

Type MC Power Cable

3 XHHW-2 XLPE insulated conductors / 3 bare grounds / 8 AWG to 750 KCMIL
PVC or CPE jacket / 600 volt



Applications

For use as power and control circuits in industrial plants. Type MC cable is approved for use where exposed to direct sunlight or in cable trays or directly buried and in Class I Division 2, Class II Divisions 2, Class III Divisions 1 and 2, Hazardous Locations as defined in Articles 500, 501, 502 and 503 of the National Electrical Code (NEC). This flame-retardant cable complies with UL Tray and ICEA T-30-520 for 70,000 BTU/HR. The finished cable also passes the 210,000 BTU/HR vertical tray flame test detailed in T-29 520.

Ratings

- UL Standard 44
- UL Standard 1569
- National Electrical Code Articles 310, 318, 334
ICEA T-29-520, T-30-520

Construction

CONDUCTORS: Bare soft copper per ASTM B 3 concentrically stranded per ASTM B 8, and wrapped when necessary with a polyester separator tape to ease insulation stripping.

INSULATION: High dielectric strength, flame, heat and moisture resistant crosslinked polyethylene (XLPE) rated for continuous use at 90°C wet or dry per UL 44 for XHHW-2 wire.

CIRCUIT IDENTIFICATION: Insulation number printed per ICEA S-73-532 Method 4 (1-One, 2-Two, etc).

GROUND CONDUCTORS: Stranded copper per ASTM B3 & B8.

ASSEMBLY: Insulated conductors and three uninsulated bare grounding conductors are cabled, using non-hygroscopic fillers where necessary, to form a round compact core. The cabled core is wrapped with a binder.

ARMOR: Helically applied interlocked steel (25 mils) or aluminum (25 or 34 mils) armor meeting UL 1569.

OVERALL JACKET: Abrasion, oil / chemical resistant and highly flame retardant polyvinyl chloride (PVC) or chlorinated polyethylene (CPE) jacket meeting UL 1569.

Prysmian Group

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Part Number	Insulation Conductor AWG (Stranding)	Ground Thickness in (mm)	Jacket Conductor AWG (Stranding)	Nominal Thickness in (mm)	Cable O.D. in (mm)	Nom. Cable Weight Steel Armor Lbs/Mft (Kg/Km)	Nom. Cable Weight Aluminum Armor Lbs/Mft (Kg/Km)
295555	8 AWG (7/0486)	.045 (1.1)	10 (7x0385)	.050 (1.3)	.78 (19.8)	550 (818)	410 (610)
295559	6 AWG (7/0612)	.045 (1.1)	8 (7x0486)	.050 (1.3)	.86 (21.8)	710 (1056)	550 (818)
295563	4 AWG (7/0772)	.045 (1.1)	8 (7x0486)	.050 (1.3)	1.00 (25.4)	970 (1443)	760 (1131)
295567	2 AWG (7/0974)	.045 (1.1)	6 (7x0612)	.050 (1.3)	1.13 (28.7)	1320 (1964)	1080 (1607)
295571	1 AWG (19/0664)	.055 (1.4)	6 (7x0612)	.050 (1.3)	1.26 (32.0)	1600 (2470)	1320 (1964)
295574	1/0 AWG (19/0745)	.055 (1.4)	6 (7x0612)	.050 (1.3)	1.35 (34.3)	1870 (2782)	1570 (2336)
295577	2/0 AWG (19/0837)	.055 (1.4)	4 (7x0772)	.050 (1.3)	1.44 (36.6)	2210 (3288)	1880 (2797)
295580	3/0 AWG (19/0940)	.055 (1.4)	4 (7x0772)	.060 (1.5)	1.63 (41.4)	2750 (4092)	2420 (3601)
295583	4/0 AWG (19/1055)	.055 (1.4)	4 (7x0772)	.060 (1.5)	1.75 (44.4)	3270 (4866)	2910 (4330)
295586	250 KCMIL (37/0822)	.065 (1.6)	4 (7x0772)	.060 (1.5)	1.89 (48.0)	3780 (5625)	3380 (5029)
295592	350 KCMIL (37/0973)	.065 (1.6)	3 (7x0867)	.060 (1.5)	2.12 (53.8)	4970 (7395)	4510 (8050)
295601	500 KCMIL (37/1162)	.065 (1.6)	2 (7x0974)	.075 (1.9)	2.44 (62.0)	6770 (10074)	6240 (9285)
295612	750 KCMIL (61/1109)	.080 (2.0)	1 (19x0664)	.075 (1.9)	2.90 (73.7)	9730 (14478)	9090 (13525)

Ampacity ¹: Based upon 2002 National Electrical Code, 90°C Dry Rating Copper Conductor.

Ampacity ²: Three Wire, Single-Phase Dwelling Services.

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