit, packaged with one single core kit per box. Optional cable preparation/cleaning kit can be included ("P" suffix).
- CJ 20 series: 1/C, 5 to 35 kV metal tape, drain wire, UniShield® and lead sheath shielded, extruded dielectric (XLPE or EPR) cable joints. Available as single core kits packaged one kit per box. Comes with solderless external grounding kit. Available with optional cable preparation/cleaning kit ("P" suffix).
- CJ 320 series: 3/C, 5 to 35 kV metal tape, drain wire, UniShield® and lead sheath shielded, extruded dielectric (XLPE or EPR) cable joints. Available in three core kits packaged one kit per box.
- CJ 3A20 series: 3/C armored 5 to 35 kV metal tape, drain wire, UniShield® shielded, extruded dielectric (XLPE or EPR) cable joints. Available in three core kits packaged one kit per box.
- CJ LC series: 15 to 35 kV longitudinally corrugated shield (LC), extruded dielectric (XLPE or EPR) fixed power cable joints. Available as single core kit packaged one kit per box. Comes complete with solderless external grounding kit. Available with optional cable preparation/cleaning kit ("P" suffix).

Connectors are not supplied in the kits because of the different connector types (copper or aluminum), barrel length (long or short), and kits' wide conductor size range. Ask you local DSG-Canusa stocking distributor to add connectors to your kits or consult the DSG-Canusa factory.

TEST DATA

JOINT TESTS TO IEEE 404-2000 STANDARDS FOR EXTRUDED AND LAMINATED DIELECTRIC SHIELDED CABLE JOINTS RATED 2500 V TO 500 000 V	TEST SEQUENCE NUMBER OF SAMPLES			VOLTAGE CLASS				
	3	3	3	5 - 8 kV	15 kV	25 kV	28 kV	35 kV
Partial discharge (corona) extinction voltage <3 pC	↓			7 kV	13 kV	22 kV	24.5 kV	30 kV
Power frequency voltage 1 min withstand	↓			23 kV	35 kV	52 kV	58 kV	69 kV
Direct voltage 15 min dry withstand	↓			45 kV	70 kV	100 kV	112 kV	125 kV
Impulse withstand at 25°C (1.2 x 50 µs wave)	↓			95 kV	110 kV	150 kV	168 kV	200 kV
Impulse withstand at 130°C (1.2 x 50 µs wave)	↓			95 kV	110 kV	150 kV	168 kV	200 kV
Partial discharge (corona) extinction voltage <3 pC	■	↓	↓	7 kV	13 kV	22 kV	24.5 kV	30 kV
Cyclic aging: 30 cycles, 130°C for 6 hr/d while at		↓	↓	14 kV	26 kV	44 kV	48 kV	61 kV
Partial discharge (corona) extinction voltage <3 pC		↓	↓	7 kV	13 kV	22 kV	24.5 kV	30 kV
High voltage time test:								
• 5 hr while submerged		↓	↓	16 kV	31 kV	50 kV	58 kV	71 kV
• 5 min while submerged		■	■	21 kV	39 kV	65 kV	87 kV	91 kV

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CJ N50 SERIES

INSULATE
SEAL
PROTECT

HEAT SHRINK MEDIUM VOLTAGE JOINTS

Heat shrink splices for single, three core and three core armored, 5 kV through 8 kV, XLPE and EPR non-shielded cables for the utility and construction markets

FEATURES AND BENEFITS

- Fast, consistent installation means lower installed costs
- Installation environment: use of torch adds flexibility to cable preparation in any climate
- Heat activated seal ensures maximum protection against moisture ingress
- Customer tailored with options to your exacting needs
- Lightweight construction requires no additional support
- Wide cable ranges for reduced inventory requirements
- Tough abrasion resistant outer covering protects against damage from improper backfill
- Slim profile allows installation in confined areas

STANDARDS

- IEEE 404-2000



HEAT SHRINK MEDIUM VOLTAGE JOINTS

CJ N50 SERIES

PRODUCT LINE

CJ N50 series

- 1/C, 5 - 8 kV non-shielded extruded dielectric (XLPE or EPR) fixed power cable splices. They are available as three each single core kits per box for XLPE and EPR insulated cables.

CJ N350 series

- 3/C, 5 - 8 kV non-shielded extruded dielectric (XLPE or EPR) fixed power cable splices. They are available in one, three core kit per box.

CJ N3A50 series

- 3/C armored, 5 - 8 kV non-shielded extruded dielectric (XLPE or EPR) fixed power cable splices. They are available in one, three core kit per box.

CJ N50 series single core kits can be converted to 3/C and 3/C armored kits by purchasing a CJ3MOD or CJ3AMOD conversion kit. Refer to pages 85 and 86 for details.

DIMENSIONS - FOR VOLTAGE CLASS 5 - 8 kV

ORDER NUMBER	CONDUCTOR SIZE RANGE	INSULATION O.D. RANGE		JACKET O.D. MAX		CONNECTOR DIMENSIONS				STANDARD PACKAGE
						O.D. MAX		LENGTH MAX		
		IN	MM	IN	MM	IN	MM	IN	MM	KITS/BOX
1/C CABLE										
CJ N51	#4 - 2/0 AWG	0.35 - 0.75	9 - 19	0.85	22	0.65	17	3.00	76	3 - 1/C
CJ N52	1/0 - 350 kcmil	0.55 - 1.05	14 - 27	1.20	30	1.00	26	4.00	102	3 - 1/C
CJ N53	300 - 1000 kcmil	0.95 - 1.65	24 - 47	1.85	47	1.85	47	6.00	154	3 - 1/C
3/C CABLE										
CJ N351	#4 - 2/0 AWG	0.35 - 0.75	9 - 19	0.85	22	3.00	76	3.00	76	1 - 3/C
CJ N352	1/0 - 350 kcmil	0.55 - 1.05	14 - 27	1.20	30	3.00	76	4.00	102	1 - 3/C
CJ N353	300 - 1000 kcmil	0.95 - 1.65	24 - 47	1.85	47	4.00	102	6.00	154	1 - 3/C
3/C ARMORED CABLE										
CJ N3A51	#4 - 2/0 AWG	0.35 - 0.75	9 - 19	0.85	22	3.00	76	3.00	76	1 - 3/C
CJ N3A52	1/0 - 350 kcmil	0.55 - 1.05	14 - 27	1.20	30	3.00	76	4.00	102	1 - 3/C
CJ N3A53	300 - 1000 kcmil	0.95 - 1.65	24 - 47	1.85	47	4.00	102	6.00	154	1 - 3/C

ORDERING

- Select the splice kit size for the non-shielded cable to be spliced.
- Confirm that the minimum and maximum cable dimensions are not exceeded. When at the high end of the conductor range it may be necessary to select the next larger kit size. Dimensions are based on the cable dimensions in the ICEA cable standards.
- To include a cable preparation kit with the splice kit add the suffix "P" to the end of the order number. FOR EXAMPLE: a 5 kV splice for 2/0 cable with a cable preparation kit would be CJ N51P.

CJ 10 SERIES

INSULATE
SEAL
PROTECT

HEAT SHRINK MEDIUM VOLTAGE JOINTS

CJ series joints are single core, 15 kV to 35 kV, heat shrink joints for XLPE and EPR extruded dielectric, bare and jacketed concentric neutral cables. The CJ 10J series joints use the same joint components as the CJ 10 series joints but are supplied with a wraparound jacketing sleeve to seal from cable jacket to cable jacket on jacketed concentric neutral cables

FEATURES AND BENEFITS

- Fast, consistent installation means lower installed costs
- Installation environment: use of torch adds flexibility to cable preparation in any climate
- Heat activated seal ensures maximum protection against moisture ingress
- Custom tailored with options to your exacting needs
- Lightweight construction requires no additional support
- Wide cable ranges for reduced inventory requirements
- Tough abrasion resistant outer covering protects against damage from improper backfill
- Slim profile allows installation in confined areas

STANDARDS

- IEEE 404-2000

TESTS REPORTS

The CJ 10 series joints were design tested to IEEE 404- 2000 at an independent laboratory as single core unjacketed joints. This represents the worst case condition as the joints submerged under water were not afforded the added protection of the CJ 10J series joints with jackets.

Test reports are available as follows:

- CJ 1510 series: HVS020080
- CJ 2510 series: HVS020081 and HVS020083
- CJ 3510 series: HVS020082



DIMENSIONS

ORDER NUMBER	CONDUCTOR SIZE RANGE	INSULATION O.D. RANGE		JACKET O.D. MAXIMUM		CONNECTOR DIMENSIONS				NOMINAL KIT INSTALLED LENGTH	
						MAXIMUM O.D.		MAXIMUM LENGTH			
		IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
BARE CONCENTRIC NEUTRAL											
15 kV (175 - 220 MILS)											
CJ 1511	#4 - 4/0 AWG	0.60 - 1.05	15 - 23	n/a	n/a	0.90	23	4.25	108	17.5	445
CJ 1512	3/0 - 350 kcmil	0.80 - 1.25	20 - 32	n/a	n/a	1.15	29	5.50	140	20.0	508
CJ 1513	400 - 750 kcmil	1.05 - 1.75	27 - 44	n/a	n/a	1.60	41	8.00	203	22.0	559
CJ 1514	750 - 1000 kcmil	1.30 - 1.85	33 - 47	n/a	n/a	1.85	47	8.00	203	22.0	559
25 - 28 kV (260 - 280 MILS)											
CJ 2511	#1 - 250 kcmil	0.80 - 1.20	20 - 30	n/a	n/a	1.50	38	4.00	102	20.0	508
CJ 2512	4/0 - 500 kcmil	1.05 - 1.60	27 - 41	n/a	n/a	1.95	50	6.00	152	22.0	559
CJ 2513	600 - 1000 kcmil	1.40 - 1.85	36 - 47	n/a	n/a	2.40	61	8.00	203	24.0	610
35 kV (345 MILS)											
CJ 3511	1/0 - 250 kcmil	0.95 - 1.35	24 - 34	n/a	n/a	1.00	25	5.00	127	24.0	610
CJ 3512	4/0 - 600 kcmil	1.30 - 1.75	33 - 44	n/a	n/a	1.50	38	8.00	203	30.0	762
CJ 3513	600 - 1000 kcmil	1.55 - 2.15	39 - 55	n/a	n/a	1.85	47	10.00	254	30.0	762
JACKETED CONCENTRIC NEUTRAL											
15 kV (175 - 220 MILS)											
CJ 1511J	#4 - 4/0 AWG	0.60 - 1.05	15 - 23	1.25	32	0.90	23	4.00	102	28.0	711
CJ 1512J	3/0 - 350 kcmil	0.80 - 1.25	20 - 32	1.50	38	1.15	29	5.50	140	32.0	813
CJ 1513J	400 - 750 kcmil	1.05 - 1.75	27 - 44	1.85	47	1.60	41	8.00	203	35.0	889
CJ 1514J	750 - 1000 kcmil	1.30 - 1.85	33 - 47	2.10	53	1.85	47	8.00	203	35.0	889
25 - 28 kV (260 - 280 MILS)											
CJ 2511J	#1 - 250 kcmil	0.80 - 1.20	20 - 30	1.55	39	1.50	38	4.00	102	32.0	813
CJ 2512J	4/0 - 500 kcmil	1.05 - 1.60	22 - 41	1.95	50	1.95	50	6.00	152	35.0	889
CJ 2513J	600 - 1000 kcmil	1.40 - 1.85	27 - 41	2.40	61	2.40	61	8.00	203	45.0	1143
35 kV (345 MILS)											
CJ 3511J	1/0 - 250 kcmil	0.95 - 1.35	24 - 34	1.55	39	1.00	25	5.00	127	39.0	991
CJ 3512J	4/0 - 600 kcmil	1.30 - 1.75	33 - 44	2.10	53	1.50	38	8.00	203	45.0	1143
CJ 3513J	600 - 1000 kcmil	1.55 - 2.15	39 - 55	2.80	71	1.85	47	10.0	254	48.0	1220

ORDERING

- Find the cable's voltage class and conductor size(s) to be spliced. Select the kit part number that covers the conductor size range.
- Confirm the dimensional data; particularly when the conductor size is at the extremes of the range. The CJ 1510 - CJ 3510 series joints are for BARE, non-jacketed concentric neutral cables. The CJ 1510J - CJ 3510J series joints are for JACKETED, concentric neutral cables. The overlap in size range allows for size transitions when splicing different cable sizes. The determining factors for selection are that the minimum and maximum dimensions for the primary insulation and connector dimensions are met and that the jacket diameter maximum is not exceeded.
- A cable preparation/cleaning kit can be included with the kit by adding the suffix "P" to the end of the order number.

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CJ R10 SERIES

INSULATE
SEAL
PROTECT

HEAT SHRINK MEDIUM VOLTAGE JOINTS

CJ R10 series joints are single core, 15 kV to 35 kV, heat shrink repair joints for bare and jacketed concentric neutral cable. They are designed to repair faulted cables or joints by replacing the damaged area with a longer make-up connection. The CJ 10J series joints use the same joint components as the CJ R10 joints but are supplied with a wraparound jacketing sleeve to seal from cable jacket to cable jacket on jacketed concentric neutral cables

FEATURES AND BENEFITS

- Fast, consistent installation means lower installed costs
- Installation environment: use of torch adds flexibility to cable preparation in any climate
- Heat activated seal ensures maximum protection against moisture ingress
- Custom tailored with options to your exacting needs
- Lightweight construction requires no additional support
- Wide cable ranges for reduced inventory requirements
- Tough abrasion resistant outer covering protects against damage from improper backfill
- Slim profile allows installation in confined areas

STANDARDS

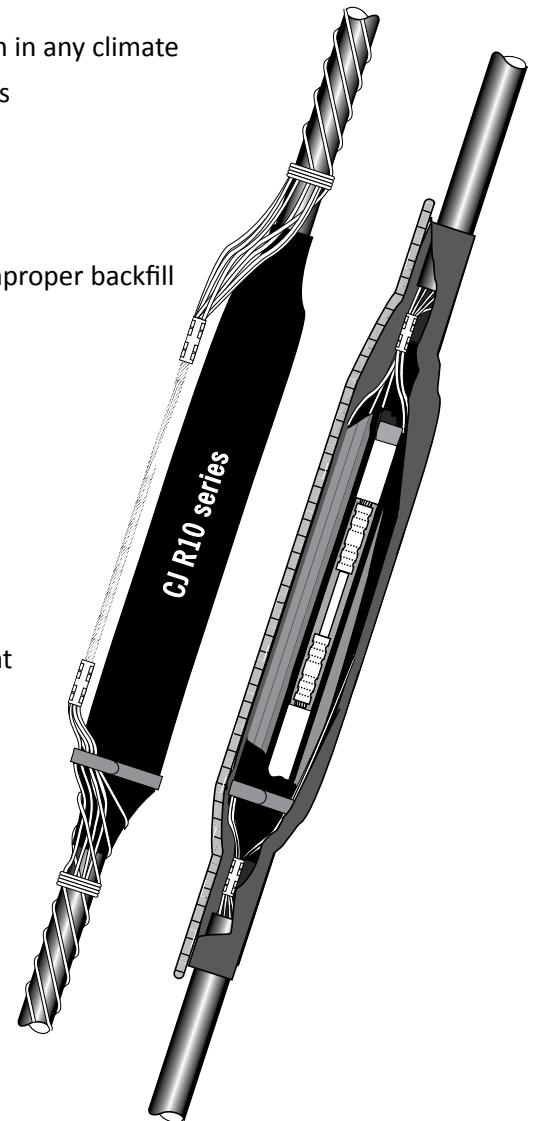
- IEEE 404-2000

TEST REPORTS

The CJ 10 series joints were design tested to IEEE 404-2000 at an independent laboratory as single core unjacketed joints. This represents the worst case condition as the joints submerged under water were not afforded the added protection of the CJ R10J series joints with jackets.

Test reports are available as follows:

- CJ 1510 series: HVSO20080
- CJ 2510 series: HVSO20081 and HVSO 20083
- CJ 3510 series: HVSO20082



HEAT SHRINK MEDIUM VOLTAGE JOINTS

CJ R10 SERIES

DIMENSIONS

ORDER NUMBER	CONDUCTOR SIZE RANGE	INSULATION O.D. RANGE		JACKET O.D. MAXIMUM		CONNECTOR DIMENSIONS				NOMINAL KIT INSTALLED LENGTH	
						MAXIMUM O.D.		MAXIMUM LENGTH			
		IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
BARE CONCENTRIC NEUTRAL											
15 KV (175 - 220 MILS)											
CJ R1511	#4 - 4/0 AWG	0.60 - 1.05	15 - 23	n/a	n/a	0.90	23	10.0	254	24.0	610
CJ R1512	3/0 - 350 kcmil	0.80 - 1.25	20 - 32	n/a	n/a	1.15	29	10.0	254	24.0	610
CJ R1513	400 - 750 kcmil	1.05 - 1.75	27 - 44	n/a	n/a	1.60	41	12.0	300	26.0	660
CJ R1514	750 - 1000 kcmil	1.30 - 1.85	33 - 47	n/a	n/a	1.85	47	12.0	300	26.0	660
25 - 28 KV (260 - 280 MILS)											
CJ R2511	#1 - 250 kcmil	0.80 - 1.20	20 - 30	n/a	n/a	1.50	38	9.0	229	28.0	711
CJ R2512	4/0 - 500 kcmil	1.05 - 1.60	27 - 41	n/a	n/a	1.95	50	11.0	279	30.0	762
CJ R2513	600 - 1000 kcmil	1.40 - 1.85	36 - 47	n/a	n/a	2.40	61	16.0	400	32.0	813
35 KV (345 MILS)											
CJ R3511	1/0 - 250 kcmil	0.95 - 1.35	24 - 34	n/a	n/a	1.00	25	10.0	254	30.0	762
CJ R3512	4/0 - 600 kcmil	1.30 - 1.75	33 - 44	n/a	n/a	1.50	38	10.0	254	30.0	762
CJ R3513	600 - 1000 kcmil	1.55 - 2.15	39 - 55	n/a	n/a	1.85	47	12.0	300	32.0	813
JACKETED CONCENTRIC NEUTRAL											
15 KV (175 - 220 MILS)											
CJ R1511J	#4 - 3/0 AWG	0.60 - 1.05	15 - 23	1.25	32	0.90	23	10.0	254	48.0	1220
CJ R1512J	3/0 - 400 kcmil	0.80 - 1.25	20 - 32	1.50	38	1.15	29	10.0	254	48.0	1220
25 - 28 KV (260 - 280 MILS)											
CJ R2511J	#1 - 250 kcmil	0.80 - 1.20	20 - 30	1.50	38	1.50	38	9.0	229	48.0	1220
CJ R2512J	4/0 - 500 kcmil	1.05 - 1.60	22 - 41	1.95	50	1.95	50	11.0	279	48.0	1220
CJ R2513J	600 - 1000 kcmil	1.40 - 1.85	36 - 47	2.40	61	2.40	61	16.0	400	52.0	1320

ORDERING

- Find the cable's voltage class and conductor size(s) to be spliced. Select the kit order number that covers the conductor size range.
- Confirm the dimensional data particularly when the conductor size is at the extremes of the range. The CJ R10 series joints are for bare concentric neutral cables. The CJ R10J series joints are for repairing jacketed concentric neutral cables. The determining factors for selection are that the minimum and maximum dimensions for the primary insulation and connector dimensions are met and that the jacket diameter maximum is not exceeded.
- A cable preparation/cleaning kit can be included with the kit by adding the suffix "P" to the end of the order number.

CJ 20 SERIES

INSULATE
SEAL
PROTECT

HEAT SHRINK MEDIUM VOLTAGE JOINTS

CJ 20 series joints are single core, 5 kV to 35 kV, heat shrink joints for XLPE and EPR extruded dielectric, metal tape, wire and lead sheath shielded power cables. The CJ 20 series joints are supplied with all of the hardware required to shield and externally ground the joint without soldering. Most of the joints can be supplied with either a tube or a wraparound sleeve for the outer jacket.

FEATURES AND BENEFITS

- Fast, consistent installation means lower installed costs
- Installation environment: use of torch adds flexibility to cable preparation in any climate
- Heat activated seal ensures maximum protection against moisture ingress
- Wraparound jacket sleeve option (W) allows for reduced installation space
- Lightweight construction requires no additional support
- Wide cable ranges for reduced inventory requirements
- Tough abrasion resistant outer covering protects against damage from improper backfill
- Slim profile allows installation in confined areas

STANDARDS

- IEEE 404-2000

TESTS REPORTS

The CJ 20 series joints were design tested to IEEE 404- 2000 at an independent laboratory as single core unjacketed joints. This represents the worst case condition as the joints submerged under water were not afforded the added protection of the CJ 20 series joints with tubular or wraparound jackets.

Test reports are available as follows:

- CJ820 series: HVS020079
- CJ1520 series: HVS020080
- CJ2520 series: HVS020081 and HVS020083
- CJ3520 series: HVS020082



HEAT SHRINK MEDIUM VOLTAGE JOINTS

CJ 20 SERIES

DIMENSIONS

ORDER NUMBER	CONDUCTOR SIZE RANGE	INSULATION O.D. RANGE		JACKET O.D. MAXIMUM		CONNECTOR DIMENSIONS				NOMINAL KIT INSTALLED LENGTH	
						MAXIMUM O.D.		MAXIMUM LENGTH			
		IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
5 KV (90 - 110 MILS)											
CJ 821(W)	#8 - 2/0 AWG	0.35 - 0.65	9 - 17	0.85	22	0.50	13	3.00	76	24.0	610
CJ 822(W)	3/0 - 300 kcmil	0.55 - 0.90	14 - 23	1.20	29	0.75	19	4.25	108	26.0	660
CJ 823(W)	350 - 750 kcmil	0.80 - 1.15	20 - 30	1.80	46	1.10	28	6.00	152	28.0	711
CJ 824(W)	1000 - 1500 kcmil	1.00 - 1.60	25 - 41	2.30	58	1.45	37	8.00	203	30.0	762
8 KV (115 MILS)											
CJ 821(W)	#6 - #2 AWG	0.35 - 0.65	9 - 17	0.85	22	0.50	13	3.00	76	24.0	610
CJ 822(W)	#1 - 4/0 kcmil	0.55 - 0.90	14 - 23	1.20	29	0.75	19	4.25	108	26.0	660
CJ 823(W)	250 - 350 kcmil	0.80 - 1.25	20 - 32	1.80	46	1.10	28	6.00	152	28.0	711
CJ 824(W)	500 - 750 kcmil	1.00 - 1.60	25 - 41	2.30	58	1.45	37	8.00	203	30.0	762
CJ 825(W)	750 - 1000 kcmil	1.30 - 2.10	33 - 53	2.50	64	1.85	47	8.00	203	30.0	762
15 KV (175 - 220 MILS)											
CJ 1521(W)	#4 - 4/0 AWG	0.60 - 1.05	15 - 27	1.25	32	1.05	26	4.25	108	28.0	711
CJ 1522(W)	4/0 - 500 kcmil	0.80 - 1.25	20 - 32	1.50	38	1.25	32	5.50	140	30.0	762
CJ 1523(W)	400 - 750 kcmil	1.05 - 1.60	27 - 41	1.85	47	1.75	44	8.00	203	32.0	813
CJ 1524(W)	750 - 1750 kcmil	1.30 - 2.15	33 - 55	2.45	62	2.15	55	8.00	203	32.0	813
25 - 28 KV (260 - 280 MILS)											
CJ 2521(W)	#1 - 250 kcmil	0.80 - 1.25	20 - 32	1.50	38	1.10	28	4.00	102	30.0	762
CJ 2522(W)	4/0 - 500 kcmil	1.05 - 1.55	27 - 39	1.95	50	1.30	33	6.00	152	34.0	864
CJ 2523 W	600 - 1000 kcmil	1.40 - 1.85	33 - 47	2.40	61	1.85	47	8.00	203	36.0	915
35 KV (345 MILS)											
CJ 3521 W	1/0 - 250 kcmil	0.95 - 1.35	24 - 34	1.55	39	1.00	25	5.00	127	39.0	991
CJ 3522 W	250 - 600 kcmil	1.30 - 1.75	33 - 44	2.10	53	1.50	38	8.00	203	42.0	1067
CJ 3523 W	600 - 1000 kcmil	1.55 - 2.15	39 - 55	2.80	71	1.85	47	10.00	254	46.0	1168

ORDERING

- Find the cable's voltage class and conductor size(s) to be spliced. Select the kit order number that covers the conductor size range.
- Confirm the dimensional data particularly when the conductor size is at the extremes of the range. The installation space required for joints with tube jackets (CJ 820, CJ 1520, etc.) is approximately two times that of the installed joint length. This installation space can be reduced to the installed length plus six inches by adding the "W" suffix to the end of the order number. FOR EXAMPLE a CJ 1523 needs approximately 64 in for installation. The CJ 1523W with wraparound jacket sleeve takes only 38 in of free space. CJ 2523W - CJ 3523W are not available with tube jackets. The overlap in size range allows for size transitions when splicing different cable sizes. The determining factors for selection are the dimension ranges for the primary insulation and connector dimensions, and the jacket diameter.
- A cable preparation/cleaning kit can be included with the kit by adding the suffix "P" to the end of the order number.

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CJ 320 SERIES

INSULATE
SEAL
PROTECT

HEAT SHRINK MEDIUM VOLTAGE JOINTS

CJ 320 series joints are three core, 5 kV to 35 kV heat shrink joints for XLPE and EPR extruded dielectric, metal tape and wire shielded power cables. The CJ 320 series joints are supplied with three single core joints plus a railed wraparound sleeve with stainless steel channels to form a tube.

FEATURES AND BENEFITS

- Fast, consistent installation means lower installed costs
- Installation environment: use of torch adds flexibility to cable preparation in any climate
- Heat activated seal ensures maximum protection against moisture ingress
- Custom tailored with options to your exacting needs
- Lightweight construction requires no additional support
- Wide cable ranges for reduced inventory requirements
- Tough abrasion resistant outer covering protects against damage from improper backfill
- Slim profile allows installation in confined areas

STANDARDS

- IEEE 404-2000

TESTS REPORTS

The CJ 320 series joints were design tested to IEEE 404-2000 at an independent laboratory as single coreunjacketed joints. This represents the worst case condition as the joints submerged under water were not afforded the added protection of the CJ 320 series joints with wraparound outer jackets.

Test reports are available as follows:

- CJ 3820 series: HVS020079
- CJ 31520 series: HVS020080
- CJ 32520 series: HVS020081 and HVS020083
- CJ 33520 series: HVS020082



HEAT SHRINK MEDIUM VOLTAGE JOINTS

CJ 320 SERIES

DIMENSIONS

ORDER NUMBER	CONDUCTOR SIZE RANGE	INSULATION O.D. RANGE		JACKET O.D. MINIMUM		CONNECTOR DIMENSIONS				NOMINAL KIT INSTALLED LENGTH	
						MAXIMUM O.D.		MAXIMUM LENGTH			
		IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
5 kV (90 - 110 MILS)											
CJ 3821	#8 - 2/0 AWG	0.35 - 0.65	9 - 17	0.90	23	0.50	13	3.00	76	40.0	1015
CJ 3822	3/0 - 300 kcmil	0.55 - 0.90	14 - 23	1.30	33	0.75	19	4.25	108	48.0	1220
CJ 3823	350 - 750 kcmil	0.80 - 1.15	20 - 30	1.57	40	1.10	28	6.00	152	48.0	1220
CJ 3824	1000 - 1500 kcmil	1.00 - 1.60	25 - 41	2.40	61	1.45	37	8.00	203	60.0	1525
8 kV (115 MILS)											
CJ 3821	#6 - #2 AWG	0.35 - 0.65	9 - 17	0.90	23	0.50	13	3.00	76	40.0	1015
CJ 3822	#1 - 4/0 AWG	0.55 - 0.90	14 - 23	1.30	33	0.75	19	4.25	108	48.0	1220
CJ 3823	250 - 350 kcmil	0.80 - 1.25	20 - 32	1.57	40	1.10	28	6.00	152	48.0	1220
CJ 3824	500 - 750 kcmil	1.00 - 1.60	25 - 41	2.40	61	1.45	37	8.00	203	60.0	1525
CJ 3825	750 - 1000 kcmil	1.30 - 2.10	33 - 53	2.40	61	1.85	47	8.00	203	60.0	1525
15 kV (175 - 220 MILS)											
CJ 31521	#4 - 4/0 AWG	0.60 - 1.05	15 - 27	1.57	40	1.05	26	4.25	108	60.0	1525
CJ 31522	4/0 - 500 kcmil	0.80 - 1.25	20 - 32	2.40	61	1.25	32	5.50	140	60.0	1525
CJ 31523	400 - 750 kcmil	1.05 - 1.60	27 - 41	2.40	61	1.75	44	8.00	203	72.0	1829
CJ 31524	750 - 1750 kcmil	1.30 - 2.15	33 - 55	2.40	61	2.15	55	8.00	203	72.0	1829
25 - 28 kV (260 - 280 MILS)											
CJ 32521	#1 - 250 kcmil	0.80 - 1.25	20 - 32	1.65	42	1.10	28	4.00	102	60.0	1525
CJ 32522	250 - 600 kcmil	1.05 - 1.55	27 - 39	2.40	61	1.30	33	6.00	152	72.0	1829
CJ 32523	600 - 1000 kcmil	1.40 - 1.85	33 - 47	2.40	61	1.85	47	8.00	203	72.0	1829
35 kV (345 MILS)											
CJ 33521	1/0 - 250 kcmil	0.95 - 1.35	24 - 34	2.40	61	1.00	25	5.00	127	72.0	1829
CJ 33522	250 - 600 kcmil	1.30 - 1.75	33 - 44	2.40	61	1.50	38	8.00	203	72.0	1829
CJ 33523	600 - 1000 kcmil	1.55 - 2.15	39 - 55	2.40	61	1.85	47	10.00	254	72.0	1829

ORDERING

- Find the cable's voltage class and conductor size(s) to be spliced. Select the kit order number that covers the conductor size range.
- Confirm the dimensional data particularly when the conductor size is at the extremes of the range. The overlap in size ranges allows for size transitions when splicing different cable sizes. The determining factors for selection are the dimension ranges for the primary insulation and connector dimensions, and the jacket diameter.
- A cable preparation/cleaning kit can be included with the kit by adding the suffix "P" to the end of the order number. FOR EXAMPLE: CJ 31522P.

All information contained in this data sheet is believed to be reliable. We advise, however, that customers should separately evaluate the suitability of our products for their particular application. DSG-Canusa and ShawCor give no guarantees in respect of the accuracy or sufficiency of the information presented and disclaim any liability regarding its use. Our responsibilities are only those listed in our Standard Terms and Conditions of Sale for these products. In no instance will we be liable for any eventual, indirect or consequential damage or damages arising from the sale, resale, transfer, use or misuse of the product.

CJ 3A20 SERIES

INSULATE
SEAL
PROTECT

HEAT SHRINK MEDIUM VOLTAGE JOINTS

CJ 3A20 series joints are three core armored, 5 kV to 35 kV heat shrink joints for XLPE and EPR extruded dielectric, metal tape and wire shielded power cables. The CJ 3A20 series joints are supplied with three single core joints, a galvanized steel wraparound armoring system and a railed wraparound sleeve with stainless steel channels to form the outer jacket.

FEATURES AND BENEFITS

- Fast, consistent installation means lower installed costs
- Installation environment: use of torch adds flexibility to cable preparation in any climate
- Heat activated seal ensures maximum protection against moisture ingress
- Custom tailored with options to your exacting needs
- Lightweight construction requires no additional support
- Wide cable ranges for reduced inventory requirements
- Tough abrasion resistant outer covering protects against damage from improper backfill
- Slim profile allows installation in confined areas

STANDARDS

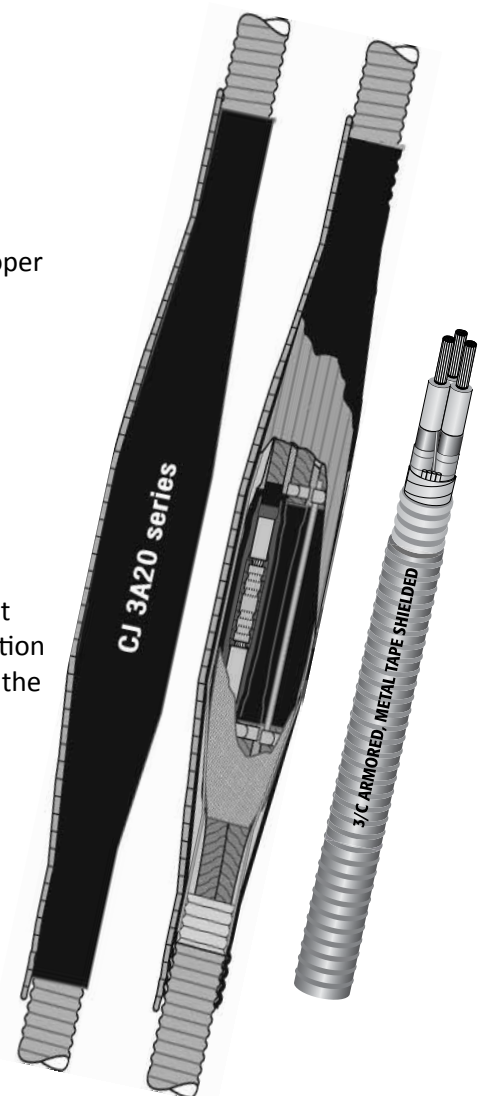
- IEEE 404-2000

TESTS REPORTS

The CJ 3A20 series joints were design tested to IEEE 404- 2000 at an independent laboratory as single coreunjacketed joints. This represents the worst case condition as the joints submerged under water were not afforded the added protection of the CJ 3A20 series joints with wraparound outer jackets.

Test reports are available as follows:

- CJ 3A820 series: HVS020079
- CJ 3A1520 series: HVS020080
- CJ 3A2520 series: HVS020081 and HVS020083
- CJ 3A3520 series: HVS020082



CJ 3A20 SERIES

HEAT SHRINK MEDIUM VOLTAGE JOINTS

DIMENSIONS

ORDER NUMBER	CONDUCTOR SIZE RANGE	INSULATION O.D. RANGE		JACKET O.D. MINIMUM		CONNECTOR DIMENSIONS				NOMINAL KIT INSTALLED LENGTH	
						MAXIMUM O.D.		MAXIMUM LENGTH			
		IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
5 kV (90 - 110 MILS)											
CJ 3A821	#8 - 2/0 AWG	0.35 - 0.65	9 - 17	0.90	23	0.50	13	3.00	76	48.0	1220
CJ 3A822	3/0 - 300 kcmil	0.55 - 0.90	14 - 23	1.30	33	0.75	19	4.25	108	55.0	1397
CJ 3A823	350 - 750 kcmil	0.80 - 1.15	20 - 30	1.57	40	1.10	28	6.00	152	55.0	1397
CJ 3A824	1000 - 1500 kcmil	1.00 - 1.60	25 - 41	2.40	61	1.45	37	8.00	203	72.0	1829
8 kV (115 MILS)											
CJ 3A821	#6 - #2 AWG	0.35 - 0.65	9 - 17	0.90	23	0.50	13	3.00	76	40.0	1015
CJ 3A822	#1 - 4/0 AWG	0.55 - 0.90	14 - 23	1.30	33	0.75	19	4.25	108	55.0	1397
CJ 3A823	250 - 350 kcmil	0.80 - 1.25	20 - 32	1.57	40	1.10	28	6.00	152	55.0	1397
CJ 3A824	500 - 750 kcmil	1.00 - 1.60	25 - 41	2.40	61	1.45	37	8.00	203	72.0	1829
CJ 3A825	750 - 1000 kcmil	1.30 - 2.10	33 - 53	2.40	61	1.85	47	8.00	203	72.0	1829
15 kV (175 - 220 MILS)											
CJ 3A1521	#4 - 4/0 AWG	0.60 - 1.05	15 - 27	1.57	40	1.05	26	4.25	108	60.0	1525
CJ 3A1522	4/0 - 500 kcmil	0.80 - 1.25	20 - 32	2.40	61	1.25	32	5.50	140	60.0	1525
CJ 3A1523	400 - 750 kcmil	1.05 - 1.60	27 - 41	2.40	61	1.75	44	8.00	203	72.0	1829
CJ 3A1524	750 - 1750 kcmil	1.30 - 2.15	33 - 55	2.40	61	2.15	55	8.00	203	72.0	1829
25 - 28 kV (260 - 280 MILS)											
CJ 3A2521	#1 - 250 kcmil	0.80 - 1.25	20 - 32	1.65	42	1.10	28	4.00	102	60.0	1525
CJ 3A2522	4/0 - 500 kcmil	1.05 - 1.55	27 - 39	2.40	61	1.30	33	6.00	152	72.0	1829
CJ 3A2523	600 - 1000 kcmil	1.40 - 1.85	33 - 47	2.40	61	1.85	47	8.00	203	84.0	2134
35 kV (345 MILS)											
CJ 3A3521	1/0 - 250 kcmil	0.95 - 1.35	24 - 34	2.40	61	1.00	25	5.00	127	72.0	1829
CJ 3A3522	250 - 600 kcmil	1.30 - 1.75	33 - 44	2.40	61	1.50	38	8.00	203	84.0	2134
CJ 3A3523	600 - 1000 kcmil	1.55 - 2.15	39 - 55	2.40	61	1.85	47	10.00	254	84.0	2134

ORDERING

- Find the cable's voltage class and conductor size(s) to be spliced. Select the kit order number that covers the conductor size range.
- Confirm the dimensional data particularly when the conductor size is at the extremes of the range. The overlap in size ranges allows for size transitions when splicing different cable sizes. The determining factors for selection are that the minimum and maximum dimensions for the primary insulation and connector dimensions are met and that the jacket diameter maximum is not exceeded.
- A cable preparation/cleaning kit can be included with the kit by adding the suffix "P" to the end of the order number. FOR EXAMPLE: CJ 3A1522P.

CJ LC SERIES

INSULATE
SEAL
PROTECT

HEAT SHRINK MEDIUM VOLTAGE JOINTS

CJ LC series joints are single core, 15 kV to 35 kV heat shrink joints for XLPE and EPR extruded dielectric longitudinally corrugated, type LC cables. The joints are supplied with all of the hardware required to shield and externally ground the joint without soldering. Dual moisture blocked tinned copper braids with constant force springs make the connection of the LC shield across the joint and to ground. The wraparound jacketing sleeve allows for reduced installation space.

FEATURES AND BENEFITS

- Fast, consistent installation means lower installed costs
- Installation environment: use of torch adds flexibility to cable preparation in any climate
- Heat activated seal ensures maximum protection against moisture ingress
- Custom tailored with options to your exacting needs
- Lightweight construction requires no additional support
- Wide cable ranges for reduced inventory requirements
- Tough abrasion resistant outer covering protects against damage from improper backfill
- Slim profile allows installation in confined areas

STANDARDS

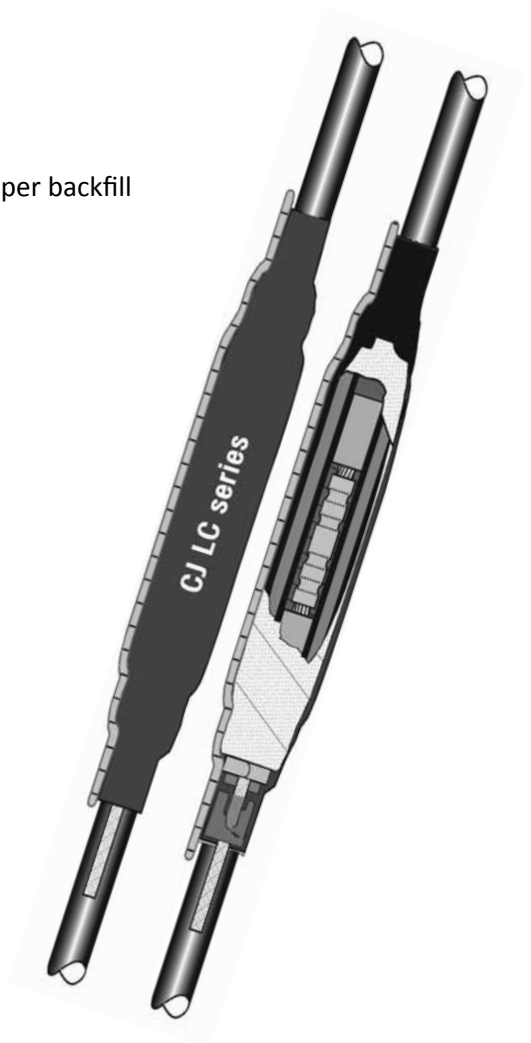
- IEEE 404-2000

TEST REPORTS

The CJ LC series joints were design tested to IEEE 404-2000 at an independent laboratory as single coreunjacketed joints. This represents the worst case condition as the joints submerged under water were not afforded the added protection of the CJ LC series joints with jackets.

Test reports are available as follows:

- CJ 1530LC series: HVS020080
- CJ 2530LC series: HVS020081 and HVS 020083
- CJ 3530LC series: HVS020082



HEAT SHRINK MEDIUM VOLTAGE JOINTS

CJ LC SERIES

DIMENSIONS

ORDER NUMBER	CONDUCTOR SIZE RANGE	INSULATION O.D. RANGE		JACKET O.D. (MAX)		CONNECTOR DIMENSIONS				KIT INSTALLED LENGTH (NOM)	
						O.D. (MAX)		LENGTH (MAX)			
		IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
15 kV (175 - 220 MILS)											
CJ 1531LC	#4 - 3/0 AWG	0.06 - 1.05	15 - 23	1.25	32	0.90	23	4.25	108	28.0	711
CJ 1532LC	3/0 - 350 kcmil	0.80 - 1.25	20 - 32	1.50	38	1.15	29	5.50	140	32.0	813
CJ 1533LC	400 - 750 kcmil	1.05 - 1.75	27 - 44	1.85	47	1.60	41	8.00	203	35.0	889
CJ 1534LC	750 - 1000 kcmil	1.30 - 1.85	33 - 47	2.10	53	1.85	47	8.00	203	35.0	889
25 - 28 kV (260 - 280 MILS)											
CJ 2531LC	#1 - 250 kcmil	0.80 - 1.20	20 - 30	1.50	38	1.50	38	4.00	102	32.0	813
CJ 2532LC	4/0 - 500 kcmil	1.05 - 1.60	27 - 41	1.95	50	1.95	50	6.00	152	35.0	889
CJ 2533LC	600 - 1000 kcmil	1.40 - 1.85	36 - 47	2.40	61	2.40	61	8.00	203	45.0	1143
35 kV (345 MILS)											
CJ 3531LC	1/0 - 250 kcmil	0.95 - 1.35	24 - 34	1.55	39	1.00	25	5.00	127	39.0	1000
CJ 3532LC	4/0 - 600 kcmil	1.30 - 1.75	33 - 44	2.10	53	1.50	38	8.00	203	45.0	1143
CJ 3533LC	600 - 1000 kcmil	1.55 - 2.15	39 - 55	2.80	71	1.85	47	10.00	254	48.0	1220

ORDERING

- Find the cable's voltage class and conductor size(s) to be spliced. Select the kit order number that covers the conductor size range.
- Confirm the dimensional data particularly when the conductor size is at the extremes of the range. The CJ LC series joints are longitudinally corrugated, type LC shielded cables. The overlaps in size range allow for size transitions when splicing different cable sizes. The determining factors for selection are that the minimum and maximum dimensions for the primary insulation and connector dimensions are met and that the jacket diameter maximum is not exceeded.
- A cable preparation/cleaning kit can be included with the kit by adding the suffix "P" to the end of the order number, e.g. CJ 3532LCP.

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CJ 80 SERIES

INSULATE
SEAL
PROTECT

HEAT SHRINK MEDIUM VOLTAGE JOINTS

The CJ 80 series joints are single core, heat shrink joints for splicing 15 kV and 25 kV jacketed or unjacketed paper and lead laminated dielectric cable (PILC or VCLC) to itself or to XLP or EPR extruded dielectric, tape, wire shielded or concentric neutral cable.

FEATURES AND BENEFITS

- Fast, consistent installation means lower installed costs
- No lead wiping required for positive oil stops
- Installation environment: use of torch adds flexibility to cable preparation in any climate
- Heat activated seals ensure maximum protection against moisture ingress
- Reinforced wraparound sleeve with aluminum foil liner provides rugged protection and a moisture vapor barrier
- Wide cable ranges reduce inventory
- Pressure tested for continuous operation at 15 psig at 110°C
- Slim profile allows installation in confined areas

STANDARDS

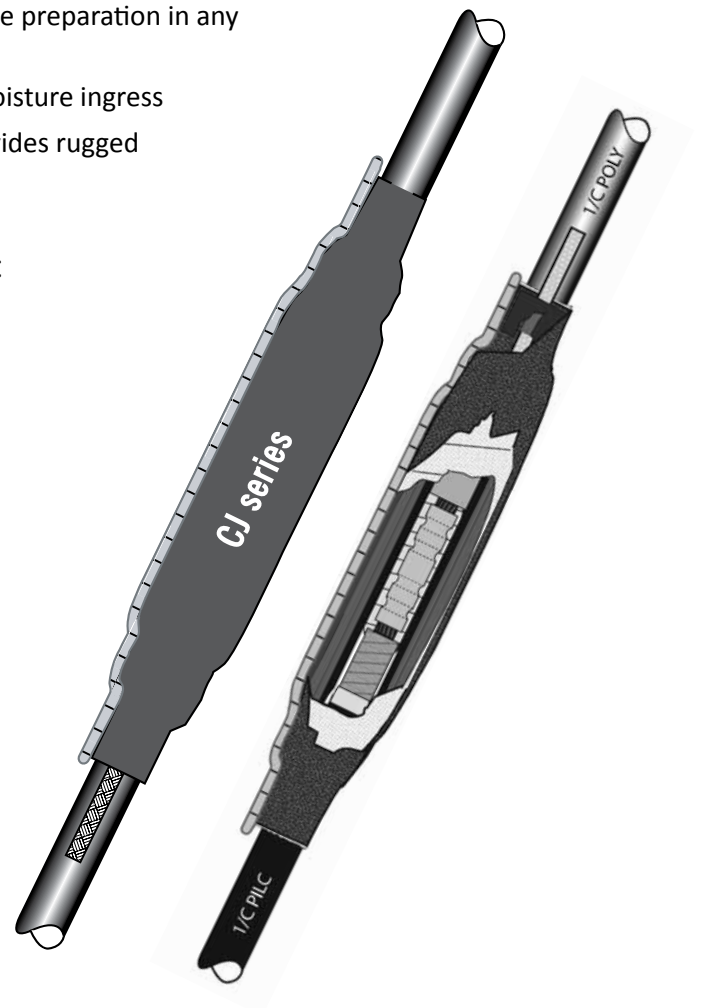
- IEEE 404-2000

TEST REPORTS

CJ 80 series joints were design tested to IEEE 404-2000 at an independent laboratory.

