Draka

A brand of the Prysmian Group

CUBOND Control Cable

multiple XHHW-2 conductors / 14, 12 & 10 AWG / copper shield / CPE jacket / 600 volt

Applications

These are multiple conductor control tray cables with crosslinked (thermoset) polyethylene (XLPE) insulation and a crosslinked (thermoset) chloronated 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.

CURCUIT 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.

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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)

Optional features available are: 1) Flexible stranded conductors; 2) Tin-coated copper conductors per ASTM B33;
3) Flame-retardant ethylene propylene rubber (FREP) insulated conductors; 4) 2000 volt rating; 5) Aluminum shield.
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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