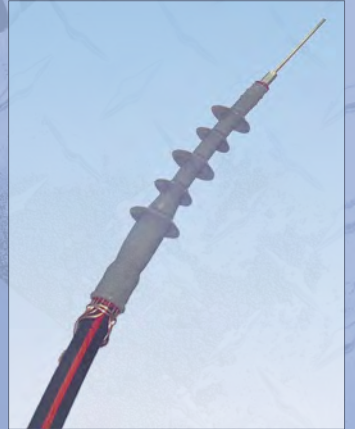




# DSG-CANUSA

A SHAWCOR COMPANY

## MEDIUM VOLTAGE 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

### **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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## 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

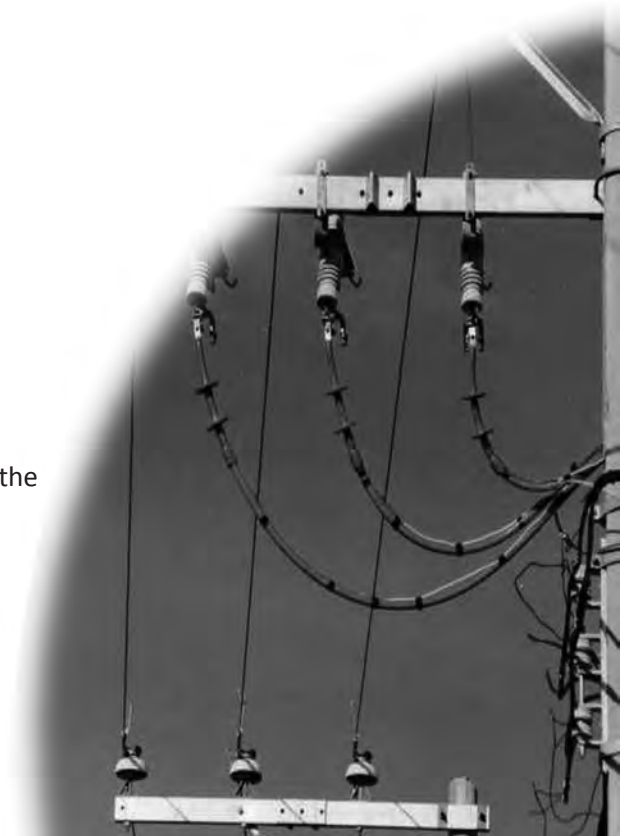
- IEEE 48-1996, Class 1

## 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 #2AWG 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
<b>5kV</b>		<b>5kV, 100 %</b>					<b>5kV, 133 %</b>					
TITAN 051S	TITAN 051SE	1/0-3/0 AWG	0.55-0.71	14-18	0.99	25	#2-3/0 AWG	0.55-0.71	14-18	0.99	25	3
TITAN 052S	TITAN 052SE	4/0-500 KCMIL	0.71-0.98	18-25	1.32	34	4/0-500 KCMIL	0.71-1.03	18-26	1.32	34	3
TITAN 053S	TITAN 053SE	600-1000 KCMIL	0.98-1.32	25-34	1.73	44	600-1000 KCMIL	1.03-1.37	26-35	1.73	44	3
<b>8kV</b>		<b>8kV, 100 %</b>					<b>8kV, 133 %</b>					
TITAN 081S	TITAN 081SE	#2-3/0 AWG	0.55-0.71	14-18	0.99	25	#2-2/0 AWG	0.60-0.71	15-18	0.99	25	3
TITAN 082S	TITAN 082SE	4/0-500 KCMIL	0.71-1.03	18-26	1.37	35	3/0-500 KCMIL	0.71-1.08	18-27	1.37	35	3
TITAN 083S	TITAN 083SE	600-1000 KCMIL	1.03-1.37	26-35	1.78	45	600-1000 KCMIL	1.08-1.42	27-36	1.78	45	3
<b>15kV</b>		<b>15kV, 100 %</b>					<b>15kV, 133 %</b>					
TITAN 151S	TITAN 151SE	#2-#1 AWG	0.66-0.72	17-18	0.99	25	---	---	---	---	---	3
TITAN 152S	TITAN 152SE	1/0-350 KCMIL	0.74-1.03	19-26	1.37	34	#2-250 KCMIL	0.75-1.03	19-26	1.37	35	3
TITAN 153S	TITAN 153SE	250-500 KCMIL	0.93-1.25	24-32	1.63	41	4/0-500 KCMIL	0.93-1.25	24-32	1.63	41	3
TITAN 154S	TITAN 154SE	750-1000 KCMIL	1.25-1.59	32-40	1.97	50	500-1000 KCMIL	1.25-1.59	32-40	1.97	50	3
<b>25-28kV</b>		<b>25-28kV, 100 %</b>					<b>25-28kV, 133 %</b>					
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
<b>35kV</b>		<b>35kV, 100 %</b>					<b>35kV, 133 %</b>					
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® 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 CS5 & AEIC CS6 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

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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 151B	TITAN 151BE	#2 AWG	0.61-0.78	15-19	0.99	25	#2 AWG	0.61-0.78	15-19	0.99	25	1
TITAN 152B	TITAN 152BE	#1-250 kcmil	0.71-1.06	18-27	1.41	36	#1-250 kcmil	0.71-1.06	18-27	1.41	36	1
TITAN 153B	TITAN 153BE	250-600 kcmil	0.97-1.38	25-35	1.73	44	250-600 kcmil	0.97-1.38	25-35	1.73	44	1
TITAN 154B	TITAN 154BE	750-1000 kcmil	1.29-1.64	33-42	2.30	58	750-1000 kcmil	1.29-1.64	33-42	2.30	58	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	0.87-1.53	22-39	1.63	41	1
TITAN 252B	TITAN 252BE	350-750 KCMIL	1.23-1.75	31-44	1.89	48	350-750 KCMIL	1.23-1.75	31-44	1.89	48	1
TITAN 253B	TITAN 253BE	750-1000 KCMIL	1.42-1.90	36-48	2.20	56	750-1000 KCMIL	1.42-1.90	36-48	2.20	56	1
TITAN 254B	TITAN 254BE	1000-1500 KCMIL	1.63-2.20	41-56	2.67	68	1000-1500 KCMIL	1.63-2.20	41-56	2.67	68	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	1.04-1.49	26-38	1.59	40	1
TITAN 352B	TITAN 352BE	350-500 KCMIL	1.23-1.75	31-44	1.89	48	350-500 KCMIL	1.23-1.75	31-44	1.89	48	1
TITAN 354B	TITAN 354BE	500-1000 KCMIL	1.42-2.09	36-53	2.20	56	500-1000 KCMIL	1.42-2.09	36-53	2.20	56	1
TITAN 354S	TITAN 354SE	1000-1500 KCMIL	1.70-2.20	43-56	2.67	68	1000-1500 KCMIL	1.70-2.20	43-56	2.67	68	1