Test reports are available as follows:

- CJ 1580 series: HVS031103
- CJ 2580 series: HVS040423



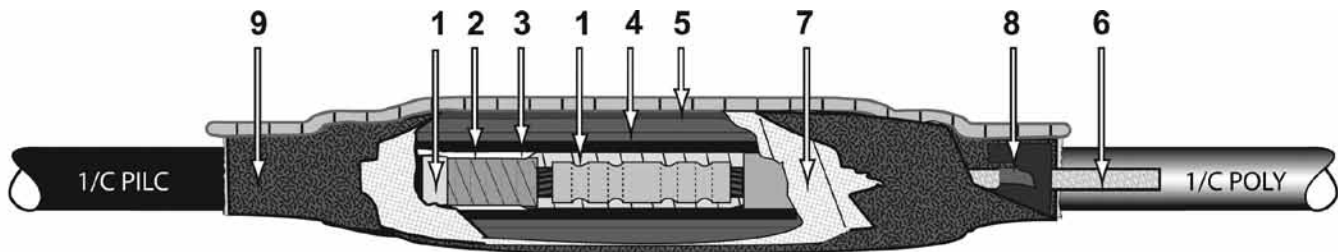
DIMENSIONS

ORDER NUMBER	PILC/POLY CONDUCTOR SIZE	INSULATION DIAMETER		CONNECTOR DIMENSIONS MAX			INSTALLED LENGTH (NOM)
		PILC RANGE	POLY RANGE	O.D. BOTH	PILC-PILC LENGTH	PILC-POLY LENGTH	
	AWG/kCMIL	IN	IN	IN	IN	IN	IN
15 kV, 1/C PILC TO 1/C PILC STRAIGHT JOINT OR 1/C PILC TO POLY TRANSITION JOINT (165 - 225 MILS INSULATION)							
CJ 1581	#4 - 4/0	0.55 - 1.00	0.60 - 1.05	0.90	3.50	4.25	31.0
CJ 1582	4/0 - 400	0.75 - 1.20	0.80 - 1.25	1.15	4.00	5.50	35.0
CJ 1583	500 - 750	1.00 - 1.70	1.05 - 1.75	1.60	5.00	7.00	37.0
CJ 1584	750 - 1000	1.20 - 1.80	1.30 - 1.85	1.85	6.00	8.00	40.0
25 kV, 1/C PILC TO 1/C PILC STRAIGHT JOINT OR 1/C PILC TO POLY TRANSITION JOINT (260 - 320 MILS INSULATION)							
CJ 2581	4/0 - 400	0.75 - 1.20	0.80 - 1.25	1.15	4.00	4.25	40.0
CJ 2582	500 - 750	1.00 - 1.70	1.05 - 1.75	1.60	5.00	5.50	48.0
CJ 2583	750 - 1000	1.20 - 1.80	1.30 - 1.85	1.85	6.00	8.00	48.0

ORDERING

- Find the cable's voltage class and conductor size(s) to be spliced. Select the kit order number that covers the conductor size range. Confirm the dimensional data; particularly when the conductor size is at the extremes of the range. The overlap in size ranges allows for size transitions when splicing different cable sizes. The determining factors for selection are that the minimum and maximum dimensions for the primary insulation and connector dimensions are met and that the jacket diameter(s) maximums are not exceeded.
- For size transitions outside the listed range consult the factory.

15 - 25 kV, 1/C PAPER-LEAD TO 1/C POLY CABLE JOINTS



- | | |
|--|---|
| 1 SCS stress control/oil block sealant | 6 Tinned copper braid |
| 2 OSTC oil stop tube | 7 Tinned copper mesh |
| 3 CSCR stress control tube | 8 Red environmental sealant |
| 4 CFXB insulating tube(s) | 9 CRDW-RA reinforced wraparound with aluminum foil moisture barrier |
| 5 CCON conductive shielding tube | |

CJT 80 SERIES

INSULATE
SEAL
PROTECT

HEAT SHRINK MEDIUM VOLTAGE JOINTS

The CJT 80 series joints are trifurcating transition, heat shrink joints for splicing three conductor 15 kV and 25 kV jacketed or unjacketed paper and lead laminated dielectric cable (PILC or VCLC) to three each, single conductor XLP and EPR extruded dielectric, tape, wire shielded, bare or jacketed concentric neutral cables.

FEATURES AND BENEFITS

- Fast, consistent installation means lower installed costs
- No lead wiping required for positive oil stops
- Installation environment: use of torch adds flexibility to cable preparation in any climate
- Heat activated seals ensure maximum protection against moisture ingress
- Reinforced wraparound sleeve with aluminum foil liner provides rugged protection and a moisture vapor barrier
- Wide cable ranges reduce inventory
- Pressure tested for continuous operation at 15 psig at 110°C
- Slim profile allows installation in confined areas

STANDARDS

- IEEE 404-2000

TESTS REPORTS

CJT 80 series joint qualification is based on the testing of the 15 kV trifurcating transition joints where the oil stop was proven, and the dielectric tests in the 15 kV and 25 kV single conductor joint tests respectively, as tested to IEEE 404-2000 at an independent laboratory.

Test reports are available as follows:

- CJT 1580 series: HVS031104
- CJ 1580 series: HVS031103
- CJ 2580 series: HVS040423



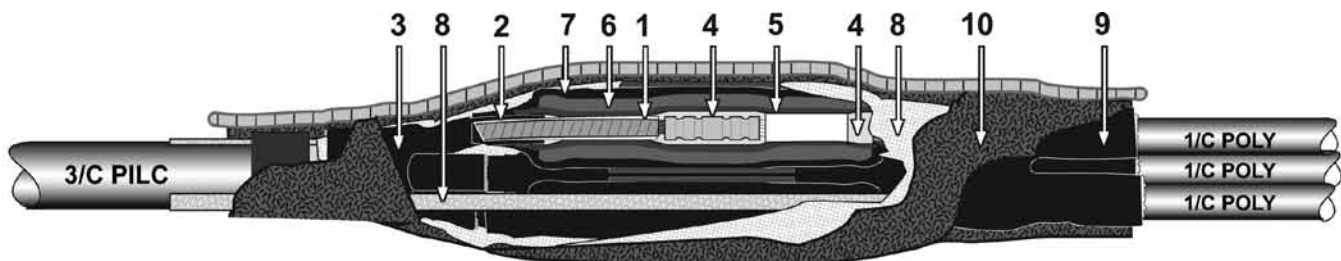
DIMENSIONS

ORDER NUMBER	PILC/POLY CONDUCTOR SIZE	INSULATION DIAMETER RANGE	JACKET DIAMETER (MAX)		CONNECTOR DIMENSIONS (MAX)		INSTALLED LENGTH (NOM)
			1/C PILC RANGE	1/C POLY RANGE	O.D. BOTH	LENGTH	
	AWG/kCMIL	IN	IN	IN	IN	IN	IN
15 kV, 3/C PILC TO 3 - 1/C PILC TRIFURCATING JOINT OR 3/C PILC TO 3-1/C POLY CABLE TRANSITION JOINT (165 - 220 MILS INSULATION)							
CJT 1581	#4 - 4/0	0.55 - 0.90	0.60 - 1.05	0.80 - 1.85	1.05	4.50	40.0
CJT 1582	4/0 - 350	0.80 - 1.20	0.85 - 1.30	0.90 - 1.85	1.25	5.50	40.0
CJT 1583	400 - 750	1.00 - 1.30	1.05 - 1.60	1.10 - 2.15	1.75	7.00	48.0
CJT 1584	750 - 1000	1.15 - 1.50	1.25 - 1.85	1.10 - 2.15	1.85	8.00	48.0
25 kV, 3/C PILC TO 3 - 1/C PILC TRIFURCATING JOINT OR 3/C PILC TO 3-1/C POLY CABLE TRANSITION JOINT (260 - 320 MILS INSULATION)							
CJT 2581	#1 - 300	0.80 - 1.25	0.85 - 1.25	0.90 - 1.85	1.25	5.50	40.0
CJT 2582	350 - 500	1.00 - 1.45	1.05 - 1.50	1.10 - 2.15	1.60	7.00	48.0
CJT 2583	600 - 1000	1.35 - 1.70	1.40 - 1.90	1.10 - 2.15	1.85	8.00	48.0

ORDERING

- Find the cable's voltage class and conductor size(s) to be spliced. Select the kit order number that covers the conductor size range. Confirm the dimensional data; particularly when the conductor size is at the extremes of the range. The overlap in size ranges allows for size transitions when splicing different cable sizes. The determining factors for selection are that the minimum and maximum dimensions for the primary insulation and connector dimensions are met and that the jacket diameter(s) maximums are not exceeded.
- For size transitions outside the listed range consult the factory.

15 - 25 kV, 3/C PAPER-LEAD TO 3-1/C POLY CABLE JOINTS



- | | |
|--|--|
| 1 OSTC oil stop tube | 6 CFXB insulating tube(s) |
| 2 CCON conductive shielding tube | 7 CCON conductive shielding tube |
| 3 CCB conductive breakout boot | 8 Tinned copper mesh and braid |
| 4 SCS stress control/oil block sealant | 9 CCB insulating breakout boot |
| 5 CSCR stress control tube | 10 CRDW-RA reinforced wraparound with aluminum foil moisture barrier |

CJT 90 SERIES

INSULATE
SEAL
PROTECT

HEAT SHRINK MEDIUM VOLTAGE JOINTS

The CJT 90 series joints are trifurcating heat shrink joints for splicing three conductor 15 kV and 25 kV jacketed or unjacketed paper and lead laminated dielectric cable (PILC or VCLC) to three each, single conductor jacketed or unjacketed paper and lead laminated dielectric (PILC or VCLC) cables.

FEATURES AND BENEFITS

- Fast, consistent installation means lower installed costs
- No lead wiping required for positive oil stops
- Installation environment: use of torch adds flexibility to cable preparation in any climate
- Heat activated seals ensure maximum protection against moisture ingress
- Reinforced wraparound sleeve with aluminum foil liner provides rugged protection and a moisture vapor barrier
- Wide cable ranges reduce inventory
- Pressure tested for continuous operation at 15 psig at 110°C
- Slim profile allows installation in confined areas

STANDARDS

- IEEE 404-2000

TESTS REPORTS

CJT 90 series joint qualification is based on the testing of the 15 kV trifurcating transition joints where the oil stop was proven, and the dielectric tests in the 15 kV and 25 kV single conductor joint tests respectively, as tested to IEEE 404-2000 at an independent laboratory.

Test reports are available as follows:

- CJT 1580 series: HVS031104
- CJ 1580 series: HVS031103
- CJ 2580 series: HVS040423



DIMENSIONS

ORDER NUMBER	CONDUCTOR SIZE	INSULATION DIAMETER 1/C PILC RANGE	JACKET DIAMETER 1/C PILC RANGE	CONNECTOR DIMENSIONS (MAX)		INSTALLED LENGTH (NOM)
				O.D. BOTH	LENGTH	
	AWG/KCMIL	IN	IN	IN	IN	IN

15 kV, 3/C PILC TO 3-1/C PILC TRIFURCATING JOINT (165 - 220 MILS INSULATION)

CJT 1591	#4 - 4/0	0.55 - 0.90	0.80 - 1.85	1.05	4.50	40.0
CJT 1592	4/0 - 350	0.80 - 1.20	0.90 - 1.85	1.25	5.50	40.0
CJT 1593	400 - 750	1.00 - 1.30	1.10 - 2.15	1.75	7.00	48.0
CJT 1594	750 - 1000	1.15 - 1.50	1.10 - 2.15	1.85	8.00	48.0

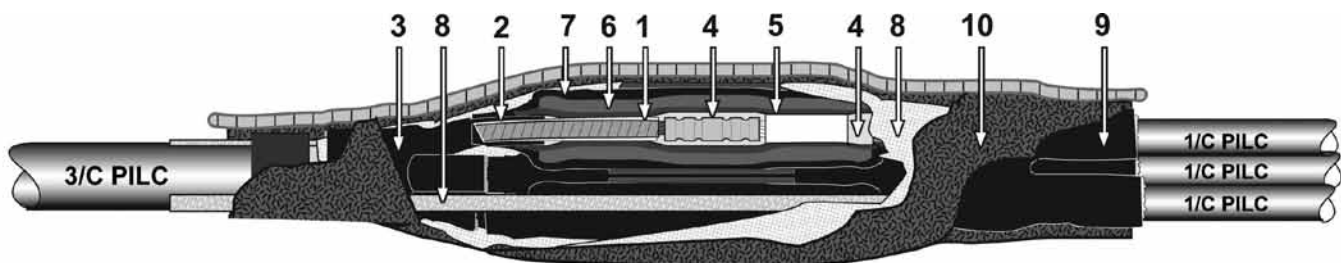
25 kV, 3/C PILC TO 3-1/C PILC TRIFURCATING JOINT (260 - 320 MILS INSULATION)

CJT 2591	#1 - 300	0.80 - 1.25	0.90 - 1.85	1.25	5.50	40.0
CJT 2592	350 - 500	1.00 - 1.45	1.10 - 2.15	1.60	7.00	48.0
CJT 2593	600 - 1000	1.35 - 1.70	1.10 - 2.15	1.85	8.00	48.0

ORDERING

- Find the cable's voltage class and conductor size(s) to be spliced. Select the kit order number that covers the conductor size range. Confirm the dimensional data; particularly when the conductor size is at the extremes of the range. The overlap in size ranges allows for size transitions when splicing different cable sizes. The determining factors for selection are that the minimum and maximum dimensions for the primary insulation and connector dimensions are met and that the jacket diameter(s) maximums are not exceeded.
- For size transitions outside the listed range consult the factory.

15 - 25 kV, 3/C PAPER-LEAD TO 3-1/C PAPER-LEAD JOINTS



- | | |
|--|--|
| 1 OSTC oil stop tube | 6 CFXB insulating tube(s) |
| 2 CCON conductive shielding tube | 7 CCON conductive shielding tube |
| 3 CCB conductive breakout boot | 8 Tinned copper mesh and braid |
| 4 SCS stress control/oil block sealant | 9 CCB insulating breakout boot |
| 5 CSCR stress control tube | 10 CRDW-RA reinforced wraparound with aluminum foil moisture barrier |

CJ 390 SERIES

INSULATE
SEAL
PROTECT

HEAT SHRINK MEDIUM VOLTAGE JOINTS

The CJ 390 series joints are straight heat shrink joints for splicing three conductor 15 kV and 25 kV jacketed or unjacketed paper and lead laminated dielectric cable (PILC or VCLC) to three conductor jacketed or unjacketed paper and lead laminated dielectric (PILC or VCLC) cables.

FEATURES AND BENEFITS

- Fast, consistent installation means lower installed costs
- No lead wiping required for positive oil stops
- Installation environment: use of torch adds flexibility to cable preparation in any climate
- Heat activated seals ensure maximum protection against moisture ingress
- Reinforced wraparound sleeve with aluminum foil liner provides rugged protection and a moisture vapor barrier
- Wide cable ranges reduce inventory
- Pressure tested for continuous operation at 15 psig at 110°C
- Slim profile allows installation in confined areas

STANDARDS

- IEEE 404-2000

TESTS REPORTS

CJ 390 series joint qualification is based on the testing of the 15 kV trifurcating transition joints where the oil stop was proven, and the dielectric tests in the 15 kV and 25 kV single conductor joint tests respectively, as tested to IEEE 404-2000 at an independent laboratory.

Test reports are available as follows:

- CJT 1580 series: HVS031104
- CJ 1580 series: HVS031103
- CJ 2580 series: HVS040423



DIMENSIONS

ORDER NUMBER	CONDUCTOR SIZE	INSULATION DIAMETER 1/C PILC RANGE	JACKET DIAMETER 1/C PILC RANGE	CONNECTOR DIMENSIONS (MAX)		INSTALLED LENGTH (NOM)
				O.D. BOTH	LENGTH	
	AWG/KCMIL	IN	IN	IN	IN	IN

15 kV, 3/C PILC TO 3/C PILC CABLE STRAIGHT JOINT (165 - 220 MILS INSULATION)

CJ 31591	#4 - 4/0	0.55 - 0.90	0.80 - 1.85	1.05	4.50	63.0
CJ 31592	4/0 - 350	0.80 - 1.20	0.90 - 1.85	1.25	5.50	63.0
CJ 31593	400 - 750	1.00 - 1.30	1.10 - 2.15	1.75	7.00	72.0
CJ 31594	750 - 1000	1.15 - 1.50	1.10 - 2.15	1.85	8.00	72.0

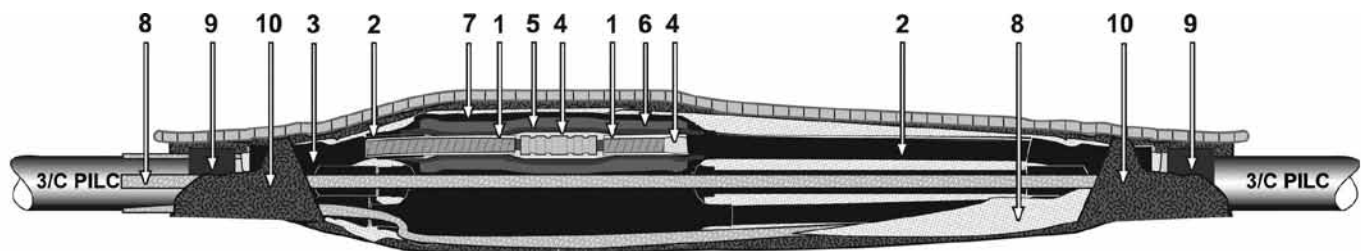
25 kV, 3/C PILC TO 3/C PILC CABLE STRAIGHT JOINT (260 - 320 MILS INSULATION)

CJ 32591	#1 - 300	0.80 - 1.25	0.90 - 1.85	1.25	5.50	72.0
CJ 32592	350 - 500	1.00 - 1.45	1.10 - 2.15	1.60	7.00	72.0
CJ 32593	600 - 1000	1.35 - 1.70	1.10 - 2.15	1.85	8.00	72.0

ORDERING

- Find the cable's voltage class and conductor size(s) to be spliced. Select the kit order number that covers the conductor size range. Confirm the dimensional data; particularly when the conductor size is at the extremes of the range. The overlap in size ranges allows for size transitions when splicing different cable sizes. The determining factors for selection are that the minimum and maximum dimensions for the primary insulation and connector dimensions are met and that the jacket diameter(s) maximums are not exceeded.
- For size transitions outside the listed range consult the factory.

15 - 25 kV, 3/C PAPER-LEAD TO 3/C PAPER-LEAD CABLE STRAIGHT JOINTS



- | | |
|--|--|
| 1 OSTC oil stop tube | 6 CFXB insulating tube(s) |
| 2 CCON conductive shielding tube | 7 CCON conductive shielding tube |
| 3 CCB conductive breakout boot | 8 Tinned copper mesh and braid |
| 4 SCS stress control/oil block sealant | 9 CTSR environmental sealant |
| 5 CSCR stress control tube | 10 CRDW-RA reinforced wraparound with aluminum foil moisture barrier |

CLES 80 SERIES

INSULATE
SEAL
PROTECT

HEAT SHRINK MEDIUM VOLTAGE LIVE END SEALS

The CLES 1580 and CLES 2580 series joints are heat shrink live end seals for single conductor 15 kV and 25 kV jacketed or unjacketed paper and lead, laminated dielectric cable (PILC or VCLC) or extruded dielectric (XLP or EPR) power cables.

FEATURES AND BENEFITS

- Fast, consistent installation means lower installed costs
- No lead wiping required for positive oil stops
- Installation environment: use of torch adds flexibility to cable preparation in any climate
- Heat activated seals ensure maximum protection against moisture ingress
- Reinforced wraparound sleeve with aluminum foil liner provides rugged protection and a moisture vapor barrier
- Wide cable ranges reduce inventory
- Pressure tested for continuous operation at 15 psig at 110°C
- Slim profile allows installation in confined areas

STANDARDS

- IEEE 404-2000

TEST REPORTS

CLES 80 series joint qualification is based on the testing of the 15 kV trifurcating transition joints where the oil stop was proven, and the dielectric tests in the 15 kV and 25 kV single conductor joint tests respectively, as tested to IEEE 404-2000 at an independent laboratory.

Test reports are available as follows:

- CJT 1580 series: HVS031104
- CJ 1580 series: HVS031103
- CJ 2580 series: HVS040423



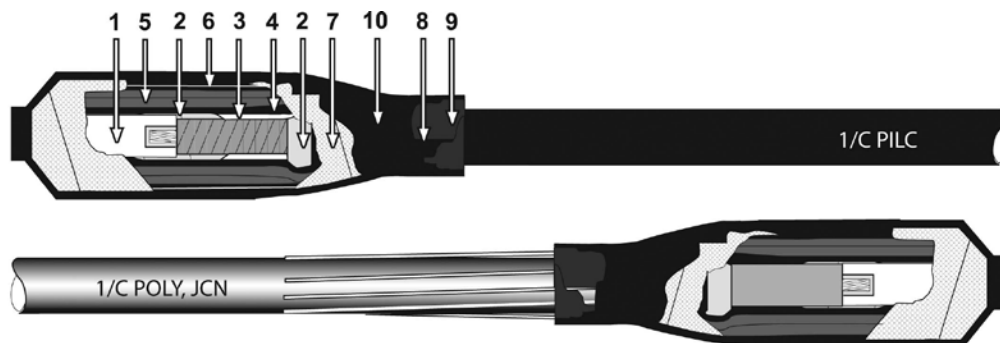
DIMENSIONS

ORDER NUMBER	CONDUCTOR SIZE	INSULATION DIAMETERS 1/C PILC OR POLY RANGE	INSTALLED LENGTH (NOM)
	AWG/KCMIL	IN	IN
15 kV PILC LIVE END SEAL FOR 1/C PILC OR POLY CABLE (165 - 220 MILS INSULATION)			
CLES 1581	#4 - 4/0	0.55 - 1.05	16.0
CLES 1582	4/0 - 500	0.80 - 1.35	16.0
CLES 1583	500 - 1000	1.35 - 1.85	16.0
25 kV PILC LIVE END SEAL FOR 1/C PILC OR POLY CABLE (260 - 320 MILS INSULATION)			
CLES 2581	#1 - 300	0.80 - 1.25	24.0
CLES 2582	350 - 500	1.00 - 1.45	24.0
CLES 2583	600 - 1000	1.50 - 1.70	24.0

SELECTION

- Find the cable's voltage class and conductor size(s) to be spliced. Select the kit order number that covers the conductor size range. Confirm the dimensional data; particularly when the conductor size is at the extremes of the range. The overlap in size ranges allows for size transitions when splicing different cable sizes. The determining factors for selection are that the minimum and maximum dimensions for the primary insulation and connector dimensions are met and that the jacket diameter(s) maximums are not exceeded.
- For size transitions outside the listed range consult the factory.

15 - 25 kV, 1/C PAPER-LEAD OR POLY CABLE LIVE END SEALS



- | | | | |
|---|--------------------------------------|----|--------------------------------|
| 1 | HDPEP and seal plug | 6 | CCON conductive shielding tube |
| 2 | SCS stress control/oil block sealant | 7 | Tinned copper mesh |
| 3 | OSTC oil stop tube (PILC only) | 8 | Tinned copper braid |
| 4 | CSCR stress control tube | 9 | CTSR red environmental sealant |
| 5 | CFXB insulating tube(s) | 10 | CCAP insulating end cap |

CLES 390 SERIES

INSULATE
SEAL
PROTECT

HEAT SHRINK MEDIUM VOLTAGE LIVE END SEALS

The CLES 31590 and CLES 32590 series joints are heat shrink live end seals for three conductor 15 kV and 25 kV jacketed or unjacketed paper and lead, laminated dielectric cable (PILC or VCLC)

FEATURES AND BENEFITS

- Fast, consistent installation means lower installed costs
- No lead wiping required for positive oil stops
- Installation environment: use of torch adds flexibility to cable preparation in any climate
- Heat activated seals ensure maximum protection against moisture ingress
- Reinforced wraparound sleeve with aluminum foil liner provides rugged protection and a moisture vapor barrier
- Wide cable ranges reduce inventory
- Pressure tested for continuous operation at 15 psig at 110°C
- Slim profile allows installation in confined areas

STANDARDS

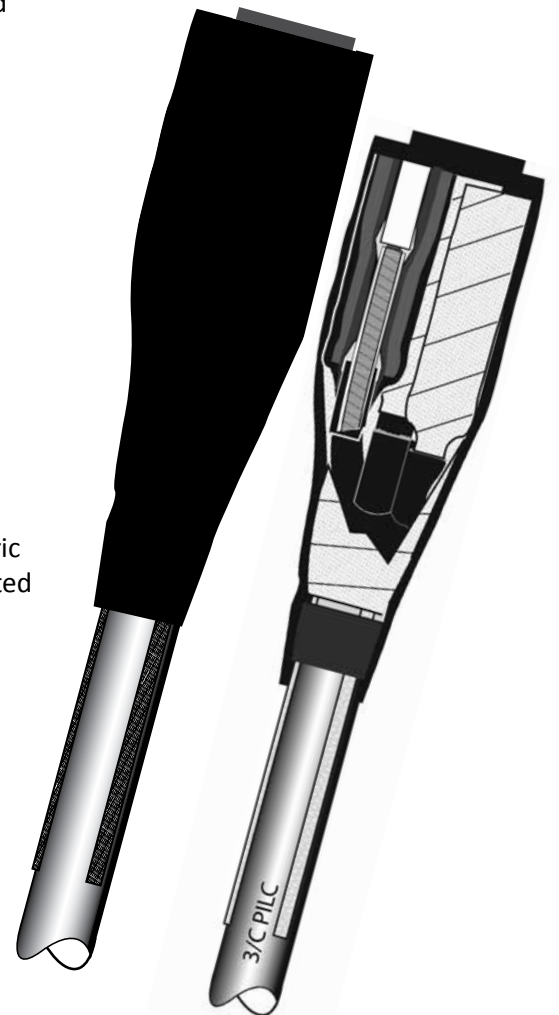
- IEEE 404-2000

TEST REPORTS

CLES 390 series joint qualification is based on the testing of the 15 kV trifurcating transition joints where the oil stop was proven, and the dielectric tests in the 15 kV and 25 kV single conductor joint tests respectively, as tested to IEEE 404-2000 at an independent laboratory.

Test reports are available as follows:

- CJT 1580 series: HVS031104
- CJ 1580 series: HVS031103
- CJ 2580 series: HVS040423



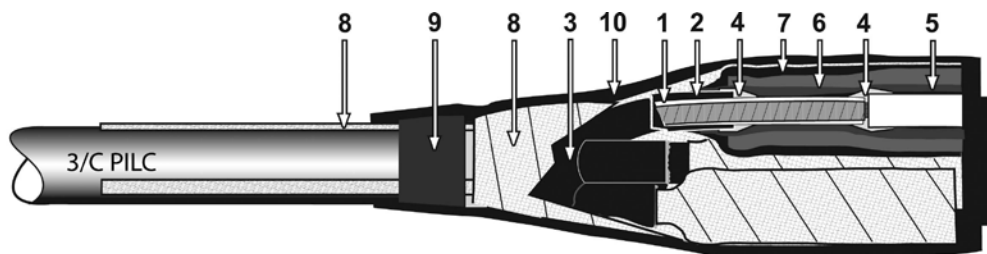
DIMENSIONS

ORDER NUMBER	CONDUCTOR SIZE	INSULATION DIAMETERS 1/C PILC OR POLY RANGE	INSTALLED LENGTH (NOM)
	AWG/KCMIL	IN	IN
15 kV PILC LIVE END SEAL FOR 3/C PILC CABLE ONLY (165 - 220 MILS INSULATION)			
CLES 31591	#4 - 4/0	0.55 - 1.05	27.0
CLES 31592	4/0 - 500	0.80 - 1.35	27.0
CLES 31593	500 - 1000	1.35 - 1.85	27.0
25 kV PILC LIVE END SEAL FOR 3/C PILC CABLE ONLY (260 - 320 MILS INSULATIONS)			
CLES 32591	#1 - 300	0.80 - 1.25	28.0
CLES 32592	350 - 500	1.00 - 1.45	31.0
CLES 32593	600 - 1000	1.50 - 1.70	32.0

SELECTION

- Find the cable's voltage class and conductor size(s) to be spliced. Select the kit order number that covers the conductor size range. Confirm the dimensional data; particularly when the conductor size is at the extremes of the range. The overlap in size ranges allows for size transitions when splicing different cable sizes. The determining factors for selection are that the minimum and maximum dimensions for the primary insulation and connector dimensions are met and that the jacket diameter(s) maximums are not exceeded.
- For size transitions outside the listed range consult the factory.

15 - 25 kV, 3/C PAPER-LEAD CABLE LIVE END SEALS



- | | | | |
|---|--------------------------------------|----|--------------------------------|
| 1 | OSTC oil stop tube | 6 | CFXB insulating tube(s) |
| 2 | CCON conductive shielding tube | 7 | CCON conductive shielding tube |
| 3 | CCB conductive breakout boot | 8 | Tinned copper mesh and braid |
| 4 | SCS stress control/oil block sealant | 9 | CTSR environmental sealant |
| 5 | CSCR stress control tube | 10 | CCAP end cap |

CSJ 10 SERIES

INSULATE
SEAL
PROTECT

COLD SHRINK MEDIUM VOLTAGE JOINTS

Cold Shrink Cable Joints for 1/C, 15 kV XLPE and EPR extruded dielectric bare and jacketed concentric neutral power cables for the electrical utility market.

FEATURES AND BENEFITS

- For all types of extruded dielectric cables covering the full range from #2 AWG to 1000 kcmil
- One piece joint designed for quick, easy and cost effective installation
- Versatile, Cold Shrink design
- Geometric stress cone & stress controlling sealant
- Spiral ripcord housing unwinds easily to facilitate quick removal of the core
- Cold shrink jacketing tube
- Provides exceptional performance & secondary seal
- Demonstrates superior cable sealing & voltage withstand characteristics per electrical utility industry standards
- Designed for use with in-line compression connector
- Tough rubber outer covering protects against damage from improper backfill

STANDARDS

- Rated to IEEE-404-2000

TEST REPORTS

The CSJ Series Joints were tested to the requirements of IEEE-404-2000 at an independent laboratory.

Test report available:
HVS.290310



DIMENSIONS

ORDER NUMBER	CONDUCTOR SIZE RANGE	INSULATION O.D. RANGE		JACKET O.D. MAXIMUM		CONNECTOR DIMENSIONS				NOMINAL KIT INSTALLED LENGTH	
						MAXIMUM O.D.		MAXIMUM LENGTH			
		IN	MM	IN	MM	IN	MM	IN	MM	IN	MM

BARE CONCENTRIC NEUTRAL

15 KV (175 - 220 MILS)

CSJ 1510	#2 AWG	0.51-0.64	13-16.2	0.91	23	0.64	16.2	3.15	80	18	455
CSJ 1511	#2 AWG - #2/0	0.64-0.79	16.2-20.2	1.10	28	0.79	20.2	3.15	80	18	455
CSJ 1512	#2/0 AWG - 350 kcmil	0.79-1.04	20-26.4	1.42	36	1.04	26.4	3.95	100	18	455
CSJ 1513	350-750 kcmil	1.02-1.45	26-36.8	1.77	45	1.45	36.8	5.50	140	20	505
CSJ 1514	750 - 1000 kcmil	1.34-1.77	34-45	2.28	58	1.77	45	5.50	140	20	505

JACKETED CONCENTRIC NEUTRAL

15 KV (175 - 220 MILS)

CSJ 1510	#2 AWG	0.51-0.64	13-16.2	0.91	23	0.64	16.2	3.15	80	18	455
CSJ 1511	#2 AWG - #2/0	0.64-0.79	16.2-20.2	1.10	28	0.79	20.2	3.15	80	18	455
CSJ 1512	#2/0 AWG - 350 kcmil	0.79-1.04	20-26.4	1.42	36	1.04	26.4	3.95	100	18	455
CSJ 1513	350-750 kcmil	1.02-1.45	26-36.8	1.77	45	1.45	36.8	5.50	140	20	505
CSJ 1514	750 - 1000 kcmil	1.34-1.77	34-45	2.28	58	1.77	45	5.50	140	20	505

ORDERING

- Find the cable's voltage class and conductor size(s) to be spliced. Select the kit order number that covers the conductor size range and cable insulation O.D. range.
- Confirm the dimensional data particularly when the conductor size range is at the extremes of the range. The overlap in size range allows for size transitions when splicing different cable sizes. The determining factors for selection are that the dimension ranges for the primary insulation and connector dimensions are met and the jacket diameter maximums are not exceeded.
- A cable preparation/cleaning kit can be included with the kit by adding the suffix "P" to the end of the order number.

CSJ 20 SERIES

INSULATE
SEAL
PROTECT

COLD SHRINK MEDIUM VOLTAGE JOINTS

Cold Shrink Cable Joints for 1/C, 5 - 15 kV XLPE and EPR extruded dielectric metal tape, wire shielded power cables for the electrical construction markets.

FEATURES AND BENEFITS

- For all types of extruded dielectric cables covering the full range from #2 AWG to 1000 kcmil
- One piece joint designed for quick, easy and cost effective installation
- Versatile, Cold Shrink design
- Geometric stress cone & stress controlling sealant
- Spiral ripcord housing unwinds easily to facilitate quick removal of the core
- Cold shrink jacketing tube
- Provides exceptional performance & secondary seal
- Demonstrates superior cable sealing & voltage withstand characteristics per electrical utility industry standards
- Designed for use with in-line compression connector
- Tough rubber outer covering protects against damage from improper backfill

STANDARDS

- Rated to IEEE-404-2000

TEST REPORTS

The CSJ Series Joints were tested to the requirements of IEEE-404-2000 at an independent laboratory.

Test report available:
HVS.290310



DIMENSIONS

ORDER NUMBER	CONDUCTOR SIZE RANGE	INSULATION O.D. RANGE		JACKET O.D. MAXIMUM		CONNECTOR DIMENSIONS				NOMINAL KIT INSTALLED LENGTH	
						MAXIMUM O.D.		MAXIMUM LENGTH			
		IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
5 kV (90-110 MILS)											
CSJ 820	#4 - #2/0 AWG	0.51-0.64	13-16.2	0.91	23	0.64	16.2	3.15	80	18	455
CSJ 821	#2/0 - 250 kcmil	0.64-0.79	16.2-20.2	1.10	28	0.79	20.2	3.15	80	18	455
CSJ 822	250 - 500 kcmil	0.79-1.04	20-26.4	1.42	36	1.04	26.4	3.95	100	18	455
CSJ 823	500 - 1000 kcmil	1.02-1.45	26-36.8	1.77	45	1.45	36.8	5.50	140	20	505
8 kV (115 MILS)											
CSJ 820	#4 - #1/0 AWG	0.51-0.64	13-16.2	0.91	23	0.64	16.2	3.15	80	18	455
CSJ 821	#1/0 - #4/0	0.64-0.79	16.2-20.2	1.10	28	0.79	20.2	3.15	80	18	455
CSJ 822	#4/0 - 500 kcmil	0.79-1.04	20-26.4	1.42	36	1.04	26.4	3.95	100	18	455
CSJ 823	500 - 1000 kcmil	1.02-1.45	26-36.8	1.77	45	1.45	36.8	5.50	140	20	505
15kV (175-220 MILS)											
CSJ 1520	#2	0.51-0.64	13-16.2	0.91	23	0.64	16.2	3.15	80	18	455
CSJ 1521	#2 - #1/0	0.64-0.79	16.2-20.2	1.10	28	0.79	20.2	3.15	80	18	455
CSJ 1522	#1/0 -350 kcmil	0.79-1.04	20-26.4	1.42	36	1.04	26.4	3.95	100	18	455
CSJ 1523	350 - 750 kcmil	1.02-1.45	26-36.8	1.77	45	1.45	36.8	5.50	140	20	505
CSJ 1524	750- 1000 kcmil	1.45-1.77	36.8-45	2.28	58	1.77	45	5.50	140	20	505

ORDERING

- Find the cable's voltage class and conductor size(s) to be spliced. Select the kit order number that covers the conductor size range and cable insulation O.D. range.
- Confirm the dimensional data particularly when the conductor size range is at the extremes of the range. The overlap in size range allows for size transitions when splicing different cable sizes. The determining factors for selection are that the dimension ranges for the primary insulation and connector dimensions are met and the jacket diameter maximums are not exceeded.
- A cable preparation/cleaning kit can be included with the kit by adding the suffix "P" to the end of the order number.

3/C CONVERSION KITS

INSULATE
SEAL
PROTECT

COLD SHRINK CONVERSION KITS

TITAN 3/C TERMINATION CONVERSION KITS

3/C OUTDOOR CONVERSION KIT WITH BOOT	3/C INDOOR CONVERSION KIT WITHOUT BOOT	CABLE SHIELD DIAMETER RANGE MIN	CONDUCTOR SIZE RANGE	STANDARD PACKAGE KITS/BOX
5 kV, 133% or 8kV, 100%				
TITAN 3MODB1	TITAN 3MOD1	0.61"-0.82"	#2-2/0	1
TITAN 3MODB2	TITAN 3MOD2	0.72" - 1.10"	2/0-350	1
TITAN 3MODB3	TITAN 3MOD3	1.08" - 1.45"	500-1000	1
15 kV, 100% or 133%				
TITAN 3MODB1	TITAN 3MOD1	0.74"-0.96"	#2-1/0	1
TITAN 3MODB2A	TITAN 3MOD2	0.80"-1.27"	1/0-350	1
TITAN 3MODB3	TITAN 3MOD3	1.23" - 1.52"	500-750	1
25kV, 100% or 133% 28kV, 100%; 35kV, 100%				
TITAN 3MODB2A	TITAN 3MOD2	0.80" - 1.27"	#1 - 4/0	1
TITAN 3MODB4	TITAN 3MOD4	1.10" - 1.52"	250 - 500	1
28kV, 133% 35kV, 133% (1/0 - 350kcmil)				
TITAN 3MODB4	TITAN 3MOD4	1.10" - 1.52"	#1 - #4/0	1
TITAN 3MODB5	TITAN 3MOD5	1.33" - 1.75"	#250 - 500	1



- The TITAN 3MOD Kits are designed to be used with TITAN terminations to convert 3/C shielded power cables to 3-1/C cable terminations.
- The kit design provides a seal at the breakout area and re-jacketing of individual phases on the three conductor cables.
- Kit Contents:
 - Outdoor kits** contain cold applied breakout boots, 3x1 meter tubes made of silicone rubber insulators and sealant mastics
 - Indoor kits** contain 3x1 meter tubes made of silicone rubber insulators and sealant mastics

3/C CONVERSION KITS

HEAT SHRINK CONVERSION KITS

3/C TERMINATION CONVERSION KITS

3/C OUTDOOR CONVERSION KIT WITH BOOT	3/C INDOOR CONVERSION KIT WITHOUT BOOT	5 - 8 kV G OR EG SERIES	15 kV G OR EG SERIES	25 kV G OR EG SERIES	35 kV G OR EG SERIES
CT 3MODA01	CT 3MODW	CT 081/082			
CT 3MODA	CT 3MODX	CT 083	CT 151/152	CT 251	
CT 3MODB	CT 3MODY	CT 084/085	CT 153/154	CT 252/253	CT 351/352

- Select the 3/C conversion kit based on the voltage class, termination kit type and whether it's for indoor or outdoor use
- Example: for CT 151EG Outdoor Termination Kits, select CT3MODA kit to convert 3/C to 3-1/C cable termination configuration

Kit Contents:

Outdoor kits contain rejacketing tubes, sealant, cable breakout boot

Indoor kits contain rejacketing tubes for phase and ground conductors, sealants



3/C JOINT CONVERSION KITS (UNARMORED)

CONVERTS 3-1/C JOINT KITS INTO 1-3/C JOINT KITS

3/C JOINT CONVERSION KIT	5 - 8 kV JOINT KITS	15 kV JOINT KITS	25 kV JOINT KITS	35 kV JOINT KITS
CJ 3MOD1	CJ N51, CJ 821			
CJ 3MOD2	CJ N52, CJ 822, CJ 823			
CJ 3MOD3	CJ 824, CJ 825	CJ 1521, CJ 1522	CJ 2521	
CJ 3MOD4		CJ 1523, CJ 1524	CJ 2522, CJ 2523	CJ 3521, CJ 3522, CJ 3523

Kit Contents: Rejacketing wraparound sleeves and sealant strips

3/C JOINT CONVERSION KITS (ARMORED)

CONVERTS 3-1/C JOINT KITS INTO 1-3/C ARMORED JOINT KITS

3/C ARMORED JOINT CONVERSION KIT	5 - 8 kV JOINT KITS	15 kV JOINT KITS	25 kV JOINT KITS	35 kV JOINT KITS
CJ 3AMOD1	CJ N51, CJ N52, CJ 821			
CJ 3AMOD2	CJ N53, CJ 822, CJ 823			
CJ 3AMOD3	CJ 824, CJ 825	CJ 1521, CJ 1522, CJ 1523, CJ 1524	CJ 2521, CJ 2522	CJ 3521
CJ 3AMOD4			CJ 2523	CJ 3522, CJ 3523

- Select the 3/C conversion kit based on the voltage class, joint kit type and whether it's armored or not
- Example: for CJ 823 Joint Kits, select CJ 3AMOD2 kit to convert 3-1/C to 3/C armored cable joint kit configuration

Kit Contents: Galvanized steel wraparound case, rejacketing wraparound sleeves and sealant strips

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ACCESSORIES AND HARDWARE

INSULATE SEAL PROTECT

CRSA, NON-TRACKING RAIN SHEDS

Rain sheds are used as creepage extenders on medium voltage cable termination and insulators in outdoor applications. The recommended number of sheds to be used varies according to the voltage rating of the cable.

VOLTAGE	NUMBER OF SHEDS	
5 - 8 kV	1	
15 kV	2	
25-28 kV	3	
35 kV	4	

PART NUMBER	CABLE DIAMETER USE RANGE	
	MM	IN
CRSA 37/12	32 - 12	1.26 - 0.47
CRSA 57/25	52 - 25	2.05 - 0.98
CRSA 75/35	70 - 35	2.76 - 1.38



CFS, CONSTANT FORCE SPRINGS

Used for securing ground braids on cable terminations and joints.

ORDER NUMBER	USE RANGE	
	MM	IN
CFS0405	12.7 - 25.4	0.50 - 1.00
CFS1005	25.4 - 50.8	1.00 - 2.00
CFS1675	42.4 - 76.2	1.67 - 3.00



MESH, TINNED COPPER SHIELDING MESH

Provides shield continuity on shielded power cables.

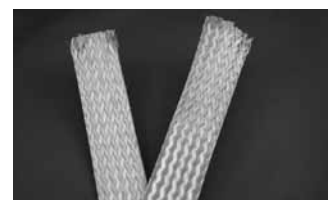
PART NUMBER	WIDTH		LENGTH	
	MM	IN	M	FT
MESH25015	57.15	2.25	4.57	15



BRDM, TINNED COPPER, MOISTURE BLOCKED GROUND BRAID

Used with cable terminations and joints to provide ground continuity.

ORDER NUMBER	GAUGE SIZE	WIDTH		LENGTH	
	AWG	MM	IN	MM	IN
BRDM0836	8	12.7	0.50	914.4	36
BRDM0636	6	19.5	0.75	914.4	36
BRDM0436	4	25.4	1.00	914.4	36



ACCESSORIES AND HARDWARE

CFGK, FAULT GROUNDING KITS

Kits are designed to provide complete external grounding for tape shield/drain wire terminations.

ORDER NUMBER	DESCRIPTION
CFGK1X36	One kit contains a constant force spring, copper foil tape and #8 AWG tinned copper braid, 36 in long
CFGK2X36	One kit contains a constant force spring, copper foil tape and #6 AWG tinned copper braid, 36 in long
CFGK3X36	One kit contains a constant force spring, copper foil tape and #4 AWG tinned copper braid, 36 in long



CPK, CABLE PREPARATION KIT

Kits contain all the necessary parts to clean and abrade 1-3/C or 3-1/C and 1/C cable accessories.

ORDER NUMBER	DESCRIPTION
CPK0306	One kit contains 3 each of solvent wipes, dry wipes and 3 strips of abrasion paper
CPK0102	One kit contains 1 each of solvent wipe, dry wipe and strip of abrasion paper



Or order by adding "P" suffix to MV kit

CTSR, NON-TRACKING RED SEALANT

Heat activated red sealant mastic for use in general purpose, medium voltage applications. Ideal for use in cable terminations and joints.

ORDER NUMBER	WIDTH		LENGTH		THICKNESS	
	MM	IN	MM	IN	MM	IN
CTSR 021535	53.34	2.10	381	15	1.016	0.040
CTSR 013060	26.67	1.05	762	30	1.524	0.060



CJGK, MID-SPAN EXTERNAL GROUNDING KIT

CJGK kits are used to externally ground 15kV-35kV jacketed concentric, flat strap neutral and longitudinal corrugated (Type LC) power cable every 1/4 mile per RUS recommendations.

ORDER NUMBER	USE RANGE (NOMINAL)			RATED FAULT
	15 kV	25 kV	35 kV	
CJGK-1	#4-4/0 AWG	#1-1/0 AWG	N/A	10kA, 10 cycles
CJGK-2	250-1000 kcmil	1/0-750 kcmil	1/0-500 kcmil	15kA, 15 cycles
CJGK-3	1000-2000 kcmil	750-1750 kcmil	500-1500 kcmil	15kA, 15 cycles

Each kit contains tinned copper moisture blocked ground braid, constant force spring, sealant mastic and a wraparound re-jacketing sleeve.

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CTCH/CHGN

INSULATE
SEAL
PROTECT

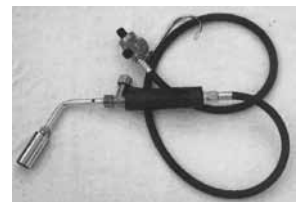
HEAT SHRINK TORCHES AND GUNS

Heavy duty torches providing clean burning, variable position shrink capability. Ideal for shrinking medium and heavy wall products.

BASIC TORCH KITS WITHOUT AUTOMATIC IGNITION

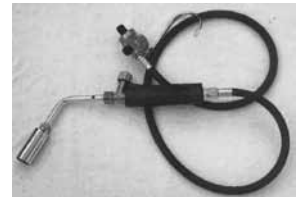
CTCH-BHSK-04

Light weight Sievert portable torch kit ideal for installation of low voltage electrical and CATV splice applications. Kit contains torch handle, 20,000 BTU/hr soft flame burner and 4 ft hose regulator assembly for 14.1 or 16.4 oz disposable propane cylinders.



CTCH-BHSK-25

Light weight Sievert portable torch kit ideal for installation of medium and heavy wall heat shrink products. Kit contains torch handle, 40,000 BTU/hr soft flame burner, 25 ft hose, adjustable P.O.L. regulator for refillable propane cylinders.



AUTOMATIC SAFETY TORCH SYSTEM WITH BUILT-IN ON/OFF CAPABILITY

CTCH-CATVO-04

Light weight Siever-Matic S portable torch kit ideal for installation of low voltage electrical and CATV splice applications. Kit contains ergonomic torch handle, 20,000 BTU/hr soft flame burner and 4 ft hose regulator assembly for 14.1 or 16.4 oz disposable propane cylinders.



CTCH-HSK1-00

Light weight Siever-Matic S portable torch kit ideal for installation of medium and heavy wall heat shrink products. Kit contains ergonomic torch handle, 40,000 BTU/hr soft flame burner. Hose and regulator required; can be purchased separately.



HEAT SHRINK TORCHES AND GUNS

CTCH-1

Torch kit with 1 to 20 inch thread screws directly on to standard 14.1 or 16.4 oz disposable tanks or may be attached to propane hose with adapter. Burns propane or MAPP gas.

ACCESSORIES

CTCH-3334-90:	6,100 BTU/hr hot air burner ideal for low voltage electrical and CATV applications where an open flame is not desirable. This burner can be used with Seiver-Matic S handles in CTCH- CATVO-04 and CTCH- HSK1- 00.
CTCH-3015-04:	4 ft hose regulator assembly for disposable propane cylinder for CTCH- HSK1- 00
CTCH-3062-93:	Adjustable regulator 28-57 psi for refillable P.O.L. propane cylinder
CTCH-1510IS:	10 ft hose with 9/16 - 18 LH treads both ends
CTCH-1525IS:	25 ft hose with 9/16 - 18 LH threads both ends

ELECTRONICALLY CONTROLLED HEAT GUN

CHGN

This ruggedly designed, electronically controlled heat gun is ideal for situations where flame is prohibited. CHGN features a three stage operation with 1500 W output, low noise operation <70 dB (A) providing a continuously variable temperature range of 120 to 1100°F, ample for heat shrinking applications.

