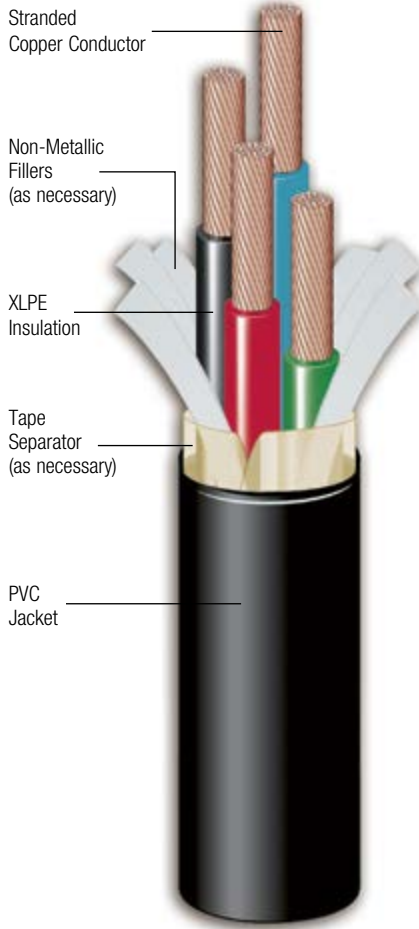


TYPE TC-POWER CABLE-WITH INSULATED GROUND-XHHW-2 INNERS

ENGINEERING SPECIFICATIONS:



Listed E-179429



Standards:

Underwriters Laboratories Standard UL-1277, UL-44
 ASTM Stranding Class B3, B8, B787
 NFPA 70: National Electrical Code, NEC Article 336
 UL 1685-FT4/IEEE 1202 (70,000 Btu/hr) Flame Test
 ICEA T-29-520 (210,000 Btu/hr) Flame Test
 ARRA 2009; Section 1605 "Buy American" Compliant

CONSTRUCTION:

Conductors:

Bare, soft-annealed stranded copper conductors per ASTM-B787

Insulation:

Cross-linked polyethylene (XLPE) High Heat Water Resistant. Rated for continuous use in wet or dry locations at temperatures not to exceed 90°C dry or wet to meet UL-44 requirements for type XHHW-2 wire. Suitable for use in low-leaking circuits requiring a dielectric constant of 3.5 or less.

Ground Conductor:

Soft, uncoated copper per ASTM-B787 or XLPE Insulated Green Ground

Applications:

Primarily used for connecting power devices in an industrial environment. Suitable for installation in channels, ducts, wireways, cable trays, and conduits. Approved for direct burial in wet or dry locations and outdoors in cable trays where sunlight-resistant rating is required. Cables constructed and listed for applications requiring TC-ER rating. Approved for Class I Division II Hazardous Locations.

Assembly:

The insulated conductors are cabled together with or without an insulated green ground and with or without fillers as required to form a round compact core. Nylon rip-cord is supplied for easy stripping.

Color Coding:

Colored insulation with ICEA Method 1 with printed number

Overall Jacket:

A flame retardant sunlight-resistant black PVC jackets is applied over shielded core. Sunlight-resistant overall jacket available in all colors by request. Also available in chlorinated polyethylene jacket (CPE) by request.

Type TC-Power Cable-With Bare Ground-XHHW-2 Inners 600V

Size (AWG)	Size of Ground Wire (AWG)	Outer Jacket Thickness PVC (in)	Outside Diameter (in)	Approximate Net Weight (lbs/1000ft)	Standard Packaging (ft)
14/2	14 AWG Bare	0.045	0.379	84	1000' 5000' Reels
14/3	14 AWG Bare	0.045	0.416	106	1000' 5000' Reels
12/2	12 AWG Bare	0.045	0.423	115	1000' 5000' Reels
12/3	12 AWG Bare	0.045	0.464	141	1000' 5000' Reels
10/2	10 AWG Bare	0.045	0.473	161	1000' 5000' Reels
10/3	10 AWG Bare	0.045	0.514	207	1000' 5000' Reels

For ampacities see Table 310.15(B)(16) of the NEC. Also see Table 310.15(b)(2)(a) for adjustment factors for more than three current carrying conductors.

For equipment marked for use at higher temperatures, the conductor ampacity shall be limited to the following per NEC 110.14(C):

60°C when terminated to equipment for circuits rated 100 amperes or less or marked for size 14 AWG through 1 AWG conductor.

75°C when terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG.

90°C for ampacity derating purposes.

The above data is approximate and subject to normal manufacturing tolerances.

PRINT LEGEND: ENCORE WIRE CORP (SIZE) TYPE TC-ER CABLE XHHW-2 CDRS SUN-RES 600 VOLTS DIR-BUR (UL) DATE/TIME/OPER/QC