

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

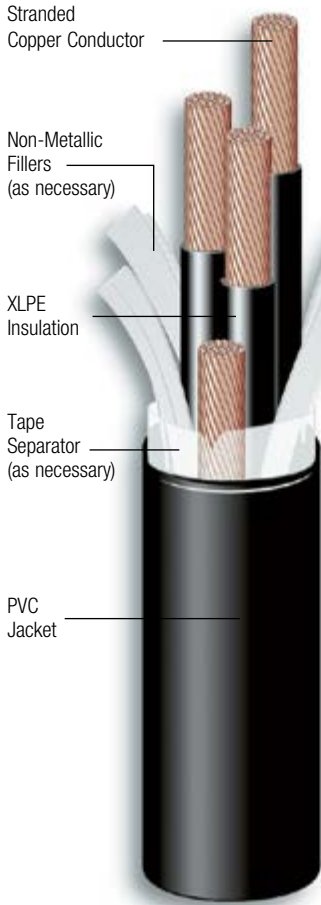
ENGINEERING SPECIFICATIONS:

Standards:

Underwriters Laboratories Standard UL-1277, UL-44
 Federal Specification A-A-59544, NEMA WC-70/ICEA S-95-658
 NFPA 70: National Electrical Code, NEC Article 336
 UL 1685-FT4/IEEE 1202 (70,000 Btu/hr) Flame Test
 NEMA WC 57/ICEA 5-73-532
 ICEA T-29-520 (210,000 Btu/hr) Flame Test
 ARRA 2009; Section 1605 "Buy American" Compliant



Listed E-179429



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; 8 AWG and 6 AWG have an insulated green ground conductor

Applications:

Primarily used for connecting power devices in an industrial environment. Suitable for installation in channels, ducts, raceways, 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 a bare ground and with or without fillers as required to form a round compact core. Nylon rip-cord is supplied for easy stripping.

Color Coding:

Black insulation with ICEA Method 4 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 Ground-XHHW-2 Inners 600V

Size (AWG)	Number of Conductors		Size of Ground Wire (AWG)	Outer Jacket Thickness PVC (in)		Outside Diameter (in)		Approximate Net Weight (lbs/1000 ft)		Standard Packaging (ft)
				3	4	3	4	3	4	
8	3	4	10 AWG Green Insulated	0.060	0.060	0.660	0.710	318	388	1000' 5000' reels
6	3	4	8 AWG Green Insulated	0.060	0.060	0.740	0.810	455	561	1000' 4000' reels
4	3	4	8	0.060	0.060	0.930	1.080	707	903	1000' 3000' reels
2	3	4	6	0.080	0.080	1.058	1.165	1032	1290	1000' 2000' reels
1	3	4	6	0.080	0.080	1.185	1.308	1206	1645	1000' 2000' reels
1/0	3	4	6	0.080	0.080	1.275	1.405	1520	1934	1000' 2000' reels
2/0	3	4	6	0.080	0.080	1.378	1.518	1834	2429	500' 1000' 2000' reels
3/0	3	4	4	0.080	0.080	1.488	1.638	2252	2882	1000' 2000' reels
4/0	3	4	4	0.080	0.080	1.608	1.758	2743	3552	1000' 1500' 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.

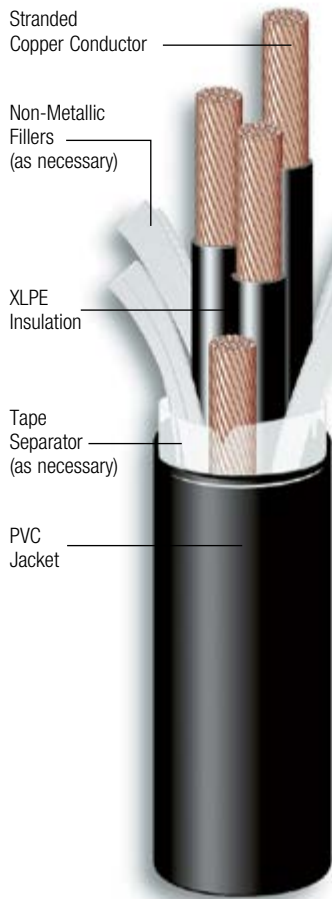
90°C for ampacity derating purposes.

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

8 AWG THROUGH 4/0 AWG ARE 19 STRANDS PER CONDUCTOR

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

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				3	4	3	4	3	4	
250	3	4	4	0.080	0.080	1.782	1.974	3158	3994	1000' 1500' reels
300	3	4	3	0.110	0.110	1.968	2.156	3843	4846	1000' 1500' reels
350	3	4	3	0.110	0.110	2.081	2.302	4320	5565	1000' 1500' reels
400	3	4	3	0.110	0.110	2.187	2.421	4857	6288	1000' 1500' reels
500	3	4	2	0.110	0.110	2.383	2.639	5958	7590	1000' 1500' reels
600	3	4	2	0.110	0.110	2.697	2.990	7358	9378	1000' 1500' reels
750	3	4	1	0.110	0.110	3.015	3.347	8752	11307	1000' 1500' reels

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