UL and CSA Listed





EQUIPMENT INSULATION AND CONNECTION PRODUCTS

Specialty tubing products and kit accessories are used for demanding applications where electrical performance and ease of installation are critical.

Examples of applications in Electrical Switchgear and Power Distribution Equipment include:

- Anti-track tubing and tape for insulating medium voltage bus bar
- Elbow sealing kits for sealing and reinforcing load-break and dead break elbows on medium voltage power cables

CBTM/CBTH

3:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

MEDIUM VOLTAGE CROSS-LINKED POLYOLEFIN BUS BAR TUBING

Medium and heavy wall anti-track heat shrink tubing specifically designed for insulating medium voltage bus bar

FEATURES AND BENEFITS

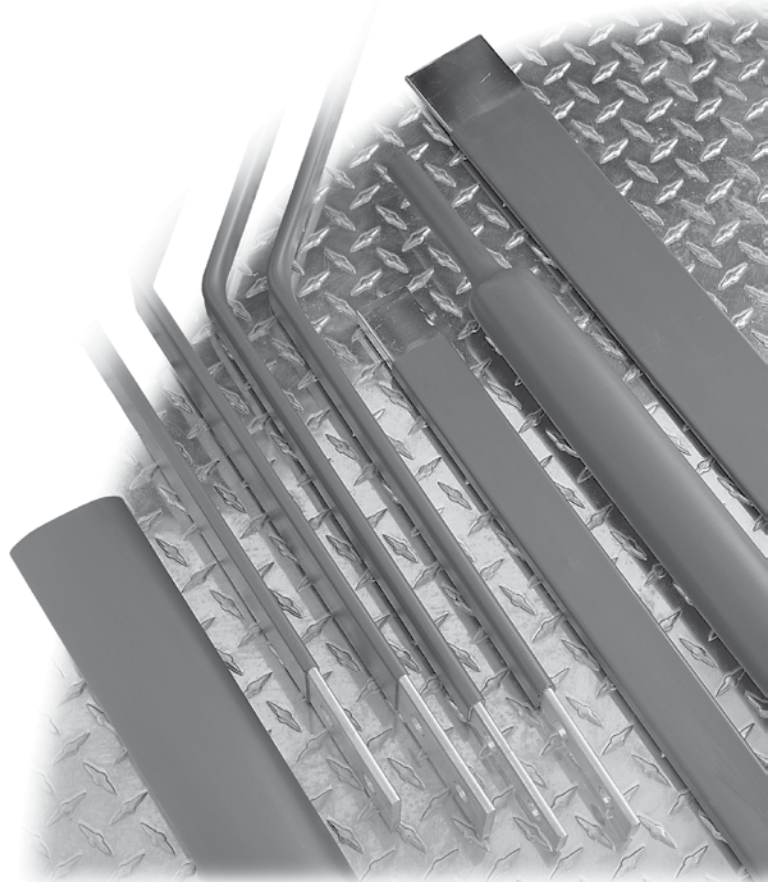
- 3:1 shrink ratio
- Reduces bus bar clearance requirements
- Protects against accidental flashover
- Anti-track
- Halogen free
- CBTM medium wall tubing rated to 25 kV
CBTH heavy wall tubing rated to 36 kV
- Continuous operating temperature: -40°C to 125°C
- Shrink temperature: 120°C

STANDARDS

- Tested to ANSI C37.20.2 standards for medium voltage switchgear applications to 36 kV

TYPICAL APPLICATIONS

- Insulation of medium voltage bus bars in switchgear equipment



MEDIUM VOLTAGE CROSS-LINKED POLYOLEFIN BUS BAR TUBING

CBTM/CBTH

DIMENSIONS

ORDER NUM- BER	EXPANDED				RECOVERED				APPLICATION RANGES							
	INTERNAL DIAMETER MIN D		WALL THICKNESS NOM w		INTERNAL DIAM- ETER MAX d		WALL THICKNESS NOM w		*RECTANGULAR BUS BAR				ROUND BUS BAR			
	MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX	
	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN

CBTM MEDIUM WALL BUS TUBING: FOR SERVICES TO 25 kV ON UNBOLTED BUS BAR

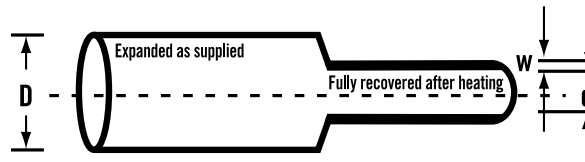
0750	19.0	0.75	1.14	0.045	5.5	0.22	2.70	0.109	6.4	1/4	6.4	1/4	6.8	0.27	15.2	0.60
1300	33.0	1.30	1.14	0.045	10.1	0.40	2.97	0.117	12.7	1/2	28.5	1 1/8	12.4	0.49	27.9	1.10
2050	52.0	2.05	1.14	0.045	19.0	0.75	2.79	0.110	31.5	1 1/4	50.8	2	22.3	0.88	43.1	1.70
2750	69.8	2.75	1.14	0.045	25.4	1.00	2.87	0.115	44.4	1 3/4	76.2	3	29.7	1.17	58.4	2.30
3500	88.9	3.50	1.14	0.045	29.9	1.18	3.09	0.122	57.1	2 1/4	101.6	4	35.8	1.41	73.6	2.90
4700	119.3	4.70	1.14	0.045	39.9	1.57	3.20	0.126	73.0	2 7/8	142.8	5 5/8	47.7	1.88	101.6	4.00
6700	170.1	6.70	1.14	0.045	58.4	2.30	3.17	0.125	114.3	4 1/2	203.2	8	69.5	2.74	144.7	5.70

CBTH HEAVY WALL BUS TUBING: FOR SERVICES TO 36 kV ON UNBOLTED BUS BAR

1100	27.9	1.10	1.67	0.066	8.9	0.35	3.88	0.153	9.5	3/8	12.7	1/2	10.6	0.42	17.7	0.70
2000	50.8	2.00	1.57	0.062	16.0	0.63	4.08	0.161	22.2	7/8	34.9	1 3/8	19.3	0.76	33.0	1.30
2700	68.0	2.68	1.52	0.060	22.1	0.87	4.08	0.161	34.9	1 3/8	50.8	2	26.1	1.05	43.1	1.70
3500	89.9	3.54	1.52	0.060	29.9	1.18	4.08	0.161	50.8	2	76.2	3	35.8	1.41	58.4	2.30
4700	119.9	4.72	1.57	0.062	39.9	1.57	4.19	0.165	69.8	2 3/4	111.1	4 3/8	47.7	1.88	81.2	3.20
6600	167.6	6.60	1.67	0.066	65.0	2.56	4.19	0.165	114.3	4 1/2	177.8	6 1/2	69.5	2.74	124.4	4.90

*Assume rectangular bus bars have 1/4 in thickness on min application ranges and 5/8 in thickness on max application ranges.

Application ranges noted above selected to obtain minimum insulation thickness required to meet ANSI C37.20.2 withstand requirements at bus bar spacing and operating voltages noted. These spacings were determined from a limited number of test configurations. Due to the wide variety of bus bar configurations, these spacings and recovered wall thicknesses should not be employed by the user without actual verification and testing for the intended application.



CLEARANCES WITH INSULATION

SYSTEM VOLT- AGE	BIL	CBTM MEDIUM WALL TUBING				CBTH HEAVY WALL TUBING			
		P TO P		P TO G		P TO P		P TO G	
		MM	IN	MM	IN	MM	IN	MM	IN
15 kV	95	86.0	3.4	106.0	4.2	55.0	2.2	66.0	2.6
25 kV	125	114.0	4.5	152.0	6.0	71.0	2.8	101.0	4.0
36 kV	150	165.0	6.5	203.0	8.0	142.0	5.6	190.0	7.5

P to P: Phase to Phase orientation
P to G: Phase to Ground orientation
Spacing based on metal to metal dimension prior to insulation
Spacing based on insulation wall thickness per application range of above table

ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Please specify the product name, order reference number
- Standard is red, printed, unlined, 50 ft lengths (maximum or 1 splice allowed with minimum length of 15 ft)
- Order Example: CBTM, 1300

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

INSULATE
SEAL
PROTECT

MEDIUM VOLTAGE CROSS-LINKED POLYOLEFIN BUS BAR TAPE

Anti-track, adhesive coated, heat shrink tape specifically designed for insulating and protecting medium voltage bus bar

FEATURES AND BENEFITS

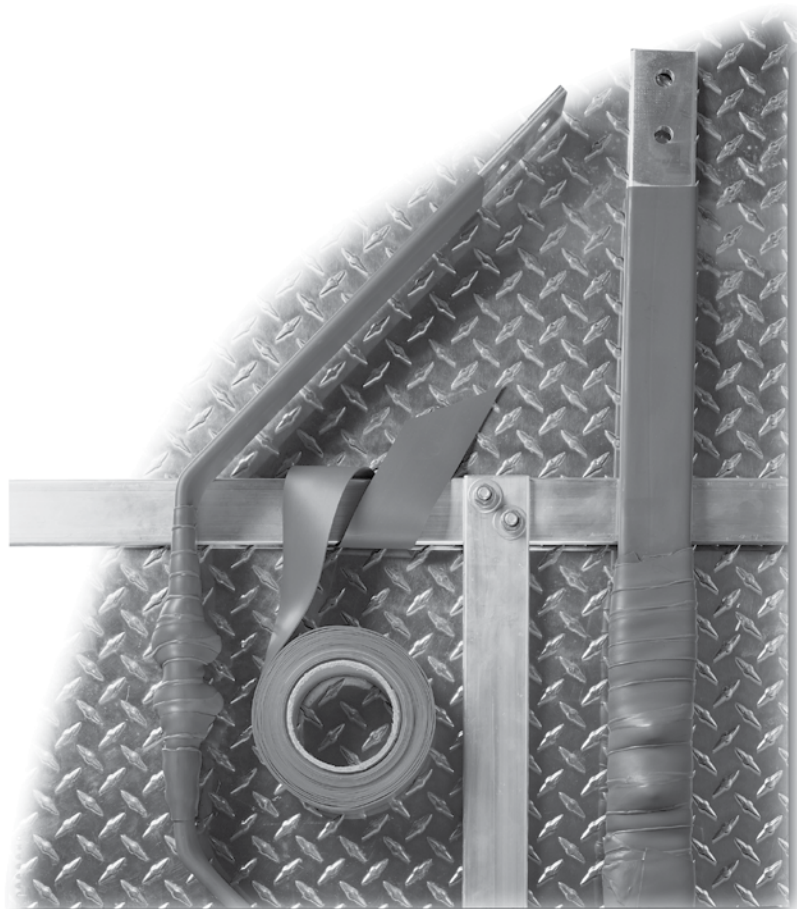
- 1.7:1 shrink ratio
- Reduces bus bar clearance requirements
- Protects against accidental flashover
- Anti-track
- Halogen free
- Continuous operating temperature: -40°C to 90°C
- Shrink temperature: 120°C

STANDARDS

- Tested to ANSI C37.20.2 standards for medium voltage switchgear applications to 25 kV

TYPICAL APPLICATIONS

- Insulation and protection of bus bar joints



MEDIUM VOLTAGE CROSS-LINKED POLYOLEFIN BUS BAR TAPE

CMVBT

DIMENSIONS

ORDER NUMBER	ROLL WIDTH (MIN)		BACKING THICKNESS RECOVERED (NOM)		ROLL LENGTH	
	MM	IN	MM	IN	M	FT

FOR SERVICES TO 25 KV OVER BOLTED BUS BAR

CMVBT-1	25.4	1	1.06	0.042	7.62	25
CMVBT-2	50.8	2	1.06	0.042	7.62	25
CMVBT-4	101.6	4	1.06	0.042	7.62	25

CLEARANCES WITH INSULATION

SYSTEM VOLTAGE	BIL	P TO P		P TO G	
		MM	IN	MM	IN
15	95	64	2.5	74	2.9
17	110	86	3.4	106	4.2
25	125	114	4.5	152	6.0

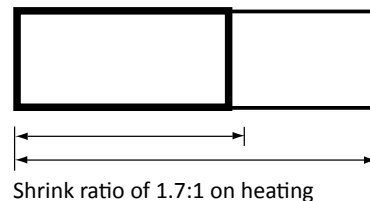
P to P: Phase to Phase orientation

P to G: Phase to Ground orientation

Spacing based on metal to metal dimension prior to insulation

INSTALLATION INSTRUCTIONS

- CMVBT-1 is best for short lengths
- CMVBT-2 is most commonly used and versatile
- CMVBT-4 is used for long lengths
- A 2/3 overlap is recommended
- One layer application required to 17 kV
- Two layer application required to 25 kV



ORDERING

- Select a roll width which will shrink snugly over the component to be covered.
- Standard product is red and supplied in 25 ft rolls
- For each item please specify the product name
- Order Example: CMVBT-1

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

CMTK SERIES



INSULATE
SEAL
PROTECT

MOTOR LEAD TERMINATION KIT

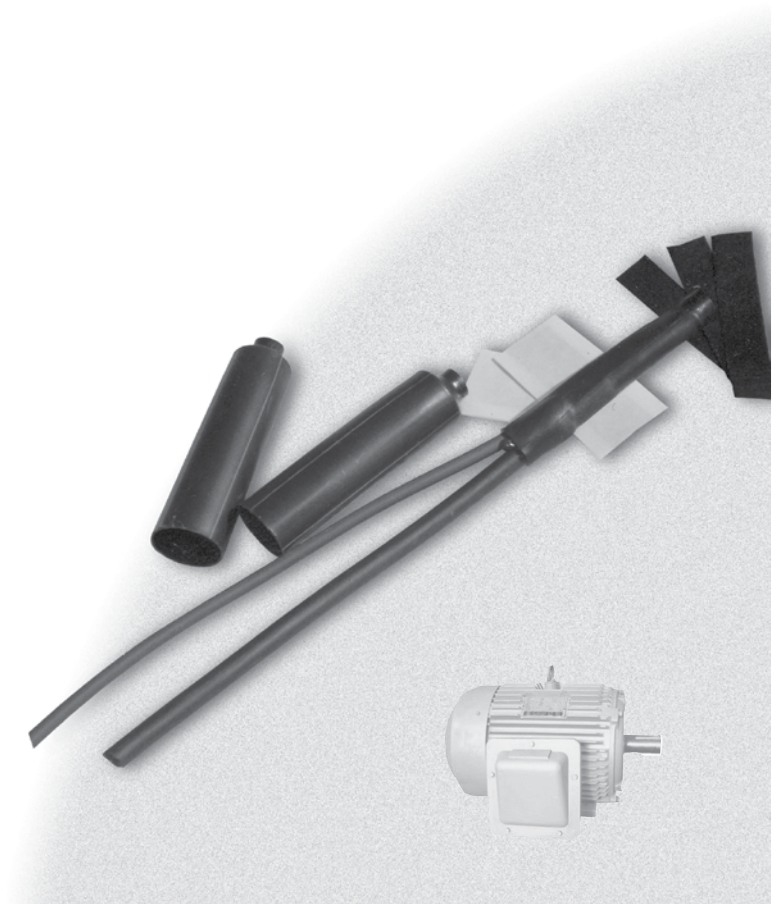
Motor termination kit insulates and protects bolted stub type or in-line type motor lead connections. CMTK 10 series for 600 V motors and CMTK 50 series for 2300 - 4160 V motors

FEATURES AND BENEFITS

- Installs in minutes, reducing labour costs
- Removes in minutes, reducing the time and cost of motor change outs
- Tough, discharge resistant outer covers provide excellent protection from vibration and corona cutting on medium voltage motor connections
- High impact and abrasion resistance provides excellent mechanical protection
- Continuous operating temperature: -55°C to 110°C
- Shrink temperature: 120°C

TYPICAL APPLICATIONS

- Motor connections for polymeric cable



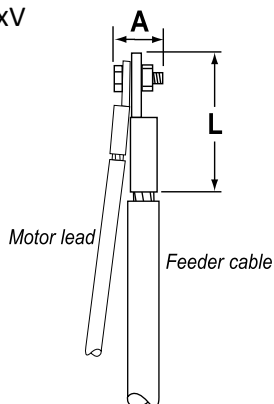
MOTOR LEAD TERMINATION KIT

CMTK SERIES

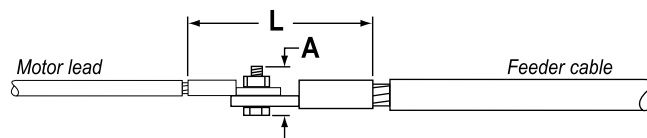
DIMENSIONS

ORDER NUMBER	EXPANDED			
	NORMAL CAP LENGTH	MAXIMUM BOLT "A"	MOTOR FEEDER SIZE	Lug Length Maximum "L"
	IN	IN	AWG/MCM	IN
600 V MOTOR TERMINATION KITS - SINGLE HOLE, V-STUB, STANDARD AND LONG BARREL COMPRESSION LUG				
CMTK-11V	3.5	0.625	#14 - #8	2.0
CMTK-12V	4.0	0.750	#8 - #2	2.5
CMTK-13V	4.5	1.000	#4 - 4/0	3.5
CMTK-14V	8.0	1.500	4/0 - 500	5.5
600 V MOTOR TERMINATION KITS - SINGLE HOLE, IN-LINE, STANDARD AND LONG BARREL COMPRESSION LUG				
CMTK-11L	9.0	1.250	#8 - 4/0	5.0
CMTK-12L	12.0	1.500	250 - 1000	8.0
5 kV MOTOR TERMINATION KITS - SINGLE HOLE, V-STUB, STANDARD AND LONG BARREL COMPRESSION LUG				
CMTK-51V	7.5	1.000	#8 - #2	5.0
CMTK-52V	8.5	1.500	#1 - 250	6.0
CMTK-53V	9.5	1.500	300 - 750	7.0
5 kV MOTOR TERMINATION KITS - SINGLE HOLE, IN-LINE, STANDARD AND LONG BARREL COMPRESSION LUG				
CMTK-51L	9.0	1.250	#8 - 4/0	5.0
CMTK-52L	12.0	1.500	250 - 1000	8.0

STUB TYPE CMTK xxV



IN-LINE TYPE CMTK xxL



ORDERING

- Select the appropriate motor termination kit based on your cable conductor, bolt size and lug length. Check the cable/bolt/lug dimensions to be sure they conform to the selected kit size.
- Each kit includes 3 caps or sleeves, 3 protective tape strips or tubes and 3 pieces of tape sealant.
- Order Example: CMTK-12V (for 600 V rated stub type kit)

Please contact your Customer Service Representative for information on custom kits and material data sheet.

SINGLE WALL PRODUCTS

Single wall heat shrink tubing is used in a variety of applications in the electronics, automotive, military and aerospace sector including:

- Mechanical Protection
- Abrasion Protection
- Strain Relief
- Moisture Ingress Protection
- Cable Insulation
- Marking and Bundling of electronic components

CHM 140

2:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL SEMI-RIGID CROSS-LINKED POLYOLEFIN

Semi-rigid heat shrink tubing for use with automatic feed equipment or other industrial, military/aerospace and commercial applications requiring exceptional strain relief

FEATURES AND BENEFITS

- 2:1 shrink ratio and 2.5:1 shrink ratio
- Exceptional mechanical strength and abrasion resistance
- Semi-rigid
- Flame retardant
- Thicker wall available for additional mechanical protection
- Resistant to acids, alkalis, hydrocarbon solvents and hydraulic fluids
- Continuous operating temperature: -55°C to 135°C
- Shrink temperature: 135°C

STANDARDS

- UL 224 125°C
- CSA C22.2 No. 198.2
- SAE-AMS-DTL-23053/6
- AMS 3638 and 3639

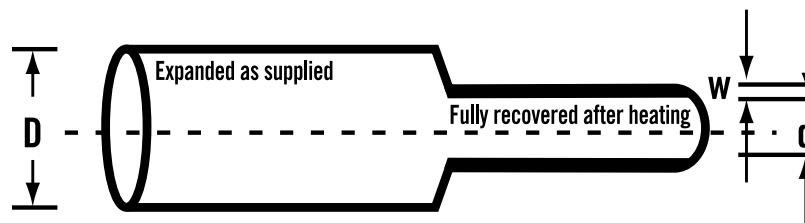
TYPICAL APPLICATIONS

- Physical protection of electronic components
- Strain relief of terminals



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
2:1 SHRINK RATIO (SAE-AMS-DTL-23053/6)								
0046	1.2	3/64	0.60	0.023	0.51	0.020	300	1,000
0063	1.6	1/16	0.79	0.031	0.51	0.020	300	1,000
0093	2.4	3/32	1.20	0.046	0.51	0.020	300	1,000
0125	3.2	1/8	1.59	0.062	0.51	0.020	300	1,000
0187	4.7	3/16	2.36	0.093	0.64	0.025	300	1,000
0250	6.4	1/4	3.18	0.125	0.64	0.025	150	500
0375	9.5	3/8	4.75	0.187	0.76	0.030	150	500
0500	12.7	1/2	6.35	0.250	0.76	0.030	60	200
2.5:1 SHRINK RATIO								
1	6.1	0.240	2.4	0.095	0.81	0.032	cut pieces	cut pieces
2	8.1	0.320	3.2	0.125	0.81	0.032	cut pieces	cut pieces
3	9.5	0.375	3.8	0.150	0.81	0.032	cut pieces	cut pieces
4	12.3	0.485	5.1	0.200	0.81	0.032	cut pieces	cut pieces



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resulting wall thickness will be less than specified.
- Select Options:
 - Color: Black (BK)
 - Lengths: 48 in (1.2 m) continuous reels or cut pieces
- Please specify the product name, order number and options you require.
- Order Example: CHM 140, 0375, black, unprinted, 500 ft reel

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

CPX 100

2:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL CROSS-LINKED POLYOLEFIN

Flexible, multi-purpose heat shrink tubing

FEATURES AND BENEFITS

- 2:1 shrink ratio
- Flame retardant (colors only)
- Resistant to common fluids and solvents
- Economical mechanical protection for terminal strain relief and wire bundling
- Continuous operating temperature: -55°C to 135°C
- Shrink temperature: 90°C

STANDARDS

- UL 224, 125°C (colors only)
- CSA C22.2 No. 198.1, 125°C
- SAE-AMS-DTL-23053/5, Class 1 and 2
- AMS 3636 and 3637
- DEF STAN 59-97 Issue 3, Type 2a

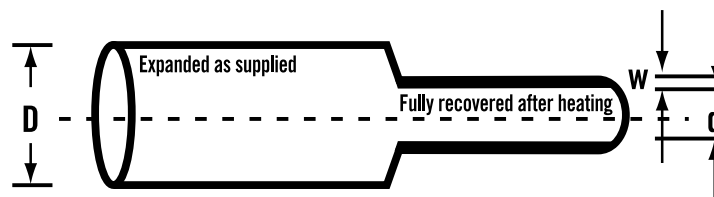
TYPICAL APPLICATIONS

- Electrical insulation of wire splices and terminals
- Strain relief of wire terminations
- Protects components from abrasion and fluids



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
0047	1.2	3/64	0.6	3/128	0.41	0.016	300	1000
0063	1.6	1/16	0.8	1/32	0.43	0.017	300	1000
0094	2.4	3/32	1.2	3/64	0.51	0.020	300	1000
0125	3.2	1/8	1.6	1/16	0.51	0.020	300	1000
0187	4.8	3/16	2.4	3/32	0.51	0.020	300	1000
0250	6.4	1/4	3.2	1/8	0.64	0.025	150	500
0375	9.5	3/8	4.7	3/16	0.64	0.025	150	500
0500	12.7	1/2	6.4	1/4	0.64	0.025	60	200
0625	16.0	5/8	8.0	5/16	0.76	0.030	60	200
0750	19.0	3/4	9.5	3/8	0.76	0.030	30	100
1000	25.4	1	12.7	1/2	0.89	0.035	30	100
1250	32.0	1 ¼	16.0	5/8	0.89	0.035	30	100
1500	38.1	1 ½	19.0	3/4	1.02	0.040	30	100
2000	50.8	2	25.4	1	1.14	0.045	30	100
3000	76.2	3	38.0	1 ½	1.27	0.050	15	50
4000	101.6	4	50.8	2	1.40	0.055	15	50



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK), Red (RD), White (WT), Clear (CL), Blue (BL), Yellow (YL), Green (GR)
 - Length: Standard Stick, Spool or custom length
- Please specify the product name, order number and options you require
- Order Example: CPX 100, 0375, black, 500 ft

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

CPX 201

3:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL CROSS-LINKED POLYOLEFIN

Yellow and green striped heat shrink tubing that is flexible and flame retardant

FEATURES AND BENEFITS

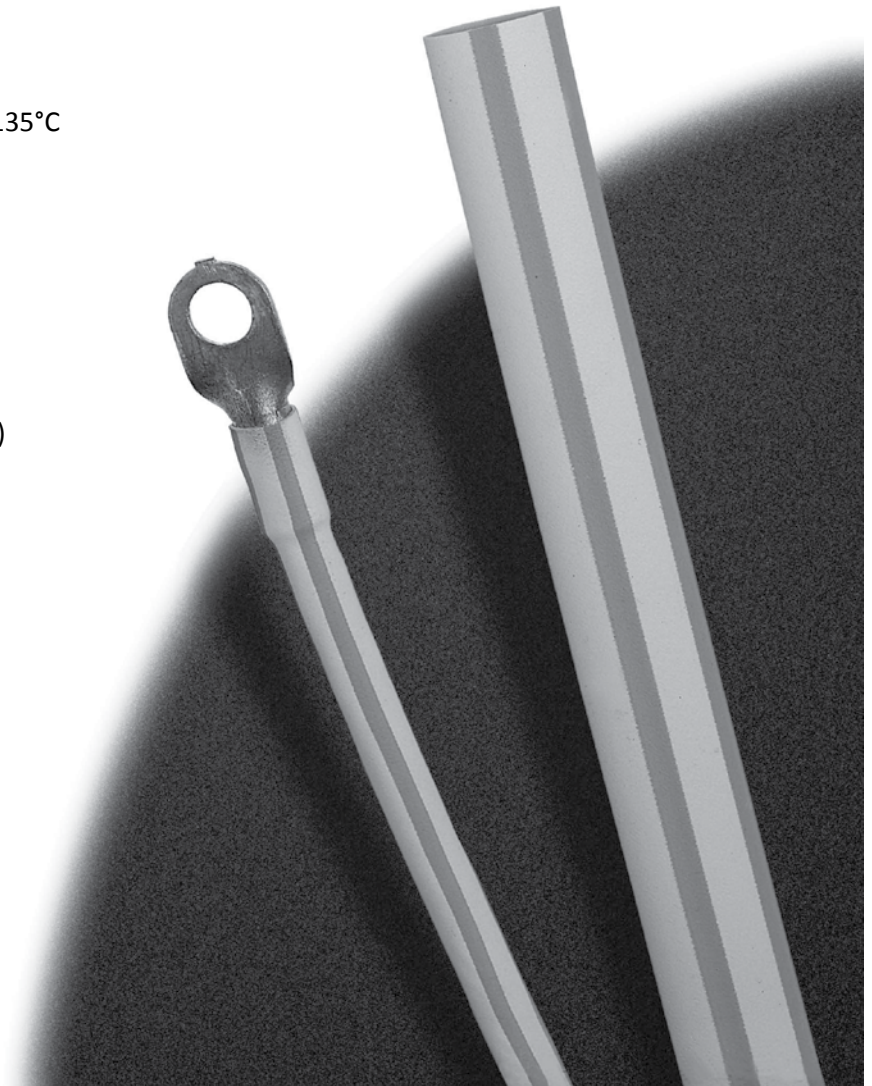
- High shrink ratio: 3:1
- Striped color combination designates international electrical grounding
- Flame retardant
- Resistant to common fluids and solvents
- Flexible
- Continuous operating temperature: -55°C to 135°C
- Shrink temperature: 90°C

STANDARDS

- UL 224, 125°C
- CSA C22.2 No. 198.1, 125°C
- SAE-AMS-DTL-23053/5, Class 1 (material only)
- AMS 3636

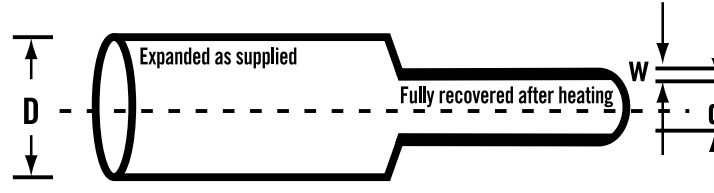
TYPICAL APPLICATIONS

- Identify ground wire and terminals
- Electrical insulation of in-line connections



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
0125	3.2	1/8	1.0	0.039	0.55	0.022	150	500
0187	4.8	3/16	1.5	0.059	0.60	0.024	60	200
0250	6.4	1/4	2.0	0.079	0.65	0.026	150	500
0375	9.5	3/8	3.0	0.118	0.75	0.030	60	200
0500	12.7	1/2	4.0	0.157	0.75	0.030	60	200
0750	19.0	3/4	6.0	0.236	0.85	0.033	30	100
1000	25.4	1	8.0	0.315	1.00	0.039	30	100
1535	39.0	1.50	13.0	0.512	1.15	0.045	30	100



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Yellow/green stripes
 - Printing: Printed or Unprinted
 - Length: Continuous reels
- Please specify the product name, order number and options you require
- Order Example: CPX 201, 0250, yellow/green stripes, unprinted, 500 ft lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

CPX 300

3:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL HIGH SHRINK RATIO CROSS-LINKED POLYOLEFIN

High shrink ratio, flexible heat shrink tubing

FEATURES AND BENEFITS

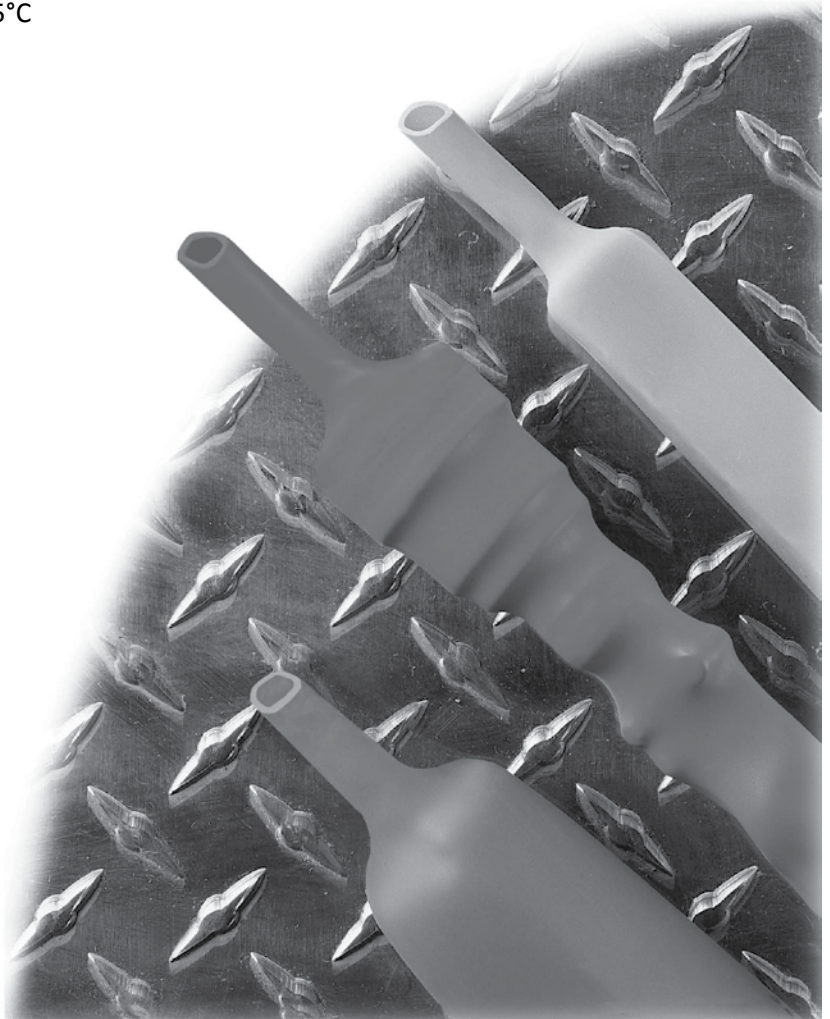
- High shrink ratio (3:1) is ideal for covering irregularly sized objects
- Resistant to common fluids and solvents
- Flame retardant
- Flexible
- Continuous operating temperature: -55°C to 135°C
- Shrink temperature: 90°C

STANDARDS

- UL 224 125°C
- CSA C22.2 No. 198.1 125°C
- SAE-AMS-DTL-23053/5, Class 1 and 2
- DEF STAN 59-97, Issue 3 Type 2a

TYPICAL APPLICATIONS

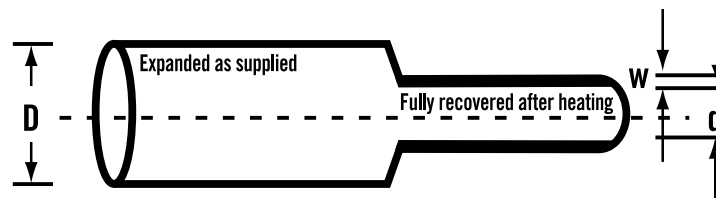
- Electrical insulation of in-line splices
- Strain relief of terminals
- Color coding of electronic components



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
0125	3.2	1/8	1.10	0.042	0.51	0.020	150	492
0187	4.8	3/16	1.60	0.063	0.70	0.020	75	246
0250	6.4	1/4	2.10	0.083	0.66	0.026	75	246
0375	9.5	3/8	3.20	0.125	0.76	0.030	75	246
0500	12.7	1/2	4.20	0.165	0.76	0.030	50	164
0750	19.1	3/4	6.40	0.250	0.84	0.033	30	98
1000	25.4	1	8.50	0.333	0.99	0.039	30	98
1500	38.1	1½	12.70	0.500	1.14	0.045	30	98

* Spool lengths are for black only



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK), Red (RD), White (WT), Blue (BL), Yellow (YL), Green (GR)
 - Printing: Printed or Unprinted
 - Length: Continuous reels
- Please specify the product name, order number and options you require
- Order Example: CPX 300, 0375, black, unprinted, 246 ft lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

CPX 876

2:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL HIGHLY FLAME RETARDANT CROSS-LINKED POLYOLEFIN

Flexible, highly flame retardant heat shrink tubing, UL VW-1 rated

FEATURES AND BENEFITS

- 2:1 shrink ratio
- Highly flame retardant for use in consumer products
- Low shrink temperature reduces risk of damage to electronic components
- Flexible
- Resistant to common fluids and solvents
- Printable
- Continuous operating temperature: -55°C to 135°C
- Shrink temperature: 85°C

STANDARDS

- UL 224 125°C VW-1
- CSA C22.2 No. 198.1 125°C OFT
- SAE-AMS-DTL-23053/5, Class 1 & 3
- DEF STAN 59-97, Issue 3 Type 1a

TYPICAL APPLICATIONS

- Strain relief of wire connections
- Insulation of in-line splices
- Protection and bundling of small harnesses

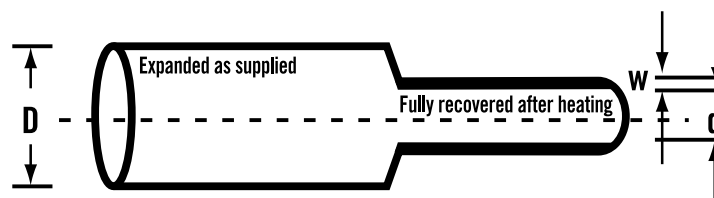


THIN WALL HIGHLY FLAME RETARDANT CROSS-LINKED POLYOLEFIN

CPX 876

DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
0047	1.2	3/64	0.6	3/128	0.45	0.018	300	1,000
0062	1.6	1/16	0.8	1/32	0.45	0.018	300	1,000
0093	2.4	3/32	1.2	3/64	0.51	0.020	300	1,000
0125	3.2	1/8	1.6	1/16	0.51	0.020	300	1,000
0187	4.8	3/16	2.4	3/32	0.51	0.020	300	1,000
0250	6.4	1/4	3.2	1/8	0.64	0.025	150	500
0375	9.5	3/8	4.8	3/16	0.64	0.025	150	500
0500	12.7	1/2	6.4	1/4	0.64	0.025	60	200
0625	16.0	5/8	8.0	5/16	0.64	0.030	60	200
0750	19.0	3/4	9.5	3/8	0.76	0.030	30	100
1000	25.4	1	12.7	1/2	0.89	0.035	30	100
1250	32.0	1¼	16.0	5/8	0.89	0.040	30	100
1500	38.1	1½	19.0	3/4	1.02	0.040	30	100
2000	50.8	2	25.4	1	1.14	0.060	30	100
3000	76.2	3	38.1	1½	1.27	0.060	15	50
4000	101.6	4	50.8	2	1.40	0.060	15	50



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK), Red (RD), White (WT), Blue (BL), Yellow (YL), Green (GR)
 - Printing: Printed or Unprinted
 - Length: Continuous reels
- Please specify the product name, order number and options you require
- Order Example: CPX 876, 0125, black, unprinted, 1,000 ft lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

CZT 200

2:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL HALOGEN FREE CROSS-LINKED POLYOLEFIN

Zero Halogen heat shrink tubing for use in contained areas including underground transportation systems, shipboard, offshore, military and aerospace applications

FEATURES AND BENEFITS

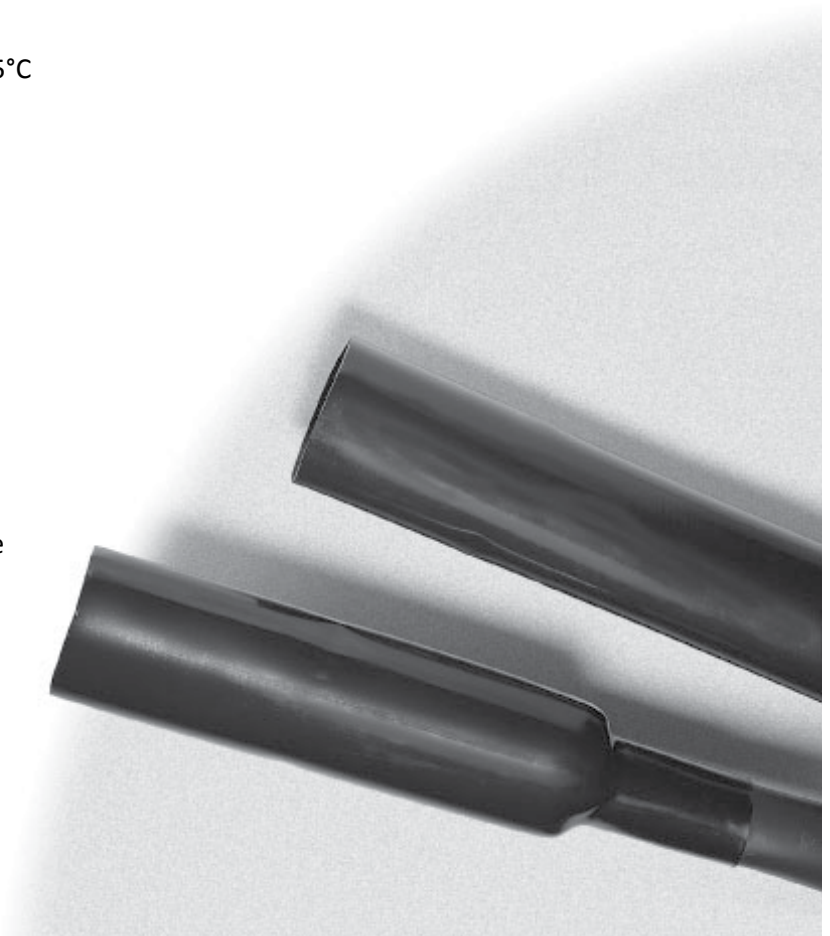
- 2:1 shrink ratio
- Low smoke generation - excellent fire safety characteristics
- Flexible
- Flame retardant
- Good fluid resistance
- Abrasion resistant
- Continuous operating temperature: -40°C to 105°C
- Shrink temperature: 115°C

STANDARDS

- DEF STAN 59-97 Issue 3 Type 8

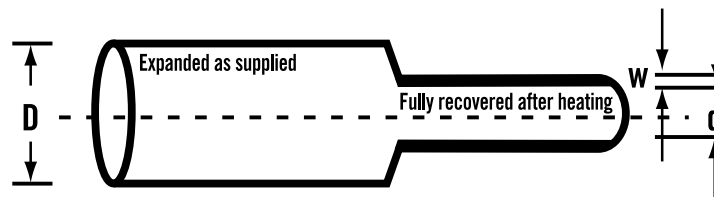
TYPICAL APPLICATIONS

- Insulation of electrical components in transit applications
- Mechanical and environmental protection in the marine industry
- General fire safety applications



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
0062	1.6	1/16	0.8	1/32	0.45	0.018	300	984
0094	2.4	3/32	1.2	3/64	0.51	0.020	300	984
0125	3.2	1/8	1.6	1/16	0.51	0.020	300	984
0187	4.8	3/16	2.4	3/32	0.51	0.020	300	984
0250	6.4	1/4	3.2	1/8	0.64	0.025	300	984
0375	9.5	3/8	4.8	3/16	0.64	0.025	150	492
0500	12.7	1/2	6.4	1/4	0.64	0.025	100	328
0625	16.0	5/8	8.0	5/16	0.64	0.025	100	328
0750	19.0	3/4	9.5	3/8	0.76	0.030	50	164
1000	25.4	1	12.7	1/2	0.89	0.035	50	164
1250	32.0	1¼	16.0	5/8	0.89	0.035	50	164
1500	38.1	1½	19.0	3/4	1.02	0.040	50	164
2000	50.8	2	25.4	1	1.14	0.045	50	164
3000	76.2	3	38.1	1½	1.27	0.050	25	82
4000	101.6	4	50.8	2	1.40	0.055	25	82



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK), Yellow (YL), White (WT)
 - Printing: Printed or Unprinted
 - Length: Continuous reels
- Please specify the product name, order number and options you require
- Order Example: CZT 200, 0125, black, unprinted, 984 ft length

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

INSULATE
SEAL
PROTECT

ULTRA THIN WALL CROSS-LINKED POLYOLEFIN

Ultra thin wall, extremely flexible polyolefin heat shrink tubing designed for applications requiring extreme flexibility, quick shrink times and a thinner profile in space limited applications

FEATURES AND BENEFITS

- >2:1 shrink ratio
- Ultra thin wall, flame retardant
- Ideal for space limited applications
- Thin wall provides quick shrinkage and allows tubing to conform better to the substrate
- Extremely flexible
- Continuous operating temperature: -55°C to 135°C
- Shrink temperature: 90°C

STANDARDS

- Meets ASTM D2671 flammability resistance requirements

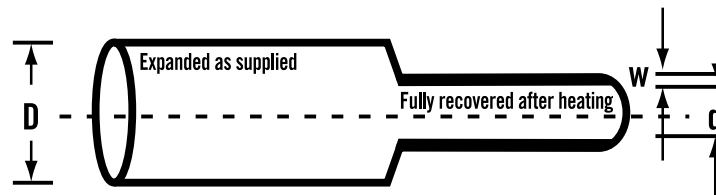
TYPICAL APPLICATIONS

- Insulates and protects electronic components
- Strain relief on connectors



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
0098	2.5	0.098	0.8	.0314	0.30	0.012	300	984
0157	4.0	0.157	1.6	.0629	0.30	0.012	300	984
0220	5.6	0.220	2.4	.0944	0.30	0.012	300	984
0318	8.1	0.318	3.2	.1259	0.35	0.014	150	492
0433	11.0	0.433	4.8	.1889	0.35	0.014	150	492
0590	15.0	0.590	6.4	.2519	0.35	0.014	100	328
0787	20.0	0.787	9.5	.3740	0.45	0.018	50	164
1023	26.0	1.023	12.7	.5000	0.50	0.020	50	164



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Clear (standard), Black (on request)
 - Printing: Printed or Unprinted
 - Length: Continuous reels
- Please specify the product name, order number and options you require
- Order Example: DERAY® ITW, 0157, black, unprinted, 984 ft length

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

DERAY[®] LSB

2:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL CROSS-LINKED POLYOLEFIN

Low shrink temperature heat shrink tubing ideal for covering sensitive electronic components

FEATURES AND BENEFITS

- 2:1 shrink ratio
- Very flexible
- Low shrink temperature allows for physical protection of heat sensitive components
- Continuous operating temperature: -45°C to 125°C
- Shrink temperature: 70°C

STANDARDS

- Meets requirements of FMVSS 302

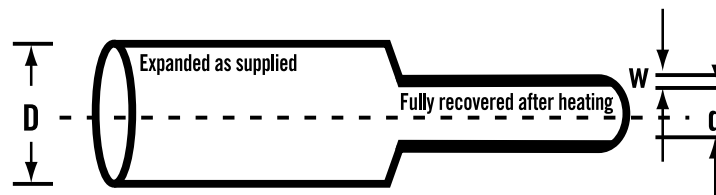
TYPICAL APPLICATIONS

- Protection of heat sensitive devices
- Insulation of electrical terminations



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
0125	3.2	1/8	1.6	1/16	0.50	0.020	400	1,312
0187	4.8	3/16	2.4	3/32	0.50	0.020	300	984
0250	6.4	1/4	3.2	1/8	0.60	0.024	300	984
0375	9.5	3/8	4.8	3/16	0.60	0.024	150	492
0500	12.7	1/2	6.4	1/4	0.60	0.024	100	328
0750	19.0	3/4	9.5	3/8	0.80	0.032	50	164
1000	25.4	1	12.7	1/2	0.90	0.035	50	164
1200	31.8	1¼	15.9	5/8	0.90	0.035	50	164
1500	38.0	1½	19.0	3/4	0.90	0.035	50	164
2000	51.0	2	25.4	1	1.00	0.039	50	164



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK)
 - Printing: Printed or Unprinted
- Please specify the product name, order number and options you require
- Order Example: DERAY[®] LSB, 0095, black, unprinted, 492 ft lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.



DUAL WALL PRODUCTS

DSG-Canusa offers a wide range of dual wall, adhesive lined products for the automotive, electronics and military/aerospace industries. The available combinations of jacket materials and adhesives allows selection of the right heat shrink tubing for the application and environmental conditions.

