

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

- 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: HVS020076
- CT 250 series: HVS020077 and HVS020083
- CT 350 series: HVS020078



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 _____				

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