### JACKETED CONCENTRIC NEUTRAL CABLE

15kV		15kV, 100 %					15kV, 133 %					
TITAN 151J	TITAN 151JE	#2 AWG	0.61-0.78	15-19	1.10	28	#2 AWG	0.61-0.78	15-19	1.10	28	1
TITAN 152J	TITAN 152JE	#1-3/0 AWG	0.71-0.96	18-24	1.41	36	#1-3/0 AWG	0.71-0.96	18-24	1.41	36	1
TITAN 153J	TITAN 153JE	4/0-350 KCMIL	0.90-1.29	23-33	1.73	44	4/0-350 KCMIL	0.90-1.29	23-33	1.73	44	1
TITAN 154J	TITAN 154JE	500-1000 KCMIL	1.20-1.64	30-42	2.30	58	500-1000 KCMIL	1.20-1.64	30-42	2.30	58	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	0.87-1.22	22-31	1.59	40	1
TITAN 252J	TITAN 252JE	350-500 KCMIL	1.23-1.42	31-36	1.89	48	4/0-350 KCMIL	1.20-1.42	31-36	1.89	48	1
TITAN 253J	TITAN 253JE	750-1000 KCMIL	1.42-1.74	36-44	2.27	58	500-750 KCMIL	1.42-1.70	36-43	2.22	56	1
TITAN 254J	TITAN 254JE	1000-1500 KCMIL	1.63-2.20	41-56	2.67	68	750-1500 KCMIL	1.63-2.20	41-56	2.67	68	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	1.23-1.48	31-36	1.87	47	1
TITAN 353J	TITAN 353JE	500-750 KCMIL	1.42-1.70	36-43	2.20	56	250-500 KCMIL	1.42-1.73	36-43	2.20	56	1
TITAN 354J	TITAN 354JE	750-1500 KCMIL	1.63-2.20	41-56	2.67	68	750-1500 KCMIL	1.63-2.20	41-56	2.67	68	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 CS5 & AEIC CS6 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

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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 #2AWG 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 PACK- AGE
		IN	MM	IN	MM	KITS/BOX

### NON-SHIELDED CABLE, 5kV 100%

TITAN 051NS	1/0-3/0 AWG	0.55-0.71	14-18	0.99	25	3
TITAN 052NS	4/0-500 kCMIL	0.71-0.98	18-25	1.32	34	3
TITAN 053NS	600-1000 kCMIL	0.98-1.32	25-34	1.73	44	3

### NON-SHIELDED CABLE, 5kV 133%

TITAN 051NS	#2-3/0 AWG	0.55-0.71	14-18	0.99	25	3
TITAN 052NS	4/0-500 kCMIL	0.71-1.03	18-26	1.32	34	3
TITAN 053NS	600-1000 kCMIL	1.03-1.37	26-35	1.73	44	3

### NON-SHIELDED CABLE, 8kV 100%

TITAN 081NS	#2-3/0 AWG	0.55-0.71	14-18	0.99	25	3
TITAN 082NS	4/0-500 kcmil	0.71-1.03	18-26	1.37	35	3
TITAN 083NS	600-1000 kcmil	1.03-1.37	26-35	1.78	45	3

### NON-SHIELDED CABLE, 8kV 133%

TITAN 081NS	#2-2/0 AWG	0.60-0.71	15-18	0.99	25	3
TITAN 082NS	3/0-500 kcmil	0.71-1.08	18-27	1.37	35	3
TITAN 083NS	600-1000 kcmil	1.08-1.42	27-36	1.78	45	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 CS5 & AEIC CS6 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

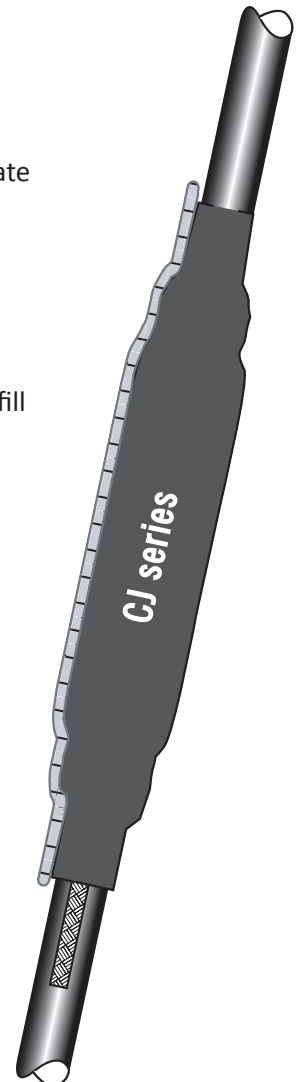
- IEEE 404-2000

## 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

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 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	0.06 - 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	0.06 - 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.

# 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 coreunjacketed 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



## 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	0.06 - 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	0.06 - 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 core unjacketed 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 armouring 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