Typical applications include:

- In-line Splicing
- Terminal Sealing
- Strain Relief
- Mechanical Protection
- Connector/Terminal Sealing

CPA 100

3:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL ADHESIVE LINED CROSS-LINKED POLYOLEFIN

Adhesive lined heat shrink tubing with environmental sealing capability ideal for a variety of applications including automotive and marine wire harness bundles, industrial splices, breakouts and connector to cable transitions

FEATURES AND BENEFITS

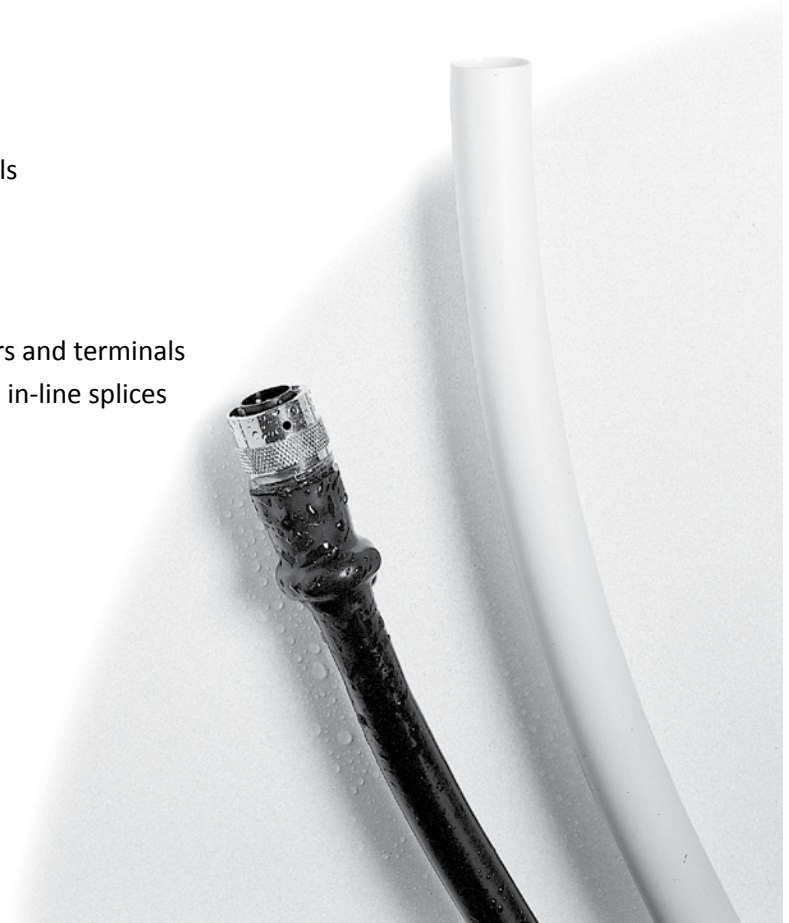
- 3:1 shrink ratio
- Superior sealing against water, moisture or other contaminants
- High shrink ratio allows for coverage of irregularly shaped connectors and components
- Inner adhesive bonds to plastics, rubber, neoprene, steel and polyethylene
- Continuous operating temperature: -55°C to 110°C
- Shrink temperature: 90°C

STANDARDS

- Industrial, electronic and automotive OEM approvals

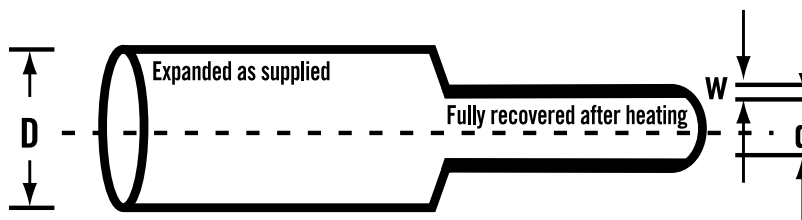
TYPICAL APPLICATIONS

- Environmental sealing and strain relief of connectors and terminals
- Moisture sealing and electrical insulation of simple in-line splices
- Abrasion resistance for tubes and pipes



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED						LENGTHS (STICKS)	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		TOTAL WALL THICKNESS (NOM) W		MELTABLE WALL THICKNESS (NOM)			
	MM	IN	MM	IN	MM	IN	MM	IN	M	IN
0125	3.2	1/8	1.0	0.040	1.0	0.040	0.5	0.020	1.2	48
0187	4.7	3/16	1.5	0.060	1.0	0.040	0.5	0.020	1.2	48
0250	6.4	1/4	2.0	0.080	1.0	0.040	0.5	0.020	1.2	48
0312	7.9	5/16	2.5	0.100	1.3	0.050	0.7	0.027	1.2	48
0375	9.5	3/8	3.2	0.125	1.5	0.060	0.7	0.027	1.2	48
0500	12.7	1/2	4.1	0.160	1.8	0.070	0.8	0.030	1.2	48
0750	19.1	3/4	6.4	0.250	1.8	0.070	0.8	0.030	1.2	48
1000	25.4	1	8.1	0.320	2.5	0.100	1.0	0.040	1.2	48
1250	31.8	1¼	10.6	0.416	2.5	0.100	1.0	0.040	1.2	48
1500	39.9	1½	13.0	0.510	2.5	0.100	1.0	0.040	1.2	48



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK), Red (RD), Clear (CL), Blue (BL), White (WT), Yellow (YW)
 - Length: Standard Stick, Spool or custom length
- Please specify the product name, order number and options you require
- Order Example: CPA 100, 0125, black, 48 in lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

CPA 300

3:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL ADHESIVE LINED CROSS-LINKED POLYOLEFIN

Adhesive lined heat shrink tubing ideal for applications where both exceptional flame retardancy and environmental sealing capabilities are required

FEATURES AND BENEFITS

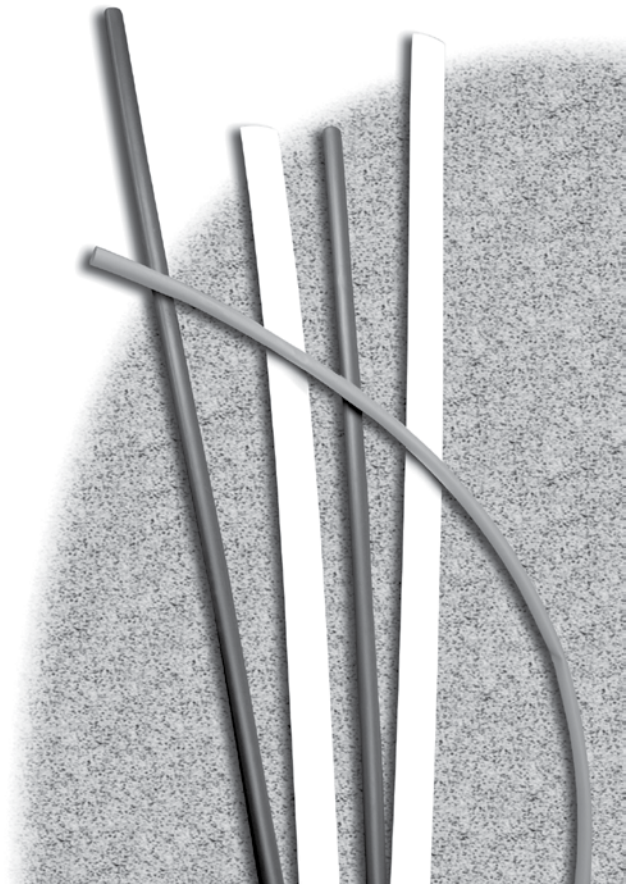
- 3:1 shrink ratio
- Highly flame retardant
- High shrink ratio allows for coverage of irregularly shaped connectors and components
- Adhesive liner bonds to plastics, rubber, neoprene, steel and polyethylene
- Superior sealing against water, moisture and other contaminants
- Superior protection for ring terminals without excessive adhesive flow
- Continuous operating temperature: -55°C to 125°C
- Shrink temperature: 120°C

STANDARDS

- UL 224, 125°C
- CSA C22.2 No.198.1 125°C
- SAE-AMS-DTL-23053/4, Class 3
- Automotive OEM Approvals

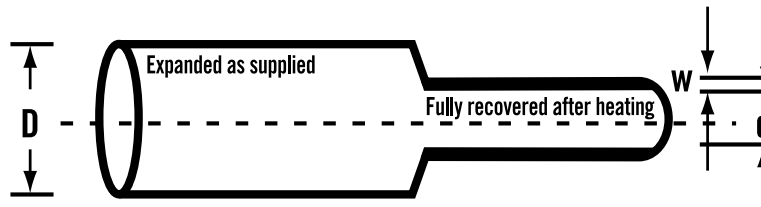
TYPICAL APPLICATIONS

- Environmental sealing of simple in-line splices
- Strain relief and sealing of connectors and terminals
- Mechanical protection of components



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED						LENGTHS (STICKS)	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		TOTAL WALL THICKNESS (NOM) W		MELTABLE WALL THICKNESS (NOM)			
	MM	IN	MM	IN	MM	IN	MM	IN	M	IN
0125	3.2	1/8	1.0	0.040	1.0	0.040	0.5	0.020	1.2	48
0187	4.7	3/16	1.5	0.060	1.0	0.040	0.5	0.020	1.2	48
0250	6.4	1/4	2.0	0.080	1.0	0.040	0.5	0.020	1.2	48
0375	9.5	3/8	3.2	0.125	1.5	0.060	0.7	0.027	1.2	48
0500	12.7	1/2	4.1	0.160	1.8	0.070	0.8	0.030	1.2	48
0750	19.1	3/4	6.4	0.250	1.8	0.070	0.8	0.030	1.2	48
1000	25.4	1	8.1	0.320	2.5	0.100	1.0	0.040	1.2	48
1250	31.8	1¼	10.6	0.416	2.5	0.100	1.0	0.040	1.2	48
1500	39.9	1½	13.0	0.510	2.5	0.100	1.0	0.040	1.2	48



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK), White (WT), Red (RD)
- Please specify the product name, order number and options you require
- Order Example: CPA 300, 0125, black, 48 in lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

CWWT 450

4:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL ADHESIVE LINED CROSS-LINKED POLYOLEFIN

Water clear, adhesive lined, heat shrink tubing specifically designed for water well pump applications. Provides excellent clarity on recovery while insulating and protecting electrical connections

FEATURES AND BENEFITS

- 4:1 shrink ratio
- High shrink ratio allows for a wide range of diameters
- Allows for the examination of substrate wiring
- Adhesive lined for a water tight seal
- Flexible
- Continuous operating temperature: -55°C to 110°C
- Shrink temperature: 120°C

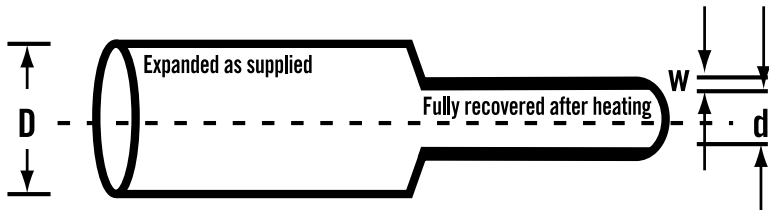
TYPICAL APPLICATIONS

- Environmental protection and insulation of electrical connections
- See-through over protection of labels and printing
- Irrigation and landscape lighting systems



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		TOTAL WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	MM	IN
0400	10.5	0.413	2.6	0.102	1.1	0.043	76.2	3



ORDERING

- Select options:
 - Color: Clear (CL)
- Please specify the product name, order number and options you require
- Order Example: CWWT 450, 0400, clear

Please contact your Customer Service Representative for information on custom sizes, lengths and material data sheet.

All information contained in this data sheet is believed to be reliable. We advise, however, that customers should separately evaluate the suitability of our products for their particular application. DSG-Canusa and ShawCor give no guarantees in respect of the accuracy or sufficiency of the information presented and disclaim any liability regarding its use. Our responsibilities are only those listed in our Standard Terms and Conditions of Sale for these products. In no instance will we be liable for any eventual, indirect or consequential damage or damages arising from the sale, resale, transfer, use or misuse of the product.

INSULATE
SEAL
PROTECT

THIN WALL ADHESIVE LINED CROSS-LINKED SEMI-RIGID POLYOLEFIN

Semi-rigid, adhesive lined, heat shrink tubing ideal for higher temperature applications and where strain relief or abrasion resistance is required

FEATURES AND BENEFITS

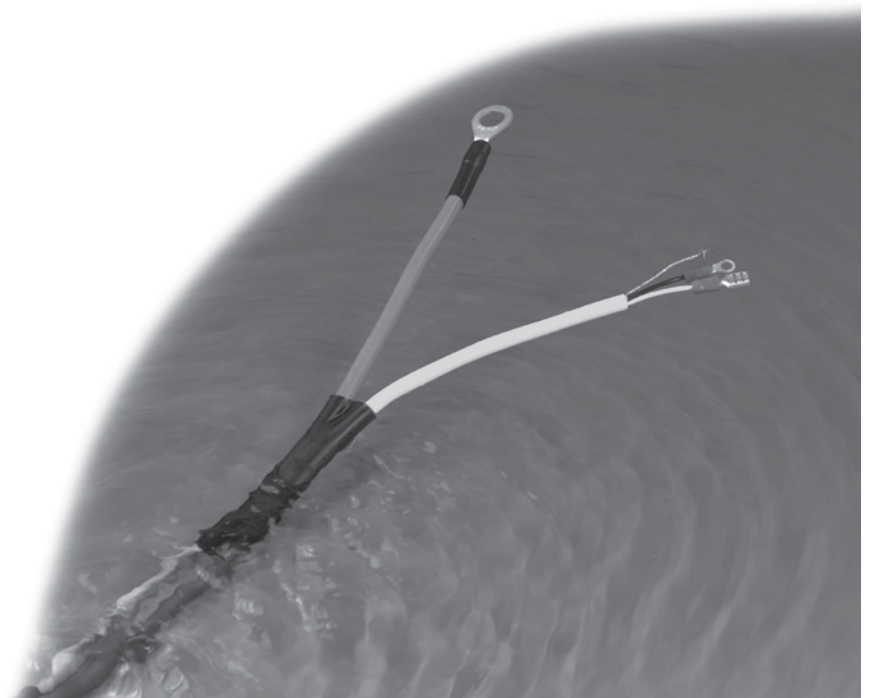
- >2:1 shrink ratio
- Thick adhesive liner ensures complete environmental protection
- Semi-rigid jacket for excellent strain relief
- Seals against water and other contaminants
- Inner adhesive bonds to plastics, rubbers and metals
- Controlled adhesive viscosity prevents excessive flow on terminals
- Continuous operating temperature: -55°C to 110°C
- Shrink temperature: 110°C

STANDARDS

- Industrial and Automotive OEM Approvals

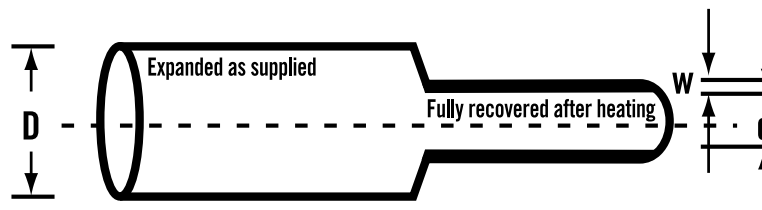
TYPICAL APPLICATIONS

- Strain relief and sealing of terminals
- Corrosion protection of high temperature components and brazed joints
- Mechanical protection of wire leads



DIMENSIONS

ORDER NUM- BER	EXPANDED		RECOVERED						LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		TOTAL WALL THICKNESS (NOM) W		MELTABLE WALL THICKNESS (NOM)			
	MM	IN	MM	IN	MM	IN	MM	IN	M	FT
0125	3.2	1/8	0.8	0.031	0.90	0.035	0.40	0.016	1.2	4
0187	4.8	3/16	1.5	0.059	1.40	0.055	0.80	0.032	1.2	4
0250	6.4	1/4	2.0	0.079	1.40	0.055	0.75	0.030	1.2	4
0375	9.5	3/8	3.4	0.134	1.65	0.065	1.00	0.039	1.2	4
0500	12.7	1/2	5.0	0.196	1.70	0.066	1.00	0.039	1.2	4
0750	19.0	3/4	8.0	0.315	1.95	0.076	1.20	0.047	1.2	4
1000	25.4	1	10.2	0.401	2.00	0.078	1.20	0.047	1.2	4



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK)
 - Printing: Printed or Unprinted
 - Length: Standard stick, spool or custom cut length
- Please specify the product name, order number and options you require
- Order Example: DERAY® HXKT, 0187, black, unprinted, 4 ft (1.2 m) lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

INSULATE
SEAL
PROTECT

THIN WALL ADHESIVE LINED CROSS-LINKED POLYOLEFIN

Flexible heat shrink tubing with a temperature resistant polyamide adhesive inner lining. Ideal for protecting components in a wide range of electrical and mechanical applications where adhesion to connector and metal substrates is critical

FEATURES AND BENEFITS

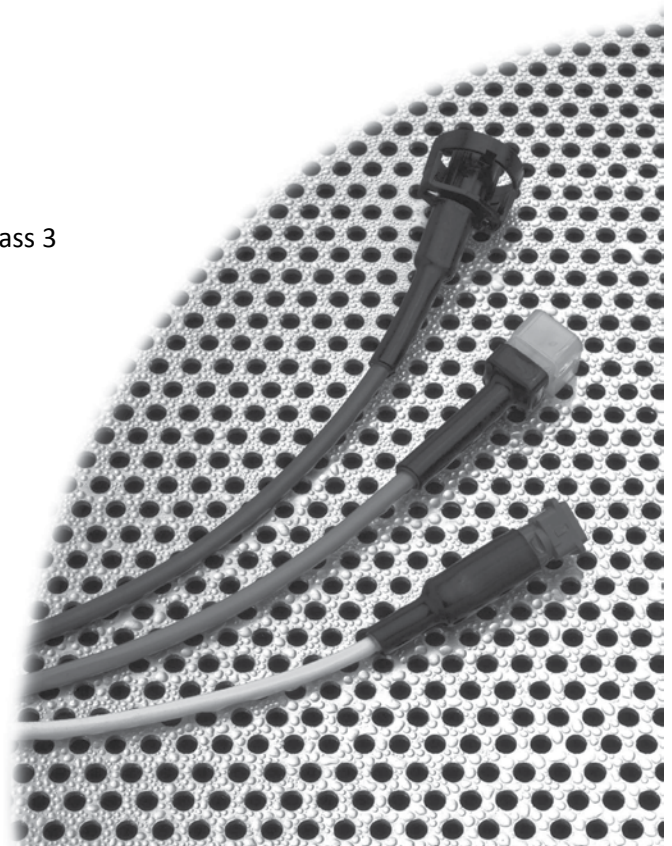
- 4:1 shrink ratio allows for coverage of irregularly shaped connectors and components
- Flame retardant
- Specially designed polyamide adhesive protects components at higher temperatures
- Superior sealing against water and other contaminants
- Inner adhesive bonds to plastics, rubbers and metals
- Continuous operating temperature: -55°C to 125°C
- Shrink temperature: 100°C

STANDARDS

- Meets the material performance of SAE-AMS-DTL-23053/4 Class 3
- Automotive OEM approvals

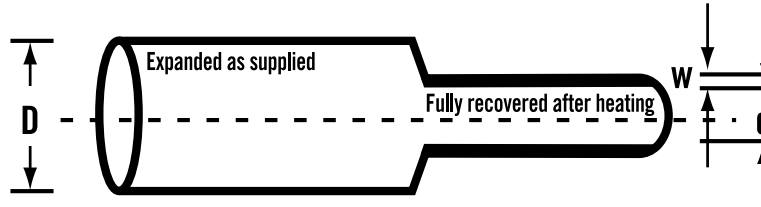
TYPICAL APPLICATIONS

- Retrofit protection of connectors
- Repair of damaged wire harnesses
- Moisture sealing and strain relief at connectors and terminals



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED						LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) D		TOTAL WALL THICKNESS (NOM) W		ADHESIVE WALL THICKNESS (NOM)			
	MM	IN	MM	IN	MM	IN	MM	IN	M	FT
0157	4.0	0.157	1.0	0.039	1.00	0.039	0.40	0.016	300	984
0315	8.0	0.315	2.0	0.080	1.20	0.045	0.40	0.016	150	492
0472	12.0	0.472	3.0	0.118	1.40	0.055	0.40	0.016	100	328
0630	16.0	0.630	4.0	0.160	1.70	0.066	0.60	0.023	50	164
0945	24.0	0.945	6.0	0.240	2.10	0.083	0.60	0.023	50	164
1260	32.0	1.260	8.0	0.315	2.40	0.094	0.70	0.027	50	164
2047	52.0	2.047	13.0	0.512	2.40	0.094	0.70	0.027	30	98



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select Options:
 - Color: Black (BK) or Clear (CL)
- Please specify the product name plus the options you require
- Order Example: DERAY® IHKT, 0157, black, 984 ft lengths

Please contact your Customer Service Representative for information on custom colors, sizes and lengths and material data sheet.

DERAY[®] CRIMPSEAL II

3:1
SHRINK RATIO

INSULATE
SEAL
PROTECT

HEAT SHRINK INSULATED CONNECTORS

Crystal clear, semi-rigid, adhesive lined tubing with integral solderless splice connector

FEATURES AND BENEFITS

- Exceptional clarity for visual confirmation of seal
- Seals & protects against water, corrosive compounds, moisture & contaminants
- Tough, durable heat shrink tubing resists abrasion, crimp tool damage & splitting
- Shinks 40% faster than nylon, preventing wire damage
- Inner adhesive bonds to plastics, rubbers & metals
- Meets & conforms to OEM wiring specifications for installation & repairs
- Continuous operating temperature: -55 to 125°C
- 90°C minimum shrinking temperature

TYPICAL APPLICATIONS

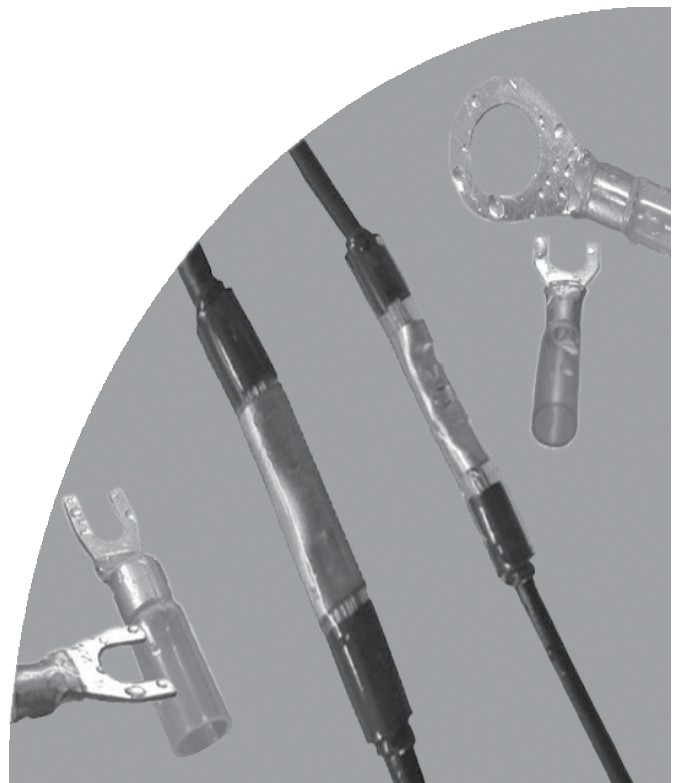
- Wire to Wire splicing
- Environmental protection for crimp-connections & terminals
- Automotive / trucking repair and maintenance
- Commercial, electronics & appliance wiring
- Marine electronics & fleet maintenance

MATERIALS

- Insulation tube:
Cross-linked ionic polymer with a hot melt adhesive liner
- Metal Connector:
CU 99.9% per EN 13600
Tin Plate 5 micron min

ORDERING

- Determine the wire gauge size that you require
- Select the most appropriate connector for your application
- Please specify the product by: name, insulation color & code
Order example:
Deray[®] CrimpSeal II, butt connector, 22-18AWG, red, 75122180000L38



DERAY® CRIMPSEAL II

ORDER REFERENCE / CONNECTOR TYPE			SIZE		STUD SIZE		TUBE DIAMETER (Ø)		TUBE LENGTH	TUBE EXP WALL THICKNESS
	COLOR	CODE	AWG	MM²	IN	MM	EXPANDED (MM) NOMINAL	RECOVERED (MM) NOMINAL	(L MM)	(MM) NOMINAL

BUTT CONNECTOR



Clear	75128220000L25	28-22	0.1 – 0.5	N/A	3.7	1.0	31±0.25	0.635
Red	75122180000L38	22-18	0.5-1.5	N/A	4.3	1.4	38±0.25	0.740
Blue	75116140000L38	16-14	1.5-2.5	N/A	5.0	1.8	38±0.25	0.740
Yellow	75112100000L44	12-10	4-6	N/A	6.5	2.2	44±0.25	0.740

RING CONNECTOR



Red	75222180157L25	22-18	0.5 – 1.5	#8	4	4.3	1.4	25±.025	0.635
Red	75222180197L25	22-18	0.5 – 1.5	#10	5	4.3	1.4	25±.025	0.635
Red	75222180250L25	22-18	0.5 – 1.5	1/4	6	4.3	1.4	25±.025	0.635
Red	75222180313L25	22-18	0.5 – 1.5	5/16	8	4.3	1.4	25±.025	0.635
Red	75222180375L25	22-18	0.5 – 1.5	3/8	10	4.3	1.4	25±.025	0.635
Blue	75216140157L25	16-14	1.5-2.5	#8	4	5.0	1.8	25±.025	0.740
Blue	75216140197L25	16-14	1.5-2.5	#10	5	5.0	1.8	25±.025	0.740
Blue	75216140250L25	16-14	1.5-2.5	1/4	6	5.0	1.8	25±.025	0.740
Blue	75216140313L25	16-14	1.5-2.5	5/16	8	5.0	1.8	25±.025	0.740
Blue	75216140375L25	16-14	1.5-2.5	3/8	10	5.0	1.8	25±.025	0.740
Yellow	75212100157L25	12-10	4-6	#8	4	6.5	2.2	25±.025	0.740
Yellow	75212100197L25	12-10	4-6	#10	5	6.5	2.2	25±.025	0.740
Yellow	75212100250L25	12-10	4-6	1/4	6	6.5	2.2	25±.025	0.740
Yellow	75212100313L25	12-10	4-6	5/16	8	6.5	2.2	25±.025	0.740
Yellow	75212100375L25	12-10	4-6	3/8	10	6.5	2.2	25±.025	0.740

SPADE CONNECTOR



Red	75322180157L25	22-18	0.5 – 1.5	#8	4	4.3	1.4	25±.025	0.58
Red	75322180197L25	22-18	0.5 – 1.5	#10	5	4.3	1.4	25±.025	0.58
Blue	75316140157L25	16-14	1.5-2.5	#8	4	5.0	1.8	25±.025	0.740
Blue	75316140197L25	16-14	1.5-2.5	#10	5	5.0	1.8	25±.025	0.740
Yellow	75312100157L25	12-10	4-6	#8	4	6.5	2.2	25±.025	0.740
Yellow	75312100197L25	12-10	4-6	#10	5	6.5	2.2	25±.025	0.740

QUICK DISCONNECT (MALE)



Red	75422180000L25	22-18	0.5 – 1.5	N/A	6.3 x 0.8	4.3	1.4	25±.025	0.740
Blue	75416140000L25	16-14	1.5-2.5	N/A	6.3 x 0.8	5.0	1.8	25±.025	0.740
Yellow	75412100000L25	12-10	4-6	N/A	6.3 x 0.8	6.5	2.2	25±.025	0.740

QUICK DISCONNECT (FEMALE)



Red	75522180000L25	22-18	0.5 – 1.5	N/A	6.3 x 0.8	4.3	1.4	25±.025	0.58
Blue	75516140000L25	16-14	1.5-2.5	N/A	6.3 x 0.8	5.0	1.8	25±.025	0.740
Yellow	75512100000L25	12-10	4-6	N/A	6.3 x 0.8	6.5	2.2	25±.025	0.740

APPLICATION NOTES

- Strip wires min 7.5 mm & insert into the crimp barrel. Crimp with a DSG-Canusa (or equivalent) hand tool.
- Heat the shrink tube along the entire length, working from the centre out to the edges until a water tight seal is formed.
- Allow to cool before inspection for splice integrity.
- All splice assemblies will conform to most OEM & repair requirements and specifications.

Please contact your Customer Service Representative for information on custom sizes, lengths and material data sheet.

All information contained in this data sheet is believed to be reliable. We advise, however, that customers should separately evaluate the suitability of our products for their particular application. DSG-Canusa and ShawCor give no guarantees in respect of the accuracy or sufficiency of the information presented and disclaim any liability regarding its use. Our responsibilities are only those listed in our Standard Terms and Conditions of Sale for these products. In no instance will we be liable for any eventual, indirect or consequential damage or damages arising from the sale, resale, transfer, use or misuse of the product.



AUTOMOTIVE PRODUCTS

DSG-Canusa offers complete solutions to automotive applications including:

- Full line of OEM approved products
- Advanced application equipment for improved processing
- Turnkey support

In addition to the products found in the Single Wall, Dual Wall and Low Voltage sections of this catalog, DSG-Canusa offers custom designed products for automotive splice sealing, water blocking and terminal sealing.

DERAY[®] SPLICEMELT

4:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

ADHESIVE LINED CROSS-LINKED POLYOLEFIN

Adhesive lined heat shrink specifically designed to insulate, seal and protect in-line splices in automotive wire harnesses and electronic assemblies

FEATURES AND BENEFITS

- 4:1 shrink ratio to fit varying splice configurations and substrate profiles
- Seals and protects against water, moisture and chemicals
- Adhesive bonds readily to PVC, XLPE and PP-EPDM cable jackets
- Shrinks rapidly for quick installation
- Continuous operating temperature: -40°C to 125°C
- Shrink temperature: 120°C

STANDARDS

- Approved to all major Automotive OEM splice sealing specifications

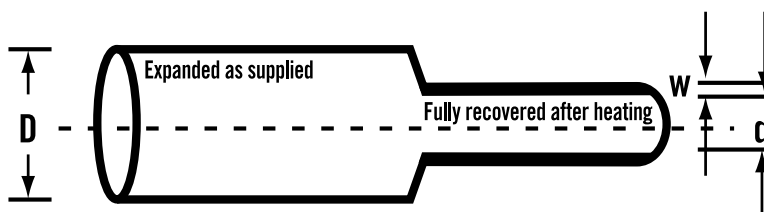
TYPICAL APPLICATIONS

- Environmental sealing of in-line splices
- Sealing and strain relief of connectors and terminals
- Abrasion protection and electrical insulation of automotive wiring harness splices



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				CUT LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		TOTAL WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	MM	IN
1	6.0	0.236	1.4	0.055	1.35	0.053	50	1.97
2	8.0	0.315	1.6	0.063	1.75	0.069	50	1.97
3	12.0	0.472	2.5	0.098	2.00	0.079	65	2.56
4	18.0	0.708	3.7	0.146	2.60	0.102	75	2.95



INSTALLATION

- DSG-Canusa offers a comprehensive selection of technically advanced shrink appliances that ensure process stability and repeatability
- Minimum recovery temperature: 120°C
- Adhesive activation temperature: 110°C
- Use with DERAY® FST shrink ovens for best performance

ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select Options:
 - Color: Black (BK) or Clear (CL)
 - Length: Standard cut length, 4 ft stick or spool
- Please specify the product name plus the options you require
- Order Example: DERAY® Splicemelt, 3, black, 65 mm length

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

INSULATE
SEAL
PROTECT

ADHESIVE LINED CROSS-LINKED POLYOLEFIN

Semi-rigid, dual wall heat shrink tubing designed to seal & environmentally protect splices in the most demanding applications

FEATURES AND BENEFITS

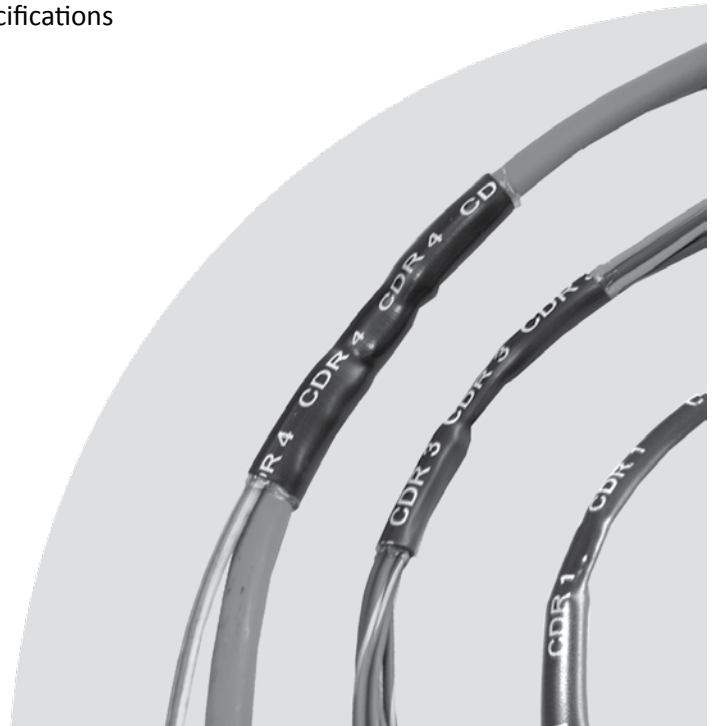
- 4:1 shrink ratio allows for fewer sizes to cover numerous splice configurations and diameters
- Environmentally seal and protect splices and terminals in automotive, on highway/off road heavy equipment applications
- Highly resistant to Diesel and other common automotive fluids and solvents
- Semi-rigid and mechanically tough outer jacket provides added strain relief and excellent abrasion protection
- Thick adhesive liner forms an effective barrier against fluids and moisture penetration
- Continuous operating temperature: -40°C to 130°C
- Shrink temperature: 130°C

STANDARDS

- Approved to all major Automotive OEM splice sealing specifications

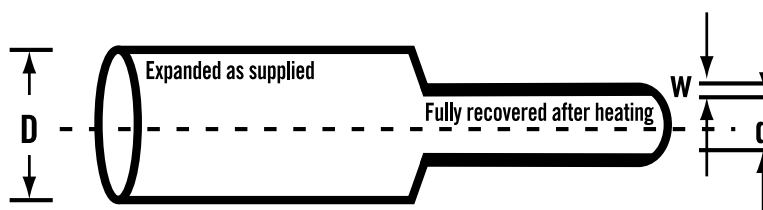
TYPICAL APPLICATIONS

- Environmental sealing of in-line splices, connectors & terminals
- Strain relief
- Abrasion protection and electrical insulation
- On-highway and off-road heavy equipment
- Fleet & marine sealing & protection



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				CUT LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		TOTAL WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	MM	IN
1	6	0.236	1.27	0.050	1.27	0.050	50	1.97
2	8	0.315	1.52	0.060	1.52	0.060	50	1.97
3	12	0.472	2.03	0.080	1.91	0.075	65	2.56
4	18	0.710	3.81	0.150	2.41	0.095	75	2.95



INSTALLATION

- DSG-Canusa offers a comprehensive selection of technically advanced shrink appliances that ensure process stability and repeatability
- Minimum recovery temperature: 125°C
- Adhesive activation temperature: 110°C
- Use with DERAY® FST shrink ovens for best performance

ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select Options:
 - Color: Black (BK)
 - Length: Standard cut length, 4 ft stick or spool
 Please specify the product name plus the options you require
 Order Example: CDR, 3, black, 65 mm length

Please contact your Customer Service Representative for information on custom sizes, lengths and material data sheet.

DERAY[®] SPLICEMELT CAP

INSULATE
SEAL
PROTECT

4:1
SHRINK RATIO



ADHESIVE LINED INSULATING CAPS

Adhesive lined, heat shrink insulating caps specifically designed to insulate, seal and protect end or stub splices in wiring harnesses and electronic assemblies

FEATURES AND BENEFITS

- 4:1 shrink ratio allows fewer sizes to cover a wide range of profiles
- Seals and protects against water, moisture and chemicals
- Adhesive bonds readily to PVC, XLPE and PP-EPDM cable jackets
- Shrinks rapidly for quick installation
- Operating temperature: -40°C to 125°C
- Minimum shrink temperature: 120°C

STANDARDS

- Approved to all major Automotive OEM splice sealing specifications

TYPICAL APPLICATIONS

- Termination & protection of end and stub splices
- Abrasion protection and strain relief

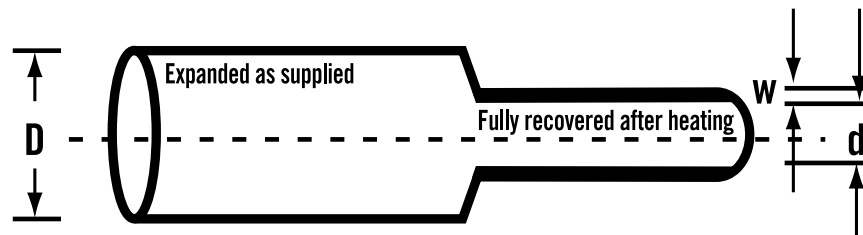


DERAY[®] SPLICEMELT CAP

ADHESIVE LINED INSULATING CAPS

DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				CUT LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	MM	IN
0	3.0	0.118	0.85	0.033	1.05	0.410	30	1.20
1	6.0	0.236	1.4	0.055	1.35	0.0531	50	2.00
2	8.0	0.314	1.6	0.063	1.75	0.0689	50	2.00
3	12.0	0.472	2.5	0.098	2.00	0.0787	65	2.55



INSTALLATION

- DSG-Canusa offers a comprehensive selection of technically advanced shrink appliances that ensure process stability and repeatability
- Minimum recovery temperature: 120°C
- Adhesive activation temperature: 110°C

ORDERING

- Select a dimension which will shrink snugly over the component to be covered
- Select options:
 - Color: Black (BK), Clear (CL)
 - Printing: Printed or Unprinted
- Please specify the product name, order number and options you require
- Order Example: DERAY[®] SpliceMelt Cap 125, 3, black, unprinted, 2 in

Please contact your Customer Service Representative for information on custom sizes, lengths and material data sheet.

CDR CAP

INSULATE
SEAL
PROTECT

4:1
SHRINK RATIO



SEMI-RIGID, ADHESIVE LINED INSULATING CAPS

Semi-rigid, adhesive lined, heat shrink insulating caps specifically designed to insulate, seal and protect end or stub splices under extreme operating conditions

FEATURES AND BENEFITS

- 4:1 shrink ratio allows fewer sizes to cover a wide range of profiles
- Seals and protects against water, moisture and chemicals
- Adhesive bonds readily to PVC, XLPE and PP-EPDM cable jackets
- Operating temperature: -40°C to 130°C
- Minimum shrink temperature: 130°C

STANDARDS

- Approved to all major Automotive OEM splice sealing specifications

TYPICAL APPLICATIONS

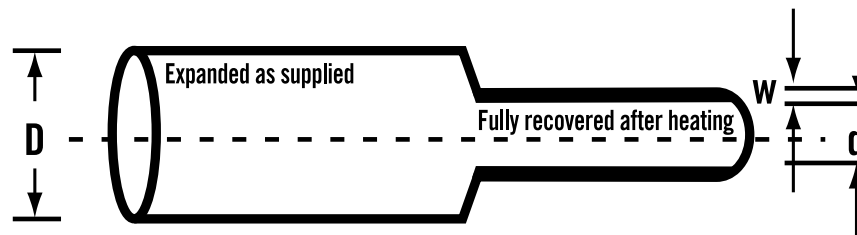
- Termination & protection of end and stub splices in automotive and electronic applications
- Abrasion protection and strain relief



SEMI-RIGID, ADHESIVE LINED INSULATING CAPS

DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				CUT LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	MM	IN
1	6	0.236	1.27	0.050	1.27	0.050	30	1.20
2	8	0.315	1.52	0.060	1.52	0.060	50	2.00
3	12	0.472	2.03	0.080	1.91	0.075	50	2.00



INSTALLATION

- DSG-Canusa offers a comprehensive selection of technically advanced shrink appliances that ensure process stability and repeatability
- Minimum recovery temperature: 125°C
- Adhesive activation temperature: 110°C

ORDERING

- Select a dimension which will shrink snugly over the component to be covered
- Select options:
 - Color: Black (BK)
 - Printing: Printed or Unprinted
- Please specify the product name, order number and options you require
- Order Example: CDR Cap 3, black, 2 in

Please contact your Customer Service Representative for information on custom sizes, lengths and material data sheet.

CFRA

4:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

HIGHLY FLAME RETARDANT HEAT SHRINK POLYOLEFIN TUBING

Highly flame retardant, semi-rigid, cross-linked dual wall heat shrink tubing designed for splice sealing and fuse link protection

FEATURES AND BENEFITS

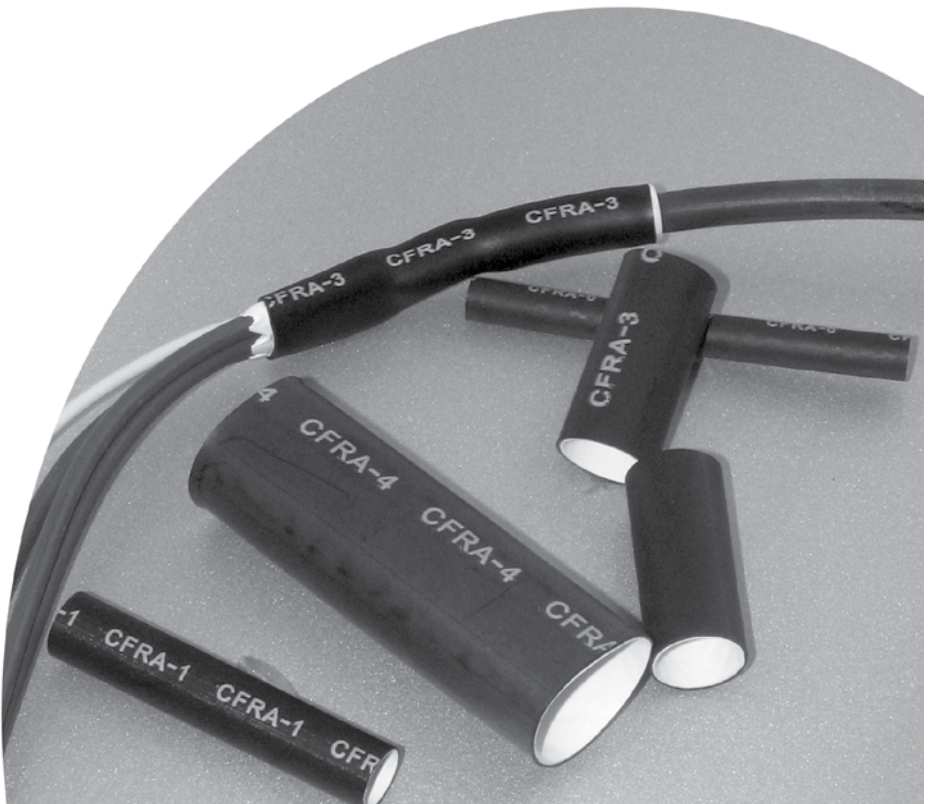
- 4:1 shrink ratio to cover varying splice configurations and substrate profiles
- Jacket and adhesive are exceptionally flame retardant
- Economical way to environmentally seal and protect automotive fuse-links, splices and terminals
- Highly resistant to common automotive fluids and solvents
- Semi-rigid and mechanically tough outer jacket provides added strain relief and excellent abrasion protection
- Thick adhesive liner forms an effective barrier against fluids and moisture penetration
- Continuous operating temperature: -40°C to 125°C
- Shrink temperature: 125°C

STANDARDS

- Delphi M3552
- Ford WSS- M99D56-A4

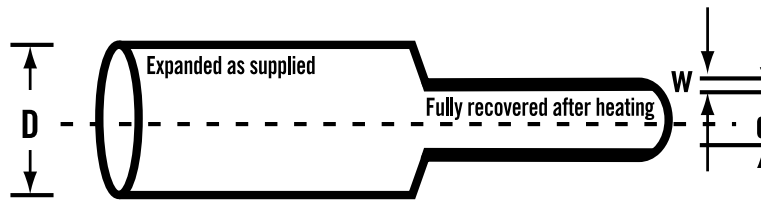
TYPICAL APPLICATIONS

- Automotive wire harness splice sealing and strain relief
- Insulation and environmental protection of terminals, connectors, and fuse links



DIMENSIONS

SIZE	EXPANDED		RECOVERED					
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W		ADHESIVE WALL THICKNESS	
	MM	IN	MM	IN	MM	IN	MM	IN
No. 0	5.08	0.200	1.27	0.050	1.40	0.055	0.635	0.025
No. 1	7.62	0.300	1.65	0.065	1.52	0.060	0.762	0.030
No. 2	9.02	0.355	2.29	0.090	1.52	0.060	0.762	0.030
No. 3	11.56	0.455	2.54	0.100	2.29	0.090	1.270	0.055
No. 4	17.78	0.700	4.45	0.175	2.54	0.100	1.524	0.060



INSTALLATION

- DSG-Canusa offers a comprehensive selection of technically advanced shrink appliances that ensure process stability and repeatability
- Minimum recovery temperature: 125°C
- Adhesive activation temperature: 110°C
- Use with DERAY® FST shrink ovens for best performance

ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- CFRA is cut to length on request.
- Please specify the product name, order number and options you require
- Order Example: CFRA, No. 0, black, 65 mm length

Please contact your Customer Service Representative for information on custom sizes, lengths and material data sheet.

DERAY[®] COLDMELT



INSULATE
SEAL
PROTECT

LONGITUDINAL WATER BLOCKING SYSTEM

DERAY[®] Coldmelt is the ultimate water blocking system for automotive wire harness feed-through locations

FEATURES AND BENEFITS

- A specially designed heat shrink tube, mastic strip and shrink oven system that seals 100% of the time
- Low temperature installation that reduces thermal stress and protects the cable insulation
- Cables are embedded individually into the mastic strips forming a barrier against fluids and moisture penetration
- Accommodates and seals harness bundles of up to 130 cables
- On or off-line installation to accommodate production requirements
- Grommet standardization
- Good adhesion on PVC, XLPE and PP-EPDM cable insulation
- Reduces total installed cost by eliminating drip loops
- Provides design flexibility that reduces wire harness installation time
- Operating temperatures: -55°C to 125°C

STANDARDS

- Approved to major OEM water blocking specifications

TYPICAL APPLICATIONS

- Water/moisture ingress elimination
- Noise dampening and reduction

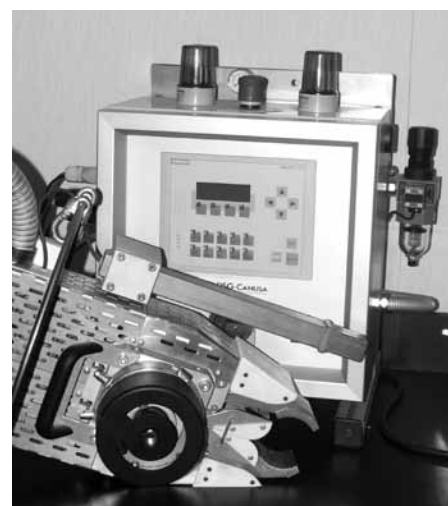


CS HEAT SHRINK TUBE DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				CUT LENGTHS	
	INTERNAL DIAMETER (MIN)		INTERNAL DIAMETER (MAX)		TOTAL WALL THICKNESS (NOM)			
	MM	IN	MM	IN	MM	IN	MM	IN
0100	10.0	0.394	3.5	0.138	1.00	0.039	30.0	1.181
0180	18.0	0.708	5.0	0.197	1.20	0.047	30.0	1.181
0300	30.0	1.181	9.0	0.354	2.00	0.079	50.0	1.968
0350	35.0	1.378	13.0	0.512	1.90	0.075	62.0	2.440
0420	42.0	1.653	15.0	0.590	2.50	0.098	50.0	1.968
0500	50.0	1.968	15.0	0.590	2.50	0.098	62.0	2.440
0600	60.0	2.362	13.0	0.512	1.90	0.075	33.0	1.299

COLDMELT STRIP DIMENSIONS

WIDTH		THICKNESS		LENGTH	
MM	IN	MM	IN	MM	IN
19.0	0.748	1.5	0.059	25 to 125	1 to 5



DERAY® SealMan

INSTALLATION

DERAY® ColdMelt consists of two components:

- DERAY® ColdMelt strips - mastic adhesive strips used to embed all wires forming a water blocking barrier
- DERAY® CS heat shrink - low shrink temperature heat shrink to cover the ColdMelt strips to maintain a tight cylindrical bundle

The DERAY® SealMan oven (on-board or tabletop) is used to shrink the tubing and form the water blocking bundle.

ORDERING

- The product is customized for the application. Contact DSG-Canusa to determine requirements.

