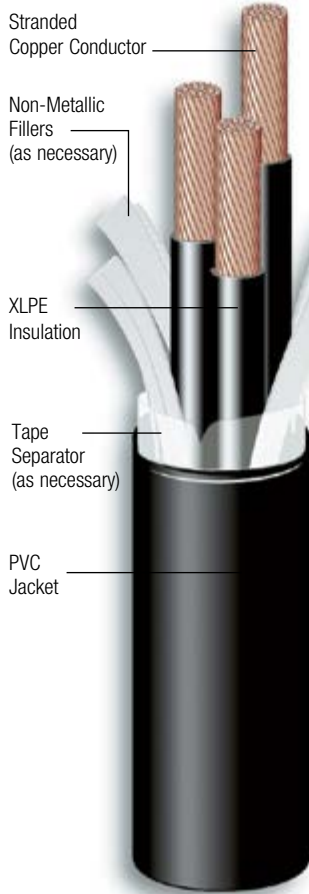


# TYPE TC-POWER CABLE-WITHOUT GROUND-XHHW-2 INNERS



Listed E-179429



## 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

## 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

### 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-Without Ground-XHHW-2 Inners 600V

Size (AWG)	Number of Conductors		Outside Jacket Thickness PVC (in)		Outside Diameter (in)		Approximate Net Weight (lbs/1000 ft)		Standard Packaging (ft)
			3	4	3	4	3	4	
250	3	4	0.080	0.080	1.777	1.969	3029	3865	1000' 1500' reels
300	3	4	0.110	0.110	1.963	2.151	3681	4684	1000' 1500' reels
350	3	4	0.110	0.110	2.076	2.292	4158	5403	1000' 1500' reels
400	3	4	0.110	0.110	2.182	2.411	4695	6126	1000' 1500' reels
500	3	4	0.110	0.110	2.378	2.629	5753	7385	1000' 1500' reels
600	3	4	0.110	0.110	2.692	2.980	7153	9173	1000' 1500' reels
750	3	4	0.110	0.110	3.010	3.337	8494	11049	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.

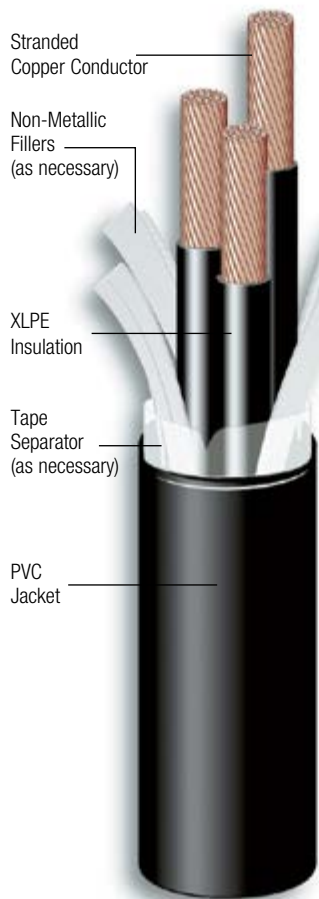
90°C for ampacity derating purposes.

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

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



Listed E-179429



## ENGINEERING SPECIFICATIONS:

### Standards:

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### 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-Without Ground-XHHW-2 Inners 600V

Size (AWG)	Number of Conductors		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	0.060	0.060	0.660	0.705	285	354	1000' 5000' reels
6	3	4	0.060	0.060	0.735	0.800	403	507	1000' 4000' reels
4	3	4	0.080	0.080	0.925	1.001	655	829	1000' 3000' reels
2	3	4	0.080	0.080	1.054	1.155	950	1207	1000' 2000' reels
1	3	4	0.080	0.080	1.182	1.252	1124	1435	1000' 2000' reels
1/0	3	4	0.080	0.080	1.272	1.322	1439	1829	1000' 2000' reels
2/0	3	4	0.080	0.080	1.375	1.425	1753	2236	500' 1000' 2000' reels
3/0	3	4	0.080	0.080	1.485	1.535	2123	2723	1000' 2000' reels
4/0	3	4	0.080	0.080	1.605	1.655	2613	3443	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.

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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