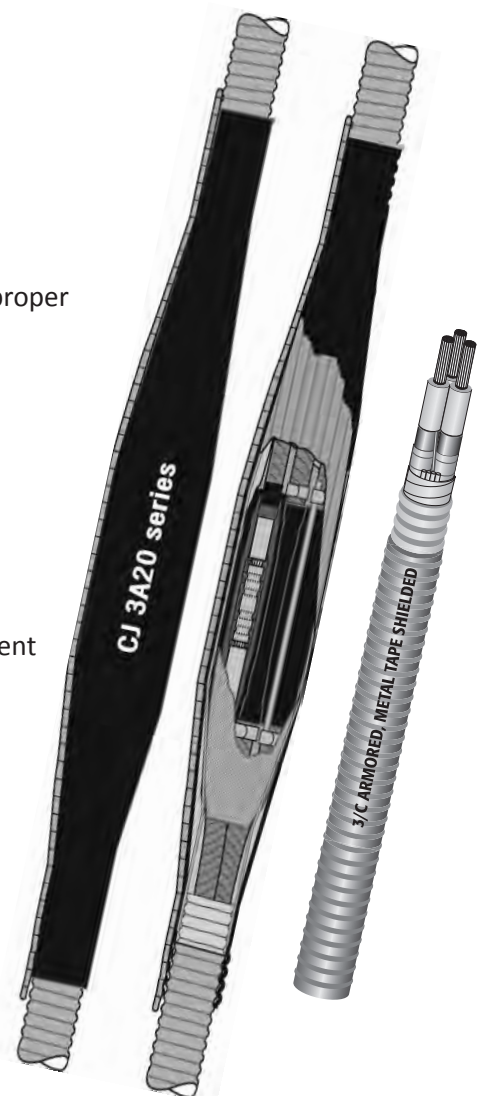
- IEEE 404-2000

## 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

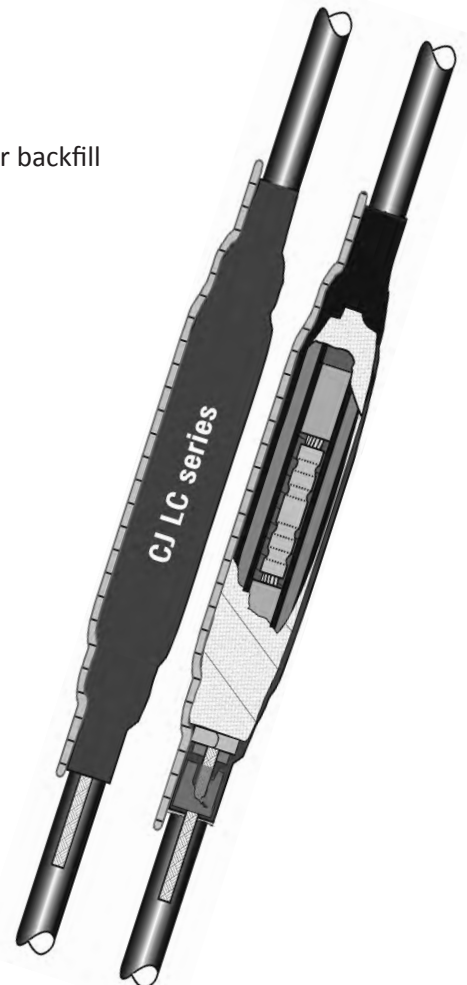
- IEEE 404-2000

## 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.

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 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



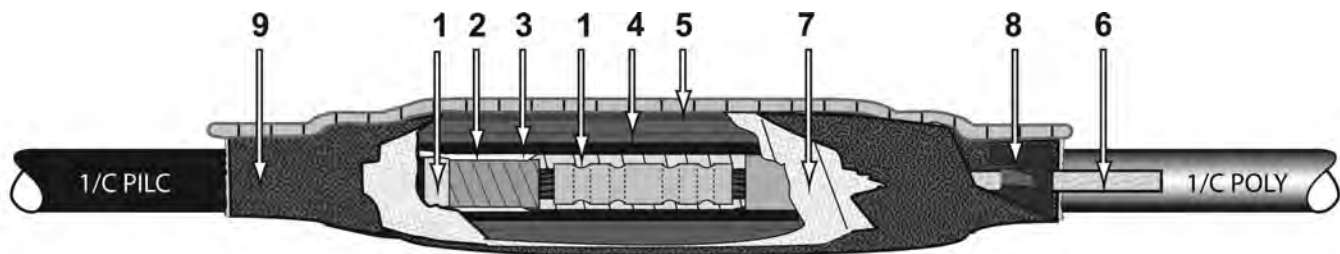
## DIMENSIONS

ORDER NUMBER	PILC/POLY CONDUCTOR SIZE  AWG/kCMIL	INSULATION DIAMETER		CONNECTOR DIMENSIONS MAX.			INSTALLED LENGTH (NOM.)
		PILC RANGE	POLY RANGE	O.D. BOTH	PILC-PILC LENGTH	PILC-POLY LENGTH	
		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 VLCL) 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



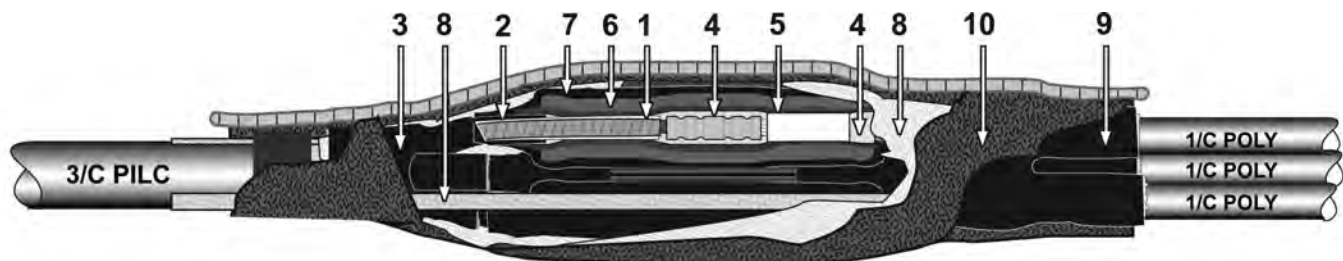
## DIMENSIONS

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)							
CJ 1581	#4 - 4/0	0.55 - 0.90	0.60 - 1.05	0.80 - 1.85	1.05	4.50	40.0
CJ 1582	4/0 - 350	0.80 - 1.20	0.85 - 1.30	0.90 - 1.85	1.25	5.50	40.0
CJ 1583	400 - 750	1.00 - 1.30	1.05 - 1.60	1.10 - 2.15	1.75	7.00	48.0
CJ 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)							
CJ 2581	#1 - 300	0.80 - 1.25	0.85 - 1.25	0.90 - 1.85	1.25	5.50	40.0
CJ 2582	350 - 500	1.00 - 1.45	1.05 - 1.50	1.10 - 2.15	1.60	7.00	48.0
CJ 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

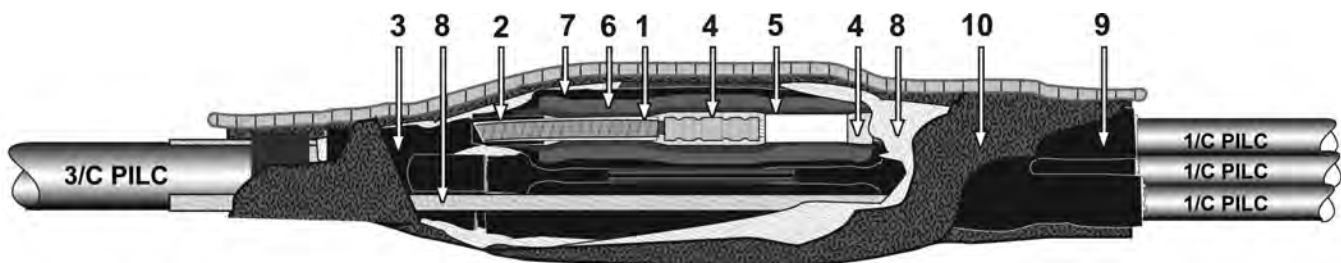
25 kV, 3/C PILC TO 3-1/C PILC TRIFURCATING JOINT (260 - 320 MILS INSULATION)

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

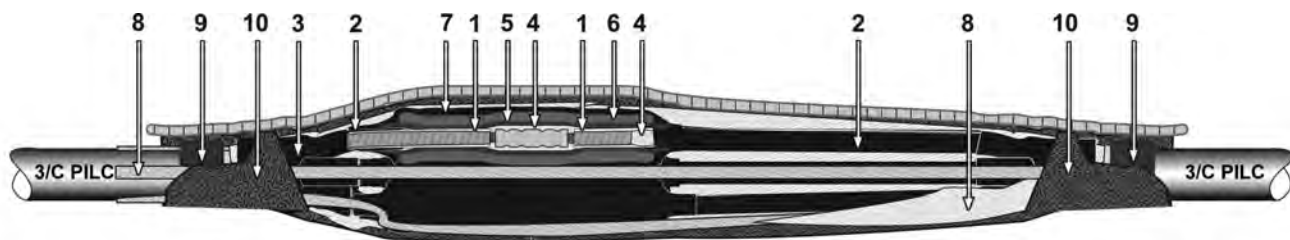
## 25 kV, 3/C PILC TO 3/C PILC CABLE STRAIGHT JOINT (260 - 320 MILS INSULATION)