DERAY[®] PRESSMELT



INSULATE
SEAL
PROTECT

LONGITUDINAL WATER SEALING SYSTEM

A specially designed sealing system to enhance and provide longitudinal water sealing in small cable bundles

FEATURES AND BENEFITS

- The system consists of a heat shrink sleeve and adhesive inserts that seal large and non-standard wire harness splices and plug connectors
- Adhesive inserts compliment the adhesive lined shrink tube to ensure splice sealing
- Good chemical and fuel resistance
- Available in 'U' and 'Star' shaped profiles
- Good adhesion to PVC, XLPE and PP-EPDM wire insulating materials
- Continuous operating temperature: -40°C to 105°C

STANDARDS

- Approved to OEM splice sealing specifications

TYPICAL APPLICATIONS

- Sealing of splices, connectors and terminals



DIMENSIONS

PROFILE	INTERNAL DIAMETER		OUTSIDE DIAMETER		OPENING		LENGTH	
	MM	IN	MM	IN	MM	IN	MM	IN
U5	2.7	0.106	5.5	0.217	1.2	0.047	5.0	0.197
U7	3.5	0.138	7.5	0.295	1.4	0.055	5.0	0.197
S5	n/a	n/a	7.5 - 8.5	0.295 - 0.335	n/a	n/a	5.0	0.197
S9	n/a	n/a	7.5 - 8.5	0.295 - 0.335	n/a	n/a	5.0	0.197

INSTALLATION

The DERAY® PressMelt system consists of two primary components:

- DERAY® PressMelt adhesive inserts are available in a variety of geometric shapes as well as 85°C and 105°C operating temperature ranges.
- DERAY® IAKT/IHKT or SpliceMelt heat shrink tubing is cross-linked polyolefin tubing that is used to cover and encapsulate the entire installation.

DERAY® WorkMan or DERAY® DockMan shrink ovens are recommended for repeatable application.

Please contact your Customer Service Representative for information on customized product.

DERAY[®] DUOMELT



INSULATE
SEAL
PROTECT

LONGITUDINAL WATER BLOCKING SOLUTION

DERAY[®] DuoMelt seals and environmentally protects connectors and cable bundles

FEATURES AND BENEFITS

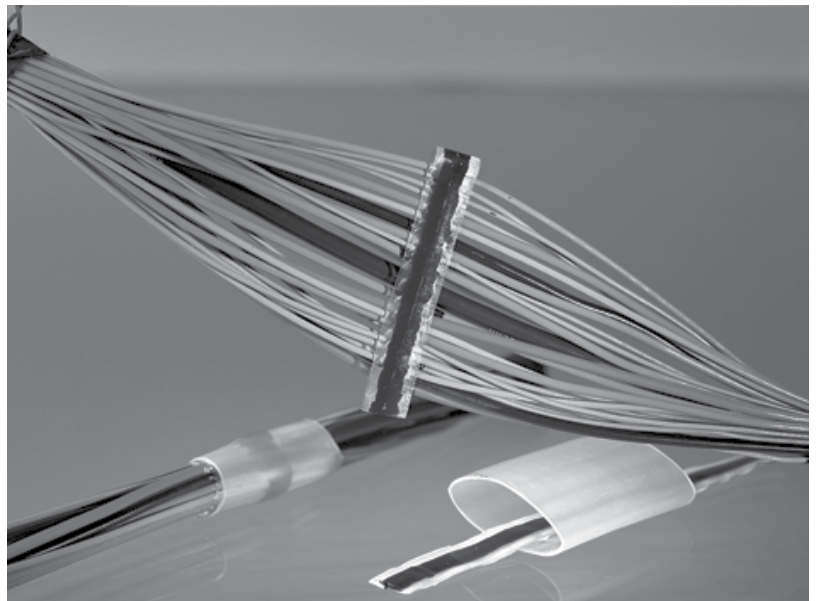
- A specially designed heat shrink tube and mastic lined adhesive tape sealing system that provides longitudinal water sealing for cable bundles, plug connectors and splices
- Environmentally seals and protects wire bundles up to 20 wires
- Cables are embedded individually into the adhesive tape to ensure 100% sealing
- Good chemical and fuel resistance
- Good adhesion to PVC, XLPE and PP-EPDM wire insulating materials
- Continuous operating temperature: -40°C to 105°C

STANDARDS

- Approved to OEM longitudinal water blocking specifications

TYPICAL APPLICATIONS

- Water/moisture ingress elimination
- Abrasion protection and strain relief
- Noise dampening and reduction



DIMENSIONS

WIDTH		THICKNESS	
MM	IN	MM	IN
10.0	0.394	1.1	0.043
10.0	0.394	1.5	0.059
15.0	0.590	1.5	0.059
15.0	0.590	1.8	0.071

INSTALLATION

The DERAY® DuoMelt system consists of two primary components:

- DERAY® DuoMelt mastic adhesive strips, 85°C and 105°C operating temperatures, used to seal all of the individual elements of the cable bundle.
- DERAY® IAKT/IHKT heat shrink tubing is cross-linked polyolefin tubing that is used to cover and encapsulate the entire installation.

DERAY® WorkMan or DERAY® DockMan shrink ovens are recommended for repeatable application.

Please contact your Customer Service Representative for information on customized product

DERAY[®] SHRINK APPLIANCES

INSULATE
SEAL
PROTECT

APPLICATION MADE EASY

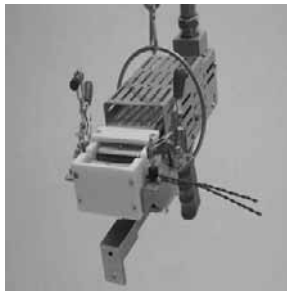
In addition to the standard heat shrink product line, DSG-Canusa provides a full range of technically advanced shrink appliances

FEATURES AND BENEFITS

- PLC controlled for tightly governed process parameters
- Multi-lingual operator interfaces
- Easily integrated into existing manufacturing environments
- Full line of standard off the shelf machines
- Capabilities to construct custom machines and accessories for unique applications
- Part of a full turnkey solution
- Exceptional reliability record with low maintenance costs
- Can be configured for on or off-line operation

TYPICAL APPLICATIONS

- Automotive splice sealing
- Automotive water blocking



DERAY® SHRINK APPLIANCES

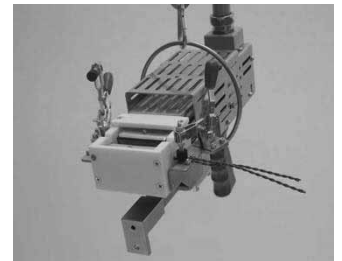


DERAY® SPlicEMAN IR

- A time and temperature process controlled heat shrink appliance specifically designed for batch splice sealing applications. The device is typically used with DERAY® SpliceMelt but can accommodate a full range of tubing. Special features include hands free operation and splice ejection after each shrink cycle.

DERAY® DOCKMAN

- A process controlled heat shrink appliance designed for general purpose shrink applications on a wire harness board. The device is most often used with the DERAY® DuoMelt, DERAY® PressMelt and small DERAY® ColdMelt applications.



DERAY® SEALMAN

- A process controlled heat shrink appliance specifically designed to install the DERAY® ColdMelt water blocking system. It features a carefully designed shrink zone and a compression mechanism to mechanically block and prevent in-vehicle water penetration via the wire harness feed-through location. DERAY® SealMan can be configured for either on-board or bench mount operation.

DERAY® FST

- The ultimate tunnel oven specifically designed for continuous processing of automotive and terminal wire splices. It's PLC controlled temperature and belt speed settings ensure process repeatability. It also fits easily into any production setting ensuring consistency and repeatability. The FST oven has proven to be the best in class shrink appliance for both economy and reliability.



In addition to standard heat guns and torches, DSG-Canusa offers a selection of standard and custom designed ovens for hose and pipe or other specialized applications.



SPECIALTY NON-POLYOLEFIN PRODUCTS

DSG-Canusa provides special materials for demanding industrial and wire harness applications.

These products, made of materials ranging from elastomers to fluoropolymers, offer increased protection against extreme temperatures and harsh operating environments.

CNP 200

2:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL CROSS LINKED CHLORINATED POLYOLEFIN

Thin Wall Cross Linked Chlorinated Polyolefin heat shrink tubing suitable for harnessing, hydraulic couplings and applications requiring exceptional flexibility

FEATURES AND BENEFITS

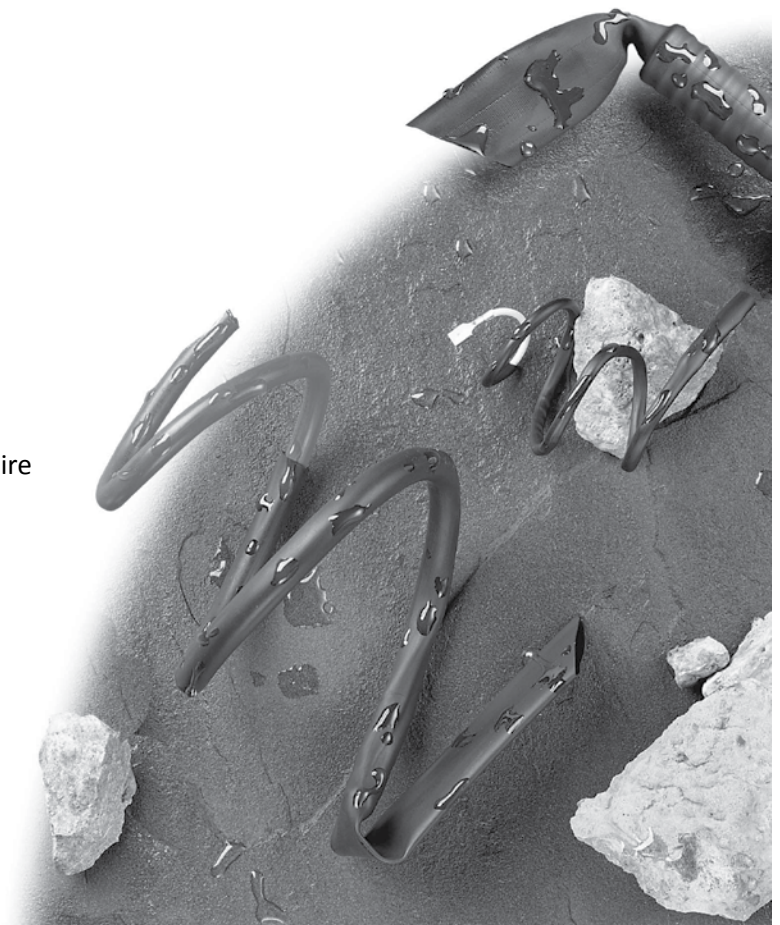
- 2:1 shrink ratio
- Superior cut-through and abrasion resistance
- Very flexible even at low temperatures
- Excellent oil resistance
- Continuous operating temperature: -70°C to 120°C
- Shrink temperature: 135°C

STANDARDS

- MIL-R-46846 Type 1
- SAE-AMS-DTL-23053/1 Class 1 and 2
- AMS 3623

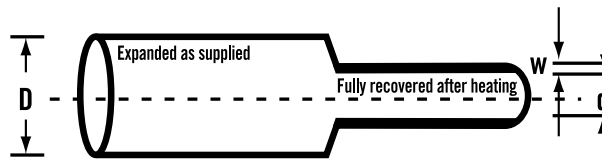
TYPICAL APPLICATIONS

- Insulation, strain relief and abrasion resistance for wire harnesses exposed to fluids and solvents



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
0125	3.18	0.125	1.57	0.062	0.76	0.030	60	200
0187	4.75	0.187	2.36	0.093	0.89	0.035	60	200
0250	6.35	0.250	3.18	0.125	0.89	0.035	60	200
0375	9.53	0.375	4.75	0.187	1.02	0.040	60	100
0500	12.70	0.500	6.35	0.250	1.22	0.048	30	100
0625	15.88	0.625	7.92	0.312	1.32	0.052	30	100
0750	19.05	0.750	9.53	0.375	1.45	0.057	30	100
0875	22.23	0.875	11.10	0.437	1.65	0.065	30	100
1000	25.40	1.000	12.70	0.500	1.78	0.070	15	50
1250	31.75	1.250	15.88	0.625	2.21	0.087	15	50
1500	38.10	1.500	19.05	0.750	2.41	0.095	15	50
1750	44.45	1.750	22.23	0.875	2.72	0.107	15	50
2000	50.80	2.000	25.40	1.000	2.79	0.110	15	50
3000	76.20	3.000	38.10	1.500	3.18	0.125	15	50



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK)
 - Printing: Printed or Unprinted
- Please specify the product name, order number and options you require
- Order Example: CNP 200, 0250, black, unprinted, 200 ft lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

CVN 105

2:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL PVC

Flexible PVC heat shrink tubing suitable for industrial and electronic applications

FEATURES AND BENEFITS

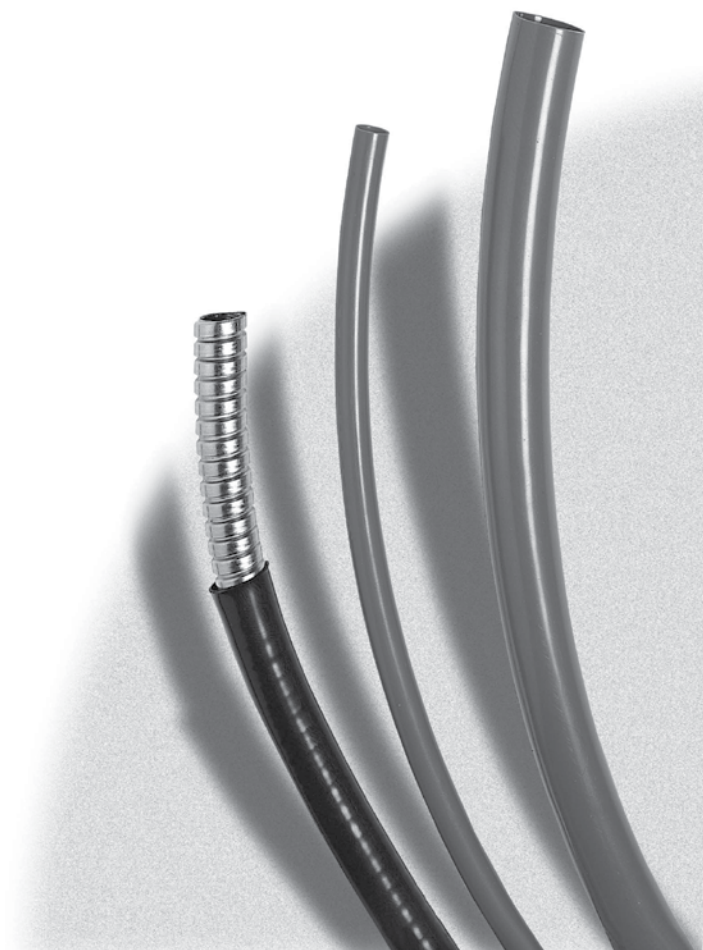
- 2:1 shrink ratio
- General purpose tubing
- Highly flame retardant
- Seven standard colors
- Flexible
- Continuous operating temperature: -30°C to 105°C
- Shrink temperature: 110°C

STANDARDS

- UL 224 VW-1
- CSA C22.2 No. 198.1, OFT

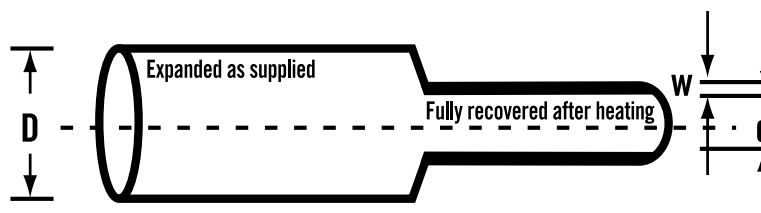
TYPICAL APPLICATIONS

- Protective layer for various substrates
- Harness covering



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
0047	1.2	3/64	0.6	3/128	0.45	0.018	300	1,000
0062	1.6	1/16	0.8	1/32	0.45	0.018	300	1,000
0093	2.4	3/32	1.2	3/64	0.51	0.020	300	1,000
0125	3.2	1/8	1.6	1/16	0.64	0.025	300	1,000
0187	4.8	3/16	2.4	3/32	0.64	0.025	300	1,000
0250	6.4	1/4	3.2	1/8	0.64	0.025	300	1,000
0375	9.5	3/8	4.8	3/16	0.76	0.030	152	500
0500	12.7	1/2	6.4	1/4	0.76	0.030	76	250
0625	16.0	5/8	8.0	5/16	0.76	0.030	76	250
0750	19.0	3/4	9.5	3/8	0.89	0.035	76	250
1000	25.4	1	12.7	1/2	1.02	0.040	76	250
1250	32.0	1 1/4	16.0	5/8	1.02	0.040	76	250
1500	38.1	1 1/2	19.0	3/4	1.14	0.045	30	100
2000	50.8	2	25.4	1	1.27	0.050	30	100
3000	76.2	3	38.1	1 1/2	1.27	0.050	15	50
4000	101.6	4	50.8	2	1.40	0.055	15	50



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK), Red (RD), White (WT), Blue (BL), Yellow (YL), Green (GR), Clear (CL)
 - Printing: Printed or Unprinted
- Please specify the product name, order number and options you require
- Order Example: CVN 105, 0125, black, unprinted, 1,000 ft lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

DERAY[®] KY 175

2:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL PVDF

Transparent, thin wall PVDF (polyvinylidene fluoride) heat shrink tubing ideal for electronic, automotive and military applications requiring protection and see through inspection in aggressive environments

FEATURES AND BENEFITS

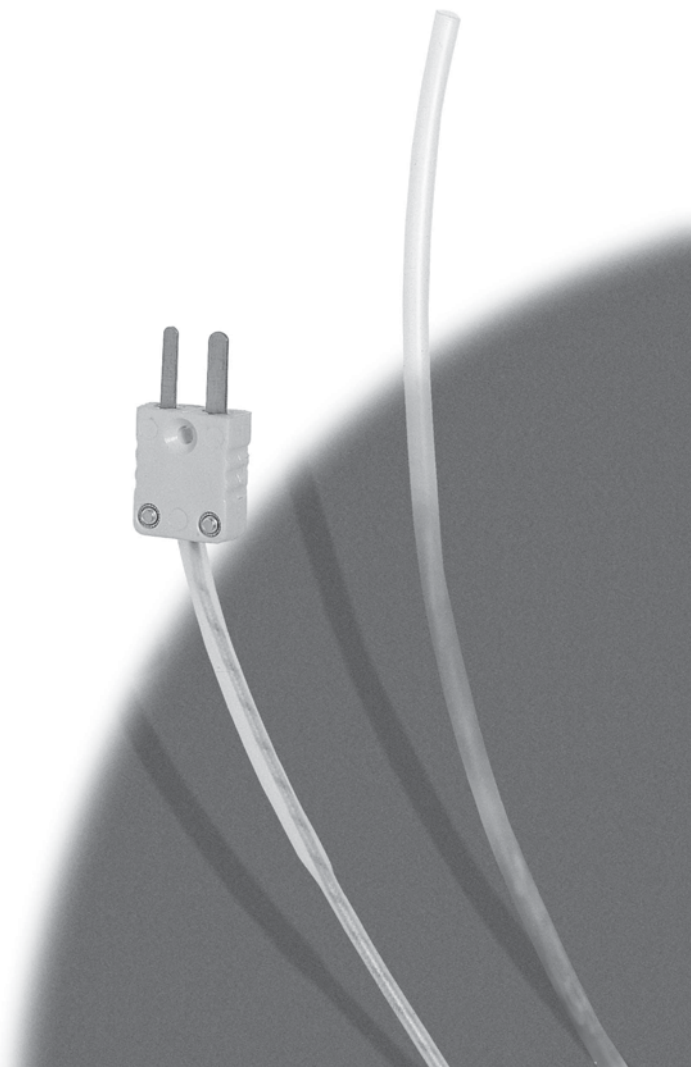
- 2:1 shrink ratio
- Highly flame retardant
- High withstand to abrasion and cut-through
- Excellent chemical and solvent resistance
- Semi-rigid
- Continuous operating temperature: -55°C to 175°C
- Shrink temperature: 175°C

STANDARDS

- UL 224 VW-1
- CSA C22.2 No. 198.1
- SAE- AMS- DTL- 23053/8
- DEF STAN 59-97 Issue 3 Type 3a
- AMS 3632

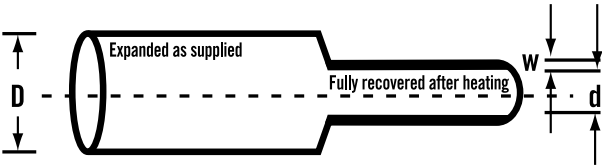
TYPICAL APPLICATIONS

- Strain relief and insulation of high temperature wires
- Protects against aggressive fluids and high temperatures



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W		CUT	
	MM	IN	MM	IN	MM	IN	M	IN
0047	1.2	3/64	0.6	3/128	0.24	0.009	1.2	48
0062	1.6	1/16	0.8	1/32	0.24	0.009	1.2	48
0094	2.4	3/32	1.2	3/64	0.24	0.009	1.2	48
0125	3.2	1/8	1.6	1/16	0.24	0.009	1.2	48
0187	4.8	3/16	2.4	3/32	0.24	0.009	1.2	48
0250	6.4	1/4	3.2	1/8	0.30	0.012	1.2	48
0375	9.5	3/8	4.8	3/16	0.30	0.012	1.2	48
0500	12.7	1/2	6.4	1/4	0.30	0.012	1.2	48
0750	19.0	3/4	9.5	3/8	0.40	0.016	1.2	48
1000	25.4	1	12.7	1/2	0.50	0.020	1.2	48



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK), Clear (natural)
 - Printing: Printed or Unprinted
 - Lengths: 48 in (1.2 m) cut lengths
- Please specify the product name, order number and options you require
- Order Example: DERAY[®] KY 175, 0125, black, unprinted, 4 ft lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

DERAY[®] KYF 190

INSULATE
SEAL
PROTECT

2:1
SHRINK RATIO



THIN WALL MODIFIED CROSS-LINKED FLUOROPOLYMER

Flexible, high temperature PVDF thin wall heat shrink tubing with extreme chemical resistance ideal for protection of components in a wide range of severe temperature and chemical environments

FEATURES AND BENEFITS

- 2:1 shrink ratio
- Flexible
- Highly flame retardant
- High temperature resistance
- Excellent chemical and solvent resistance
- Continuous operating temperature: -55°C to 190°C
- Shrink temperature: 175°C

STANDARDS

- UL 224 VW-1
- CSA C22.2 No. 198.1
- SAE-AMS-DTL-23053/18 Class 2

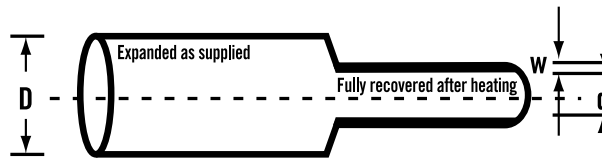
TYPICAL APPLICATIONS

- Protective see through covering for high temperature and aggressive chemical applications



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
0047	1.2	3/64	0.6	0.023	0.24	0.009	300	984
063	1.6	1/16	0.8	1/32	0.24	0.009	300	984
0094	2.4	3/32	1.2	3/64	0.24	0.009	300	984
0125	3.2	1/8	1.6	1/16	0.24	0.009	300	984
0187	4.8	3/16	2.4	3/32	0.24	0.009	300	984
0250	6.4	1/4	3.2	1/8	0.30	0.012	300	984
0375	9.5	3/8	4.8	3/16	0.30	0.012	150	492
0500	12.7	1/2	6.4	1/4	0.30	0.012	100	328



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK), Clear (natural)
 - Printing: Printed or Unprinted
- Please specify the product name, order number and options you require
- Order Example: DERAY[®] KYF 190, 0047, black, unprinted, 984 ft lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

DERAY[®] V25

2:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

DIESEL RESISTANT FLEXIBLE ELASTOMERIC TUBING

Diesel resistant elastomeric heat shrink tubing suited for protecting cables, wire harnesses and brake lines in transportation and military applications where resistance to diesel, oil, hydraulic fluids and other chemicals is critical

FEATURES AND BENEFITS

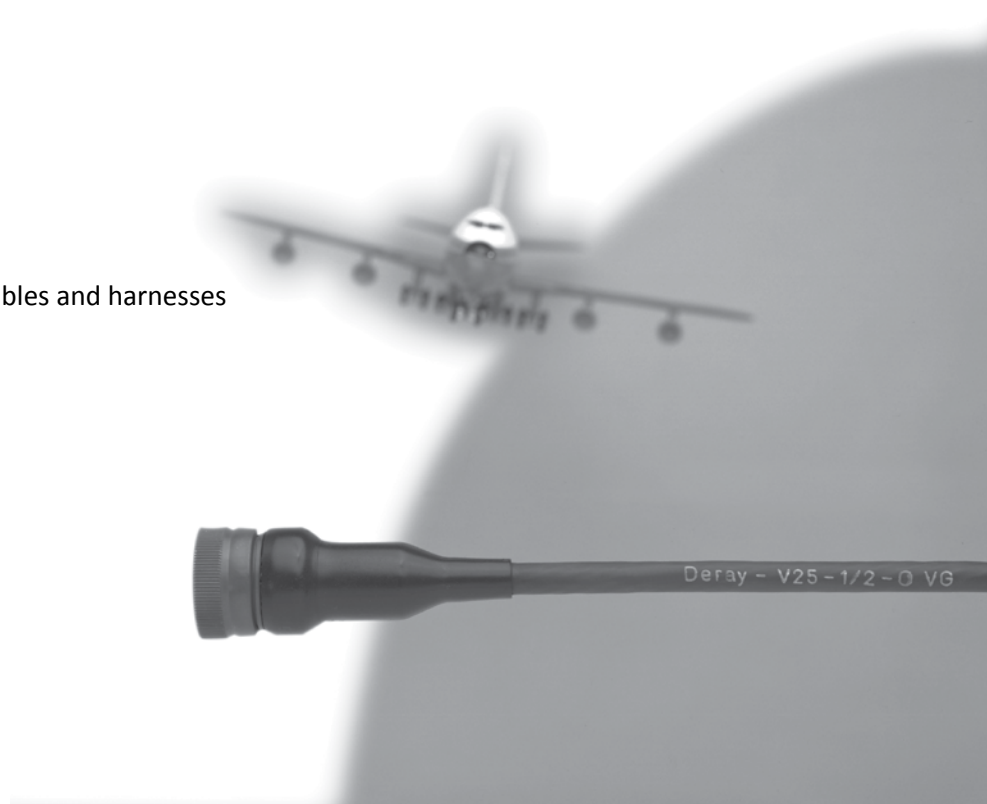
- 2:1 shrink ratio
- Long term resistance to diesel, hydraulic fluids and chemicals
- Flexible
- Flame retardant
- High abrasion and cut resistance
- Continuous operating temperature: -75°C to 150°C
- Shrink temperature: 130°C

STANDARDS

- SAE-AMS-DTL-23053/16

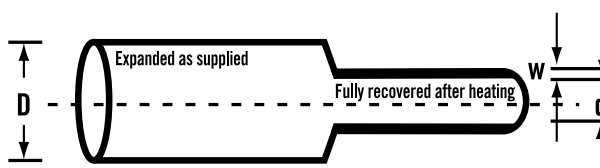
TYPICAL APPLICATIONS

- Protective covering for military cables and harnesses



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
0125	3.2	1/8	1.6	1/16	0.80	0.031	50	164
0187	4.8	3/16	2.4	3/32	0.90	0.035	50	164
0250	6.4	1/4	3.2	1/8	1.00	0.039	50	164
0375	9.5	3/8	4.8	3/16	1.10	0.043	50	164
0500	12.7	1/2	6.4	1/4	1.30	0.051	30	98
0750	19.0	3/4	9.5	3/8	1.50	0.059	30	98
1000	25.4	1	12.7	1/2	1.90	0.075	30	98
1500	38.0	1½	19.0	3/4	2.50	0.098	15	49
2000	51.0	2	25.4	1	3.10	0.122	15	49



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK)
 - Printing: Printed or Unprinted
- Please specify the product name, order number and options you require
- Order Example: DERAY[®] V25, 0125, black, unprinted 984 ft lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

DERAY[®] VT 220

2:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL FLUOROELASTOMER TUBING

Thin wall fluoroelastomer heat shrink tubing suitable for use in electronic systems and components in automotive, military/aerospace and industrial applications requiring outstanding heat and fluid resistance

FEATURES AND BENEFITS

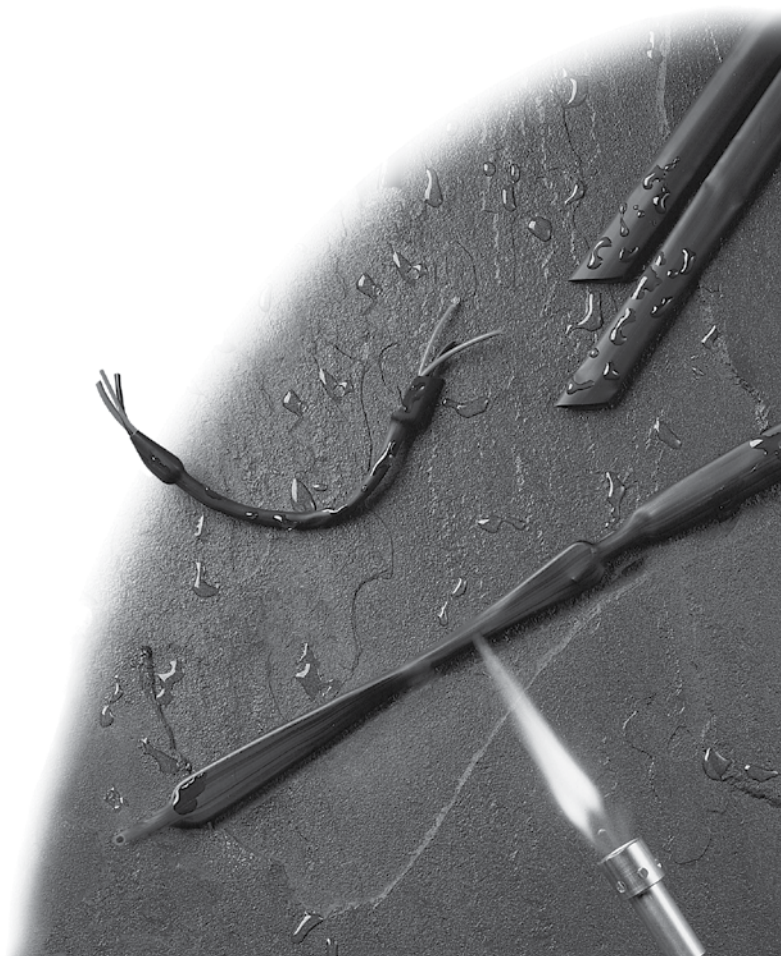
- 2:1 shrink ratio
- Highly abrasion resistant
- High withstand to corrosive fluids in extreme temperatures
- Flame retardant
- Very flexible
- Easily hot stamped
- Continuous operating temperature: -55°C to 220°C
- Shrink temperature: 175°C

STANDARDS

- MIL-R-46846 Type 3, Class 1
- SAE-AMS-DTL-23053/13
- DEF STAN 59-97 Issue 3, Code 4a

TYPICAL APPLICATIONS

- Bundling and strain relief of wire harnesses in high temperature applications

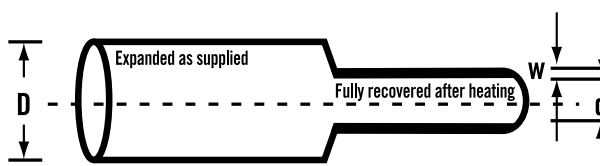


DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT

Standard Wall Thickness

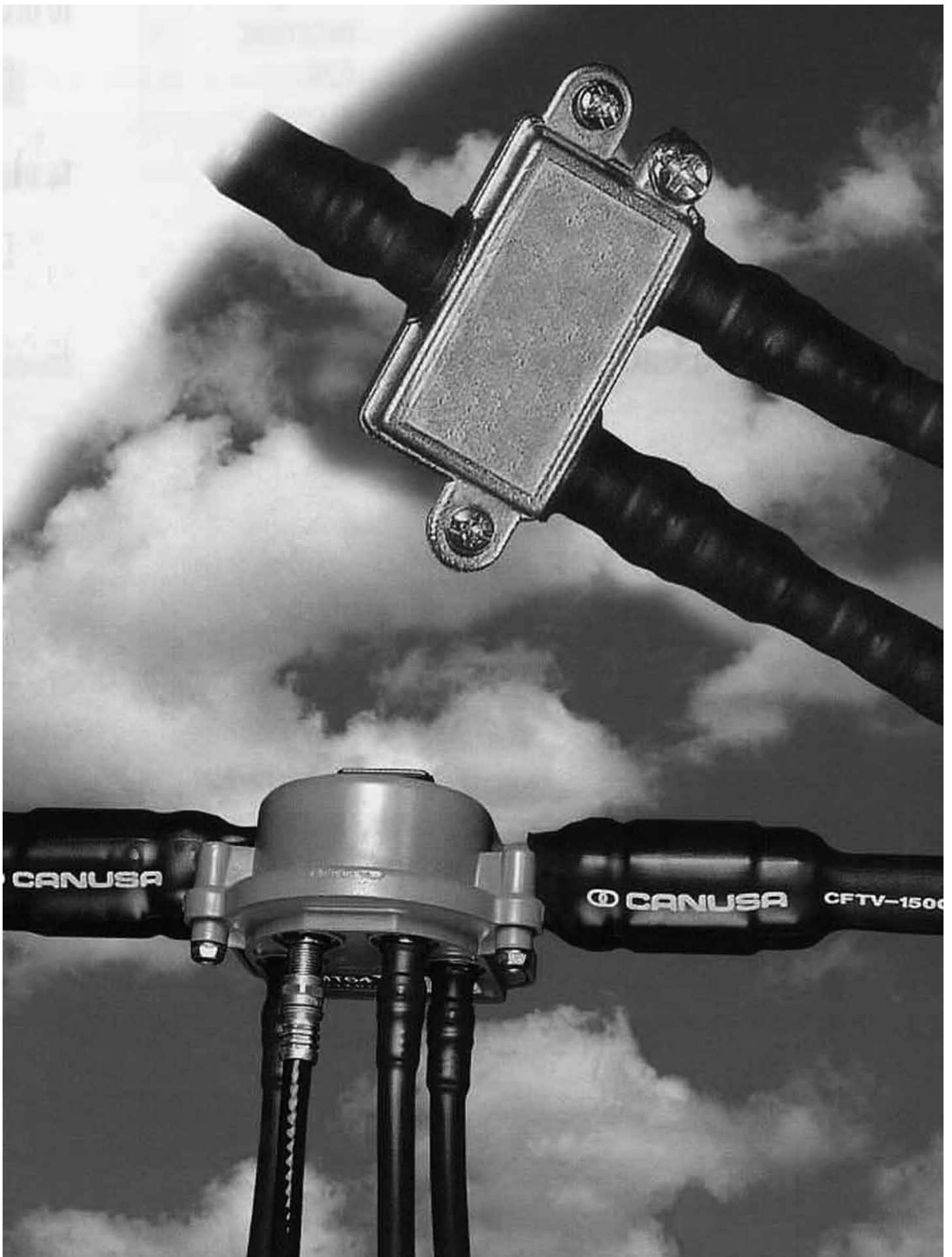
0125	3.2	0.125	1.6	0.063	0.8	0.031	50	164
0187	4.8	0.188	2.4	0.094	0.9	0.035	50	164
0250	6.4	0.25	3.2	0.126	0.9	0.035	50	164
0375	9.5	0.375	4.8	0.189	0.9	0.035	50	164
0500	12.7	0.5	6.4	0.252	0.9	0.035	30	98
0750	19.0	0.75	9.5	0.374	1.1	0.042	30	98
1000	25.4	1	12.7	0.500	1.2	0.049	30	98
1500	38	1.5	19.0	0.748	1.4	0.055	15	49
2000	52	2	25.4	1.000	1.6	0.065	15	49



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK)
 - Printing: Printed or Unprinted
- Please specify the product name, order number and options you require
- Order Example: DERAY[®] VT220, 0125, black, unprinted 164 ft lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.



COMMUNICATION PRODUCTS

Unique Solutions for Broad Band Communications

DSG-Canusa is the leading manufacturer of outside plant protection products for broad band communications.

Our innovative products prevent water ingress and mechanical damage to cables, splices and connectors.

CFSP/CRFP



INSULATE
SEAL
PROTECT

FIBER OPTIC SPLICE PROTECTOR

A specially designed cross-linked polyolefin tubing system, with meltable liner, providing strength and protection to optical fiber splices

FEATURES AND BENEFITS

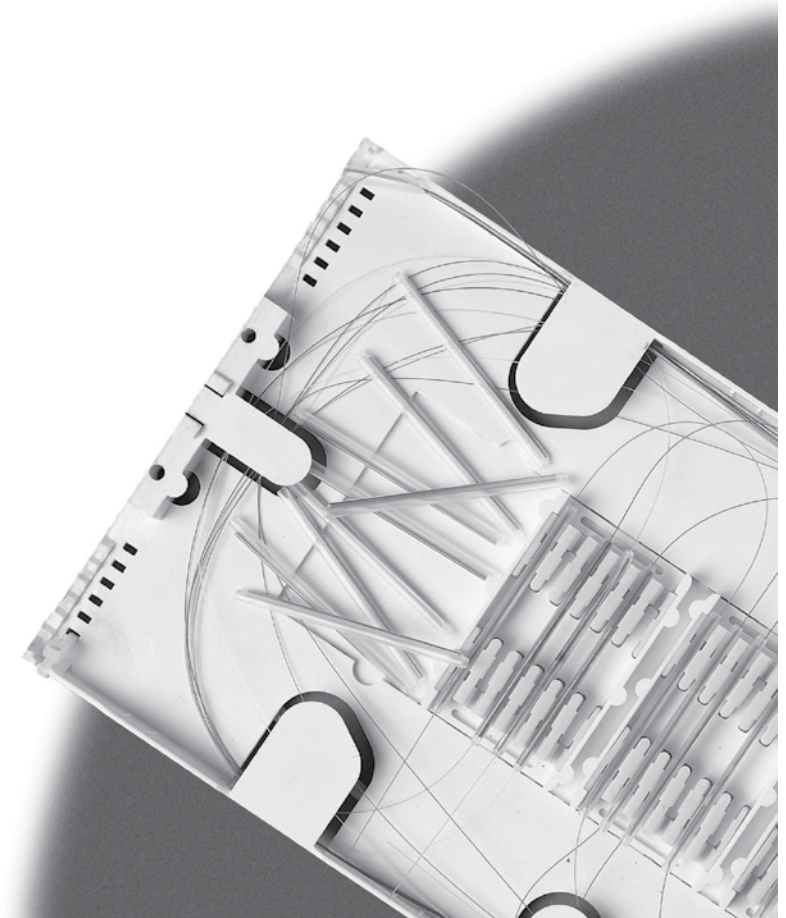
- Single fiber and ribbon fiber splice protector available
- Single holed (preshrunk) ends eliminate improper fiber threading
- Smooth, de-burred stainless steel reinforcing member ends decrease the risk of fiber damage during installation
- Extended liner length prevents contact between the fiber and the backbone
- Clear sleeve design permits easy centering of splice before heating
- Continuous operating temperature: -40°C to 60°C
- Shrink temperature: 90°C

STANDARDS

- GR-1380 compliant

TYPICAL APPLICATIONS

- Protection of fusion splices in optical networks

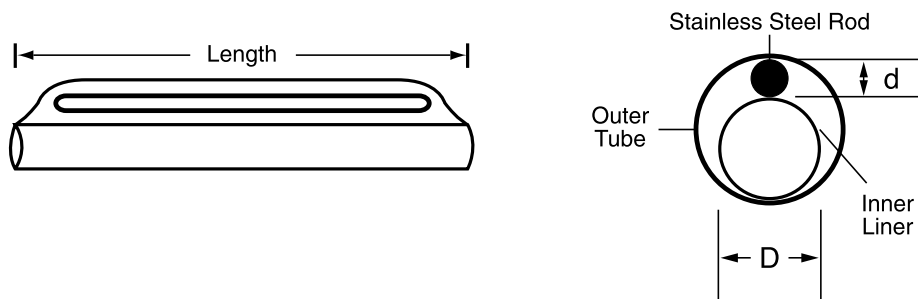


DIMENSIONS

ORDER NUMBER	NOMINAL SLEEVE LENGTH		INSIDE DIAMETER OF INNER LINER (MIN)		NOMINAL SUPPORT ROD DIAMETER*		PACKAGING	NUMBER OF SPLICES
	MM	IN	MM	IN	MM	IN		
CFSP SINGLE FIBER PROTECTORS								
CFSP-12-61	61.0	2.40	1.5	0.06	1.2	0.05	100	1
CFSP-12-45	45.0	1.77	1.5	0.06	1.2	0.05	100	1
CFSP-12-23	23.0	0.90	1.5	0.06	1.2	0.05	100	1
CRFP RIBBON FIBER PROTECTOR								
CRFP-12	40.0	1.57	3.0	0.12	1.8	0.07	50	12

*Support rod for CFSP is made from stainless steel

*Support rod for CRFP is made from ceramic



ORDERING

- Refer to the table to select the CFSP/CRFP with the desired sleeve length for overlap on each end of the area to be covered.
- Order Example: CFSP-12-61
- Packaging: CFSP: 100 pieces per bag; CRFP: 50 pieces per bag

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

CFTV

3:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

HEAT SHRINK CABLE SLEEVES

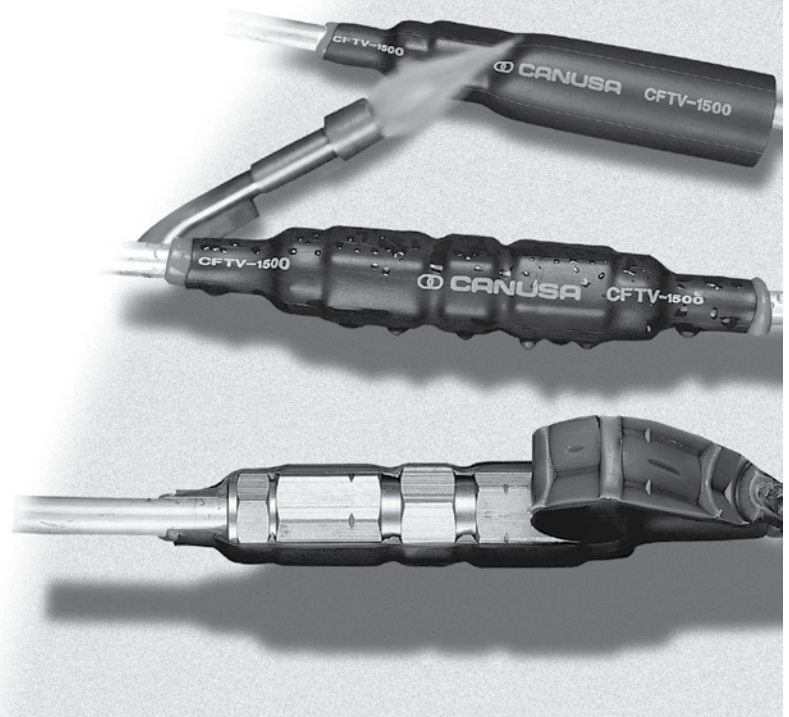
Heat shrink tubing and adhesive liner combination that established the CATV industry standard for splice and connector protection

FEATURES AND BENEFITS

- Shrink ratio: 3:1
- Craft friendly installation
- Exceptional split resistance
- CFTV adhesive retains bond providing long term protection
- Selective strippability to meet CATV industry specifications
- Minimal heat required to produce error free installation without splitting
- Thermochromatic lines change color to signal waterproof seal
- Shrinks and seals in half the time of alternative products
- Continuous operating temperature: -55°C to 110°C

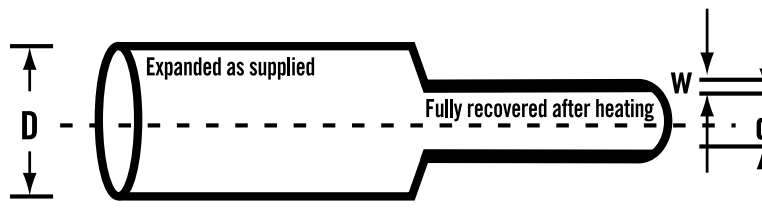
TYPICAL APPLICATIONS

- Strain relief of coaxial connectors
- Waterproof protection of CATV connectors



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				APPLICATION RANGE FOR GEN- ERAL USE		LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W					
	MM	IN	MM	IN	MM	IN	MM	IN	M	IN
0400	10.2	0.40	3.8	0.15	2	0.08	4.5 - 8.5	.18 - .34	1.2	48
0750	19.0	0.75	5.6	0.22	2	0.08	6.0 - 16.5	.24 - .65	1.2	48
1100	27.9	1.10	10.2	0.40	2	0.08	11.5 - 25.0	.45 - 1.0	1.2	48
1300	33.0	1.30	10.2	0.40	2	0.08	11.5 - 30.0	.45 - 1.2	1.2	48
1500	38.1	1.50	12.7	0.50	2	0.08	14.0 - 35.0	.55 - 1.4	1.2	48
1700	43.2	1.70	12.7	0.50	2	0.08	14.0 - 40.0	.55 - 1.6	1.2	48
2050	52.1	2.05	19.0	0.75	2	0.08	21.0 - 45.0	.82 - 1.8	1.2	48
2750	69.8	2.75	25.4	1.00	2	0.08	30.0 - 63.0	1.2 - 2.5	1.2	48



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resulting wall thickness will be less than specified.
- Order Example: CFTV, 1700

Please contact your Customer Service Representative for information on custom sizes, lengths and material data sheet.

CFTV QUICKWRAP

>3:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

HEAT SHRINK WRAPAROUND SLEEVE

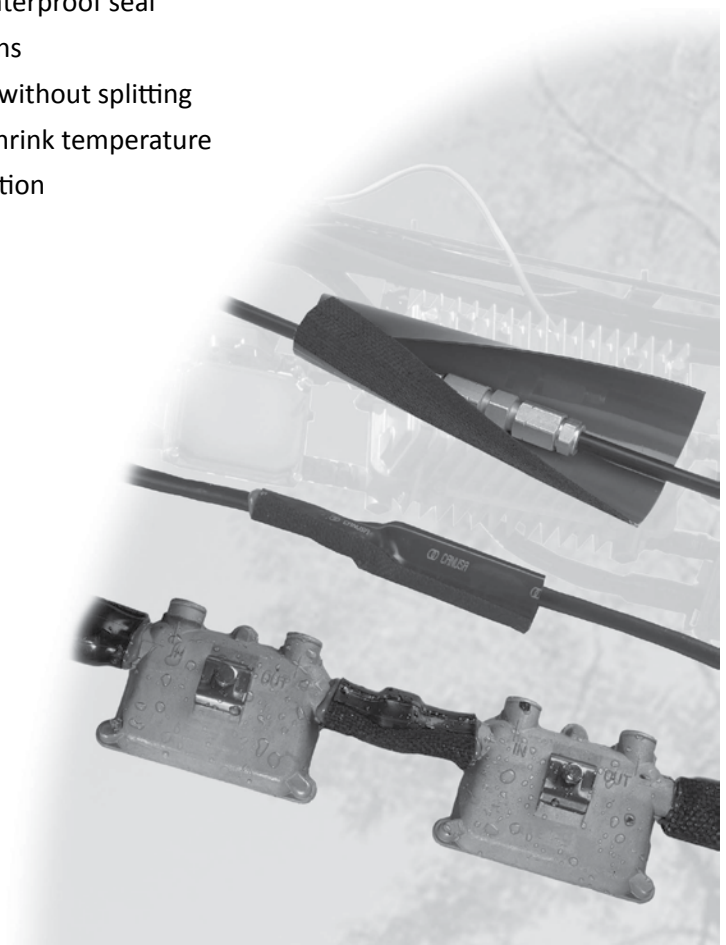
Heat shrink wraparound sleeve with adhesive for complete environmental sealing without the need for disconnection. Ideal for the protection of housing to housing connectors, retrofit protection of exposed connectors and the repair of damaged cable or fiber

FEATURES AND BENEFITS

- Shrink ratio: >3:1
- Fast and simple installation without interruption of service
- Repair squirrel damaged cable
- Proven CANUSA CFTV adhesive ensures an absolutely waterproof seal
- Selective strippability to meet CATV industry specifications
- Minimal heat required to produce error free installation without splitting
- Thermochromatic lines that change color upon correct shrink temperature
- CFTV QuickWrap can be cut to size in field to suit application
- Continuous operating temperature: -55°C to 110°C

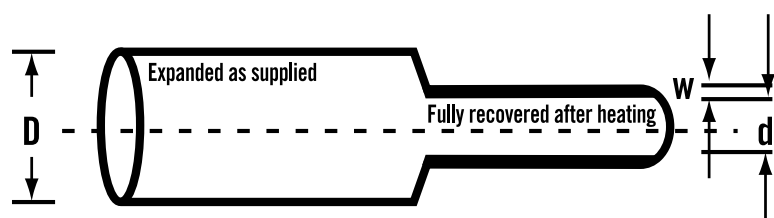
TYPICAL APPLICATIONS

- Repair damaged cable and fiber
- Retrofit protection of connectors without disconnecting



DIMENSIONS

ORDER NUMBER	LENGTH		WIDTH		EXPANDED INTERNAL DIAMETER (MAX) D		RECOVERED INTERNAL DIAMETER (MAX) d		RECOVERED WALL THICKNESS (NOM) W	
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
1	36	914	7	178	1.7	43	0.55	14	0.06	1.5
2	9	229	7	178	1.7	43	0.55	14	0.06	1.5



INSTALLATION NOTES

- CFTV QuickWrap is a one size fits all solution that can accommodate all sizes of cable and connectors. CFTV QuickWrap can be cut to length and width in the field to fit the specific application. Simply wrap CFTV QuickWrap around the cable or connector, ensuring adequate overlap, and then firmly apply the closure to hold CFTV QuickWrap together during the heat shrinking process. Please refer to the installation instructions included with each CFTV QuickWrap for more detailed information.

