Power and Control Tray Cable

with XHHW-2 conductors / 14 AWG to 750 KCMIL / PVC or CPE jacket / 600 volt

Applications

For important power or control circuits where low-loss, high temperature flame-retardant cables are desired. The cables are UL listed in accordance with Article 340 of the NEC and are approved for use where exposed to direct sunlight or directly buried.

These cables may be used for:
cable trays in accordance with NEC Article 318 (these cables meet the requirements of the 70,000 BTU/hr vertical tray flame test in UL 1277, IEEE 383 and the ICEA 70,000 and 210,000 BTU/hr vertical tray flame tests as detailed in ICEA T-29-520 and T-30-520), in Class 1 division 2 hazardous locations in accordance with Article 501, and for Class 1 control circuits in accordance with Article 725.

These cables are tough with excellent resistance to moisture and corrosion and have high dielectric properties. The insulated conductors are UL listed XHHW-2.

Features

1. CONDUCTORS

Bare soft copper per ASTM B 3, Class B concentrically stranded per ASTM B 8.

2. INSULATION

High dielectric strength, heat and moisture-resistant colored crosslinked polyethylene (XLP) rated for continuous use at 90°C dry and wet to meet UL 44 for XHHW-2 wire. Ethylene Propylene Rubber insulation (FREP XHHW-2) is available as an option.

3. CIRCUIT IDENTIFICATION

Insulation is coded in accordance with NEMA WC-57 Color Code.

4. ASSEMBLY

Individual conductors are cabled, using non-hygroscopic fillers where necessary, to form a round compact core and wrapped with a binder.

5. JACKET

Abrasion, oil and chemical resistant and highly flame retardant PVC or CPE jacket to meet UL Standard 1277. Chlorinated polyethylene (CPE) and polychloroprene (PCP) jackets are available as an option.

Ratings

UL Standards 44 and 1277
ICEA S-73-532 (NEMA WC-57)
ICEA T-29-520, T-30-520, IEEE 383
National Electrical Code Articles 310, 318, 340

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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Part Number	Conductor Number	Conductor AWG	Nominal Insulation Thickness in (mm)	Ground AWG	Nominal Jacket Thickness in (mm)	Nominal Cable O.D. in (mm)	Approximate Cable Weight Lbs/Mft (Kg/Km)
104023	2	14	.030 (.76)	-	.045 (1.1)	.235 x .375 (6.0 x 9.5)	67 (99)
104033	3	14	.030 (.76)	-	.045 (1.1)	.400 (10.2)	102 (151)
104043	4	14	.030 (.76)	-	.045 (1.1)	.435 (11.0)	126 (186)
104053	5	14	.030 (.76)	-	.045 (1.1)	.475 (12.1)	150 (222)
104073	7	14	.030 (.76)	-	.045 (1.1)	.520 (13.2)	191 (283)
104093	9	14	.030 (.76)	-	.060 (1.5)	.650 (16.5)	274 (406)
104123	12	14	.030 (.76)	-	.060 (1.5)	.710 (18.0)	340 (503)
106023	2	12	.030 (.76)	-	.045 (1.1)	.255 x .415 (6.5 x 10.5)	92 (1362)
106033	3	12	.030 (.76)	-	.045 (1.1)	.440 (11.2)	131 (194)
106043	4	12	.030 (.76)	-	.045 (1.1)	.485 (12.3)	164 (243)
106053	5	12	.030 (.76)	-	.045 (1.1)	.530 (13.5)	202 (299)
106073	7	12	.030 (.76)	-	.060 (1.5)	.610 (15.5)	283 (419)
106093	9	12	.030 (.76)	-	.060 (1.5)	.715 (18.2)	357 (528)
106123	12	12	.030 (.76)	-	.060 (1.5)	.795 (20.2)	462 (684)
108023	2	10	.030 (.76)	-	.045 (1.1)	.280 x .465 (7.1 x 11.8)	121 (1791)
108033	3	10	.030 (.76)	-	.045 (1.1)	.500 (12.7)	185 (2738)
108043	4	10	.030 (.76)	-	.060 (1.5)	.575 (14.6)	257 (3804)
108053	5	10	.030 (.76)	-	.060 (1.5)	.630 (16.0)	308 (4558)
108073	7	10	.030 (.76)	-	.060 (1.5)	.690 (17.5)	397 (5876)
108093	9	10	.030 (.76)	-	.060 (1.5)	.805 (20.4)	496 (734)
108123	12	10	.030 (.76)	-	.080 (2.0)	.935 (23.7)	661 (978)
112030	3 + ground	8	.045 (1.4)	10	.060 (1.5)	.665 (16.9)	296 (438)
113030	3 + ground	6	.045 (1.4)	8	.060 (1.5)	.750 (19.1)	413 (611)
114030	3 + ground	4	.045 (1.4)	8	.080 (2.0)	.910 (23.1)	634 (938)
115030	3 + ground	2	.045 (1.4)	6	.080 (2.0)	1.035 (26.3)	915 (1354)
118249	3 + ground	1/0	.055 (1.4)	6	.080 (2.0)	1.240 (31.5)	1471 (2177)
118349	3 + ground	2/0	.055 (1.4)	6	.080 (2.0)	1.340 (34.0)	1778 (2631)
118549	3 + ground	4/0	.055 (1.4)	4	.080 (2.0)	1.580 (40.1)	2734 (4046)
118649	3 + ground	250	.065 (1.7)	4	.110 (2.8)	1.840 (46.7)	3300 (4884)
118849	3 + ground	350	.065 (1.7)	3	.110 (2.8)	2.030 (51.6)	4385 (6490)
119149	3 + ground	500	.065 (1.7)	2	.110 (2.8)	2.320 (58.9)	6092 (9016)
119649	3 + ground	750	.080 (2.0)	1	.140 (3.6)	2.860 (72.6)	8976 (13284)

Part numbers shown are for XLP/PVC jacketed cables only.

Optional features available are: 1) Flexible stranded conductors; 2) Tin-coated copper conductors per ASTM B33; 3) Ethylene Propylene Rubber insulation (FREP XHHW-2); 4) CPE or Chlorosulfonated Polyethylene jackets; 5) 2000 volt rating.

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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