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





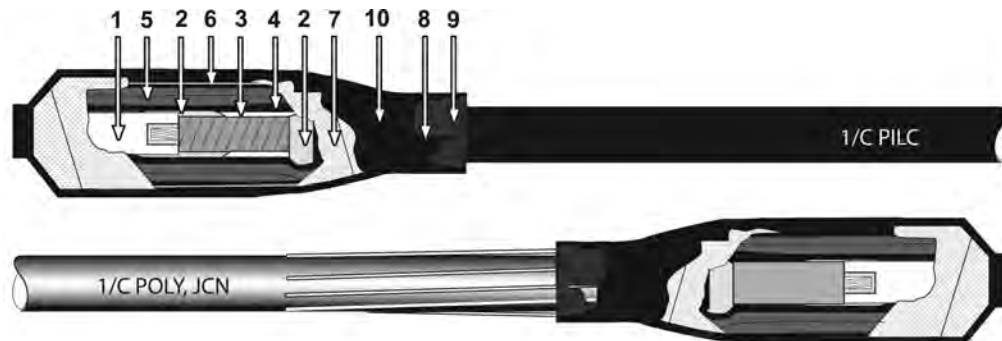
## DIMENSIONS

ORDER NUMBER	CONDUCTOR SIZE	INSULATION DIAMETERS 1/C PILC OR POLY RANGE	INSTALLED LENGTH
	AWG/KCMIL	IN	IN (NOM.)
15 kV PILC LIVE END SEAL FOR 1/C PILC CABLE ONLY (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 CABLE ONLY (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

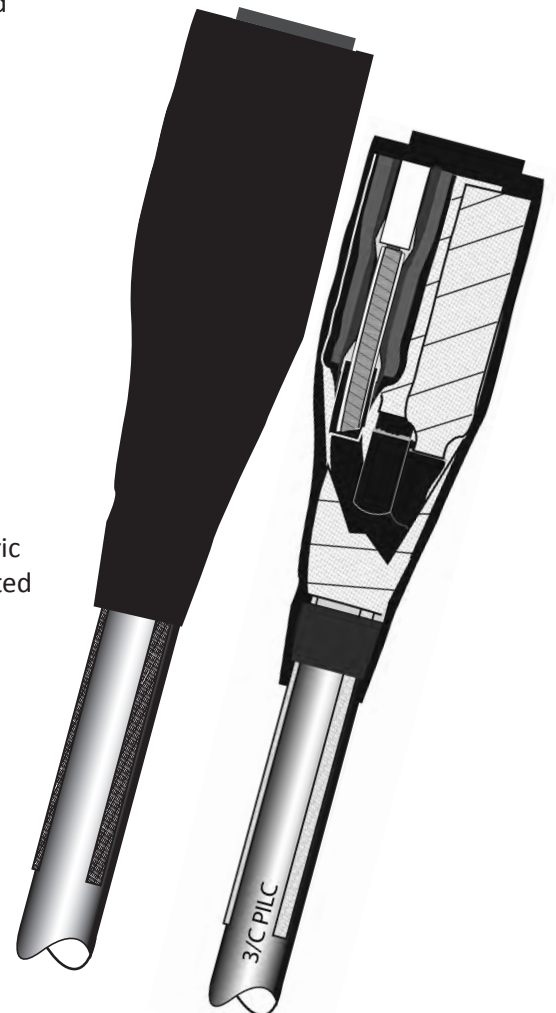
- IEEE 404-2000

### 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



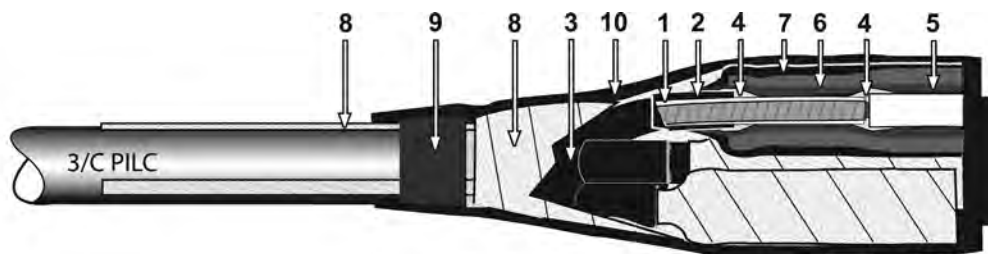
## DIMENSIONS

ORDER NUMBER	CONDUCTOR SIZE	INSULATION DIAMETERS 1/C PILC OR POLY RANGE	INSTALLED LENGTH
	AWG/KCMIL	IN	IN (NOM.)
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                  |

# 3/C CONVERSION KITS FOR TERMINATIONS

INSULATE  
SEAL  
PROTECT

## 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

## 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

- 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 rejacketing 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

## FOR JOINTS

### HEAT SHRINK CONVERSION KITS

#### 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

# 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

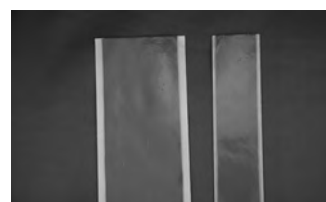


Or order by adding "P" suffix to MV kit

## 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



## GENERAL PURPOSE, HOT-MELT SEALANTS AND MASTIC TAPES

Used for sealing ends of uncoated tubing, molded parts or filling voids.

ORDER NUMBER	SEALANT COLOR	DESCRIPTION
CTSG-1	Grey	1 in wide, cross-linked grey butyl mastic tape suitable for continuous high temperature applications. Offered in 25 ft rolls.
CTSB-2	Black	2 in wide, specially designed rubber based black sealant mastic tape for use with heat shrink tubing and molded parts for void-free/watertight sealing and low voltage applications. Offered in 25 ft rolls.