ORDERING

- Please specify the product name plus the options you require.
- Order Example: CFTV QuickWrap, 1, 36 in length

Please contact your Customer Service Representative for information on custom sizes, lengths and material data sheet.

INSULATE
SEAL
PROTECT

DROP SPLICE ENCLOSURE

Gel filled closures are a simple, fast and effective method for providing complete environmental protection for coaxial drop splices

FEATURES AND BENEFITS

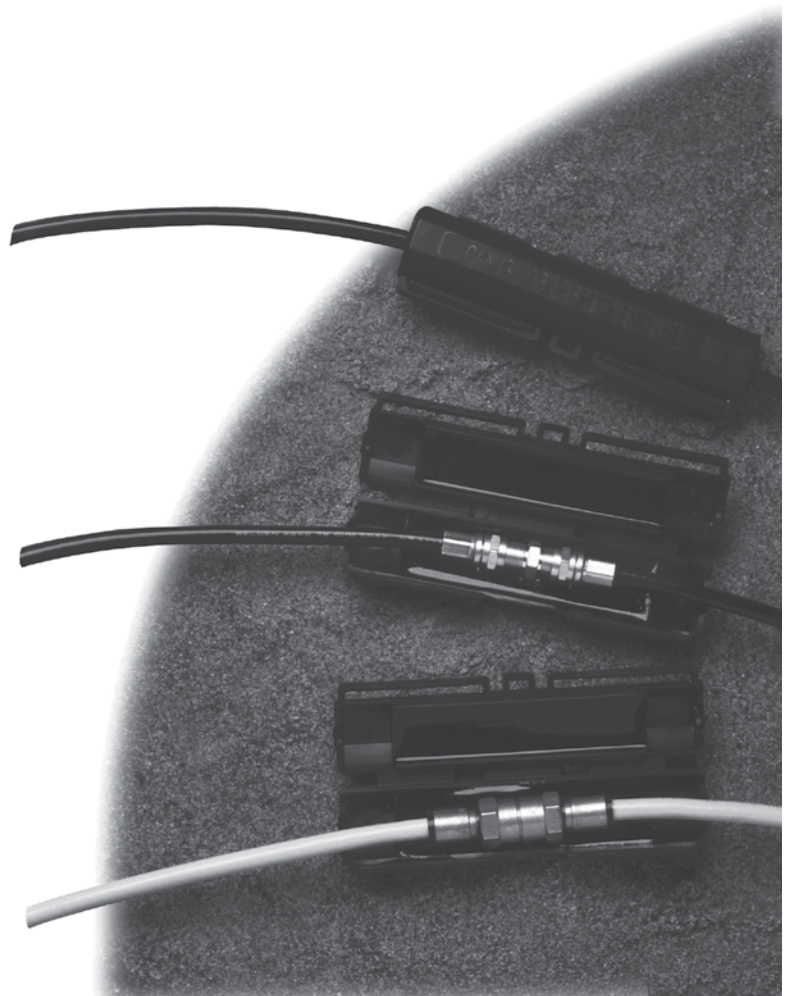
- Single piece, clam shell design, requires no additional tools for installation
- Gel filled for complete waterproof protection
- Expansion chambers prevent Gel overflow
- Accommodates a wide range of environmentally sealed coaxial connectors and cable types including quad shielded cable
- Available in two sizes:
 - CE 596 for 59 and 6 series cable
 - CE 711 for 7 and 11 series cable
- Channel provided to retain messenger cable
- Fully re-enterable
- Tough outer shell withstands impacts to 5 ft-lb
- Withstands extreme temperatures (-45°C to 90°C)

STANDARDS

- Meets SCTE IPS-TP-013 (ANSI/SCTE 60 2004) requirements for water immersion and temperature cycling

TYPICAL APPLICATIONS

- Environmental protection of cable splices



DIMENSIONS

ORDER NUMBER	NOMINAL DIAMETER		LENGTHS	
	MM	IN	MM	IN
CE 596	25.4	1.0	116	4.6
CE 711	31.0	1.2	165	6.5

APPLICABLE CABLES

Cables: All 59 and 6 series coaxial cables including quad shield with messengers
All 7 and 11 series coaxial cables including quad shield with messengers

CONNECTORS

	59 AND 6 SERIES	7 AND 11 SERIES
Digicon	D2, Type II and S	D2, S and RG 11
T & B	F Series SNS Series	SNS Series
Corning Gilbert	GF Type AHS, UltraEase and Ultra Range	GAF AHS, UltraEase and Ultra Range
PPC	CMP, EX and AquaTight EX	EX and AquaTight EX
Others	F-Conn, Stirling	F-Conn, Stirling

ORDERING

- Please specify the product name plus the options you require.
- Order Example: CGEL, CE 596
- Packaging: 12 pieces per box

CTB-15



INSULATE
SEAL
PROTECT

SELF FUSING TAPE

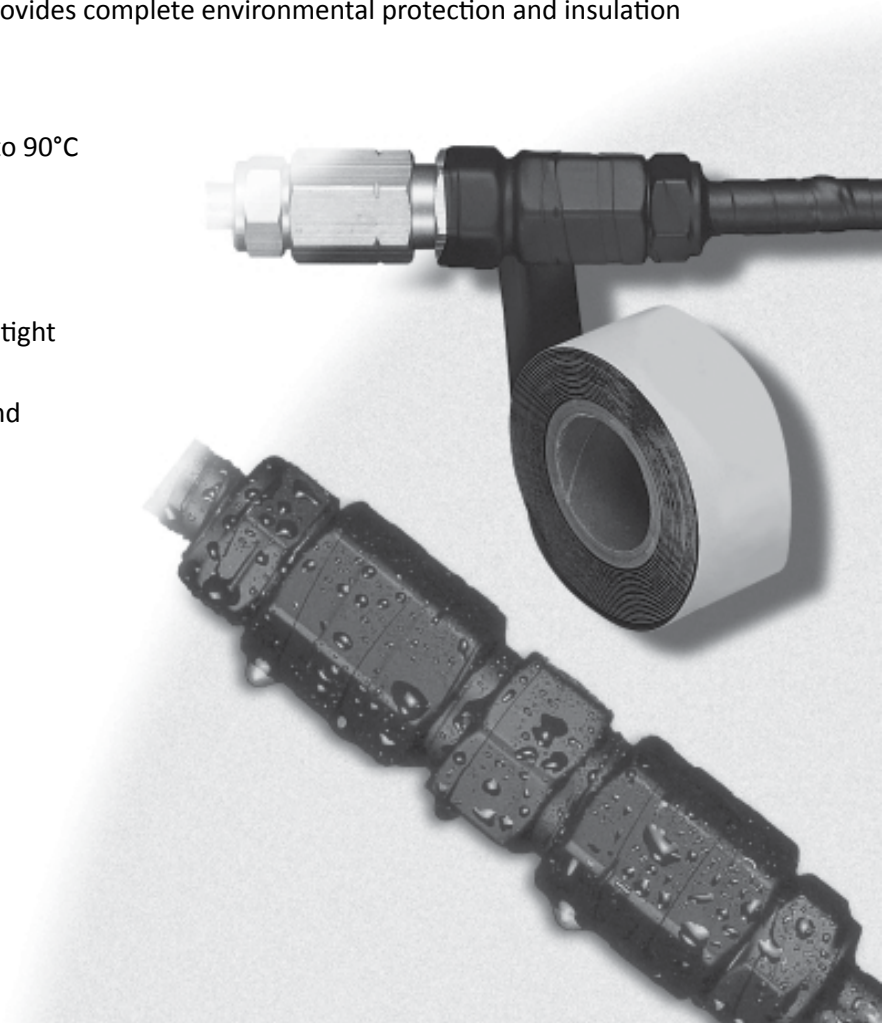
EPR based self fusing tape designed for the Communications industry

FEATURES AND BENEFITS

- Provides protection where heat/flame is prohibited
- Covers any shape including high transition areas and elbows
- Clean strippable
- Layers fuse together to form a boot that provides complete environmental protection and insulation
- UV and ozone resistant
- Proven long term protection
- Continuous operating temperature: -40°C to 90°C

TYPICAL APPLICATIONS

- Environmental protection of connectors in tight locations or when torch is not permitted
- Protect connectors in Cable TV, Wireless and Telecom applications



DIMENSIONS

ORDER NUMBER	WIDTH		THICKNESS		ROLL LENGTH	
	MM	IN	MM	IN	M	FT
CTB-15	38.1	1.5	0.76	0.03	4.57	15

APPLICATION INSTRUCTIONS

- The surface of cable and connector should be clean.
- Start the tape on cable approximately two inches from connector.
- Make sure the tape is stretched during application.
- While stretching the tape, make one wrap on cable ensuring the tape is wrapped onto itself as it will only adhere to itself. Continue wrapping the cable and connector using half overlap layers.
- To terminate, wrap the tape onto itself and place your thumb at the termination point and stretch the tape until it breaks.
- Two layers are recommended
- The loose end of the termination should be thumbed down.

ORDERING

- Please specify the product name plus the options you require.
- Order Example: CTB-15

DROP

3:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

DROP TUBING

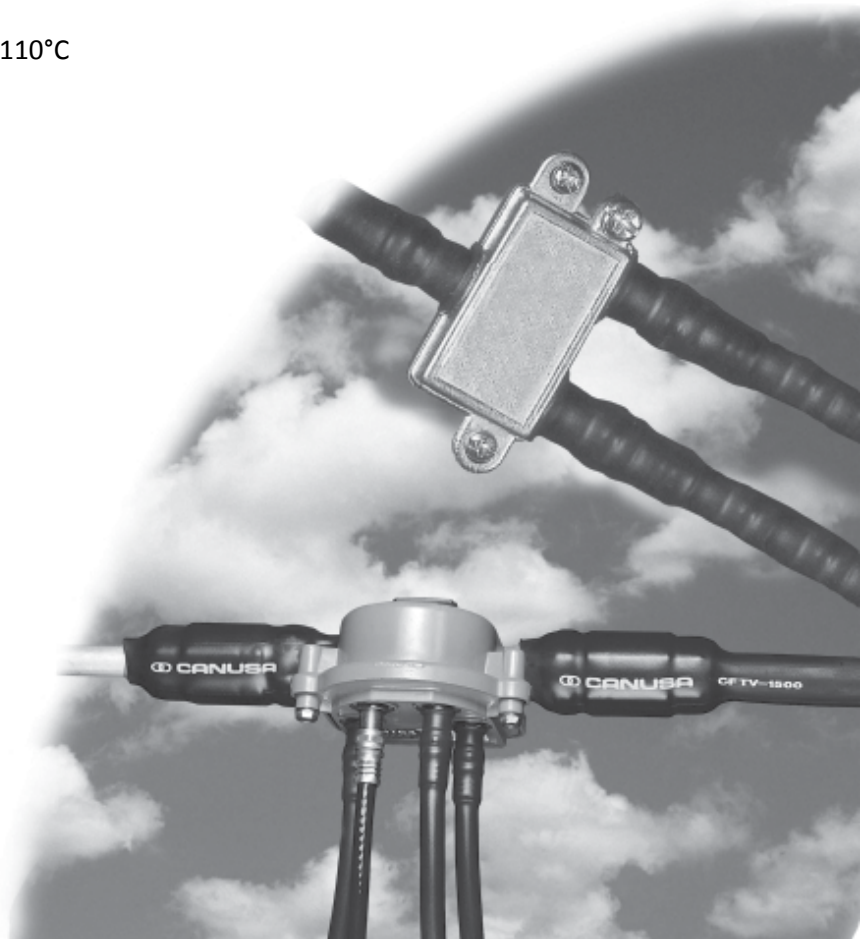
Thin wall heat shrink tubing provides excellent environmental protection and insulation for CATV drop connectors

FEATURES AND BENEFITS

- Shrink ratio: 3:1
- Meltable inner liner encapsulates cable and connection completely
- Excellent UV and ozone resistance
- Resistant to all fluids and solvents
- Accommodates all F-Connectors and cables
- Flexible
- Continuous operating temperature: -55°C to 110°C
- Shrink temperature: 120°C

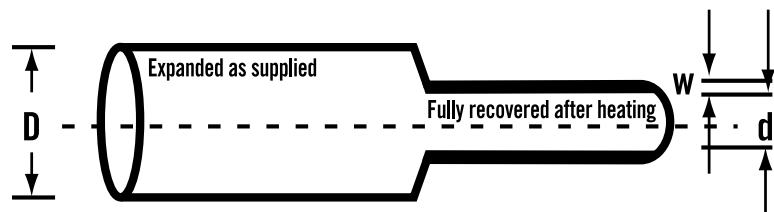
TYPICAL APPLICATIONS

- Sealing of coaxial drop connectors



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED						LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W		MELTABLE WALL THICKNESS (NOM)			
	MM	IN	MM	IN	MM	IN	MM	IN	M	IN
0500	12.7	0.50	5.0	0.19	1.4	0.05	0.9	0.03	1.2	48
0750	19.1	0.75	8.0	0.31	1.7	0.06	1.0	0.04	1.2	48

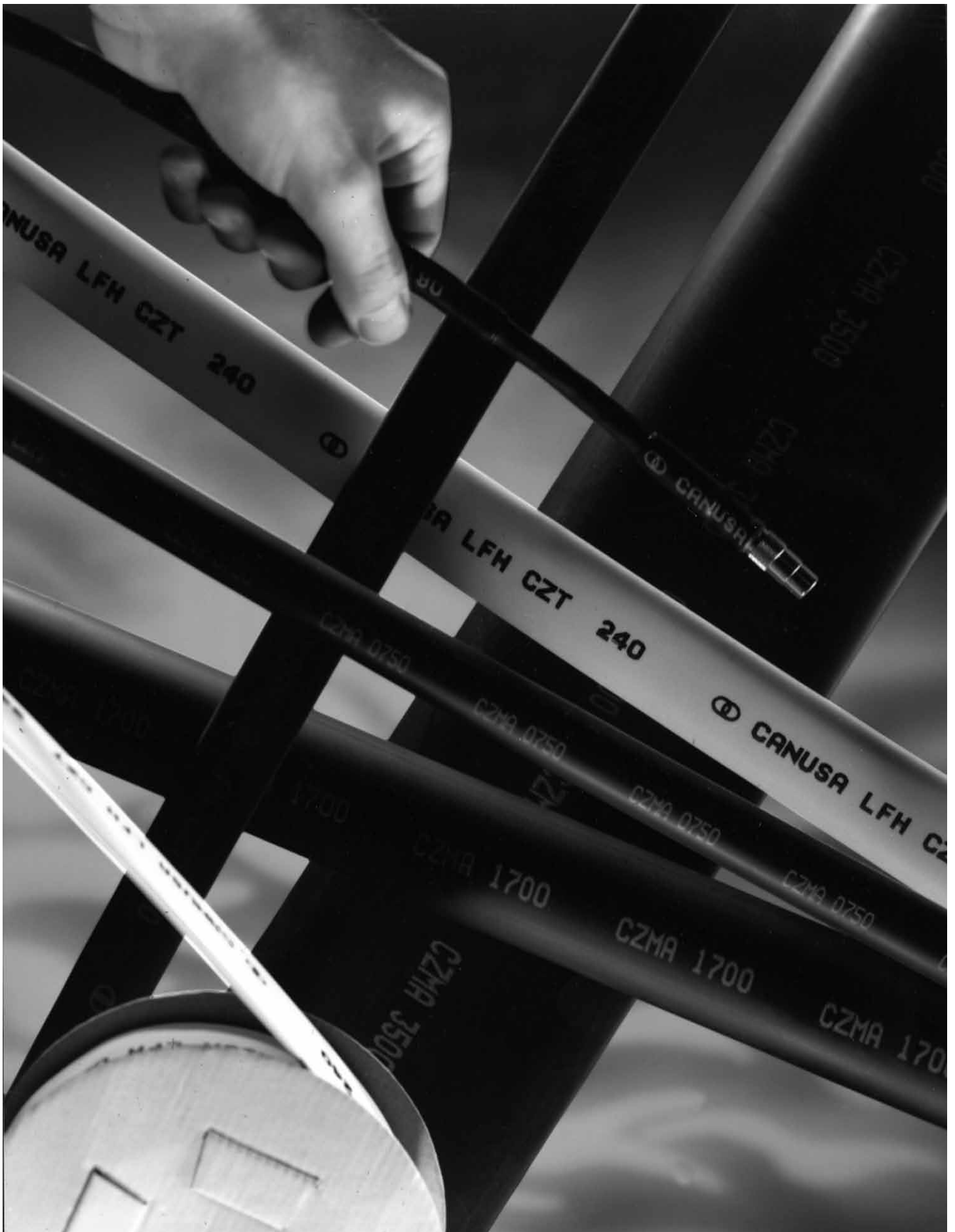


ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resulting wall thickness will be less than specified.
- Options:
 - Color: Black (BK), Blue (BL)
- Order Example: DROP Tubing, 0500, black, unprinted

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

All information contained in this data sheet is believed to be reliable. We advise, however, that customers should separately evaluate the suitability of our products for their particular application. DSG-Canusa and ShawCor give no guarantees in respect of the accuracy or sufficiency of the information presented and disclaim any liability regarding its use. Our responsibilities are only those listed in our Standard Terms and Conditions of Sale for these products. In no instance will we be liable for any eventual, indirect or consequential damage or damages arising from the sale, resale, transfer, use or misuse of the product.



RESOURCE LIBRARY

This section of the DSG-Canusa product catalog includes cross reference charts which position our products alongside our competitors products to help you to choose the DSG-Canusa product that best fits your needs.

Also included within this section is a Cable Accessory Selection Guide intended to assist you in matching DSG-Canusa products by cable type and conductor size.

TYCO TO DSG-CANUSA ELECTRICAL CROSS REFERENCE

TYCO PART NUMBER	DESCRIPTION	DSG-CANUSA PART NUMBER
RNF 100 (1 & 2)	Flexible, multi-purpose heat shrink tubing	CPX 100
DWP	Adhesive lined heat shrink tubing with environmental sealing capability	CPA 100
HRSR	High ratio tubing	CFHR
MWTM series	Tubing, medium wall, coated and uncoated	CFM
WCSM series	Tubing, heavy wall, coated and uncoated	CFW
FCSM series	Tubing, heavy wall, flame retardant	FCFW
ESC series	End caps	CCAP-RL
CBR series	Cable breakout boot, insulating, black	CCB
CRSM series	Wraparound insulating sleeve with rails and stainless steel channels	CRDW
CRSM-CT series	Low voltage wraparound cable tap ("Y" splice) kit	CRDW-CT
HVT 150 series*	15 kV shielded termination, indoor without external grounding kit	CT 150 series*
HVT 150G series	15 kV shielded termination, indoor with external grounding kit	CT 150G series
HVT 150J series	15 kV shielded termination, indoor bare or jacketed concentric neutral cable	CT 150UD series
HVT 150S series*	15 kV shielded termination, outdoor without external grounding kit	CT 150E series*
HVT 150SG series	15 kV shielded termination, outdoor with external grounding kit	CT 150EG series
HVT 150SJ series	15 kV shielded termination, outdoor bare or jacketed concentric neutral cable	CT 150UDE series
HVT 250 series*	25 kV shielded termination, indoor without external grounding kit	CT 250 series*
HVT 250G series	25 kV shielded termination, indoor with external grounding kit	CT 250G series
HVT 250J series	25 kV shielded termination, indoor bare or jacketed concentric neutral cable	CT 250UD series
HVT 250S series*	25 kV shielded termination, outdoor without external grounding kit	CT 250E series*
HVT 250SG series	25 kV shielded termination, outdoor with external grounding kit	CT 250EG series
HVTSJ series	25 kV shielded termination, outdoor bare or jacketed concentric neutral cable	CT 250UDE series
HVT 350 series*	35 kV shielded termination, indoor without external grounding kit	CT 350 series*
HVT 350G series	35 kV shielded termination, indoor with external grounding kit	CT 350G series
HVT 350J series	35 kV shielded termination, indoor bare or jacketed concentric neutral cable	CT 350UD series
HVT 350S series*	35 kV shielded termination, outdoor without external grounding kit	CT 350E series*
HVT 350SG	35 kV shielded termination, outdoor with external grounding kit	CT 350EG series
HVT 350SJ series	35 kV shielded termination, outdoor bare or jacketed concentric neutral cable	CT 350UDE series
HVT 50 series	5 - 8 kV unshielded indoor/outdoor terminations	CT 50N series
HVT 80 series	5 - 8 kV shielded termination, indoor without external grounding kit	CT 80 series
HVT 80G series	5 - 8 kV shielded termination, indoor with external grounding kit	CT 80G series
HVT 80S series	5 - 8 kV shielded termination, outdoor without external grounding kit	CT 80 series
HVT 80SG series	5 - 8 kV shielded termination, outdoor with external grounding kit	CT 80G series
HVS 1510E-R series	15 kV shielded repair joint for bare concentric neutral cable	CJ R1510 series
HVS 1510E-RJ series	15 kV shielded repair joint for jacketed concentric neutral cable	CJ R1510J series
HVS 1510S series	15 kV shielded joint for bare concentric neutral cable	CJ 1510 series
HVS 1510S-J series	15 kV shielded joint for jacketed concentric neutral cable	CJ 1510J series
HVS 1520S series	15 kV shielded joint with tube jacket for metal tape and wire shielded cable	CJ 1520 series
HVS 1520S-W series	15 kV shielded joint with wraparound jacket for metal tap and wire shielded cable	CJ 1520W series
HVS 2510E series	25 kV shielded joint for bare concentric neutral cable	CJ 2510 series
HVS 2510E-J series	25 kV shielded joint for jacketed concentric neutral cable	CJ 2510J series
HVS 2510E-R series	25 kV shielded repair joint for bare concentric neutral cable	CJ R2510 series
HVS 2510E-RJ series	25 kV shielded repair joint for jacketed concentric neutral cable	CJ R2510J series
HVS 2520S series	25 kV shielded joint with tube jacket for metal tap and wire shielded cable	CJ 2520 series

TYCO PART NUMBER	DESCRIPTION	DSG-CANUSA PART NUMBER
HVS-3-1520S series	15 kV, 3/C shielded joint for metal tape and wire shielded cable	CJ 31520 series
HVS-3-2520S series	25 kV, 3/C shielded joint for metal tape and wire shielded cable	CJ 32520 series
HVS-3-500 series	5 - 8 kV, 3/C unshielded splice for unshielded cable	CJ N350 series
HVS 3510E series	35 kV shielded joint for bare concentric neutral cable	CJ 3510 series
HVS 3510-J series	35 kV shielded joint for jacketed concentric neutral cable	CJ 3510J series
HVS 3510E-R series	35 kV shielded repair joint for bare concentric neutral cable	CJ R3510 series
HVS 3510E-RJ series	35 kV shielded repair joint for jacketed concentric neutral cable	CJ R3510J series
HVS 3520 series	35 kV shielded joint with tube jacket for metal tape and wire shielded cable	CJ 3520 series
HVS-3-820S series	5 - 8 kV, 3/C shielded joint for metal tape and wire shielded cable	CJ 3820 series
HVS 500 series	5 - 8 kV unshielded splices	CJ N50 series
HVS 280S series	5 - 8 kV shielded joint with tube jacket for metal tape and wire shielded cable	CJ 820 series
HVS 280S series*	5 - 8 kV shielded joint with wraparound jacket for metal tape and wire shielded cable	CJ 820W series
HVSA-3-1520S series	15 kV, 3/C armored shielded joint for metal tape and wire shielded cable	CJ 3A1520 series
HVSA-3-500 series	5 kV, 3/C armored unshielded splice for unshielded cable	CJ N3A50 series
HVSA-3-820S series	5 - 8 kV, 3/C armored shielded joint for metal tape and wire shielded cable	CJ 3A820 series
HVS-80 series	1/C, PILC/VCLC cable splices	CJ 80 series
HVS-T-80 series	3/C, PILC/VCLC trifurcating/transition splices	CJT 80 series
HVS-T-1590 series	3/C, PILC trifurcating splices	CJT 90 series
HVS-3-1590 series	3/C, PILC in-line splices	CJ 390 series
HVES series	Live end seals for 1/C and 3/C PILC cables	CLES 80/390 series
TFT-E series	1/C cold applied termination	TITAN series
MOD-S-Skirts	Non-tracking rain sheds	CRSA
HVS-EG series	External grounding kits	CFGK
FH 26xx series	Torches, propane type	CTCH
HG series	Heat guns	CHGN
ESA series	Elbow sealing adapter	CESK series
BBIT series	Bus bar insulation tubing, heavy wall	CBTH
BPTM series	Bus bar insulation tubing, medium wall	CBTM
HVBT series	Bus bar insulating tape, heat shrink	CMVBT
MCK-xL series	600 V in-line type motor connection kit, 3 phases	CMTK 1xL
MCK-xV series	600 V stub type motor connection kit, 3 phases	CMTK 1xV
MCK-5-xL series	5 kV in-line type motor connection kit, 3 phases	CMTK 5xL
MCK-5-xV series	5 kV stub type motor connection kit, 3 phases	CMTK 5xV

†Please consult factory for specific requirements

*These kits are not available as standard products

QUIK_SELECT'R

CABLE ACCESSORY SELECTION GUIDE

HOW TO USE THIS GUIDE: IT'S AS EASY AS 1, 2, 3

1. Use the index pages to select cable accessories for single core or three core cables.
Find the voltage class and cable type (15 kV tape shielded, etc.) and turn to the respective page and section
2. Find your conductor size
3. Select the products you need across the conductor size line

PURPOSE OF THIS GUIDE

This guide has been developed to assist contractors, estimators and sales people doing takeoffs or responding to bid requests. The guide allows you to find a wide variety of products that will save valuable time and man hours on the job. For example: if you have 1/C, 2/0 AWG, 5 kV copper tape shielded cable and 3/C armored, 350 kcmil, 15 kV copper tape shielded cable to be installed, at a minimum you will need to consider ordering the following:

- Live front terminations (indoor or outdoor) or dead front elbows
- Straight joints
- End caps if the cable will not be terminated or spliced within 24 hr
- Jacket repair sleeves to repair damage during shipment or during the cable pull
- Motor termination kit for hook-up to a 5 kV circuit

The descriptions on page 190 provide further details on the product application and uses on 1/C and 3/C cables

PRODUCT OPTIONS		CABLE ACCESSORY DESCRIPTIONS
1/C TERMINAL SEAL	3/C TERMINAL SEALS	>1 kV 1/C, 3/C AND 3/C ARMORED LOW VOLTAGE TERMINAL SEALS
		CFM medium wall tubing is used to seal low voltage cable to the terminal. The tubing is supplied in 48 in lengths and cut to size for 1/C terminal seals. CCB cable breakout boots are combined with the CFM Tubing to seal the crotch area where the individual phases exit the common jacket. Separate sealant is used to seal ground wires.
1/C INDOOR & OUTDOOR	3/C INDOOR & OUTDOOR	5 - 35 kV, 1/3, 3/C (ARMORED) MEDIUM VOLTAGE LIVE-FRONT TERMINATIONS
		CT series terminations are supplied as either indoor or outdoor, live-front terminations. Indoor is where the termination is not exposed to direct precipitation (CT xxx or CT xxxG). Outdoor kits are for when the termination is exposed to direct precipitation (CT xxxE or CT xxxEG). Termination kits for unshielded cables are suitable for both indoor and outdoor applications. Three core kits are for armored and unarmored cables. They use three, single core terminations plus a conversion kit.
1/C ELBOW SEAL KIT	3/C ELBOW SEAL KIT	1/C, 3/C (ARMORED) DEAD-FRONT ELBOW SEAL KITS, W & W/O GROUND KITS
		CESK series kits seal and mechanically reinforce dead-front, load break elbows. CESK (G) kits are the same as above but include an external grounding kit for tape shield cables. Three core cables can be totally sealed with a CT3MODx kit to convert the three core cable into three, single cores, and adding the three CESK or CESK(G) kits for the elbow seals.
1/C SPLICES	3/C SPLICES	600 V - 1 kV, 1/C AND 3/C (ARMORED) SPLICES
		600 V - 1 kV, CFM series heavy wall tubing is supplied in 48 in tubes for field cutting. The tube is cut so that it is at least 4 in longer than the butt splice it is insulating and sealing. A separately purchased CRDW wraparound sleeve is combined with the three CFW tubes to seal across the spliced three core cable from jacket to jacket.
1/C JOINTS W/TUBE JACKET	3/C JOINTS	5 - 35 kV, 1/C AND 3/C (ARMORED) SPLICES
		CJ series joints are for 1/C joints with a lower cost tubular splice jacket for some 8 - 35 kV joints. A wraparound jacket sleeve version is provided for the longer joints, including all 3/C and 3/C armored joints. Joints do not come with butt splice connectors. Parallel crimp connectors are provided for connecting the drain wires to the ground braid and constant force springs are provided for attaching the braid to the metal tape shield on CJ xx20 series kits.
1/C & 3/C JACKET REPAIR	1/C & 3/C END CAPS	600 V - 35 kV, 1/C AND 3/C (ARMORED) JACKET REPAIR AND END CAPS
		CRDW and CRLS are wraparound repair sleeves for insulation and jacket repair on cables rated to 1 kV and for jacket repair only above 1 kV. CRDW has stainless steel channels to hold the rails and form a tube. CRLS is RAIL-LESS®. CRDW is unsuitable for 5 kV unshielded cables because of the stainless steel channels. They are acceptable for jacket repair on all shielded cables 5 -- 35 kV. CCAP series end caps are for live-ending up to 1 kV, 1/C cables and for sealing all other cables.
600 V AND 5 kV STUB OR IN-LINE MOTOR CONNECTIONS		600 V AND 5kV, MOTOR CONNECTION KITS
		CMTK motor connection kits are available in two configurations: the stub type which take up the least room in the motor box, and the in-line type where generous space is provided by the motor box. The CMTK 10V (stub) and CMTK 10L (in-line) series kits are rated to 1 kV (480 V motors). CMTK 50V (stub) and CMTK 50L (in-line) series kits are rated to 5 kV (2300 - 4160 V motors).

QUIK_SELECT'R INDEX

SINGLE CORE CABLES

UNSHIELDED CABLES				PAGE
1/C	600 V	XLPE or EPR/PVC or EPR/CSPE		193
1/C	5 kV	Unshielded XLPE or EPR/PVC or EPR/CSPE		193
SHIELDED CABLES				
1/C	5 kV	90 - 115 mils	Copper Tape	194
1/C	5 kV	90 - 115 mils	Drain Wire	194
1/C	5 kV	115 mils	UniShield®	195
1/C	15 kV	175 - 220 mils	Copper tape	195
1/C	15 kV	175 - 220 mils	Drain Wire	196
1/C	15 kV	175 - 220 mils	UniShield®	196
1/C	15 kV	175 - 220 mils	LC Type (longitudinally corrugated)	197
1/C	15 kV	175 - 220 mils	Bare Concentric Neutral (URD)	197
1/C	15 kV	175 - 220 mils	Jacketed Concentric Neutral (JCN)	198
1/C	25 - 28 kV	260 - 280 mils	Copper Tape	198
1/C	25 - 28 kV	260 - 280 mils	Drain Wire	199
1/C	25 - 28 kV	260 - 280 mils	UniShield®	200
1/C	25 - 28 kV	260 - 280 mils	LC Type (longitudinally corrugated)	200
1/C	25 - 28 kV	260 - 280 mils	Bare Concentric Neutral (URD)	201
1/C	25 - 28 kV	260 - 280 mils	Jacketed Concentric Neutral (JCN)	201
1/C	35 kV	345 mils	Copper Tape	202
1/C	35 kV	345 mils	Drain Wire	202
1/C	35 kV	345 mils	UniShield®	203
1/C	35 kV	345 mils	LC Type (longitudinally corrugated)	203
1/C	35 kV	345 mils	Bare Concentric Neutral (URD)	204
1/C	35 kV	345 mils	Jacketed Concentric Neutral (JCN)	204

THREE CORE CABLES

UNSHIELDED CABLES				PAGE
3/C Unarmored	600 V	XLPE or EPR/PVC or EPR/CSPE		205
3/C Armored	600 V	XLPE or EPR/PVC or EPR/CSPE		205
3/C Unarmored	5 kV	Unshielded XLPE or EPR/PVC or EPR/CSPE		206
3/C Armored	5 kV	Unshielded XLPE or EPR/PVC or EPR/CSPE		206
SHIELDED CABLES				
3/C Unarmored	5 kV	90 - 115 mils	Copper Tape	207
3/C Armored	5 kV	90 - 115 mils	Copper Tape	207
3/C Unarmored	15 kV	175 - 220 mils	Copper Tape	208
3/C Armored	15 kV	175 - 220 mils	Copper Tape	208
3/C Unarmored	25 - 28 kV	260 - 280 mils	Copper Tape	209
3/C Armored	25 - 28 kV	260 - 280 mils	Copper Tape	209
3/C Unarmored	35 kV	345 mils	Copper Tape	210
3/C Armored	35 kV	345 mils	Copper Tape	210

1/C, 600 V CABLE - XLP, EPR/PVC OR EPR/CSPE

CONDUCTOR SIZE	TERMINAL LUG SEAL*	STRAIGHT SPLICE*	END CAP	JACKET/INSULATION REPAIR	MOTOR CONNECTION KIT	
				RAILED	STUB TYPE	IN-LINE TYPE
#8	CFM-Blk-0750-6-lined	CFW-Blk-0500-6-lined	CCAP 0400-RL	Not Applicable	CMTK 12V	CMTK 11L
#6	CFM-Blk-0750-6-lined	CFW-Blk-0500-6-lined	CCAP 0400-RL	Not Applicable	CMTK 12V	CMTK 11L
#4	CFM-Blk-0750-6-lined	CFW-Blk-1100-6-lined	CCAP 0400-RL	CRDW-1-48	CMTK 12V	CMTK 11L
#2	CFM-Blk-1100-6-lined	CFW-Blk-1100-6-lined	CCAP 0400-RL	CRDW-1-48	CMTK 12V	CMTK 11L
#1	CFM-Blk-1100-6-lined	CFW-Blk-1500-6-lined	CCAP 0750-RL	CRDW-1-48	CMTK 13V	CMTK 11L
1/0	CFM-Blk-1100-6-lined	CFW-Blk-1500-6-lined	CCAP 0750-RL	CRDW-1-48	CMTK 13V	CMTK 11L
2/0	CFM-Blk-1100-6-lined	CFW-Blk-1500-6-lined	CCAP 0750-RL	CRDW-1-48	CMTK 13V	CMTK 11L
3/0	CFM-Blk-1100-6-lined	CFW-Blk-1500-6-lined	CCAP 0750-RL	CRDW-1-48	CMTK 13V	CMTK 11L
4/0	CFM-Blk-1100-6-lined	CFW-Blk-1500-6-lined	CCAP 0750-RL	CRDW-1-48	CMTK 13V	CMTK 11L
250	CFM-Blk-1700-6-lined	CFW-Blk-2000-6-lined	CCAP 1100-RL	CRDW-1-48	CMTK 14V	CMTK 12L
300	CFM-Blk-1700-6-lined	CFW-Blk-2000-6-lined	CCAP 1100-RL	CRDW-1-48	CMTK 14V	CMTK 12L
350	CFM-Blk-1700-6-lined	CFW-Blk-2000-6-lined	CCAP 1100-RL	CRDW-1-48	CMTK 14V	CMTK 12L
400	CFM-Blk-1700-6-lined	CFW-Blk-2000-6-lined	CCAP 1100-RL	CRDW-1-48	CMTK 14V	CMTK 12L
500	CFM-Blk-1700-6-lined	CFW-Blk-2700-6-lined	CCAP 1100-RL	CRDW-1-48	CMTK 14V	CMTK 12L
600	CFM-Blk-2050-6-lined	CFW-Blk-2700-6-lined	CCAP 1500-RL	CRDW-2-48	Not Available	CMTK 12L
750	CFM-Blk-2050-6-lined	CFW-Blk-2700-6-lined	CCAP 1500-RL	CRDW-2-48	Not Available	CMTK 12L
1000	CFM-Blk-2050-6-lined	CFW-Blk-2700-6-lined	CCAP 1500-RL	CRDW-2-48	Not Available	CMTK 12L

*The CFM and CFW tubing lengths should be purchased in 48 in lengths and cut to the length shown.
For example: for a #2 butt splice less than 4 in long, you would cut eight, 6 in pieces

1/C, 5 kV UNSHIELDED

90 - 115 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION INDOOR OR OUTDOOR	COLD SHRINK TERMINATION INDOOR OR OUTDOOR	HEAT SHRINK STRAIGHT SPLICE WITH TUBE	END CAP	JACKET REPAIR SLEEVE	MOTOR CONNECTION KIT	
					RAILED	STUB TYPE	IN-LINE TYPE
	CT 50N Series	TITAN NS Series	CJ N50 Series				
#8	CT 51N	-	CJ N51	CCAP 0750-RL	Not Applicable	CMTK 51V	CMTK 51L
#6	CT 51N	-	CJ N51	CCAP 0750-RL	Not Applicable	CMTK 51V	CMTK 51L
#4	CT 51N	TITAN NS Series	CJ N51	CCAP 0750-RL	Not Applicable	CMTK 51V	CMTK 51L
#2	CT 51N	TITAN 050 NS	CJ N51	CCAP 0750-RL	Not Applicable	CMTK 51V	CMTK 51L
#1	CT 51N	TITAN 050 NS	CJ N51	CCAP 0750-RL	Not Applicable	CMTK 52V	CMTK 51L
1/0	CT 51N	TITAN 050 NS	CJ N51	CCAP 0750-RL	Not Applicable	CMTK 52V	CMTK 51L
2/0	CT 51N	TITAN 050 NS	CJ N51	CCAP 1500-RL	Not Applicable	CMTK 52V	CMTK 51L
3/0	CT 52N	TITAN 051 NS	CJ N52	CCAP 1500-RL	Not Applicable	CMTK 52V	CMTK 51L
4/0	CT 52N	TITAN 051 NS	CJ N52	CCAP 1500-RL	Not Applicable	CMTK 52V	CMTK 51L
250	CT 52N	TITAN 052 NS	CJ N52	CCAP 1500-RL	Not Applicable	CMTK 52V	CMTK 51L
300	CT 52N	TITAN 052 NS	CJ N52	CCAP 1500-RL	Not Applicable	CMTK 53V	CMTK 52L
350	CT 52N	TITAN 052 NS	CJ N52	CCAP 1500-RL	Not Applicable	CMTK 53V	CMTK 52L
400	CT 52N	TITAN 052 NS	CJ N53	CCAP 1500-RL	Not Applicable	CMTK 53V	CMTK 52L
500	CT 52N	TITAN 052 NS	CJ N53	CCAP 2050-RL	Not Applicable	CMTK 53V	CMTK 52L
600	CT 53N	TITAN 053 NS	CJ N53	CCAP 2050-RL	Not Applicable	CMTK 53V	CMTK 52L
750	CT 53N	TITAN 053 NS	CJ N53	CCAP 2050-RL	Not Applicable	CMTK 53V	CMTK 52L
1000	CT 53N	TITAN 053 NS	CJ N53	CCAP 2050-RL	Not Applicable	CMTK 53V	CMTK 52L

* For references to **Titan NS Series** please see page 57 to select the correct TITAN size for your application.

1/C, 5 kV SHIELDED CABLES - COPPER TAPE

GROUNDED 90 MILS OR UNGROUNDED 115 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		HEAT SHRINK STRAIGHT JOINT		COLD SHRINK STRAIGHT JOINT	END CAP	JACKET REPAIR SLEEVE	MOTOR CONNECTION KITS	
	INDOOR	OUTDOOR	INDOOR	OUTDOOR	W/TUBE	W/WRAP- AROUND			RAILED	STUB TYPE	IN-LINE TYPE
	CT G Series		TITAN G Series		CJ 20 Series				CSJ 20 Series		
#8	CT 081G	CT 081EG	-	-	CJ 821	CJ 821W	-	CCAP 1100-RL	CDRW-1-48	CMTK 51V	CMTK 51L
#6	CT 081G	CT 081EG	-	-	CJ 821	CJ 821W	-	CCAP 1100-RL	CDRW-1-48	CMTK 51V	CMTK 51L
#4	CT 081G	CT 081EG	-	-	CJ 821	CJ 821W	CSJ 820	CCAP 1100-RL	CDRW-1-48	CMTK 51V	CMTK 51L
#2	CT 081G	CT 081EG	TITAN G Series	TITAN G Series	CJ 821	CJ 821W	CSJ 820	CCAP 1100-RL	CDRW-1-48	CMTK 51V	CMTK 51L
#1	CT 081G	CT 081EG	TITAN 050 S	TITAN 050 SE	CJ 821	CJ 821W	CSJ 820	CCAP 1100-RL	CDRW-1-48	CMTK 52V	CMTK 51L
1/0	CT 082G	CT 082EG	TITAN 051 S	TITAN 051 SE	CJ 821	CJ 821W	CSJ 820	CCAP 1100-RL	CDRW-1-48	CMTK 52V	CMTK 51L
2/0	CT 082G	CT 082EG	TITAN 051 S	TITAN 051 SE	CJ 821	CJ 821W	CSJ 820	CCAP 1100-RL	CDRW-1-48	CMTK 52V	CMTK 51L
3/0	CT 082G	CT 082EG	TITAN 051 S	TITAN 051 SE	CJ 822	CJ 822W	CSJ 821	CCAP 1500-RL	CDRW-1-48	CMTK 52V	CMTK 51L
4/0	CT 082G	CT 082EG	TITAN 052 S	TITAN 052 SE	CJ 822	CJ 822W	CSJ 821	CCAP 1500-RL	CDRW-1-48	CMTK 52V	CMTK 51L
250	CT 082G	CT 082EG	TITAN 052 S	TITAN 052 SE	CJ 822	CJ 822W	CSJ 821	CCAP 1500-RL	CDRW-1-48	CMTK 52V	CMTK 51L
300	CT 083G	CT 083EG	TITAN 052 S	TITAN 052 SE	CJ 822	CJ 822W	CSJ 822	CCAP 1500-RL	CDRW-1-48	CMTK 53V	CMTK 52L
350	CT 083G	CT 083EG	TITAN 052 S	TITAN 052 SE	CJ 823	CJ 823W	CSJ 822	CCAP 1500-RL	CDRW-2-48	CMTK 53V	CMTK 52L
400	CT 083G	CT 083EG	TITAN 052 S	TITAN 052 SE	CJ 823	CJ 823W	CSJ 822	CCAP 1500-RL	CDRW-2-48	CMTK 53V	CMTK 52L
500	CT 083G	CT 083EG	TITAN 052 S	TITAN 052 SE	CJ 823	CJ 823W	CSJ 822	CCAP 2750-RL	CDRW-2-48	CMTK 53V	CMTK 52L
600	CT 084G	CT 084EG	TITAN 053 S	TITAN 053 SE	CJ 823	CJ 823W	CSJ 823	CCAP 2750-RL	CDRW-2-48	CMTK 53V	CMTK 52L
750	CT 084G	CT 084EG	TITAN 053 S	TITAN 053 SE	CJ 823	CJ 823W	CSJ 823	CCAP 2750-RL	CDRW-2-48	CMTK 53V	CMTK 52L
1000	CT 084G	CT 084EG	TITAN 053 S	TITAN 053 SE	CJ 824	CJ 824W	CSJ 823	CCAP 2750-RL	CDRW-2-48	CMTK 53V	CMTK 52L

* For references to **Titan G Series** please see page 53 to select the correct TITAN size for your application.

1/C, 5 kV SHIELDED CABLES - DRAIN WIRE

GROUNDED 90 MILS OR UNGROUNDED 115 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		HEAT SHRINK STRAIGHT JOINT		COLD SHRINK STRAIGHT JOINT	END CAP	JACKET REPAIR SLEEVE	MOTOR CONNECTION KITS	
	INDOOR	OUTDOOR	INDOOR	OUTDOOR	W/TUBE	W/WRAP- AROUND			RAILED	STUB TYPE	IN-LINE TYPE
	CT G Series		TITAN G Series		CJ 20 Series				CSJ 20 Series		
#8	CT 081	CT 081E	-	-	CJ 821	CJ 821W	-	CCAP 1100-RL	CRDW-1-48	CMTK 51V	CMTK 51L
#6	CT 081	CT 081E	-	-	CJ 821	CJ 821W	-	CCAP 1100-RL	CRDW-1-48	CMTK 51V	CMTK 51L
#4	CT 081	CT 081E	TITAN G Series	TITAN G Series	CJ 821	CJ 821W	CSJ 820	CCAP 1100-RL	CRDW-1-48	CMTK 51V	CMTK 51L
#2	CT 081	CT 081E	TITAN 050 S	TITAN 050 SE	CJ 821	CJ 821W	CSJ 820	CCAP 1100-RL	CRDW-1-48	CMTK 51V	CMTK 51L
#1	CT 081	CT 081E	TITAN 050 S	TITAN 050 SE	CJ 821	CJ 821W	CSJ 820	CCAP 1100-RL	CRDW-1-48	CMTK 52V	CMTK 51L
1/0	CT 082	CT 082E	TITAN 050 S	TITAN 050 SE	CJ 821	CJ 821W	CSJ 820	CCAP 1100-RL	CRDW-1-48	CMTK 52V	CMTK 51L
2/0	CT 082	CT 082E	TITAN 050 S	TITAN 050 SE	CJ 821	CJ 821W	CSJ 820	CCAP 1100-RL	CRDW-1-48	CMTK 52V	CMTK 51L
3/0	CT 082	CT 082E	TITAN 051 S	TITAN 051 SE	CJ 822	CJ 822W	CSJ 821	CCAP 1500-RL	CRDW-1-48	CMTK 52V	CMTK 51L
4/0	CT 082	CT 082E	TITAN 051 S	TITAN 051 SE	CJ 822	CJ 822W	CSJ 821	CCAP 1500-RL	CRDW-1-48	CMTK 52V	CMTK 51L
250	CT 082	CT 082E	TITAN 052 S	TITAN 052 SE	CJ 822	CJ 822W	CSJ 821	CCAP 1500-RL	CRDW-1-48	CMTK 52V	CMTK 51L
300	CT 083	CT 083E	TITAN 052 S	TITAN 052 SE	CJ 822	CJ 822W	CSJ 822	CCAP 1500-RL	CRDW-1-48	CMTK 53V	CMTK 52L
350	CT 083	CT 083E	TITAN 052 S	TITAN 052 SE	CJ 823	CJ 823W	CSJ 822	CCAP 1500-RL	CRDW-2-48	CMTK 53V	CMTK 52L
400	CT 083	CT 083E	TITAN 052 S	TITAN 052 SE	CJ 823	CJ 823W	CSJ 822	CCAP 1500-RL	CRDW-2-48	CMTK 53V	CMTK 52L
500	CT 083	CT 083E	TITAN 052 S	TITAN 052 SE	CJ 823	CJ 823W	CSJ 822	CCAP 2750-RL	CRDW-2-48	CMTK 53V	CMTK 52L
600	CT 084	CT 084E	TITAN 053 S	TITAN 053 SE	CJ 823	CJ 823W	CSJ 823	CCAP 2750-RL	CRDW-2-48	CMTK 53V	CMTK 52L
750	CT 084	CT 084E	TITAN 053 S	TITAN 053 SE	CJ 823	CJ 823W	CSJ 823	CCAP 2750-RL	CRDW-2-48	CMTK 53V	CMTK 52L
1000	CT 084	CT 084E	TITAN 053 S	TITAN 053 SE	CJ 824	CJ 824W	CSJ 823	CCAP 2750-RL	CRDW-2-48	CMTK 53V	CMTK 52L

* For references to **Titan G Series** please see page 53 to select the correct TITAN size for your application.

