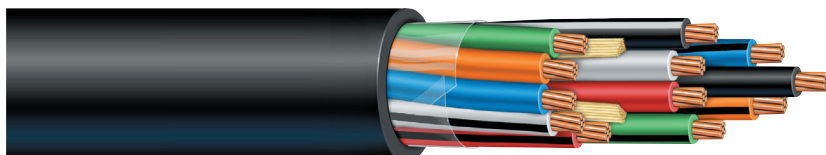


Substation Control Cable

multiple XLPE insulated conductors / 14 AWG to 500 KCMIL / CPE jacket / 600 volt



Applications

These are multiple conductor control tray cables with crosslinked (thermoset) polyethylene (XLPE) insulation and a crosslinked (thermoset) chlorinated polyethylene (CPE) or polychloroprene (PCP) jacket. These cables are suitable for use in cable trays, direct burial or aerial installations.

Specifications and Ratings

- UL Standard 44 and 1277 Type TC power and control cable
- ICEA S-73-532 (NEMA WC 57)
- IEEE 383
- UL Direct Burial
- UL Sunlight Resistant
- UL Oil Resistant
- -40°C

Design Parameters

CONDUCTORS: Class B (7 strand), soft drawn, bare or tinned copper per ASTM B3, ASTM B8 and ASTM B33.

INSULATION: Crosslinked polyethylene (XLPE) that meets ICEA S-73-532 (NEMA WC 57) & UL 44 acceptable for 90°C wet and dry locations.

CIRCUIT IDENTIFICATION: Appendix E, Method 1, Table E-1 or E-2 of ICEA S-73-532 (NEMA WC 57).

ASSEMBLY: Individual conductors are cabled with non-hygroscopic fillers where necessary to form a round compact core and wrapped with a binder of polyester tape.

JACKET: Black sunlight-resistant, flame-retardant, chlorinated polyethylene (CPE) or polychloroprene (PCP) that meets UL 1277.

Jacket Options:

- LSZH

Shield Options:

- Corrugated longitudinally-applied
- .005 or .010 copper
- Flat helically-applied .005 or .010 copper
- Aluminum/mylar tape (with or without a drain wire)
- Longitudinally-applied copper or aluminum copolymer-bonded shield
- Copper braid (specify percentage of coverage for optimum EMI protection)

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Number/Size of Conductors	Number of Strands	Ground Size AWG	Insulation Thickness in (mm)	Average Jacket Thickness in (mm)	Cable O.D. in (mm)	Approximate Cable Weight Lbs/Mft (Kg/Km)
2 / 14 AWG	7	-	0.030 (0.76)	0.045 (1.54)	0.385 (9.78)	77 (115)
3 / 14 AWG	7	-	0.030 (0.76)	0.045 (1.54)	0.400 (10.2)	89 (132)
4 / 14 AWG	7	-	0.030 (0.76)	0.045 (1.54)	0.445 (11.3)	123 (183)
5 / 14 AWG	7	-	0.030 (0.76)	0.045 (1.54)	0.485 (12.3)	135 (201)
7 / 14 AWG	7	-	0.030 (0.76)	0.045 (1.54)	0.525 (13.3)	190 (283)
9 / 14 AWG	7	-	0.030 (0.76)	0.060 (1.52)	0.650 (16.5)	263 (391)
12 / 14 AWG	7	-	0.030 (0.76)	0.060 (1.52)	0.720 (18.3)	337 (501)
19 / 14 AWG	7	-	0.030 (0.76)	0.060 (1.52)	0.840 (21.3)	495 (737)
2 / 12 AWG	7	-	0.030 (0.76)	0.045 (1.54)	0.420 (10.7)	99 (147)
3 / 12 AWG	7	-	0.030 (0.76)	0.045 (1.54)	0.445 (11.3)	130 (193)
4 / 12 AWG	7	-	0.030 (0.76)	0.045 (1.54)	0.490 (12.4)	164 (244)
5 / 12 AWG	7	-	0.030 (0.76)	0.045 (1.54)	0.535 (13.6)	185 (275)
7 / 12 AWG	7	-	0.030 (0.76)	0.060 (1.52)	0.615 (15.6)	260 (387)
9 / 12 AWG	7	-	0.030 (0.76)	0.060 (1.52)	0.710 (18.0)	350 (521)
12 / 12 AWG	7	-	0.030 (0.76)	0.060 (1.52)	0.800 (20.3)	425 (632)
19 / 12 AWG	7	-	0.030 (0.76)	0.080 (2.03)	0.975 (24.8)	669 (995)
2 / 10 AWG	7	-	0.030 (0.76)	0.045 (1.54)	0.470 (11.9)	132 (196)
3 / 10 AWG	7	-	0.030 (0.76)	0.045 (1.54)	0.500 (12.7)	179 (266)
4 / 10 AWG	7	-	0.030 (0.76)	0.060 (1.52)	0.580 (14.7)	247 (368)
5 / 10 AWG	7	-	0.030 (0.76)	0.060 (1.52)	0.635 (16.1)	279 (415)
7 / 10 AWG	7	-	0.030 (0.76)	0.060 (1.52)	0.690 (17.5)	368 (548)
9 / 10 AWG	7	-	0.030 (0.76)	0.060 (1.52)	0.805 (20.4)	521 (775)
12 / 10 AWG	7	-	0.030 (0.76)	0.080 (2.03)	0.945 (24.0)	642 (955)
19 / 10 AWG	7	-	0.030 (0.76)	0.080 (2.03)	1.105 (28.1)	946 (1408)
3 / 8 AWG	7	10 AWG	0.045 (1.54)	0.060 (1.52)	0.650 (16.5)	321 (478)
3 / 6 AWG	7	8 AWG	0.045 (1.54)	0.060 (1.52)	0.735 (18.7)	460 (684)
3 / 4 AWG	7	8 AWG	0.045 (1.54)	0.080 (2.03)	0.910 (23.1)	671 (998)
3 / 2 AWG	7	6 AWG	0.045 (1.54)	0.080 (2.03)	1.050 (26.7)	991 (1475)
3 / 1/0 AWG	19	6 AWG	0.055 (1.40)	0.080 (2.03)	1.240 (31.5)	1470 (2187)
3 / 2/0 AWG	19	6 AWG	0.055 (1.40)	0.080 (2.03)	1.340 (34.0)	1789 (2662)
3 / 4/0 AWG	19	4 AWG	0.055 (1.40)	0.080 (2.03)	1.580 (40.1)	2676 (3982)
3 / 250 KCMIL	37	4 AWG	0.065 (1.65)	0.110 (2.79)	1.840 (46.7)	3227 (4802)
3 / 350 KCMIL	37	3 AWG	0.065 (1.65)	0.110 (2.79)	2.030 (51.6)	4320 (6428)
3 / 500 KCMIL	37	2 AWG	0.065 (1.65)	0.110 (2.79)	2.320 (58.9)	6003 (8932)

The data herein is approximate and subject to normal manufacturing tolerances. These specifications are subject to change without notice.

Consult factory for a variety of alternate constructions for specific applications.

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