# 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

<b>CTCH-3334-90:</b>	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.
<b>CTCH-3015-04:</b>	4 ft hose regulator assembly for disposable propane cylinder for CTCH- HSK1- 00
<b>CTCH-3062-93:</b>	Adjustable regulator 28-57 psi for refillable P.O.L. propane cylinder
<b>CTCH-1510IS:</b>	10 ft hose with 9/16 - 18 LH treads both ends
<b>CTCH-1525IS:</b>	25 ft hose with 9/16 - 18 LH threads both ends

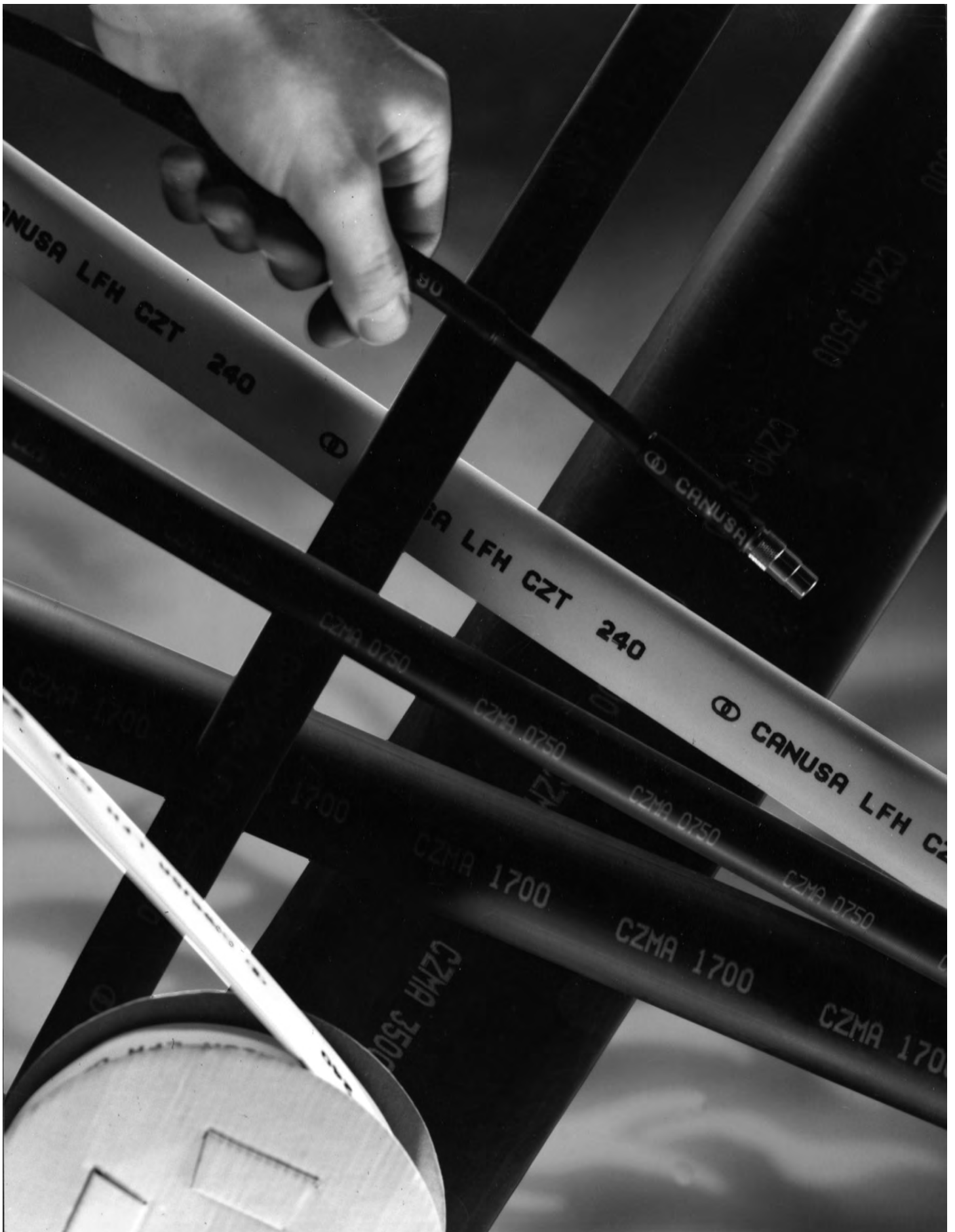
### ELECTRONICALLY CONTROLLED HEAT GUN

#### 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





## 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.

# RAYCHEM TO DSG-CANUSA ELECTRICAL CROSS REFERENCE

RAYCHEM 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

RAYCHEM 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 more 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 188 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 configuration: 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).

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3/C Unarmored	5 kV	90 - 115 mils	Copper Tape	82
3/C Armored	5 kV	90 - 115 mils	Copper Tape	82
3/C Unarmored	15 kV	175 - 220 mils	Copper Tape	83
3/C Armored	15 kV	175 - 220 mils	Copper Tape	83
3/C Unarmored	25 - 28 kV	260 - 280 mils	Copper Tape	84
3/C Armored	25 - 28 kV	260 - 280 mils	Copper Tape	84
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3/C Armored	35 kV	345 mils	Copper Tape	85

# 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	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	-	CJ N51	CCAP 0750-RL	Not Applicable	CMTK 51V	CMTK 51L
#2	CT 51N	TITAN NS Series	CJ N51	CCAP 0750-RL	Not Applicable	CMTK 51V	CMTK 51L
#1	CT 51N	TITAN NS Series	CJ N51	CCAP 0750-RL	Not Applicable	CMTK 52V	CMTK 51L
1/0	CT 51N	TITAN 051 NS	CJ N51	CCAP 0750-RL	Not Applicable	CMTK 52V	CMTK 51L
2/0	CT 51N	TITAN 051 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 052 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

# 1/C, 5 kV SHIELDED CABLES - COPPER TAPE

GROUNDING 90 MILS OR UNGROUNDING 115 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		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					
#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	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	CCAP 1100-RL	CDRW-1-48	CMTK 51V	CMTK 51L
#1	CT 081G	CT 081EG	TITAN G Series	TITAN G Series	CJ 821	CJ 821W	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	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	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	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	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	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	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	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	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	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	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	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	CCAP 2750-RL	CDRW-2-48	CMTK 53V	CMTK 52L

# 1/C, 5 kV SHIELDED CABLES - DRAIN WIRE

GROUNDING 90 MILS OR UNGROUNDING 115 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		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					
#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	-	-	CJ 821	CJ 821W	CCAP 1100-RL	CRDW-1-48	CMTK 51V	CMTK 51L
#2	CT 081	CT 081E	TITAN G Series	TITAN G Series	CJ 821	CJ 821W	CCAP 1100-RL	CRDW-1-48	CMTK 51V	CMTK 51L
#1	CT 081	CT 081E	TITAN G Series	TITAN G Series	CJ 821	CJ 821W	CCAP 1100-RL	CRDW-1-48	CMTK 52V	CMTK 51L
1/0	CT 082	CT 082E	TITAN 051 S	TITAN 051 SE	CJ 821	CJ 821W	CCAP 1100-RL	CRDW-1-48	CMTK 52V	CMTK 51L
2/0	CT 082	CT 082E	TITAN 051 S	TITAN 051 SE	CJ 821	CJ 821W	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	CCAP 1500-RL	CRDW-1-48	CMTK 52V	CMTK 51L
4/0	CT 082	CT 082E	TITAN 052 S	TITAN 052 SE	CJ 822	CJ 822W	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	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	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	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	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	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	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	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	CCAP 2750-RL	CRDW-2-48	CMTK 53V	CMTK 52L