1/C, 5 kV SHIELDED CABLES - UNISHIELD®

8 kV GROUNDED OR 5 kV UNGROUNDED 115 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATIONS		COLD SHRINK TERMINATIONS		HEAT SHRINK STRAIGHT JOINTS		COLD SHRINK STRAIGHT JOINT	END CAP	JACKET REPAIR SLEEVES	MOTOR CONNECTION KITS	
	INDOOR	OUTDOOR	INDOOR	OUTDOOR	W/TUBE	W/WRAP- AROUND			RAILED	STUB TYPE	IN-LINE TYPE
	CT G Series		TITAN G Series		CJ 20 Series				CSJ 20 Series		
#8	CT 081	CT 081E	-	-	CJ 821	CJ 821W	-	CCAP 1100-RL	CDRW-1-48	CMTK 51V	CMTK 51L
#6	CT 081	CT 081E	-	-	CJ 821	CJ 821W	-	CCAP 1100-RL	CDRW-1-48	CMTK 51V	CMTK 51L
#4	CT 081	CT 081E	TITAN G Series	TITAN G Series	CJ 821	CJ 821W	CSJ 820	CCAP 1100-RL	CDRW-1-48	CMTK 51V	CMTK 51L
#2	CT 081	CT 081E	TITAN 050 S	TITAN 050 SE	CJ 821	CJ 821W	CSJ 820	CCAP 1100-RL	CDRW-1-48	CMTK 51V	CMTK 51L
#1	CT 081	CT 081E	TITAN 050 S	TITAN 050 SE	CJ 821	CJ 821W	CSJ 820	CCAP 1100-RL	CDRW-1-48	CMTK 52V	CMTK 51L
1/0	CT 082	CT 082E	TITAN 050 S	TITAN 050 SE	CJ 821	CJ 821W	CSJ 820	CCAP 1100-RL	CDRW-1-48	CMTK 52V	CMTK 51L
2/0	CT 082	CT 082E	TITAN 050 S	TITAN 050 SE	CJ 821	CJ 821W	CSJ 820	CCAP 1100-RL	CDRW-1-48	CMTK 52V	CMTK 51L
3/0	CT 082	CT 082E	TITAN 051 S	TITAN 051 SE	CJ 822	CJ 822W	CSJ 821	CCAP 1100-RL	CDRW-1-48	CMTK 52V	CMTK 51L
4/0	CT 082	CT 082E	TITAN 051 S	TITAN 051 SE	CJ 822	CJ 822W	CSJ 821	CCAP 1500-RL	CDRW-1-48	CMTK 52V	CMTK 51L
250	CT 082	CT 082E	TITAN 052 S	TITAN 052 SE	CJ 822	CJ 822W	CSJ 821	CCAP 1500-RL	CDRW-1-48	CMTK 52V	CMTK 51L
300	CT 083	CT 083E	TITAN 052 S	TITAN 052 SE	CJ 822	CJ 822W	CSJ 822	CCAP 1500-RL	CDRW-1-48	CMTK 53V	CMTK 52L
350	CT 083	CT 083E	TITAN 052 S	TITAN 052 SE	CJ 823	CJ 823W	CSJ 822	CCAP 1500-RL	CDRW-1-48	CMTK 53V	CMTK 52L
400	CT 083	CT 083E	TITAN 052 S	TITAN 052 SE	CJ 823	CJ 823W	CSJ 822	CCAP 1500-RL	CDRW-2-48	CMTK 53V	CMTK 52L
500	CT 083	CT 083E	TITAN 052 S	TITAN 052 SE	CJ 823	CJ 823W	CSJ 822	CCAP 2750-RL	CDRW-2-48	CMTK 53V	CMTK 52L
600	CT 084	CT 084E	TITAN 053 S	TITAN 053 SE	CJ 823	CJ 823W	CSJ 823	CCAP 2750-RL	CDRW-2-48	CMTK 53V	CMTK 52L
750	CT 084	CT 084E	TITAN 053 S	TITAN 053 SE	CJ 823	CJ 823W	CSJ 823	CCAP 2750-RL	CDRW-2-48	CMTK 53V	CMTK 52L
1000	CT 084	CT 084E	TITAN 053 S	TITAN 053 SE	CJ 824	CJ 824W	CSJ 823	CCAP 2750-RL	CDRW-2-48	CMTK 53V	CMTK 52L

* For references to **Titan G Series** please see page 53 to select the correct TITAN size for your application.

1/C, 15 kV SHIELDED CABLES - COPPER TAPE

GROUNDING 175 MILS OR UNGROUNDING 220 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATIONS		COLD SHRINK TERMINATIONS		HEAT SHRINK STRAIGHT JOINTS		COLD SHRINK STRAIGHT JOINTS	END CAP	JACKET REPAIR SLEEVES
	INDOOR	OUTDOOR	INDOOR	OUTDOOR	W/TUBE	W/WRAP- AROUND			RAILED
	CT G Series		TITAN G Series		CJ 20 Series				CSJ 20 Series
#4	CT 151G	CT 151EG	-	-	CJ 1521	CJ 1521W	-	CCAP 1700-RL	CRDW-1-48
#2	CT 151G	CT 151EG	TITAN G Series	TITAN G Series	CJ 1521	CJ 1521W	CSJ 1520	CCAP 1700-RL	CRDW-1-48
#1	CT 151G	CT 151EG	TITAN 151 S	TITAN 151 SE	CJ 1521	CJ 1521W	CSJ 1521	CCAP 1700-RL	CRDW-1-48
1/0	CT 151G	CT 151EG	TITAN G Series	TITAN G Series	CJ 1521	CJ 1521W	CSJ 1521	CCAP 1700-RL	CRDW-1-48
2/0	CT 151G	CT 151EG	TITAN 152 S	TITAN 152 SE	CJ 1521	CJ 1521W	CSJ 1522	CCAP 1700-RL	CRDW-1-48
3/0	CT 151G	CT 151EG	TITAN 152 S	TITAN 152 SE	CJ 1521	CJ 1521W	CSJ 1522	CCAP 1700-RL	CRDW-2-48
4/0	CT 151G	CT 151EG	TITAN 152 S	TITAN 152 SE	CJ 1521	CJ 1521W	CSJ 1522	CCAP 1700-RL	CRDW-2-48
250	CT 152G	CT 152EG	TITAN G Series	TITAN G Series	CJ 1522	CJ 1522W	CSJ 1522	CCAP 2750-RL	CRDW-2-48
300	CT 152G	CT 152EG	TITAN G Series	TITAN G Series	CJ 1522	CJ 1522W	CSJ 1522	CCAP 2750-RL	CRDW-2-48
350	CT 152G	CT 152EG	TITAN 153 S	TITAN 153 SE	CJ 1522	CJ 1522W	CSJ 1522	CCAP 2750-RL	CRDW-2-48
400	CT 153G	CT 153EG	TITAN 153 S	TITAN 153 SE	CJ 1522	CJ 1522W	CSJ 1523	CCAP 2750-RL	CRDW-2-48
500	CT 153G	CT 153EG	TITAN 153 S	TITAN 153 SE	CJ 1523	CJ 1523W	CSJ 1523	CCAP 2750-RL	CRDW-2-48
600	CT 153G	CT 153EG	TITAN 153 S	TITAN 153 SE	CJ 1523	CJ 1523W	CSJ 1523	CCAP 2750-RL	CRDW-2-48
750	CT 153G	CT 153EG	TITAN 153 S	TITAN 153 SE	CJ 1523	CJ 1523W	CSJ 1523	CCAP 2750-RL	CRDW-2-48
1000	CT 153G	CT 153EG	TITAN 154 S	TITAN 154 SE	CJ 1523	CJ 1524W	CSJ 1524	CCAP 2750-RL	CRDW-2-48

* For references to **Titan G Series** please see page 53 to select the correct TITAN size for your application.

1/C, 15 kV SHIELDED CABLES - DRAIN WIRE

GROUNDING 175 MILS OR UNGROUNDING 220 MILS

CONDUCTOR SIZE	LIVEFRONT TERMINATION		COLD SHRINK TERMINATIONS		STRAIGHT JOINT		COLD SHRINK STRAIGHT JOINTS	END CAP	JACKET REPAIR SLEEVE
	INDOOR	OUTDOOR	INDOOR	OUTDOOR	W/TUBE	W/WRAP- AROUND			RAILED
	CT G Series		TITAN G Series		CJ 20 Series		CSJ 20 Series		
#4	CT 151	CT 151E	-	-	CJ 1521	CJ 1521W	-	CCAP 1700-RL	CRDW-1-48
#2	CT 151	CT 151E	TITAN G Series	TITAN G Series	CJ 1521	CJ 1521W	CSJ 1520	CCAP 1700-RL	CRDW-1-48
#1	CT 151	CT 151E	TITAN 151 S	TITAN 151 SE	CJ 1521	CJ 1521W	CSJ 1521	CCAP 1700-RL	CRDW-1-48
1/0	CT 151	CT 151E	TITAN G Series	TITAN G Series	CJ 1521	CJ 1521W	CSJ 1521	CCAP 1700-RL	CRDW-1-48
2/0	CT 151	CT 151E	TITAN 152 S	TITAN 152 SE	CJ 1521	CJ 1521W	CSJ 1522	CCAP 1700-RL	CRDW-1-48
3/0	CT 151	CT 151E	TITAN 152 S	TITAN 152 SE	CJ 1521	CJ 1521W	CSJ 1522	CCAP 1700-RL	CRDW-2-48
4/0	CT 151	CT 151E	TITAN 152 S	TITAN 152 SE	CJ 1521	CJ 1521W	CSJ 1522	CCAP 1700-RL	CRDW-2-48
250	CT 152	CT 152E	TITAN G Series	TITAN G Series	CJ 1522	CJ 1522W	CSJ 1522	CCAP 2750-RL	CRDW-2-48
300	CT 152	CT 152E	TITAN G Series	TITAN G Series	CJ 1522	CJ 1522W	CSJ 1522	CCAP 2750-RL	CRDW-2-48
350	CT 152	CT 152E	TITAN 153 S	TITAN 153 SE	CJ 1522	CJ 1522W	CSJ 1522	CCAP 2750-RL	CRDW-2-48
400	CT 153	CT 153E	TITAN 153 S	TITAN 153 SE	CJ 1522	CJ 1522W	CSJ 1523	CCAP 2750-RL	CRDW-2-48
500	CT 153	CT 153E	TITAN 153 S	TITAN 153 SE	CJ 1523	CJ 1523W	CSJ 1523	CCAP 2750-RL	CRDW-2-48
600	CT 153	CT 153E	TITAN 153 S	TITAN 153 SE	CJ 1523	CJ 1523W	CSJ 1523	CCAP 2750-RL	CRDW-2-48
750	CT 153	CT 153E	TITAN 153 S	TITAN 153 SE	CJ 1523	CJ 1523W	CSJ 1523	CCAP 2750-RL	CRDW-2-48
1000	CT 153	CT 153E	TITAN 154 S	TITAN 154 SE	CJ 1524	CJ 1524W	CSJ 1524	CCAP 2750-RL	CRDW-2-48

* For references to **Titan G Series** please see page 53 to select the correct TITAN size for your application.

1/C, 15 KV SHIELDED CABLES - UNISHIELD®

GROUNDING 175 MILS OR UNGROUNDING 220 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		HEAT SHRINK STRAIGHT JOINTS		COLD SHRINK STRAIGHT JOINTS	END CAP	JACKET REPAIR SLEEVES
	INDOOR	OUTDOOR	INDOOR	OUTDOOR	W/TUBE	W/WRAP- AROUND			RAILED
	CT G Series		TITAN G Series		CJ 20 Series				CSJ 20 Series
#4	CT 151	CT 151E	-	-	CJ 1521	CJ 1521W	-	CCAP 1700-RL	CRDW-1-48
#2	CT 151	CT 151E	TITAN G Series	TITAN G Series	CJ 1521	CJ 1521W	CSJ 1520	CCAP 1700-RL	CRDW-1-48
#1	CT 151	CT 151E	TITAN G Series	TITAN G Series	CJ 1521	CJ 1521W	CSJ 1521	CCAP 1700-RL	CRDW-1-48
1/0	CT 151	CT 151E	TITAN 152 S	TITAN 152 SE	CJ 1521	CJ 1521W	CSJ 1521	CCAP 1700-RL	CRDW-1-48
2/0	CT 151	CT 151E	TITAN 152 S	TITAN 152 SE	CJ 1521	CJ 1521W	CSJ 1522	CCAP 1700-RL	CRDW-1-48
3/0	CT 151	CT 151E	TITAN 152 S	TITAN 152 SE	CJ 1521	CJ 1521W	CSJ 1522	CCAP 1700-RL	CRDW-1-48
4/0	CT 151	CT 151E	TITAN 152 S	TITAN 152 SE	CJ 1521	CJ 1521W	CSJ 1522	CCAP 1700-RL	CRDW-2-48
250	CT 152	CT 152E	TITAN 153 S	TITAN 153 SE	CJ 1522	CJ 1522W	CSJ 1522	CCAP 1700-RL	CRDW-2-48
300	CT 152	CT 152E	TITAN 153 S	TITAN 153 SE	CJ 1522	CJ 1522W	CSJ 1522	CCAP 2750-RL	CRDW-2-48
350	CT 152	CT 152E	TITAN 153 S	TITAN 153 SE	CJ 1522	CJ 1522W	CSJ 1522	CCAP 2750-RL	CRDW-2-48
400	CT 153	CT 153E	TITAN 153 S	TITAN 153 SE	CJ 1522	CJ 1522W	CSJ 1523	CCAP 2750-RL	CRDW-2-48
500	CT 153	CT 153E	TITAN 153 S	TITAN 153 SE	CJ 1523	CJ 1523W	CSJ 1523	CCAP 2750-RL	CRDW-2-48
600	CT 153	CT 153E	TITAN 153 S	TITAN 153 SE	CJ 1523	CJ 1523W	CSJ 1523	CCAP 2750-RL	CRDW-2-48
750	CT 153	CT 153E	TITAN 154 S	TITAN 154 SE	CJ 1523	CJ 1523W	CSJ 1523	CCAP 2750-RL	CRDW-2-48
1000	CT 153	CT 153E	TITAN 154 S	TITAN 154 SE	CJ 1524	CJ 1524W	CSJ 1524	CCAP 2750-RL	CRDW-2-48

* For references to **Titan G Series** please see page 53 to select the correct TITAN size for your application.

1/C, 15 KV SHIELDED CABLES - LC TYPE

GROUNDING 175 MILS OR UNGROUNDING 220 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		HEAT SHRINK STRAIGHT JOINT		END CAP	JACKET REPAIR SLEEVE
	INDOOR	OUTDOOR	INDOOR	OUTDOOR	W/TUBE*	W/WRAP- AROUND		RAILED
	CT LC Series				CJ LC Series			
#4	CT 151LC	CT 151LCE	Consult Factory	Consult Factory	CJ 1531LCT	CJ 1531LC	CCAP 1700-RL	CRDW-1-48
#2	CT 151LC	CT 151LCE	Consult Factory	Consult Factory	CJ 1531LCT	CJ 1531LC	CCAP 1700-RL	CRDW-1-48
#1	CT 151LC	CT 151LCE	Consult Factory	Consult Factory	CJ 1531LCT	CJ 1531LC	CCAP 1700-RL	CRDW-1-48
1/0	CT 151LC	CT 151LCE	Consult Factory	Consult Factory	CJ 1531LCT	CJ 1531LC	CCAP 1700-RL	CRDW-1-48
2/0	CT 151LC	CT 151LCE	Consult Factory	Consult Factory	CJ 1531LCT	CJ 1531LC	CCAP 1700-RL	CRDW-1-48
3/0	CT 152LC	CT 152LCE	Consult Factory	Consult Factory	CJ 1532LCT	CJ 1532LC	CCAP 1700-RL	CRDW-2-48
4/0	CT 152LC	CT 152LCE	Consult Factory	Consult Factory	CJ 1532LCT	CJ 1532LC	CCAP 2750-RL	CRDW-2-48
250	CT 152LC	CT 152LCE	Consult Factory	Consult Factory	CJ 1532LCT	CJ 1532LC	CCAP 2750-RL	CRDW-2-48
300	CT 152LC	CT 152LCE	Consult Factory	Consult Factory	CJ 1532LCT	CJ 1532LC	CCAP 2750-RL	CRDW-2-48
350	CT 152LC	CT 152LCE	Consult Factory	Consult Factory	CJ 1532LCT	CJ 1532LC	CCAP 2750-RL	CRDW-2-48
400	CT 153LC	CT 153LCE	Consult Factory	Consult Factory	CJ 1532LCT	CJ 1532LC	CCAP 2750-RL	CRDW-2-48
500	CT 153LC	CT 153LCE	Consult Factory	Consult Factory	CJ 1533LCT	CJ 1533LC	CCAP 2750-RL	CRDW-2-48
600	CT 153LC	CT 153LCE	Consult Factory	Consult Factory	CJ 1533LCT	CJ 1533LC	CCAP 2750-RL	CRDW-2-48
750	CT 153LC	CT 153LCE	Consult Factory	Consult Factory	CJ 1533LCT	CJ 1533LC	CCAP 2750-RL	CRDW-2-48
1000	CT 153LC	CT 153LCE	Consult Factory	Consult Factory	CJ 1534LCT	CJ 1534LC	CCAP 2750-RL	CRDW-2-48

*Special order

1/C, 15 kV SHIELDED CABLES - BARE CONCENTRIC NEUTRAL

GROUNDING 175 MILS OR UNGROUNDING 220 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		HEAT SHRINK STRAIGHT JOINTS NO JACKET	HEAT SHINK REPAIR JOINTS NO JACKET	COLD SHRINK STRAIGHT JOINTS		JACKET REPAIR SLEEVES
	INDOOR	OUTDOOR	INDOOR	OUTDOOR					ENDED
	CT UD Series		TITAN UD Series						CJ 10 Series
#4	CT 151UD	CT 151 UDE	-	-	CJ 1511	CJ R1511	-	CCAP 1700-RL	Not Applicable
#2	CT 151UD	CT 151 UDE	TITAN 151 B	TITAN 151 BE	CJ 1511	CJ R1511	CSJ 1510	CCAP 1700-RL	Not Applicable
#1	CT 151UD	CT 151 UDE	TITAN 151 B	TITAN 151 BE	CJ 1511	CJ R1511	CSJ 1511	CCAP 1700-RL	Not Applicable
1/0	CT 151UD	CT 151 UDE	TITAN 151 B	TITAN 151 BE	CJ 1511	CJ R1511	CSJ 1511	CCAP 1700-RL	Not Applicable
2/0	CT 151UD	CT 151 UDE	TITAN UD Series	TITAN UD Series	CJ 1511	CJ R1511	CSJ 1511	CCAP 1700-RL	Not Applicable
3/0	CT 151UD	CT 151 UDE	TITAN 152 B	TITAN 152 BE	CJ 1511	CJ R1511	CSJ 1512	CCAP 1700-RL	Not Applicable
4/0	CT 151UD	CT 151 UDE	TITAN 152 B	TITAN 152 BE	CJ 1511	CJ R1511	CSJ 1512	CCAP 1700-RL	Not Applicable
250	CT 152UD	CT 152 UDE	TITAN 152 B	TITAN 152 BE	CJ 1512	CJ R1512	CSJ 1512	CCAP 2750-RL	Not Applicable
300	CT 152UD	CT 152 UDE	TITAN 152 B	TITAN 152 BE	CJ 1512	CJ R1512	CSJ 1512	CCAP 2750-RL	Not Applicable
350	CT 152UD	CT 152UDE	TITAN 153 B	TITAN 153 BE	CJ 1512	CJ R1512	CSJ 1512	CCAP 2750-RL	Not Applicable
400	CT 153UD	CT 153UDE	TITAN 153 B	TITAN 153 BE	CJ 1512	CJ R1512	CSJ 1513	CCAP 2750-RL	Not Applicable
500	CT 153UD	CT 153UDE	TITAN 153 B	TITAN 153 BE	CJ 1513	CJ R1513	CSJ 1513	CCAP 2750-RL	Not Applicable
600	CT 153UD	CT 153UDE	TITAN 153 B	TITAN 153 BE	CJ 1513	CJ R1513	CSJ 1513	CCAP 2750-RL	Not Applicable
750	CT 153UD	CT 153UDE	TITAN 153 B	TITAN 153 BE	CJ 1513	CJ R1513	CSJ 1513	CCAP 2750-RL	Not Applicable
1000	CT 153UD	CT 153UDE	TITAN 154 B	TITAN 154 BE	CJ 1514	CJ R1514	CSJ 1514	CCAP 2750-RL	Not Applicable

* For references to **Titan UD Series** please see page 55 to select the correct TITAN size for your application.

1/C, 15 kV SHIELDED CABLES - JACKETED CONCENTRIC NEUTRAL

GROUNDING 175 MILS OR UNGROUNDING 220 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		HEAT SHRINK STRAIGHT JOINTS W/ WRAP- AROUND	HEAT SHRINK REPAIR JOINTS W/WRAP- AROUND	COLD SHRINK STRAIGHT JOINTS	END CAP	JACKET REPAIR SLEEVE
	INDOOR	OUTDOOR	INDOOR	OUTDOOR					RAILED
	CT UD Series		TITAN UD Series		CJ 10 Series	CJ R10 Series	CJ 10 Series		
#4	CT 151UD	CT 151UDE	-	-	CJ 1511J	CJ R1511J	-	CCAP 1700-RL	CRDW-1-48
#2	CT 151UD	CT 151UDE	TITAN UD Series	TITAN UD Series	CJ 1511J	CJ R1511J	CSJ 1510	CCAP 1700-RL	CRDW-1-48
#1	CT 151UD	CT 151UDE	TITAN 151 J	TITAN 151 JE	CJ 1511J	CJ R1511J	CSJ 1511	CCAP 1700-RL	CRDW-1-48
1/0	CT 151UD	CT 151UDE	TITAN 151 J	TITAN 151 JE	CJ 1511J	CJ R1511J	CSJ 1511	CCAP 1700-RL	CRDW-1-48
2/0	CT 151UD	CT 151UDE	TITAN 152 J	TITAN 152 JE	CJ 1511J	CJ R1511J	CSJ 1511	CCAP 1700-RL	CRDW-1-48
3/0	CT 152UD	CT 152UDE	TITAN 152 J	TITAN 152 JE	CJ 1512J	CJ R1512J	CSJ 1512	CCAP 1700-RL	CRDW-2-48
4/0	CT 152UD	CT 152UDE	TITAN 152 J	TITAN 152 JE	CJ 1512J	CJ R1512J	CSJ 1512	CCAP 2750-RL	CRDW-2-48
250	CT 152UD	CT 152UDE	TITAN 152 J	TITAN 152 JE	CJ 1512J	CJ R1512J	CSJ 1512	CCAP 2750-RL	CRDW-2-48
300	CT 152UD	CT 152UDE	TITAN 152 J	TITAN 152 JE	CJ 1512J	CJ R1512J	CSJ 1512	CCAP 2750-RL	CRDW-2-48
350	CT 152UD	CT 152UDE	TITAN 153 J	TITAN 153 JE	CJ 1512J	CJ R1512J	CSJ 1512	CCAP 2750-RL	CRDW-2-48
400	CT 153UD	CT 153UDE	TITAN 153 J	TITAN 153 JE	CJ 1512J	CJ R1512J	CSJ 1513	CCAP 2750-RL	CRDW-2-48
500	CT 153UD	CT 153UDE	TITAN 153 J	TITAN 153 JE	CJ 1513J	CJ R1513J	CSJ 1513	CCAP 2750-RL	CRDW-2-48
600	CT 153UD	CT 153UDE	TITAN 153 J	TITAN 153 JE	CJ 1513J	CJ R1513J	CSJ 1513	CCAP 2750-RL	CRDW-2-48
750	CT 153UD	CT 153UDE	TITAN 153 J	TITAN 153 JE	CJ 1513J	CJ R1513J	CSJ 1513	CCAP 2750-RL	CRDW-2-48
1000	CT 153UD	CT 153UDE	TITAN 154 J	TITAN 154 JE	CJ 1514J	CJ R1514J	CSJ 1514	CCAP 2750-RL	CRDW-2-48

* For references to **Titan UD Series** please see page 55 to select the correct TITAN size for your application.

1/C, 25 - 28 kV SHIELDED CABLES - COPPER TAPE

GROUND 260 - 280 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		HEAT SHRINK STRAIGHT JOINT		END CAP	JACKET REPAIR SLEEVES
	INDOOR	OUTDOOR	INDOOR	OUTDOOR	W/TUBE	W/WRAP-AROUND		RAILED
	CT G Series		TITAN G Series		CJ 20 Series			
#1	CT 251G	CT 251EG	TITAN 251S	TITAN 251SE	CJ 2521	CJ 2521W	CCAP 1700-RL	CRDW-2-48
1/0	CT 251G	CT 251EG	TITAN 251S	TITAN 251SE	CJ 2521	CJ 2521W	CCAP 1700-RL	CRDW-2-48
2/0	CT 251G	CT 251EG	TITAN 251S	TITAN 251SE	CJ 2521	CJ 2521W	CCAP 1700-RL	CRDW-2-48
3/0	CT 251G	CT 251EG	TITAN 251S	TITAN 251SE	CJ 2521	CJ 2521W	CCAP 1700-RL	CRDW-2-48
4/0	CT 251G	CT 251EG	TITAN 251S	TITAN 251SE	CJ 2521	CJ 2521W	CCAP 2750-RL	CRDW-2-48
250	CT 251G	CT 251EG	TITAN G Series	TITAN G Series	CJ 2522	CJ 2522W	CCAP 2750-RL	CRDW-2-48
300	CT 251G	CT 251EG	TITAN G Series	TITAN G Series	CJ 2522	CJ 2522W	CCAP 2750-RL	CRDW-2-48
350	CT 252G	CT 252EG	TITAN G Series	TITAN G Series	CJ 2522	CJ 2522W	CCAP 2750-RL	CRDW-2-48
400	CT 252G	CT 252EG	TITAN G Series	TITAN G Series	CJ 2522	CJ 2522W	CCAP 2750-RL	CRDW-3-48
500	CT 252G	CT 252EG	TITAN 252S	TITAN 252SE	CJ 2522	CJ 2522W	CCAP 2750-RL	CRDW-3-48
600	CT 252G	CT 252EG	TITAN G Series	TITAN G Series	Not Available	CJ 2523W	CCAP 2750-RL	CRDW-3-48
750	CT 252G	CT 252EG	TITAN 253S	TITAN 253SE	Not Available	CJ 2523W	CCAP 2750-RL	CRDW-3-48
1000	CT 252G	CT 252EG	TITAN 254S	TITAN 254SE	Not Available	CJ 2523W	CCAP 2750-RL	CRDW-3-48

* For references to **Titan G Series** please see page 53 to select the correct TITAN size for your application.

1/C, 25 - 28 kV SHIELDED CABLES - DRAIN WIRE

GROUND 260 - 280 MILS

CONDUCTOR SIZE	LIVEFRONT TERMINATION		COLD SHRINK TERMINATION		HEAT SHRINK STRAIGHT JOINT		END CAP	JACKET REPAIR SLEEVE
	INDOOR	OUTDOOR	INDOOR	OUTDOOR	W/TUBE	W/WRAP-AROUND		RAILED
	CT G Series		TITAN G Series		CJ 20 Series			
#1	CT 251	CT 251E	TITAN 251S	TITAN 251SE	CJ 2521	CJ 2521W	CCAP 1700-RL	CRDW-2-48
1/0	CT 251	CT 251E	TITAN 251S	TITAN 251SE	CJ 2521	CJ 2521W	CCAP 1700-RL	CRDW-2-48
2/0	CT 251	CT 251E	TITAN 251S	TITAN 251SE	CJ 2521	CJ 2521W	CCAP 1700-RL	CRDW-2-48
3/0	CT 251	CT 251E	TITAN 251S	TITAN 251SE	CJ 2521	CJ 2521W	CCAP 1700-RL	CRDW-2-48
4/0	CT 251	CT 251E	TITAN 251S	TITAN 251SE	CJ 2521	CJ 2521W	CCAP 2750-RL	CRDW-2-48
250	CT 251	CT 251E	TITAN G Series	TITAN G Series	CJ 2522	CJ 2522W	CCAP 2750-RL	CRDW-2-48
300	CT 251	CT 251E	TITAN G Series	TITAN G Series	CJ 2522	CJ 2522W	CCAP 2750-RL	CRDW-2-48
350	CT 252	CT 252E	TITAN G Series	TITAN G Series	CJ 2522	CJ 2522W	CCAP 2750-RL	CRDW-2-48
400	CT 252	CT 252E	TITAN G Series	TITAN G Series	CJ 2522	CJ 2522W	CCAP 2750-RL	CRDW-3-48
500	CT 252	CT 252E	TITAN 252S	TITAN 252SE	CJ 2522	CJ 2522W	CCAP 2750-RL	CRDW-3-48
600	CT 252	CT 252E	TITAN G Series	TITAN G Series	Not Available	CJ 2523W	CCAP 2750-RL	CRDW-3-48
750	CT 252	CT 252E	TITAN 253S	TITAN 253SE	Not Available	CJ 2523W	CCAP 2750-RL	CRDW-3-48
1000	CT 252	CT 252E	TITAN 254S	TITAN 2534E	Not Available	CJ 2523W	CCAP 2750-RL	CRDW-3-48

* For references to **Titan G Series** please see page 53 to select the correct TITAN size for your application.

1/C, 25 - 28 kV SHIELDED CABLES - UNISHIELD®

GROUNDING 260 - 280 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		HEAT SHRINK STRAIGHT JOINT		END CAP	JACKET REPAIR SLEEVES
	INDOOR	OUTDOOR	INDOOR	OUTDOOR	W/TUBE	W/WRAP-AROUND		RAILED
	CT G Series		TITAN G Series		CJ 20 Series			
#1	CT 251	CT 251E	TITAN 251S	TITAN 251SE	CJ 2521	CJ 2521W	CCAP 1700-RL	CRDW-2-48
1/0	CT 251	CT 251E	TITAN 251S	TITAN 251SE	CJ 2521	CJ 2521W	CCAP 1700-RL	CRDW-2-48
2/0	CT 251	CT 251E	TITAN 251S	TITAN 251SE	CJ 2521	CJ 2521W	CCAP 1700-RL	CRDW-2-48
3/0	CT 251	CT 251E	TITAN 251S	TITAN 251SE	CJ 2521	CJ 2521W	CCAP 1700-RL	CRDW-2-48
4/0	CT 251	CT 251E	TITAN 251S	TITAN 251SE	CJ 2521	CJ 2521W	CCAP 1700-RL	CRDW-2-48
250	CT 251	CT 251E	TITAN G Series	TITAN G Series	CJ 2522	CJ 2522W	CCAP 2750-RL	CRDW-2-48
300	CT 251	CT 251E	TITAN G Series	TITAN G Series	CJ 2522	CJ 2522W	CCAP 2750-RL	CRDW-2-48
350	CT 252	CT 252E	TITAN G Series	TITAN G Series	CJ 2522	CJ 2522W	CCAP 2750-RL	CRDW-2-48
400	CT 252	CT 252E	TITAN G Series	TITAN G Series	CJ 2522	CJ 2522W	CCAP 2750-RL	CRDW-2-48
500	CT 252	CT 252E	TITAN 252S	TITAN 252SE	CJ 2522	CJ 2522W	CCAP 2750-RL	CRDW-3-48
600	CT 252	CT 252E	TITAN G Series	TITAN G Series	Not Available	CJ 2523W	CCAP 2750-RL	CRDW-3-48
750	CT 252	CT 252E	TITAN 253S	TITAN 253SE	Not Available	CJ 2523W	CCAP 2750-RL	CRDW-3-48
1000	CT 252	CT 252E	TITAN 254S	TITAN 254SE	Not Available	CJ 2523W	CCAP 2750-RL	CRDW-3-48

* For references to **Titan G Series** please see page 53 to select the correct TITAN size for your application.

1/C, 25 - 28 kV SHIELDED CABLES - LC TYPE

GROUNDING 260 - 280 MILS

CONDUCTOR SIZE	LIVEFRONT TERMINATION		COLD SHRINK TERMINATION		HEAT SHRINK STRAIGHT JOINT		END CAP	JACKET REPAIR SLEEVE
	INDOOR	OUTDOOR	INDOOR	OUTDOOR	W/TUBE*	W/WRAP-AROUND		RAILED
	CT LC Series				CJ LC Series			
#1	CT 251LC	CT 251LCE	Consult Factory	Consult Factory	CJ 2531LCT	CJ 2531LC	CCAP 1700-RL	CRDW-2-48
1/0	CT 251LC	CT 251LCE	Consult Factory	Consult Factory	CJ 2531LCT	CJ 2531LC	CCAP 1700-RL	CRDW-2-48
2/0	CT 251LC	CT 251LCE	Consult Factory	Consult Factory	CJ 2531LCT	CJ 2531LC	CCAP 1700-RL	CRDW-2-48
3/0	CT 251LC	CT 251LCE	Consult Factory	Consult Factory	CJ 2531LCT	CJ 2531LC	CCAP 1700-RL	CRDW-2-48
4/0	CT 251LC	CT 251LCE	Consult Factory	Consult Factory	CJ 2531LCT	CJ 2531LC	CCAP 2750-RL	CRDW-2-48
250	CT 251LC	CT 251LCE	Consult Factory	Consult Factory	CJ 2532LCT	CJ 2532LC	CCAP 2750-RL	CRDW-2-48
300	CT 251LC	CT 251LCE	Consult Factory	Consult Factory	CJ 2532LCT	CJ 2532LC	CCAP 2750-RL	CRDW-2-48
350	CT 252LC	CT252LCE	Consult Factory	Consult Factory	CJ 2532LCT	CJ 2532LC	CCAP 2750-RL	CRDW-2-48
400	CT 252LC	CT252LCE	Consult Factory	Consult Factory	CJ 2532LCT	CJ 2532LC	CCAP 2750-RL	CRDW-3-48
500	CT 252LC	CT252LCE	Consult Factory	Consult Factory	CJ 2532LCT	CJ 2532LC	CCAP 2750-RL	CRDW-3-48
600	CT 252LC	CT252LCE	Consult Factory	Consult Factory	Not Available	CJ 2533LC	CCAP 2750-RL	CRDW-3-48
750	CT 252LC	CT252LCE	Consult Factory	Consult Factory	Not Available	CJ 2533LC	CCAP 2750-RL	CRDW-3-48
1000	CT 252LC	CT252LCE	Consult Factory	Consult Factory	Not Available	CJ 2533LC	CCAP 2750-RL	CRDW-3-48

*Special order

1/C, 25 - 28 kV SHIELDED CABLES - BARE CONCENTRIC NEUTRAL

GROUNDING 260 - 280 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		HEAT SHRINK STRAIGHT JOINTS NO JACKET	HEAT SHRINK REPAIR JOINTS NO JACKET	END CAP	JACKET REPAIR SLEEVES
	INDOOR	OUTDOOR	INDOOR	OUTDOOR				RAILED
	CT UD Series		TITAN UD Series		CJ 10 Series	CJ R10 Series		
#1	CT 251UD	CT 251UDE	TITAN 251 B	TITAN 251 BE	CJ 2511	CJ R2511	CCAP 1700-RL	Not Applicable
1/0	CT 251UD	CT 251UDE	TITAN 251 B	TITAN 251 BE	CJ 2511	CJ R2511	CCAP 1700-RL	Not Applicable
2/0	CT 251UD	CT 251UDE	TITAN 251 B	TITAN 251 BE	CJ 2511	CJ R2511	CCAP 1700-RL	Not Applicable
3/0	CT 251UD	CT 251UDE	TITAN 251 B	TITAN 251 BE	CJ 2511	CJ R2511	CCAP 1700-RL	Not Applicable
4/0	CT 251UD	CT 251UDE	TITAN 251 B	TITAN 251 BE	CJ 2511	CJ R2511	CCAP 2750-RL	Not Applicable
250	CT 251UD	CT 251UDE	TITAN 251 B	TITAN 251 BE	CJ 2512	CJ R2512	CCAP 2750-RL	Not Applicable
300	CT 251UD	CT 251UDE	TITAN 251 B	TITAN 251 BE	CJ 2512	CJ R2512	CCAP 2750-RL	Not Applicable
350	CT 251UD	CT 251UDE	TITAN 251 B	TITAN 251 BE	CJ 2512	CJ R2512	CCAP 2750-RL	Not Applicable
400	CT 252UD	CT 252UDE	TITAN 251 B	TITAN 251 BE	CJ 2512	CJ R2512	CCAP 2750-RL	Not Applicable
500	CT 252UD	CT 252UDE	TITAN 251 B	TITAN 251 BE	CJ 2512	CJ R2513	CCAP 2750-RL	Not Applicable
600	CT 252UD	CT 252UDE	TITAN 252 B	TITAN 252 BE	CJ 2513	CJ R2513	CCAP 2750-RL	Not Applicable
750	CT 252UD	CT 252UDE	TITAN 252 B	TITAN 252 BE	CJ 2513	CJ R2513	CCAP 2750-RL	Not Applicable
1000	CT 252UD	CT 252UDE	TITAN 253 B	TITAN 253 BE	CJ 2513	CJ R2513	CCAP 2750-RL	Not Applicable

1/C, 25 - 28 kV SHIELDED CABLES - JACKETED CONCENTRIC NEUTRAL

GROUNDING 260 - 280 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		HEAT SHRINK STRAIGHT JOINTS W/WRAP- AROUND	HEAT SHRINK REPAIR JOINTS W/WRAP- AROUND	END CAP	JACKET REPAIR SLEEVE
	INDOOR	OUTDOOR	INDOOR	OUTDOOR				RAILED
	CT UD Series		TITAN UD Series		CJ 10 Series			
#1	CT 251UD	CT 251UDE	TITAN 251J	TITAN 251JE	CJ 2511J	CJ R2511J	CCAP 1700-RL	CRDW-2-48
1/0	CT 251UD	CT 251UDE	TITAN 251J	TITAN 251JE	CJ 2511J	CJ R2511J	CCAP 1700-RL	CRDW-2-48
2/0	CT 251UD	CT 251UDE	TITAN 251J	TITAN 251JE	CJ 2511J	CJ R2511J	CCAP 1700-RL	CRDW-2-48
3/0	CT 251UD	CT 251UDE	TITAN 251J	TITAN 251JE	CJ 2511J	CJ R2511J	CCAP 1700-RL	CRDW-2-48
4/0	CT 251UD	CT 251UDE	TITAN UD Series	TITAN UD Series	CJ 2511J	CJ 2512J	CCAP 2750-RL	CRDW-2-48
250	CT 251UD	CT 251UDE	TITAN UD Series	TITAN UD Series	CJ 2512J	CJ 2512J	CCAP 2750-RL	CRDW-2-48
300	CT 251UD	CT 251UDE	TITAN UD Series	TITAN UD Series	CJ 2512J	CJ 2512J	CCAP 2750-RL	CRDW-2-48
350	CT 252UD	CT 252UDE	TITAN 252J	TITAN 252JE	CJ 2512J	CJ 2512J	CCAP 2750-RL	CRDW-2-48
400	CT 252UD	CT 252UDE	TITAN 252J	TITAN 252JE	CJ 2512J	CJ 2512J	CCAP 2750-RL	CRDW-3-48
500	CT 252UD	CT 252UDE	TITAN UD Series	TITAN UD Series	CJ 2512J	Special Order	CCAP 2750-RL	CRDW-3-48
600	CT 252UD	CT 252UDE	TITAN UD Series	TITAN UD Series	CJ 2513J	Special Order	CCAP 2750-RL	CRDW-3-48
750	CT 252UD	CT 252UDE	TITAN 253J	TITAN 253JE	CJ 2513J	Special Order	CCAP 2750-RL	CRDW-3-48
1000	CT 252UD	CT 252UDE	TITAN 254J	TITAN 254JE	CJ 2513J	Special Order	CCAP 2750-RL	CRDW-3-48

* For references to **Titan UD Series** please see page 55 to select the correct TITAN size for your application.

1/C, 35 kV SHIELDED CABLES - COPPER TAPE

GROUND 345 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		HEAT SHRINK STRAIGHT JOINTS		END CAP	JACKET REPAIR SLEEVES
	INDOOR	OUTDOOR	INDOOR	OUTDOOR	W/TUBE	W/WRAP-AROUND		RAILED
	CT G Series		Titan G Series		CJ 20 Series			
#1	CT 351G	CT 351EG	-	-	Not Available	CJ 3521	CCAP 2050-RL	CRDW-2-48
1/0	CT 351G	CT 351EG	TITAN 351S	TITAN 351SE	Not Available	CJ 3521	CCAP 2050-RL	CRDW-2-48
2/0	CT 351G	CT 351EG	TITAN 351S	TITAN 351SE	Not Available	CJ 3521	CCAP 2050-RL	CRDW-2-48
3/0	CT 351G	CT 351EG	TITAN 351S	TITAN 351SE	Not Available	CJ 3521	CCAP 2050-RL	CRDW-2-48
4/0	CT 351G	CT 351EG	TITAN 351S	TITAN 351SE	Not Available	CJ 3521	CCAP 2050-RL	CRDW-2-48
250	CT 352G	CT 352EG	TITAN 352S	TITAN 352SE	Not Available	CJ 3522	CCAP 2750-RL	CRDW-2-48
300	CT 352G	CT 352EG	TITAN 352S	TITAN 352SE	Not Available	CJ 3522	CCAP 2750-RL	CRDW-2-48
350	CT 352G	CT 352EG	TITAN 352S	TITAN 352SE	Not Available	CJ 3522	CCAP 2750-RL	CRDW-2-48
400	CT 352G	CT 352EG	Titan G Series	Titan G Series	Not Available	CJ 3522	CCAP 2750-RL	CRDW-3-48
500	CT 352G	CT 352EG	TITAN 353S	TITAN 353SE	Not Available	CJ 3522	CCAP 2750-RL	CRDW-3-48
600	CT 352G	CT 352EG	TITAN 353S	TITAN 353SE	Not Available	CJ 3523	CCAP 2750-RL	CRDW-3-48
750	CT 352G	CT 352EG	TITAN 353S	TITAN 353SE	Not Available	CJ 3523	CCAP 2750-RL	CRDW-3-48
1000	CT 352G	CT 352EG	TITAN 354S	TITAN 354SE	Not Available	CJ 3523	CCAP 2750-RL	CRDW-3-48

* For references to **Titan G Series** please see page 53 to select the correct TITAN size for your application.

1/C, 35 kV SHIELDED CABLES - DRAIN WIRE

GROUND 345 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		HEAT SHINK STRAIGHT JOINTS		END CAP	JACKET REPAIR SLEEVE
	INDOOR	OUTDOOR	INDOOR	OUTDOOR	W/TUBE	W/WRAP-AROUND		RAILED
	CT G Series		Titan G Series		CJ 20 Series			
#1	CT 351	CT 351E	-	-	Not Available	CJ 3521W	CCAP 2050-RL	CRDW-2-48
1/0	CT 351	CT 351E	TITAN 351S	TITAN 351SE	Not Available	CJ 3521W	CCAP 2050-RL	CRDW-2-48
2/0	CT 351	CT 351E	TITAN 351S	TITAN 351SE	Not Available	CJ 3521W	CCAP 2050-RL	CRDW-2-48
3/0	CT 351	CT 351E	TITAN 351S	TITAN 351SE	Not Available	CJ 3521W	CCAP 2050-RL	CRDW-2-48
4/0	CT 351	CT 351E	TITAN 351S	TITAN 351SE	Not Available	CJ 3521W	CCAP 2050-RL	CRDW-2-48
250	CT 351	CT 351E	TITAN 352S	TITAN 352SE	Not Available	CJ 3522W	CCAP 2750-RL	CRDW-2-48
300	CT 352	CT 352E	TITAN 352S	TITAN 352SE	Not Available	CJ 3522W	CCAP 2750-RL	CRDW-2-48
350	CT 352	CT 352E	TITAN 352S	TITAN 352SE	Not Available	CJ 3522W	CCAP 2750-RL	CRDW-2-48
400	CT 352	CT 352E	Titan G Series	Titan G Series	Not Available	CJ 3522W	CCAP 2750-RL	CRDW-3-48
500	CT 352	CT 352E	TITAN 353S	TITAN 353SE	Not Available	CJ 3522W	CCAP 2750-RL	CRDW-3-48
600	CT 352	CT 352E	TITAN 353S	TITAN 353SE	Not Available	CJ 3523W	CCAP 2750-RL	CRDW-3-48
750	CT 352	CT 352E	TITAN 353S	TITAN 353SE	Not Available	CJ 3523W	CCAP 2750-RL	CRDW-3-48
1000	CT 352	CT 352E	TITAN 354S	TITAN 354SE	Not Available	CJ 3523W	CCAP 2750-RL	CRDW-3-48

* For references to **Titan G Series** please see page 53 to select the correct TITAN size for your application.

