



Draka

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.

Customizable Features

1. CONDUCTORS

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

2. INSULATION

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

3. CIRCUIT IDENTIFICATION

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

4. 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.

5. JACKET

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

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



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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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