# 1/C, 5 kV SHIELDED CABLES - UNISHIELD®

8 kV GROUNDED OR 5 kV UNGROUNDED 115 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATIONS		COLD SHRINK TERMINATIONS		STRAIGHT JOINTS		END CAP	JACKET REPAIR SLEEVES	MOTOR CONNECTION KITS	
	INDOOR	OUT- DOOR	INDOOR	OUTDOOR	W/TUBE	W/WRAP- AROUND		RAILED	STUB TYPE	IN-LINE TYPE
	CT G Series		TITAN G Series		CJ 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	-	-	CJ 821	CJ 821W	CCAP 1100-RL	CDRW-1-48	CMTK 51V	CMTK 51L
#2	CT 081	CT 081E	TITAN G Series	TITAN G Series	CJ 821	CJ 821W	CCAP 1100-RL	CDRW-1-48	CMTK 51V	CMTK 51L
#1	CT 081	CT 081E	TITAN G Series	TITAN G Series	CJ 821	CJ 821W	CCAP 1100-RL	CDRW-1-48	CMTK 52V	CMTK 51L
1/0	CT 082	CT 082E	TITAN 051 S	TITAN 051 SE	CJ 821	CJ 821W	CCAP 1100-RL	CDRW-1-48	CMTK 52V	CMTK 51L
2/0	CT 082	CT 082E	TITAN 051 S	TITAN 051 SE	CJ 821	CJ 821W	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	CCAP 1100-RL	CDRW-1-48	CMTK 52V	CMTK 51L
4/0	CT 082	CT 082E	TITAN 052 S	TITAN 052 SE	CJ 822	CJ 822W	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	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	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	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	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	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	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	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	CCAP 2750-RL	CDRW-2-48	CMTK 53V	CMTK 52L

# 1/C, 15 kV SHIELDED CABLES - COPPER TAPE

GROUNDING 175 MILS OR UNGROUNDING 220 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATIONS		COLD SHRINK TERMINATIONS		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			
#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	CCAP 1700-RL	CRDW-1-48
#1	CT 151G	CT 151EG	TITAN G Series	TITAN G Series	CJ 1521	CJ 1521W	CCAP 1700-RL	CRDW-1-48
1/0	CT 151G	CT 151EG	TITAN 152 S	TITAN 152 SE	CJ 1521	CJ 1521W	CCAP 1700-RL	CRDW-1-48
2/0	CT 151G	CT 151EG	TITAN 152 S	TITAN 152 SE	CJ 1521	CJ 1521W	CCAP 1700-RL	CRDW-1-48
3/0	CT 151G	CT 151EG	TITAN 152 S	TITAN 152 SE	CJ 1521	CJ 1521W	CCAP 1700-RL	CRDW-2-48
4/0	CT 151G	CT 151EG	TITAN 152 S	TITAN 152 SE	CJ 1521	CJ 1521W	CCAP 1700-RL	CRDW-2-48
250	CT 152G	CT 152EG	TITAN 153 S	TITAN 153 SE	CJ 1522	CJ 1522W	CCAP 2750-RL	CRDW-2-48
300	CT 152G	CT 152EG	TITAN 153 S	TITAN 153 SE	CJ 1522	CJ 1522W	CCAP 2750-RL	CRDW-2-48
350	CT 152G	CT 152EG	TITAN 153 S	TITAN 153 SE	CJ 1522	CJ 1522W	CCAP 2750-RL	CRDW-2-48
400	CT 153G	CT 153EG	TITAN 152 S	TITAN 152 SE	CJ 1522	CJ 1522W	CCAP 2750-RL	CRDW-2-48
500	CT 153G	CT 153EG	TITAN 152 S	TITAN 152 SE	CJ 1523	CJ 1523W	CCAP 2750-RL	CRDW-2-48
600	CT 153G	CT 153EG	TITAN 153 S	TITAN 153 SE	CJ 1523	CJ 1523W	CCAP 2750-RL	CRDW-2-48
750	CT 153G	CT 153EG	TITAN 154 S	TITAN 154 SE	CJ 1523	CJ 1523W	CCAP 2750-RL	CRDW-2-48
1000	CT 153G	CT 153EG	TITAN 154 S	TITAN 154 SE	CJ 1523	CJ 1524W	CCAP 2750-RL	CRDW-2-48

# 1/C, 15 kV SHIELDED CABLES - DRAIN WIRE

GROUNDING 175 MILS OR UNGROUNDING 220 MILS

CONDUCTOR SIZE	LIVEFRONT TERMINATION		COLD SHRINK TERMINATIONS		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			
#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	CCAP 1700-RL	CRDW-1-48
#1	CT 151	CT 151E	TITAN G Series	TITAN G Series	CJ 1521	CJ 1521W	CCAP 1700-RL	CRDW-1-48
1/0	CT 151	CT 151E	TITAN 152 S	TITAN 152 SE	CJ 1521	CJ 1521W	CCAP 1700-RL	CRDW-1-48
2/0	CT 151	CT 151E	TITAN 152 S	TITAN 152 SE	CJ 1521	CJ 1521W	CCAP 1700-RL	CRDW-1-48
3/0	CT 151	CT 151E	TITAN 152 S	TITAN 152 SE	CJ 1521	CJ 1521W	CCAP 1700-RL	CRDW-2-48
4/0	CT 151	CT 151E	TITAN 152 S	TITAN 152 SE	CJ 1521	CJ 1521W	CCAP 1700-RL	CRDW-2-48
250	CT 152	CT 152E	TITAN 153 S	TITAN 153 SE	CJ 1522	CJ 1522W	CCAP 2750-RL	CRDW-2-48
300	CT 152	CT 152E	TITAN 153 S	TITAN 153 SE	CJ 1522	CJ 1522W	CCAP 2750-RL	CRDW-2-48
350	CT 152	CT 152E	TITAN 153 S	TITAN 153 SE	CJ 1522	CJ 1522W	CCAP 2750-RL	CRDW-2-48
400	CT 153	CT 153E	TITAN 152 S	TITAN 152 SE	CJ 1522	CJ 1522W	CCAP 2750-RL	CRDW-2-48
500	CT 153	CT 153E	TITAN 152 S	TITAN 152 SE	CJ 1523	CJ 1523W	CCAP 2750-RL	CRDW-2-48
600	CT 153	CT 153E	TITAN 153 S	TITAN 153 SE	CJ 1523	CJ 1523W	CCAP 2750-RL	CRDW-2-48
750	CT 153	CT 153E	TITAN 154 S	TITAN 154 SE	CJ 1523	CJ 1523W	CCAP 2750-RL	CRDW-2-48
1000	CT 153	CT 153E	TITAN 154 S	TITAN 154 SE	CJ 1524	CJ 1524W	CCAP 2750-RL	CRDW-2-48



