

TYPE TC - POWER CABLE - NO GROUND

XHHW-2 INNERS

ENGINEERING SPECIFICATIONS

Standards

Underwriters Laboratories Standard UL-44, UL-1277, UL-1581, UL-2556; Federal Specification A-A-59544; ASTM Stranding Class B3, B8 and B787; NEMA WC-70/ICEA S-95-658; NFPA 70 (NEC®) Article 336, 392; 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; RoHS Compliant; MasterSpec Division 26 Sections 260519, 260523; UL Listing #E-179429



CONSTRUCTION

Conductors

Bare, soft-annealed stranded copper conductors per ASTM-B3, ASTM-B8 and ASTM-B787

Insulation

Cross-linked polyethylene (XLPE) High Heat Water Resistant. Rated for 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.

Assembly

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

Color Coding

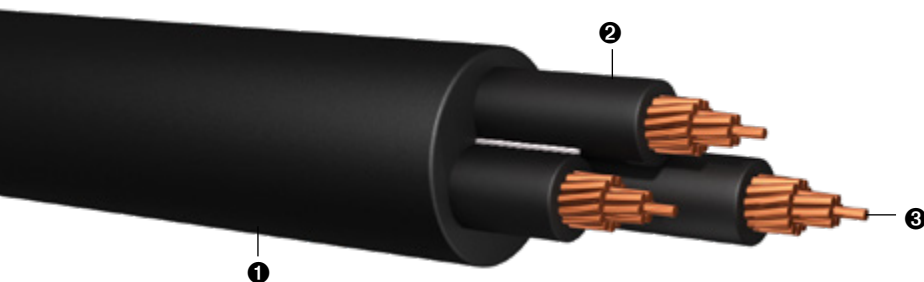
Black insulation with ICEA Method 4 printed number

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.

APPLICATIONS

Primarily used for connecting power devices in commercial and industrial environments. Suitable for installation in channels, ducts, wireways, cable trays, and raceways. Approved for direct burial in wet or dry locations and outdoors in cable trays where sunlight-resistant rating is required. Cable sizes 8 AWG - 6 AWG are listed with TC-ER-JP rating. Approved for Class I Division II Hazardous Locations.



- ❶ PVC Jacket
- ❷ XLPE Insulation
- ❸ XHHW-2 Stranded Copper Conductors

Size (AWG)	No. of Conductors		Outside Jacket Thickness PVC (in)		Allowable Ampacity (Amps) ¹			Outside Diameter (in)		Approximate Net Weight (lbs/1000 ft)		Standard Packaging (ft)
			3	4	60°C	75°C	90°C	3	4	3	4	
8 ²	3	4	0.060	0.060	40	50	55	0.660	0.705	285	354	1000' 5000' Reels
6 ²	3	4	0.060	0.060	55	65	75	0.735	0.800	403	507	1000' 4000' Reels
4 ³	3	4	0.080	0.080	70	85	95	0.925	1.001	655	829	1000' 3000' Reels
2 ³	3	4	0.080	0.080	95	115	130	1.054	1.155	950	1207	1000' 2000' Reels
1 ³	3	4	0.080	0.080	110	130	145	1.182	1.252	1124	1435	1000' 2000' Reels
1/0 ³	3	4	0.080	0.080	125	150	170	1.272	1.322	1439	1829	1000' 2000' Reels
2/0 ³	3	4	0.080	0.080	145	175	195	1.375	1.425	1753	2236	500' 1000' 2000' Reels
3/0 ³	3	4	0.080	0.080	165	200	225	1.485	1.535	2123	2723	1000' 2000' Reels
4/0 ³	3	4	0.080	0.080	195	230	260	1.605	1.655	2613	3443	1000' 1500' Reels

¹ Ampacity of conductors are based on NFPA 70 (NEC) Table 310.15(B)(16). See 110.14(C), 240.4(D) and 310.15(B) for other limitations where applicable.
 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.

When the neutral is considered current-carrying conductor, the ampacity of 4/C cables shall be reduced by a factor of 0.80 per NEC 310.15(B)(3)(a).

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

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

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

³ Type TC only **PRINT LEGEND:** ENCORE WIRE CORPORATION (SIZE) TYPE TC CABLE XHHW-2 CDRS SUN-RES 600V DIR-BUR (UL) DATE/TIME/OPER/QC

ENGINEERING SPECIFICATIONS

Standards

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Listed E-179429



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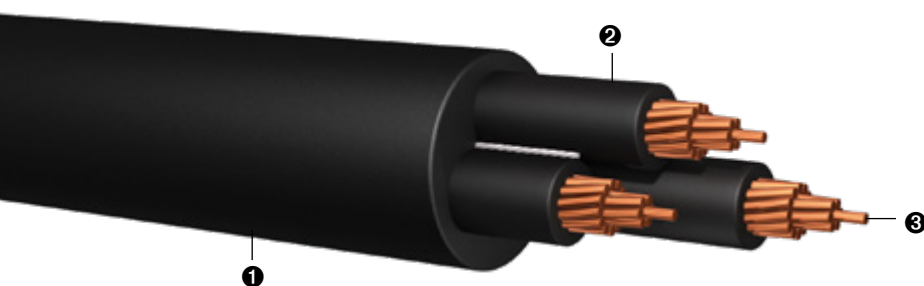
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- ② XLPE Insulation
- ③ XHHW-2 Stranded Copper Conductors

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			3	4	60°C	75°C	90°C	3	4	3	4	
250	3	4	0.080	0.080	215	255	290	1.777	1.969	3029	3865	1000' 1500' Reels
300	3	4	0.110	0.110	240	285	320	1.963	2.151	3681	4684	1000' 1500' Reels
350	3	4	0.110	0.110	260	310	350	2.076	2.292	4158	5403	1000' 1500' Reels
400	3	4	0.110	0.110	280	335	380	2.182	2.411	4695	6126	1000' 1500' Reels
500	3	4	0.110	0.110	320	380	430	2.378	2.629	5753	7385	1000' 1500' Reels
600	3	4	0.110	0.110	350	420	475	2.692	2.980	7153	9173	1000' 1500' Reels
750	3	4	0.110	0.110	400	475	535	3.010	3.337	8694	11049	1000' 1500' Reels

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250 KCMIL through 750 KCMIL is rated as Type TC Only.

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