1/C, 35 kV SHIELDED CABLES - UNISHIELD®

GROUNDING 345 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		HEAT SHRINK STRAIGHT JOINTS		END CAP	JACKET REPAIR SLEEVES
	INDOOR	OUTDOOR	INDOOR	OUTDOOR	W/TUBE	W/WRAP-AROUND		RAILED
	CT G Series		TITAN G Series		CJ 20 Series			
#1	CT 351	CT 351E	-	-	Not Available	CJ 3521W	CCAP 2050-RL	CRDW-2-48
1/0	CT 351	CT 351E	TITAN 351S	TITAN 351SE	Not Available	CJ 3521W	CCAP 2050-RL	CRDW-2-48
2/0	CT 351	CT 351E	TITAN 351S	TITAN 351SE	Not Available	CJ 3521W	CCAP 2050-RL	CRDW-2-48
3/0	CT 351	CT 351E	TITAN 351S	TITAN 351SE	Not Available	CJ 3521W	CCAP 2050-RL	CRDW-2-48
4/0	CT 351	CT 351E	TITAN 351S	TITAN 351SE	Not Available	CJ 3521W	CCAP 2050-RL	CRDW-2-48
250	CT 351	CT 351E	TITAN 352S	TITAN 352SE	Not Available	CJ 3521W	CCAP 2750-RL	CRDW-2-48
300	CT 352	CT 352E	TITAN 352S	TITAN 352SE	Not Available	CJ 3522W	CCAP 2750-RL	CRDW-2-48
350	CT 352	CT 352E	TITAN 352S	TITAN 352SE	Not Available	CJ 3522W	CCAP 2750-RL	CRDW-2-48
400	CT 352	CT 352E	Titan G Series	Titan G Series	Not Available	CJ 3522W	CCAP 2750-RL	CRDW-2-48
500	CT 352	CT 352E	TITAN 353S	TITAN 353SE	Not Available	CJ 3522W	CCAP 2750-RL	CRDW-3-48
600	CT 352	CT 352E	TITAN 353S	TITAN 353SE	Not Available	CJ 3523W	CCAP 2750-RL	CRDW-3-48
750	CT 352	CT 352E	TITAN 353S	TITAN 353SE	Not Available	CJ 3523W	CCAP 2750-RL	CRDW-3-48
1000	CT 352	CT 352E	TITAN 354S	TITAN 354SE	Not Available	CJ 3523W	CCAP 2750-RL	CRDW-3-48

* For references to **Titan G Series** please see page 53 to select the correct TITAN size for your application.

1/C, 35 kV SHIELDED CABLES - LC TYPE

GROUNDING 345 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		HEAT SHRINK STRAIGHT JOINTS		END CAP	JACKET REPAIR SLEEVE
	INDOOR	OUTDOOR	INDOOR	OUTDOOR	W/TUBE*	W/WRAP-AROUND		RAILED
#1	CT 351LC	CT 351LCE	Consult Factory	Consult Factory	CJ 3531LCT	CJ 3531LC	CCAP 2050-RL	CRDW-2-48
1/0	CT 351LC	CT 351LCE	Consult Factory	Consult Factory	CJ 3531LCT	CJ 3531LC	CCAP 2050-RL	CRDW-2-48
2/0	CT 351LC	CT 351LCE	Consult Factory	Consult Factory	CJ 3531LCT	CJ 3531LC	CCAP 2050-RL	CRDW-2-48
3/0	CT 351LC	CT 351LCE	Consult Factory	Consult Factory	CJ 3531LCT	CJ 3531LC	CCAP 2050-RL	CRDW-2-48
4/0	CT 351LC	CT 351LCE	Consult Factory	Consult Factory	CJ 3531LCT	CJ 3531LC	CCAP 2050-RL	CRDW-2-48
250	CT 352LC	CT 352LCE	Consult Factory	Consult Factory	Not Available	CJ 3532LC	CCAP 2750-RL	CRDW-2-48
300	CT 352LC	CT 352LCE	Consult Factory	Consult Factory	Not Available	CJ 3532LC	CCAP 2750-RL	CRDW-2-48
350	CT 352LC	CT 352LCE	Consult Factory	Consult Factory	Not Available	CJ 3532LC	CCAP 2750-RL	CRDW-2-48
400	CT 352LC	CT 352LCE	Consult Factory	Consult Factory	Not Available	CJ 3532LC	CCAP 2750-RL	CRDW-3-48
500	CT 352LC	CT 352LCE	Consult Factory	Consult Factory	Not Available	CJ 3532LC	CCAP 2750-RL	CRDW-3-48
600	CT 352LC	CT 352LCE	Consult Factory	Consult Factory	Not Available	CJ 3533LC	CCAP 2750-RL	CRDW-3-48
750	CT 352LC	CT 352LCE	Consult Factory	Consult Factory	Not Available	CJ 3533LC	CCAP 2750-RL	CRDW-3-48
1000	CT 352LC	CT 352LCE	Consult Factory	Consult Factory	Not Available	CJ 3533LC	CCAP 2750-RL	CRDW-3-48

*Special order

1/C, 35 kV SHIELDED CABLES - BARE CONCENTRIC NEUTRAL

GROUNDING 345 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		HEAT SHRINK STRAIGHT JOINTS NO JACKET	HEAT SHRINK REPAIR JOINTS NO JACKET	END CAP	JACKET REPAIR SLEEVES
	INDOOR	OUTDOOR	INDOOR	OUTDOOR				RAILED
	CT UD Series		TITAN UD Series					CJ 10 Series
#1	CT 353UD	CT 353UDE	-	-	CJ 3531	CJ R3531	CCAP 2050-RL	Not Applicable
1/0	CT 353UD	CT 353UDE	TITAN 351 B	TITAN 351 BE	CJ 3531	CJ R3531	CCAP 2050-RL	Not Applicable
2/0	CT 353UD	CT 353UDE	TITAN 351 B	TITAN 351 BE	CJ 3531	CJ R3531	CCAP 2050-RL	Not Applicable
3/0	CT 353UD	CT 353UDE	TITAN 351 B	TITAN 351 BE	CJ 3531	CJ R3531	CCAP 2050-RL	Not Applicable
4/0	CT 353UD	CT 353UDE	TITAN 351 B	TITAN 351 BE	CJ 3531	CJ R3531	CCAP 2050-RL	Not Applicable
250	CT 353UD	CT 353UDE	TITAN 351 B	TITAN 351 BE	CJ 3532	CJ R3532	CCAP 2750-RL	Not Applicable
300	CT 352UD	CT 352UDE	TITAN 351 B	TITAN 351 BE	CJ 3532	CJ R3532	CCAP 2750-RL	Not Applicable
350	CT 352UD	CT 352UDE	TITAN 352 B	TITAN 352 BE	CJ 3532	CJ R3532	CCAP 2750-RL	Not Applicable
400	CT 352UD	CT 352UDE	TITAN 352 B	TITAN 352 BE	CJ 3532	CJ R3532	CCAP 2750-RL	Not Applicable
500	CT 352UD	CT 352UDE	TITAN 352 B	TITAN 352 BE	CJ 3532	CJ R3532	CCAP 2750-RL	Not Applicable
600	CT 352UD	CT 352UDE	TITAN 353 B	TITAN 353 BE	CJ 3533	CJ R3533	CCAP 2750-RL	Not Applicable
750	CT 352UD	CT 352UDE	TITAN 353 B	TITAN 353 BE	CJ 3533	CJ R3533	CCAP 2750-RL	Not Applicable
1000	CT 352UD	CT 352UDE	TITAN 353 B	TITAN 353 BE	CJ 3533	CJ R3533	CCAP 2750-RL	Not Applicable

1/C, 35 kV SHIELDED CABLES - JACKETED CONCENTRIC NEUTRAL

GROUNDING 345 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		HEAT SHRINK STRAIGHT JOINTS W/WRAP- AROUND	HEAT SHINK REPAIR JOINTS W/WRAP- AROUND	END CAP	JACKET REPAIR SLEEVE
	INDOOR	OUTDOOR	INDOOR	OUTDOOR				RAILED
	CT UD Series		TITAN UD Series		CJ 10 Series			
#1	CT 353UD	CT 353UDE	-	-	CJ 3531J	Special Order	CCAP 2050-RL	CRDW-2-48
1/0	CT 353UD	CT 353UDE	TITAN 351J	TITAN 351JE	CJ 3531J	Special Order	CCAP 2050-RL	CRDW-2-48
2/0	CT 353UD	CT 353UDE	TITAN 351J	TITAN 351JE	CJ 3531J	Special Order	CCAP 2050-RL	CRDW-2-48
3/0	CT 353UD	CT 353UDE	TITAN 351J	TITAN 351JE	CJ 3531J	Special Order	CCAP 2050-RL	CRDW-2-48
4/0	CT 353UD	CT 353UDE	TITAN 352J	TITAN 352JE	CJ 3531J	Special Order	CCAP 2050-RL	CRDW-2-48
250	CT 352UD	CT 352UDE	TITAN 352J	TITAN 352JE	CJ 3532J	Special Order	CCAP 2750-RL	CRDW-2-48
300	CT 352UD	CT 352UDE	TITAN 352J	TITAN 352JE	CJ 3532J	Special Order	CCAP 2750-RL	CRDW-2-48
350	CT 352UD	CT 352UDE	TITAN 352J	TITAN 352JE	CJ 3532J	Special Order	CCAP 2750-RL	CRDW-2-48
400	CT 352UD	CT 352UDE	TITAN UD Series	TITAN UD Series	CJ 3532J	Special Order	CCAP 2750-RL	CRDW-3-48
500	CT 352UD	CT 352UDE	TITAN 353J	TITAN 353JE	CJ 3532J	Special Order	CCAP 2750-RL	CRDW-3-48
600	CT 352UD	CT 352UDE	TITAN 353J	TITAN 353JE	CJ3533J	Special Order	CCAP 2750-RL	CRDW-3-48
750	CT 352UD	CT 352UDE	TITAN 353J	TITAN 353JE	CJ3533J	Special Order	CCAP 2750-RL	CRDW-3-48
1000	CT 352UD	CT 352UDE	TITAN 354J	TITAN 354JE	CJ3533J	Special Order	CCAP 2750-RL	CRDW-3-48

* For references to **Titan UD Series** please see page 55 to select the correct TITAN size for your application.

3/C, 600 V - 1 kV CABLES

XLP, EPR/PVC OR EPR/CSPE

CONDUCTOR SIZE	LUG SEAL*	SEALING BOOT	STRAIGHT SPLICES**	OVERALL SLEEVE	END CAP	JACKET REPAIR SLEEVES	MOTOR CONNECTION KITS	
	3 EACH	PLUS 1	3 EACH	PLUS 1		RAILED	STUB TYPE	IN-LINE TYPE
#8	CFM-0750-6	CCB-0150	CFW-0500-6	CRDW-2-24	CCAP 1700-RL	CRDW-2-48	CMTK 12V	CMTK 11L
#6	CFM-0750-6	CCB-0150	CFW-0500-6	CRDW-2-24	CCAP 1700-RL	CRDW-2-48	CMTK 12V	CMTK 11L
#4	CFM-0750-6	CCB-0150	CFW-1100-6	CRDW-2-24	CCAP 1700-RL	CRDW-2-48	CMTK 12V	CMTK 11L
#2	CFM-1100-6	CCB-0220	CFW-1100-6	CRDW-2-24	CCAP 1700-RL	CRDW-2-48	CMTK 12V	CMTK 11L
#1	CFM-1100-6	CCB-0220	CFW--1500-8	CRDW-3-36	CCAP 1700-RL	CRDW-2-48	CMTK 13V	CMTK 11L
1/0	CFM-1100-6	CCB-0220	CFW--1500-8	CRDW-3-36	CCAP 2050-RL	CRDW-2-48	CMTK 13V	CMTK 11L
2/0	CFM-1100-6	CCB-0220	CFW--1500-8	CRDW-3-36	CCAP 2050-RL	CRDW-2-48	CMTK 13V	CMTK 11L
3/0	CFM-1100-6	CCB-0220	CFW--1500-8	CRDW-3-36	CCAP 2050-RL	CRDW-2-48	CMTK 13V	CMTK 11L
4/0	CFM-1100-6	CCB-0350	CFW--1500-8	CRDW-3-36	CCAP 2050-RL	CRDW-2-48	CMTK 13V	CMTK 11L
250	CFM-1700-6	CCB-0350	CFW-2000-12	CRDW-4-48	CCAP 3500-RL	CRDW-3-48	CMTK 14V	CMTK 12L
300	CFM-1700-6	CCB-0350	CFW-2000-12	CRDW-4-48	CCAP 3500-RL	CRDW-3-48	CMTK 14V	CMTK 12L
350	CFM-1700-6	CCB-0350	CFW-2000-12	CRDW-4-48	CCAP 3500-RL	CRDW-3-48	CMTK 14V	CMTK 12L
400	CFM-1700-6	CCB-0430	CFW-2000-12	CRDW-4-48	CCAP 3500-RL	CRDW-3-48	CMTK 14V	CMTK 12L
500	CFM-1700-6	CCB-0430	CFW-2700-12	CRDW-4-48	CCAP 3500-RL	CRDW-3-48	CMTK 14V	CMTK 12L
600	CFM-2050-6	CCB-0430	CFW-2700-12	CRDW-4-48	CCAP 4700-RL	CRDW-3-48	Not Available	CMTK 12L
750	CFM-2050-6	CCB-0430	CFW-2700-12	CRDW-4-48	CCAP 4700-RL	CRDW-3-48	Not Available	CMTK 12L
1000	CFM-2050-6	CCB-0430	CFW-2700-12	CRDW-4-48	CCAP 4700-RL	CRDW-4-48	Not Available	CMTK 12L

3/C, ARMORED 600 V CABLES

XLP, EPR/PVC OR EPR/CSPE

CONDUCTOR SIZE	LUG SEAL*	SEALING BOOT	STRAIGHT SPLICES	END CAP	JACKET REPAIR SLEEVES	MOTOR CONNECTION KITS	
	3 EACH	PLUS 1			RAILED	STUB TYPE	IN-LINE TYPE
#8	CFM-0750-6	CCB-0150	Not Available; Consult Factory	CCAP 1700-RL	CRDW-2-48	CMTK 12V	CMTK 11L
#6	CFM-0750-6	CCB-0150	Not Available; Consult Factory	CCAP 1700-RL	CRDW-2-48	CMTK 12V	CMTK 11L
#4	CFM-0750-6	CCB-0150	Not Available; Consult Factory	CCAP 1700-RL	CRDW-2-48	CMTK 12V	CMTK 11L
#2	CFM-1100-6	CCB-0220	Not Available; Consult Factory	CCAP 1700-RL	CRDW-2-48	CMTK 12V	CMTK 11L
#1	CFM-1100-6	CCB-0220	Not Available; Consult Factory	CCAP 1700-RL	CRDW-2-48	CMTK 13V	CMTK 11L
1/0	CFM-1100-6	CCB-0220	Not Available; Consult Factory	CCAP 2050-RL	CRDW-2-48	CMTK 13V	CMTK 11L
2/0	CFM-1100-6	CCB-0220	Not Available; Consult Factory	CCAP 2050-RL	CRDW-2-48	CMTK 13V	CMTK 11L
3/0	CFM-1100-6	CCB-0220	Not Available; Consult Factory	CCAP 2050-RL	CRDW-2-48	CMTK 13V	CMTK 11L
4/0	CFM-1100-6	CCB-0350	Not Available; Consult Factory	CCAP 2050-RL	CRDW-2-48	CMTK 13V	CMTK 11L
250	CFM-1700-6	CCB-0350	Not Available; Consult Factory	CCAP 3500-RL	CRDW-3-48	CMTK 14V	CMTK 12L
300	CFM-1700-6	CCB-0350	Not Available; Consult Factory	CCAP 3500-RL	CRDW-3-48	CMTK 14V	CMTK 12L
350	CFM-1700-6	CCB-0350	Not Available; Consult Factory	CCAP 3500-RL	CRDW-3-48	CMTK 14V	CMTK 12L
400	CFM-1700-6	CCB-0430	Not Available; Consult Factory	CCAP 3500-RL	CRDW-3-48	CMTK 14V	CMTK 12L
500	CFM-1700-6	CCB-0430	Not Available; Consult Factory	CCAP 3500-RL	CRDW-3-48	CMTK 14V	CMTK 12L
600	CFM-2050-6	CCB-0430	Not Available; Consult Factory	CCAP 4700-RL	CRDW-3-48	Not Available	CMTK 12L
750	CFM-2050-6	CCB-0430	Not Available; Consult Factory	CCAP 4700-RL	CRDW-3-48	Not Available	CMTK 12L
1000	CFM-2050-6	CCB-0430	Not Available; Consult Factory	CCAP 4700-RL	CRDW-4-48	Not Available	CMTK 12L

*CFM tubing lengths are purchased in 48 in lengths and cut to the length shown, e.g. for two each 2/0 terminal lug seals, you would cut six each 6 in pieces. Buy a CFM-Black-1100-48 and field cut six each, six inch pieces. Ground wires must be blocked and encapsulated in 2 in wide black sealant CTSS.

**The CFW tubing lengths are purchased in 48 in lengths and cut to the length shown, e.g. for a 2/0 butt splice less than 4 in long you would cut six 8 in pieces to make six splices. Buy a CFW-Black-1500-48 and field cut six each, eight inch pieces. The CRDW wraparound sleeve is used to seal from jacket to jacket across the overall three conductor cable. The maximum connector length is the tubing length less 4 in, i.e. 6 in long tubes can accommodate 4 in long connectors.

3/C, 5 kV UNSHIELDED CABLES

90 - 115 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION INDOOR OR OUTDOOR	COLD SHRINK TERMINATION INDOOR OR OUTDOOR	HEAT SHRINK STRAIGHT SPLICE	END CAP	JACKET REPAIR SLEEVES	MOTOR CONNECTION KITS	
					RAILED	STUB TYPE	IN-LINE TYPE
	CT 50N3 Series	TITAN NS Series	CJ N50 Series				
#8	CT 51N3	-	CJ N351	CCAP 2050-RL	CRDW-2-48	CMTK 51V	CMTK 51L
#6	CT 51N3	-	CJ N351	CCAP 2050-RL	CRDW-2-48	CMTK 51V	CMTK 51L
#4	CT 51N3	TITAN NS Series	CJ N351	CCAP 2050-RL	CRDW-2-48	CMTK 51V	CMTK 51L
#2	CT 51N3	TITAN NS Series	CJ N351	CCAP 2050-RL	CRDW-2-48	CMTK 51V	CMTK 51L
#1	CT 51N3	TITAN NS Series	CJ N351	CCAP 2050-RL	CRDW-2-48	CMTK 52V	CMTK 51L
1/0	CT 51N3	TITAN NS Series	CJ N351	CCAP 2050-RL	CRDW-2-48	CMTK 52V	CMTK 51L
2/0	CT 51N3	TITAN NS Series	CJ N351	CCAP 2750-RL	CRDW-2-48	CMTK 52V	CMTK 51L
3/0	CT 52N3	TITAN NS Series	CJ N352	CCAP 2750-RL	CRDW-3-48	CMTK 52V	CMTK 51L
4/0	CT 52N3	TITAN NS Series	CJ N352	CCAP 2750-RL	CRDW-3-48	CMTK 52V	CMTK 51L
250	CT 52N3	TITAN NS Series	CJ N352	CCAP 2750-RL	CRDW-3-48	CMTK 52V	CMTK 51L
300	CT 52N3	TITAN NS Series	CJ N352	CCAP 3500-RL	CRDW-3-48	CMTK 53V	CMTK 52L
350	CT 52N3	TITAN NS Series	CJ N352	CCAP 3500-RL	CRDW-3-48	CMTK 53V	CMTK 52L
400	CT 52N3	TITAN NS Series	CJ N353	CCAP 3500-RL	CRDW-3-48	CMTK 53V	CMTK 52L
500	CT 52N3	TITAN NS Series	CJ N353	CCAP 3500-RL	CRDW-3-48	CMTK 53V	CMTK 52L
600	CT 53N3	TITAN NS Series	CJ N353	CCAP 4700-RL	CRDW-3-48	CMTK 53V	CMTK 52L
750	CT 53N3	TITAN NS Series	CJ N353	CCAP 4700-RL	CRDW-4-48	CMTK 53V	CMTK 52L
1000	CT 53N3	TITAN NS Series	CJ N353	CCAP 4700-RL	CRDW-4-48	CMTK 53V	CMTK 52L

* For references to **Titan NS Series** please see page 57 to select the correct TITAN size for your application.

3/C, ARMORED 5 kV UNSHIELDED CABLES

90 - 115 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION INDOOR OR OUTDOOR	COLD SHRINK TERMINATION INDOOR OR OUTDOOR	HEAT SHRINK STRAIGHT SPLICE	END CAP	JACKET REPAIR SLEEVES	MOTOR CONNECTION KITS	
					RAILED	STUB TYPE	IN-LINE TYPE
	CT 50N3 Series	TITAN NS Series	CJ N50 Series				
#8	CT 51N3	-	CJ N3A51	CCAP 0750-RL	CRDW-3-48	CMTK 51V	CMTK 51L
#6	CT 51N3	-	CJ N3A51	CCAP 0750-RL	CRDW-3-48	CMTK 51V	CMTK 51L
#4	CT 51N3	-	CJ N3A51	CCAP 0750-RL	CRDW-3-48	CMTK 51V	CMTK 51L
#2	CT 51N3	TITAN NS plus	CJ N3A51	CCAP 0750-RL	CRDW-3-48	CMTK 51V	CMTK 51L
#1	CT 51N3	TITAN 3/C	CJ N3A51	CCAP 0750-RL	CRDW-3-48	CMTK 52V	CMTK 51L
1/0	CT 51N3	Mod Series	CJ N3A51	CCAP 0750-RL	CRDW-3-48	CMTK 52V	CMTK 51L
2/0	CT 51N3		CJ N3A51	CCAP 1500-RL	CRDW-3-48	CMTK 52V	CMTK 51L
3/0	CT 52N3		CJ N3A52	CCAP 1500-RL	CRDW-3-48	CMTK 52V	CMTK 51L
4/0	CT 52N3		CJ N3A52	CCAP 1500-RL	CRDW-3-48	CMTK 52V	CMTK 51L
250	CT 52N3		CJ N3A52	CCAP 1500-RL	CRDW-4-48	CMTK 52V	CMTK 51L
300	CT 52N3		CJ N3A52	CCAP 1500-RL	CRDW-4-48	CMTK 53V	CMTK 52L
350	CT 52N3		CJ N3A52	CCAP 1500-RL	CRDW-4-48	CMTK 53V	CMTK 52L
400	CT 52N3		CJ N3A53	CCAP 1500-RL	CRDW-4-48	CMTK 53V	CMTK 52L
500	CT 52N3		CJ N3A53	CCAP 2050-RL	CRDW-4-48	CMTK 53V	CMTK 52L
600	CT 53N3		CJ N3A53	CCAP 2050-RL	CRDW-4-48	CMTK 53V	CMTK 52L
750	CT 53N3		CJ N3A53	CCAP 2050-RL	CRDW-4-48	CMTK 53V	CMTK 52L
1000	CT 53N3		CJ N3A53	CCAP 2050-RL	CRDW-4-48	CMTK 53V	CMTK 52L

* For references to **Titan NS Series** please see page 57 to select the correct TITAN size for your application.

3/C, TAPE SHIELDED 5 KV CABLES

90 MILS GROUNDED, 115 MILS UNGROUNDED

CONDUCTOR SIZE	3/C HEAT SHRINK TERMINATION		3/C COLD SHRINK TERMINATION		HEAT SHRINK STRAIGHT JOINT	END CAP STORAGE ONLY	JACKET REPAIR SLEEVE	MOTOR CONNECTION KITS	
	INDOOR - NO BOOT	OUTDOOR - WITH BOOT	INDOOR - NO BOOT	OUTDOOR - WITH BOOT			RAILED	STUB TYPE	IN-LINE TYPE
	CT 3G Series		TITAN G Series		CJ 320 Series				
#8	CT 3X081G	CT 3B081EG	TITAN G Series	TITAN G Series	CJ 3821	CCAP 2750-RL	CRDW-2-48	CMTK 51V	CMTK 51L
#6	CT 3X081G	CT 3B081EG	plus	plus	CJ 3821	CCAP 2750-RL	CRDW-2-48	CMTK 51V	CMTK 51L
#4	CT 3X081G	CT 3B081EG	TITAN 3/C	TITAN 3/C	CJ 3821	CCAP 2750-RL	CRDW-2-48	CMTK 51V	CMTK 51L
#2	CT 3X081G	CT 3B081EG	Mod Series	Mod Series	CJ 3821	CCAP 2750-RL	CRDW-2-48	CMTK 51V	CMTK 51L
#1	CT 3X081G	CT 3B081EG			CJ 3821	CCAP 2750-RL	CRDW-2-48	CMTK 52V	CMTK 51L
1/0	CT 3X082G	CT 3B082EG			CJ 3821	CCAP 2750-RL	CRDW-2-48	CMTK 52V	CMTK 51L
2/0	CT 3X082G	CT 3B082EG			CJ 3821	CCAP 2750-RL	CRDW-2-48	CMTK 52V	CMTK 51L
3/0	CT 3X082G	CT 3B082EG			CJ 3822	CCAP 2750-RL	CRDW-3-48	CMTK 52V	CMTK 51L
4/0	CT 3X082G	CT 3B082EG			CJ 3822	CCAP 3500-RL	CRDW-3-48	CMTK 52V	CMTK 51L
250	CT 3X082G	CT 3B082EG			CJ 3822	CCAP 3500-RL	CRDW-3-48	CMTK 52V	CMTK 51L
300	CT 3X083G	CT 3B083EG			CJ 3822	CCAP 3500-RL	CRDW-3-48	CMTK 53V	CMTK 52L
350	CT 3X083G	CT 3B083EG			CJ3823	CCAP 3500-RL	CRDW-3-48	CMTK 53V	CMTK 52L
400	CT 3X083G	CT 3B083EG			CJ3823	CCAP 3500-RL	CRDW-3-48	CMTK 53V	CMTK 52L
500	CT 3X083G	CT 3B083EG			CJ3823	CCAP 3500-RL	CRDW-3-48	CMTK 53V	CMTK 52L
600	CT 3X084G	CT 3B084EG			CJ3823	CCAP 3500-RL	CRDW-3-48	CMTK 53V	CMTK 52L
750	CT 3X084G	CT 3B084EG			CJ3823	CCAP 4700-RL	CRDW-4-48	CMTK 53V	CMTK 52L
1000	CT 3X084G	CT 3B084EG			CJ3824	CCAP 4700-RL	CRDW-4-48	CMTK 53V	CMTK 52L

* For references to **Titan G Series** please see page 53 to select the correct TITAN size for your application.

3/C, ARMORED TAPE SHIELDED 5 KV CABLES

90 MILS GROUNDED, 115 MILS UNGROUNDED

CONDUCTOR SIZE	3/C HEAT SHRINK TERMINATION		3/C COLD SHRINK TERMINATION		HEAT SHRINK ARMORED JOINT	END CAP STORAGE ONLY	JACKET REPAIR SLEEVE	MOTOR CONNECTION KITS	
	INDOOR - NO BOOT	OUTDOOR - WITH BOOT	INDOOR - NO BOOT	OUTDOOR - WITH BOOT			RAILED	STUB TYPE	IN-LINE TYPE
	CT 3G Series		TITAN G Series		CJ 3A20 Series				
#8	CT 3X081G	CT 3B081EG	TITAN G Series	TITAN G Series	CJ 3A821	CCAP 2750-RL	CRDW-3-48	CMTK 51V	CMTK 51L
#6	CT 3X081G	CT 3B081EG	plus	plus	CJ 3A821	CCAP 2750-RL	CRDW-3-48	CMTK 51V	CMTK 51L
#4	CT 3X081G	CT 3B081EG	TITAN 3/C	TITAN 3/C	CJ 3A821	CCAP 2750-RL	CRDW-3-48	CMTK 51V	CMTK 51L
#2	CT 3X081G	CT 3B081EG	Mod Series	Mod Series	CJ 3A821	CCAP 2750-RL	CRDW-3-48	CMTK 51V	CMTK 51L
#1	CT 3X081G	CT 3B081EG			CJ 3A821	CCAP 2750-RL	CRDW-3-48	CMTK 52V	CMTK 51L
1/0	CT 3X082G	CT 3B082EG			CJ 3A821	CCAP 2750-RL	CRDW-3-48	CMTK 52V	CMTK 51L
2/0	CT 3X082G	CT 3B082EG			CJ 3A821	CCAP 3500-RL	CRDW-3-48	CMTK 52V	CMTK 51L
3/0	CT 3X082G	CT 3B082EG			CJ 3A822	CCAP 3500-RL	CRDW-3-48	CMTK 52V	CMTK 51L
4/0	CT 3X082G	CT 3B082EG			CJ 3A822	CCAP 3500-RL	CRDW-3-48	CMTK 52V	CMTK 51L
250	CT 3X082G	CT 3B082EG			CJ 3A822	CCAP 3500-RL	CRDW-4-48	CMTK 52V	CMTK 51L
300	CT 3X083G	CT 3B083EG			CJ 3A822	CCAP 3500-RL	CRDW-4-48	CMTK 53V	CMTK 52L
350	CT 3X083G	CT 3B083EG			CJ 3A823	CCAP 3500-RL	CRDW-4-48	CMTK 53V	CMTK 52L
400	CT 3X083G	CT 3B083EG			CJ 3A823	CCAP 3500-RL	CRDW-4-48	CMTK 53V	CMTK 52L
500	CT 3X083G	CT 3B083EG			CJ 3A823	CCAP 3500-RL	CRDW-4-48	CMTK 53V	CMTK 52L
600	CT 3X084G	CT 3B084EG			CJ 3A823	CCAP 4700-RL	CRDW-4-48	CMTK 53V	CMTK 52L
750	CT 3X084G	CT 3B084EG			CJ 3A823	CCAP 4700-RL	CRDW-4-48	CMTK 53V	CMTK 52L
1000	CT 3X084G	CT 3B084EG			CJ 3A824	CCAP 4700-RL	CRDW-4-48	CMTK 53V	CMTK 52L

* For references to **Titan G Series** please see page 53 to select the correct TITAN size for your application.

*Three conductor terminations can be supplied with a boot (CT 3B08xG for indoor and CT 3B08xEG for outdoor) for a totally sealed system. They can also be ordered without a boot when a totally sealed system is not desired or when other means are used to seal the outer jacket of the cable, such as a TECK connector JAG type connector or other sealing glands are used. For that application use CT 3X08xG for indoor and CT 3X08xEG for outdoor.

3/C, TAPE SHIELDED 15 kV CABLES

175 MILS GROUNDED, 220 MILS UNGROUNDED

CONDUCTOR SIZE	3/C HEAT SHRINK TERMINATION		3/C COLD SHRINK TERMINATION		HEAT SHRINK STRAIGHT JOINT	END CAP STORAGE ONLY	JACKETED REPAIR SLEEVES
	INDOOR - NO BOOT	OUTDOOR - WITH BOOT	INDOOR - NO BOOT	OUTDOOR - WITH BOOT			RAILED
	CT 3G Series		TITAN G Series		CJ 320 Series		
#4	CT 3X151G	CT 3B151EG	TITAN G Series	TITAN G Series	CJ 31521	CCAP 3500-RL	CRDW-3-48
#2	CT 3X151G	CT 3B151EG	plus	plus	CJ 31521	CCAP 3500-RL	CRDW-3-48
#1	CT 3X151G	CT 3B151EG	TITAN 3/C	TITAN 3/C	CJ 31521	CCAP 3500-RL	CRDW-3-48
1/0	CT 3X151G	CT 3B151EG	Mod Series	Mod Series	CJ 31521	CCAP 3500-RL	CRDW-3-48
2/0	CT 3X151G	CT 3B151EG			CJ 31521	CCAP 3500-RL	CRDW-3-48
3/0	CT 3X151G	CT 3B151EG			CJ 31521	CCAP 3500-RL	CRDW-3-48
4/0	CT 3X151G	CT 3B151EG			CJ 31521	CCAP 3500-RL	CRDW-3-48
250	CT 3X152G	CT 3B152EG			CJ 31522	CCAP 4700-RL	CRDW-4-48
300	CT 3X152G	CT 3B152EG			CJ 31522	CCAP 4700-RL	CRDW-4-48
350	CT 3X152G	CT 3B152EG			CJ 31522	CCAP 4700-RL	CRDW-4-48
400	CT 3X153G	CT 3B153EG			CJ 31522	CCAP 4700-RL	CRDW-4-48
500	CT 3X153G	CT 3B153EG			CJ 31523	CCAP 4700-RL	CRDW-4-48
600	CT 3X153G	CT 3B153EG			CJ 31523	CCAP 4700-RL	CRDW-4-48
750	CT 3X153G	CT 3B153EG			CJ 31523	CCAP 4700-RL	CRDW-4-48
1000	CT 3X153G	CT 3B153EG			CJ 31524	CCAP 4700-RL	CRDW-4-48

* For references to **Titan G Series** please see page 53 to select the correct TITAN size for your application.

3/C, ARMORED TAPE SHIELDED 15 kV CABLES

175 MILS GROUNDED, 220 MILS UNGROUNDED

CONDUCTOR SIZE	3/C HEAT SHRINK TERMINATION		3/C COLD SHRINK TERMINATION		HEAT SHRINK ARMORED JOINT	END CAP STORAGE ONLY	JACKET REPAIR SLEEVES
	INDOOR - NO BOOT	OUTDOOR - WITH BOOT	INDOOR - NO BOOT	OUTDOOR - WITH BOOT			RAILED
	CT 3G Series		TITAN G Series		CJ 3A20 Series		
#4	CT 3X151G	CT 3B151EG	TITAN G Series	TITAN G Series	CJ 3A1521	CCAP 3500-RL	CRDW-3-48
#2	CT 3X151G	CT 3B151EG	plus	plus	CJ 3A1521	CCAP 3500-RL	CRDW-3-48
#1	CT 3X151G	CT 3B151EG	TITAN 3/C	TITAN 3/C	CJ 3A1521	CCAP 3500-RL	CRDW-3-48
1/0	CT 3X151G	CT 3B151EG	Mod Series	Mod Series	CJ 3A1521	CCAP 3500-RL	CRDW-3-48
2/0	CT 3X151G	CT 3B151EG			CJ 3A1521	CCAP 3500-RL	CRDW-3-48
3/0	CT 3X151G	CT 3B151EG			CJ 3A1521	CCAP 3500-RL	CRDW-3-48
4/0	CT 3X151G	CT 3B151EG			CJ 3A1521	CCAP 3500-RL	CRDW-3-48
250	CT 3X152G	CT 3B152EG			CJ 3A1522	CCAP 4700-RL	CRDW-4-48
300	CT 3X152G	CT 3B152EG			CJ 3A1522	CCAP 4700-RL	CRDW-4-48
350	CT 3X152G	CT 3B152EG			CJ 3A1522	CCAP 4700-RL	CRDW-4-48
400	CT 3X153G	CT 3B153EG			CJ 3A1522	CCAP 4700-RL	CRDW-4-48
500	CT 3X153G	CT 3B153EG			CJ 3A1523	CCAP 4700-RL	CRDW-4-48
600	CT 3X153G	CT 3B153EG			CJ 3A1523	CCAP 4700-RL	CRDW-4-48
750	CT 3X153G	CT 3B153EG			CJ 3A1523	CCAP 4700-RL	CRDW-4-48
1000	CT 3X153G	CT 3B153EG			CJ 3A1524	CCAP 4700-RL	CRDW-4-48

* For references to **Titan G Series** please see page 53 to select the correct TITAN size for your application.

*Three conductor terminations can be supplied with a boot (CT 3B15xG for indoor and CT 3B15xEG for outdoor) for a totally sealed system. They can also be ordered without a boot when a totally sealed system is not desired or when other means are used to seal the outer jacket of the cable, such as a TECK connector JAG type connector or other sealing glands are used. For that application use CT 3X15xG for indoor and CT 3X15xEG for outdoor.

3/C, TAPE SHIELDED 25 - 28 KV CABLES

260 - 280 MILS GROUNDED

CONDUCTOR SIZE	3/C HEAT SHRINK TERMINATION		STRAIGHT JOINT	END CAP STORAGE ONLY	JACKETED REPAIR SLEEVES
	INDOOR - NO BOOT	OUTDOOR - WITH BOOT			RAILED
	CT 3G Series		CJ 320 Series		
#1	CT 3X251G	CT 3B251EG	CJ 32521	CCAP 3500-RL	CRDW-4-48
1/0	CT 3X251G	CT 3B251EG	CJ 32521	CCAP 3500-RL	CRDW-4-48
2/0	CT 3X251G	CT 3B251EG	CJ 32521	CCAP 3500-RL	CRDW-4-48
3/0	CT 3X251G	CT 3B251EG	CJ 32521	CCAP 3500-RL	CRDW-4-48
4/0	CT 3X251G	CT 3B251EG	CJ 32521	CCAP 3500-RL	CRDW-4-48
250	CT 3X251G	CT 3B251EG	CJ 32522	CCAP 3500-RL	CRDW-4-48
300	CT 3X251G	CT 3B251EG	CJ 32522	CCAP 4700-RL	CRDW-4-48
350	CT 3X252G	CT 3B252EG	CJ 32522	CCAP 4700-RL	CRDW-4-48
400	CT 3X252G	CT 3B252EG	CJ 32522	CCAP 4700-RL	CRDW-4-48
500	CT 3X252G	CT 3B252EG	CJ 32522	CCAP 4700-RL	CRDW-4-48
600	CT 3X252G	CT 3B252EG	CJ 32523	CCAP 4700-RL	CRDW-4-48
750	CT 3X252G	CT 3B252EG	CJ 32523	CCAP 4700-RL	CRDW-4-48
1000	CT 3X252G	CT 3B252EG	CJ 32523	CCAP 4700-RL	CRDW-4-48

3/C, ARMORED TAPE SHIELDED 25 - 28 KV CABLES

260 - 280 MILS GROUNDED

CONDUCTOR SIZE	3/C HEAT SHRINK TERMINATION		ARMORED JOINT	END CAP STORAGE ONLY	JACKET REPAIR SLEEVES
	INDOOR - NO BOOT	OUTDOOR - WITH BOOT			RAILED
	CT 3G Series		CJ 3A20 Series		
#1	CT 3X251G	CT 3B251EG	CJ 3A2521	CCAP 3500-RL	CRDW-4-48
1/0	CT 3X251G	CT 3B251EG	CJ 3A2521	CCAP 3500-RL	CRDW-4-48
2/0	CT 3X251G	CT 3B251EG	CJ 3A2521	CCAP 3500-RL	CRDW-4-48
3/0	CT 3X251G	CT 3B251EG	CJ 3A2521	CCAP 3500-RL	CRDW-4-48
4/0	CT 3X251G	CT 3B251EG	CJ 3A2521	CCAP 3500-RL	CRDW-4-48
250	CT 3X251G	CT 3B251EG	CJ 3A2522	CCAP 4700-RL	CRDW-4-48
300	CT 3X251G	CT 3B251EG	CJ 3A2522	CCAP 4700-RL	CRDW-4-48
350	CT 3X252G	CT 3B252EG	CJ 3A2522	CCAP 4700-RL	CRDW-4-48
400	CT 3X252G	CT 3B252EG	CJ 3A2522	CCAP 4700-RL	CRDW-4-48
500	CT 3X252G	CT 3B252EG	CJ 3A2522	CCAP 4700-RL	CRDW-4-48
600	CT 3X252G	CT 3B252EG	CJ 3A2523	CCAP 4700-RL	CRDW-4-48
750	CT 3X252G	CT 3B252EG	CJ 3A2523	CCAP 4700-RL	CRDW-4-48
1000	CT 3X252G	CT 3B252EG	CJ 3A2523	CCAP 4700-RL	CRDW-4-48

*Three conductor terminations can be supplied with a boot (CT 3B25xG for indoor and CT 3B25xEG for outdoor) for a totally sealed system. They can also be ordered without a boot when a totally sealed system is not desired or when other means are used to seal the outer jacket of the cable, such as a TECK connector JAG type connector or other sealing glands are used. For that application use CT 3X25xG for indoor and CT 3X25xEG for outdoor.

3/C, TAPE SHIELDED 35 kV CABLES

345 MILS GROUNDED

CONDUCTOR SIZE	3/C HEAT SHRINK TERMINATION		STRAIGHT JOINTS	END CAP STORAGE ONLY	JACKETED REPAIR SLEEVES
	INDOOR - NO BOOT	OUTDOOR - WITH BOOT			RAILED
	CT 3G Series		CJ 320 Series		
#1	CT 3X351G	CT 3B351EG	CJ 33521	CCAP 4700-RL	CRDW-4-48
1/0	CT 3X351G	CT 3B351EG	CJ 33521	CCAP 4700-RL	CRDW-4-48
2/0	CT 3X351G	CT 3B351EG	CJ 33521	CCAP 4700-RL	CRDW-4-48
3/0	CT 3X351G	CT 3B351EG	CJ 33521	CCAP 4700-RL	CRDW-4-48
4/0	CT 3X351G	CT 3B351EG	CJ 33522	CCAP 4700-RL	CRDW-4-48
250	CT 3X351G	CT 3B351EG	CJ 33522	CCAP 4700-RL	CRDW-5-48
300	CT 3X351G	CT 3B351EG	CJ 33522	CCAP 4700-RL	CRDW-5-48
350	CT 3X352G	CT 3B352EG	CJ 33522	CCAP 4700-RL	CRDW-5-48
400	CT 3X352G	CT 3B352EG	CJ 33522	CCAP 4700-RL	CRDW-5-48
500	CT 3X352G	CT 3B352EG	CJ 33522	CCAP 4700-RL	CRDW-5-48
600	CT 3X352G	CT 3B352EG	CJ 33523	Not Available	CRDW-5-48
750	CT 3X352G	CT 3B352EG	CJ 33523	Not Available	CRDW-5-48
1000	CT 3X352G	CT 3B352EG	CJ 33523	Not Available	CRDW-5-48

3/C, ARMORED TAPE SHIELDED 35 kV CABLES

345 MILS GROUNDED

CONDUCTOR SIZE	3/C HEAT SHRINK TERMINATION		ARMORED JOINTS	END CAP STORAGE ONLY	JACKET REPAIR SLEEVES
	INDOOR - NO BOOT	OUTDOOR - WITH BOOT			RAILED
	CT 3G Series		CJ 3A20 Series		
#1	CT 3X351G	CT 3B351EG	CJ 3A3521	CCAP 4700-RL	CRDW-4-48
1/0	CT 3X351G	CT 3B351EG	CJ 3A3521	CCAP 4700-RL	CRDW-4-48
2/0	CT 3X351G	CT 3B351EG	CJ 3A3521	CCAP 4700-RL	CRDW-4-48
3/0	CT 3X351G	CT 3B351EG	CJ 3A3521	CCAP 4700-RL	CRDW-4-48
4/0	CT 3X351G	CT 3B351EG	CJ 3A3522	CCAP 4700-RL	CRDW-4-48
250	CT 3X352G	CT 3B352EG	CJ 3A3522	CCAP 4700-RL	CRDW-5-48
300	CT 3X352G	CT 3B352EG	CJ 3A3522	CCAP 4700-RL	CRDW-5-48
350	CT 3X352G	CT 3B352EG	CJ 3A3522	CCAP 4700-RL	CRDW-5-48
400	CT 3X352G	CT 3B352EG	CJ 3A3522	CCAP 4700-RL	CRDW-5-48
500	CT 3X352G	CT 3B352EG	CJ 3A3522	CCAP 4700-RL	CRDW-5-48
600	CT 3X352G	CT 3B352EG	CJ 3A3523	Not Available	CRDW-5-48
750	CT 3X352G	CT 3B352EG	CJ 3A3523	Not Available	CRDW-5-48
1000	CT 3X352G	CT 3B352EG	CJ 3A3523	Not Available	CRDW-5-48

*Three conductor terminations can be supplied with a boot (CT 3B35xG for indoor and CT 3B35xEG for outdoor) for a totally sealed system. They can also be ordered without a boot when a totally sealed system is not desired or when other means are used to seal the outer jacket of the cable, such as a TECK connector JAG type connector or other sealing glands are used. For that application use CT 3X35xG for indoor and CT 3X35xEG for outdoor.

PRODUCT CROSS REFERENCE CHART

INSULATE
SEAL
PROTECT

	DSG-CANUSA	TYCO	SUMITOMO	ALPHA	3M	LG
THIN WALL	CHM 140	RT-3, CRN	B8, D	FIT295	SR350	GSHS-1635S
	CPX 100	RNF-100	B2, A2	FIT221	FP301(1)	GSHS-1635F
	CPX 201	DCPT	B2(Y/G)	FIT260	GYS	GSHS-1635Y/G
	CPX 300	RNF-3000	B2(3X), A2(3X)	FIT321V	SFTW-203	GSHS-3635
	CPX 876	VERSAFIT	B2(Z), F2	FIT221V	FP-301VW	GSHS-1625LT
	CZM 200	ZHTM				
	CZT 200	ZH-100	NH			
	DERAY® ITW	VERSAFIT V4	F3(Z), F32			GSHS-1625T
	DERAY® LSB	LSTT				
DUAL WALL	CPA 100	TAT, DWP-125	O2B2	FIT321	EPS200/300	2690W, 1625W
	CPA 300	ATUM3:1, DWP-125	W3B2	FIT321	EPS300	GSHS-3635W
	DERAY® HXKT	SCL	W5O2	FIT306	MW	GSHS-3625WS
	DERAY® IHKT	ATUM4:1	W3B2(4X)		EPS400	
	DERAY® Splicement	ES-2000	SA2		EPS400, SMS	
	CDR	SCT, ES-2000				
	CFRA	FL2500				
	DERAY® ColdMelt	LMX				
	DERAY® DuoMelt	Rayblock				
	DERAY® PressMelt	Rayblock				
	DERAY® SpliceMelt Caps	ES/PD Caps				
	CDR Caps	ES-HW Caps ES/PD Caps				

PRODUCT CROSS REFERENCE CHART

	DSG-CANUSA	TYCO	SUMITOMO	ALPHA	3M	LG
MEDIUM/HEAVY WALL	CFHR	HRSR, HRHF		FIT621		
	CFM	MWTM, SST-M			IMCSN	LG-PMWT
	CFW	WCSM, SST, RHW		FIT700	ITCSN	LG-PHWT
	FCFW	BSTSFR, SSTFR, FCSM			HDT, ITCSE	
	QuickWrap					
	CFTV	TCS2			CCT	LG-CATV
	CCAP-RL	SSC,ESC		FIT Cap	ICEC	
	CCAP-FR/RL	SSC-FR			SKE	
	CCB	CBR			HDBB	
	CRDW	CRSM			HDCW	
	CRLS			FIT Wrap		
	CBTM	BPTM			BBI	
	CBTH	BBIT			BBI	LG-BBHV
	CSS				8420, 8450	
COMMUNICATIONS	CFSP	SMOUV	FSP-1			
	CFTV QuickWrap					
	CTB-15					
	Drop Tubing					
	Gel Drop Splice Enclosure	CERTI SEAL				
NON POLYOLEFIN	CNP 200 Neoprene	NT	R10	FIT600	NST	LG-CRFR
	CTFE 250	TFE	TPE CP			
	CVN 105			FIT105		
	DERAY® KY 175	RW-175	K	FIT350	Kynar	GSHS-1675
	DERAY® KYF 190	RT-375	K2			
	DERAY® V25	DR25	R120			LG-DRET
	DERAY® VT 220	RW200, Viton®	FE3	FIT650	Viton	GSHS-1650F

DSG-CANUSA

THERE'S NO END TO WHAT WE COVER

Using materials science expertise, DSG-Canusa provides heat shrink and cold applied solutions for electrical insulation and mechanical protection for the Electrical/Utility, Communications, Automotive and Electronic markets. Our continued investment in research and development continues to yield new products to meet industry requirements. Moreover, an aptitude and readiness to engineer unique solutions to suit customer applications has earned us a reputation of excellence in customer satisfaction. DSG-Canusa is a market leader with manufacturing and support facilities throughout the globe.

DSG-CANUSA CAN SATISFY THE MOST DEMANDING CUSTOMER NEEDS THROUGH:

- Commitment to a formal Customer Satisfaction Program
- A global sales and service network
- Significant expenditures in product development
- Solutions oriented Applications Engineering
- TS 16949/ISO 9000 system implementation
- Fully stocked product line
- Vendor managed inventory/EDI
- Web site support including technical specifications & new product information

MISSION STATEMENT

TO BE A GLOBAL LEADER IN HEAT SHRINKABLE TUBING AND CABLE ACCESSORIES,
THROUGH EXCELLENCE IN SERVICE, INNOVATION AND VALUE.

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