# 1/C, 15 KV SHIELDED CABLES - UNISHIELD®

GROUNDING 175 MILS OR UNGROUNDING 220 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		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			
#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	CCAP 1700-RL	CRDW-1-48
#1	CT 151	CT 151E	TITAN G Series	TITAN G Series	CJ 1521	CJ 1521W	CCAP 1700-RL	CRDW-1-48
1/0	CT 151	CT 151E	TITAN 152 S	TITAN 152 SE	CJ 1521	CJ 1521W	CCAP 1700-RL	CRDW-1-48
2/0	CT 151	CT 151E	TITAN 152 S	TITAN 152 SE	CJ 1521	CJ 1521W	CCAP 1700-RL	CRDW-1-48
3/0	CT 151	CT 151E	TITAN 152 S	TITAN 152 SE	CJ 1521	CJ 1521W	CCAP 1700-RL	CRDW-1-48
4/0	CT 151	CT 151E	TITAN 152 S	TITAN 152 SE	CJ 1521	CJ 1521W	CCAP 1700-RL	CRDW-2-48
250	CT 152	CT 152E	TITAN 153 S	TITAN 153 SE	CJ 1522	CJ 1522W	CCAP 1700-RL	CRDW-2-48
300	CT 152	CT 152E	TITAN 153 S	TITAN 153 SE	CJ 1522	CJ 1522W	CCAP 2750-RL	CRDW-2-48
350	CT 152	CT 152E	TITAN 153 S	TITAN 153 SE	CJ 1522	CJ 1522W	CCAP 2750-RL	CRDW-2-48
400	CT 153	CT 153E	TITAN 152 S	TITAN 152 SE	CJ 1522	CJ 1522W	CCAP 2750-RL	CRDW-2-48
500	CT 153	CT 153E	TITAN 152 S	TITAN 152 SE	CJ 1523	CJ 1523W	CCAP 2750-RL	CRDW-2-48
600	CT 153	CT 153E	TITAN 153 S	TITAN 153 SE	CJ 1523	CJ 1523W	CCAP 2750-RL	CRDW-2-48
750	CT 153	CT 153E	TITAN 154 S	TITAN 154 SE	CJ 1523	CJ 1523W	CCAP 2750-RL	CRDW-2-48
1000	CT 153	CT 153E	TITAN 154 S	TITAN 154 SE	CJ 1524	CJ 1524W	CCAP 2750-RL	CRDW-2-48

# 1/C, 15 KV SHIELDED CABLES - LC TYPE

GROUNDING 175 MILS OR UNGROUNDING 220 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		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

GROUND 175 MILS OR UNGROUND 220 MILS

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

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

GROUND 175 MILS OR UNGROUND 220 MILS

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

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

GROUNDED 260 - 280 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		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 251S	TITAN 251SE	CJ 2522	CJ 2522W	CCAP 2750-RL	CRDW-2-48
300	CT 251G	CT 251EG	TITAN 251S	TITAN 251SE	CJ 2522	CJ 2522W	CCAP 2750-RL	CRDW-2-48
350	CT 252G	CT 252EG	TITAN 251S	TITAN 251SE	CJ 2522	CJ 2522W	CCAP 2750-RL	CRDW-2-48
400	CT 252G	CT 252EG	-	-	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 252S	TITAN 252SE	Not Available	CJ 2523W	CCAP 2750-RL	CRDW-3-48
750	CT 252G	CT 252EG	TITAN 252S	TITAN 252SE	Not Available	CJ 2523W	CCAP 2750-RL	CRDW-3-48
1000	CT 252G	CT 252EG	TITAN 253S	TITAN 253SE	Not Available	CJ 2523W	CCAP 2750-RL	CRDW-3-48

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

GROUNDED 260 - 280 MILS

CONDUCTOR SIZE	LIVEFRONT TERMINATION		COLD SHRINK TERMINATION		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 251S	TITAN 251SE	CJ 2522	CJ 2522W	CCAP 2750-RL	CRDW-2-48
300	CT 251	CT 251E	TITAN 251S	TITAN 251SE	CJ 2522	CJ 2522W	CCAP 2750-RL	CRDW-2-48
350	CT 252	CT 252E	TITAN 251S	TITAN 251SE	CJ 2522	CJ 2522W	CCAP 2750-RL	CRDW-2-48
400	CT 252	CT 252E	-	-	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 252S	TITAN 252SE	Not Available	CJ 2523W	CCAP 2750-RL	CRDW-3-48
750	CT 252	CT 252E	TITAN 252S	TITAN 252SE	Not Available	CJ 2523W	CCAP 2750-RL	CRDW-3-48
1000	CT 252	CT 252E	TITAN 253S	TITAN 253SE	Not Available	CJ 2523W	CCAP 2750-RL	CRDW-3-48

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

GROUNDED 260 - 280 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		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 251S	TITAN 251SE	CJ 2522	CJ 2522W	CCAP 2750-RL	CRDW-2-48
300	CT 251	CT 251E	TITAN 251S	TITAN 251SE	CJ 2522	CJ 2522W	CCAP 2750-RL	CRDW-2-48
350	CT 252	CT 252E	TITAN 251S	TITAN 251SE	CJ 2522	CJ 2522W	CCAP 2750-RL	CRDW-2-48
400	CT 252	CT 252E	-	-	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 252S	TITAN 252SE	Not Available	CJ 2523W	CCAP 2750-RL	CRDW-3-48
750	CT 252	CT 252E	TITAN 252S	TITAN 252SE	Not Available	CJ 2523W	CCAP 2750-RL	CRDW-3-48
1000	CT 252	CT 252E	TITAN 253S	TITAN 253SE	Not Available	CJ 2523W	CCAP 2750-RL	CRDW-3-48

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

GROUNDED 260 - 280 MILS

CONDUCTOR SIZE	LIVEFRONT TERMINATION		COLD SHRINK TERMINATION		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		STRAIGHT JOINTS NO JACKET	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		STRAIGHT JOINTS W/WRAP- AROUND	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 251J	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 251J	CJ 2511J	CJ R2511J	CCAP 1700-RL	CRDW-2-48
4/0	CT 251UD	CT 251UDE	TITAN 251J	TITAN 251JE	CJ 2511J	CJ 2512J	CCAP 2750-RL	CRDW-2-48
250	CT 251UD	CT 251UDE	TITAN 251J	TITAN 251J	CJ 2512J	CJ 2512J	CCAP 2750-RL	CRDW-2-48
300	CT 251UD	CT 251UDE	-	-	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 252J	TITAN 252JE	CJ 2512J	Special Order	CCAP 2750-RL	CRDW-3-48
600	CT 252UD	CT 252UDE	-	-	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 253J	TITAN 253JE	CJ 2513J	Special Order	CCAP 2750-RL	CRDW-3-48

# 1/C, 35 kV SHIELDED CABLES - COPPER TAPE

GROUNDED 345 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		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	-	-	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

# 1/C, 35 kV SHIELDED CABLES - DRAIN WIRE

GROUNDED 345 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		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 351	CT 351E	TITAN 251S	TITAN 251SE	Not Available	CJ 3521W	CCAP 2050-RL	CRDW-2-48
1/0	CT 351	CT 351E	TITAN 251S	TITAN 251SE	Not Available	CJ 3521W	CCAP 2050-RL	CRDW-2-48
2/0	CT 351	CT 351E	TITAN 251S	TITAN 251SE	Not Available	CJ 3521W	CCAP 2050-RL	CRDW-2-48
3/0	CT 351	CT 351E	TITAN 251S	TITAN 251SE	Not Available	CJ 3521W	CCAP 2050-RL	CRDW-2-48
4/0	CT 351	CT 351E	TITAN 251S	TITAN 251SE	Not Available	CJ 3521W	CCAP 2050-RL	CRDW-2-48
250	CT 351	CT 351E	TITAN 251S	TITAN 251SE	Not Available	CJ 3522W	CCAP 2750-RL	CRDW-2-48
300	CT 352	CT 352E	TITAN 251S	TITAN 251SE	Not Available	CJ 3522W	CCAP 2750-RL	CRDW-2-48
350	CT 352	CT 352E	TITAN 251S	TITAN 251SE	Not Available	CJ 3522W	CCAP 2750-RL	CRDW-2-48
400	CT 352	CT 352E	-	-	Not Available	CJ 3522W	CCAP 2750-RL	CRDW-3-48
500	CT 352	CT 352E	TITAN 252S	TITAN 252SE	Not Available	CJ 3522W	CCAP 2750-RL	CRDW-3-48
600	CT 352	CT 352E	TITAN 252S	TITAN 252SE	Not Available	CJ 3523W	CCAP 2750-RL	CRDW-3-48
750	CT 352	CT 352E	TITAN 252S	TITAN 252SE	Not Available	CJ 3523W	CCAP 2750-RL	CRDW-3-48
1000	CT 352	CT 352E	TITAN 253S	TITAN 253SE	Not Available	CJ 3523W	CCAP 2750-RL	CRDW-3-48

# 1/C, 35 kV SHIELDED CABLES - UNISHIELD®

GROUNDED 345 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		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	TITAN 251S	TITAN 251SE	Not Available	CJ 3521W	CCAP 2050-RL	CRDW-2-48
1/0	CT 351	CT 351E	TITAN 251S	TITAN 251SE	Not Available	CJ 3521W	CCAP 2050-RL	CRDW-2-48
2/0	CT 351	CT 351E	TITAN 251S	TITAN 251SE	Not Available	CJ 3521W	CCAP 2050-RL	CRDW-2-48
3/0	CT 351	CT 351E	TITAN 251S	TITAN 251SE	Not Available	CJ 3521W	CCAP 2050-RL	CRDW-2-48
4/0	CT 351	CT 351E	TITAN 251S	TITAN 251SE	Not Available	CJ 3521W	CCAP 2050-RL	CRDW-2-48
250	CT 351	CT 351E	TITAN 251S	TITAN 251SE	Not Available	CJ 3521W	CCAP 2750-RL	CRDW-2-48
300	CT 352	CT 352E	TITAN 251S	TITAN 251SE	Not Available	CJ 3522W	CCAP 2750-RL	CRDW-2-48
350	CT 352	CT 352E	TITAN 251S	TITAN 251SE	Not Available	CJ 3522W	CCAP 2750-RL	CRDW-2-48
400	CT 352	CT 352E	-	-	Not Available	CJ 3522W	CCAP 2750-RL	CRDW-2-48
500	CT 352	CT 352E	TITAN 252S	TITAN 252SE	Not Available	CJ 3522W	CCAP 2750-RL	CRDW-3-48
600	CT 352	CT 352E	TITAN 252S	TITAN 252SE	Not Available	CJ 3523W	CCAP 2750-RL	CRDW-3-48
750	CT 352	CT 352E	TITAN 252S	TITAN 252SE	Not Available	CJ 3523W	CCAP 2750-RL	CRDW-3-48
1000	CT 352	CT 352E	TITAN 253S	TITAN 253SE	Not Available	CJ 3523W	CCAP 2750-RL	CRDW-3-48

# 1/C, 35 kV SHIELDED CABLES - LC TYPE

GROUNDED 345 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION		COLD SHRINK TERMINATION		STRAIGHT JOINT		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		STRAIGHT JOINTS NO JACKET	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 353 B	TITAN 353 BE	CJ 3531	CJ R3531	CCAP 2050-RL	Not Applicable
2/0	CT 353UD	CT 353UDE	TITAN 353 B	TITAN 353 BE	CJ 3531	CJ R3531	CCAP 2050-RL	Not Applicable
3/0	CT 353UD	CT 353UDE	TITAN 353 B	TITAN 353 BE	CJ 3531	CJ R3531	CCAP 2050-RL	Not Applicable
4/0	CT 353UD	CT 353UDE	TITAN 353 B	TITAN 353 BE	CJ 3531	CJ R3531	CCAP 2050-RL	Not Applicable
250	CT 353UD	CT 353UDE	TITAN 353 B	TITAN 353 BE	CJ 3532	CJ R3532	CCAP 2750-RL	Not Applicable
300	CT 352UD	CT 352UDE	TITAN 353 B	TITAN 353 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		STRAIGHT JOINTS W/WRAP- AROUND	REPAIR JOINTS W/WRAP- AROUND	END CAP	JACKET REPAIR SLEEVE
	INDOOR	OUTDOOR	INDOOR	OUTDOOR				RAILED
	CT UD Series		TITAN UD 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	-	-	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

## 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 CT5B.

\*\*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	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	-	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

## 3/C, ARMORED 5 kV UNSHIELDED CABLES

90 - 115 MILS

CONDUCTOR SIZE	HEAT SHRINK TERMINATION INDOOR OR OUTDOOR	COLD SHRINK TERMINATION INDOOR OR OUTDOOR	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

## 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		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

## 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		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

\*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		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

## 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		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

\*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 3A20 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	RAYCHEM	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			EPS400, SMS	
	CWWT 450					
	CFRA	FL2500				
	DERAY® ColdMelt	LMX				
	DERAY® DuoMelt	Rayblock				
	DERAY® PressMelt	Rayblock				
	DERAY® SpliceMelt Caps	ES/PD Caps				
	CDR	SCT, ES-2000				

# PRODUCT CROSS REFERENCE CHART

	DSG-CANUSA	RAYCHEM	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, ITCSF	
	FCFW 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, KH 200	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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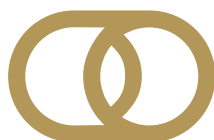
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