TRAY CABLE - POWER - WITHOUT GROUND - 600V/1000V
XHHW-2 CONDUCTORS (6 AWG - 4/0 AWG)

Patents: encorewire.com/patents

ENGINEERING SPECIFICATIONS

Standards
Underwriters Laboratories® Standard UL-44, UL-1277, UL-1581, UL-1685, UL-2556; Compact Stranded Aluminum Alloy 8000 Series per ASTM B800, ASTM B801, ASTM B836; NFPA 70 (NEC®) Article 336; UL-1685 Method 1 (70,000 Btu/hr) Flame Test; NEMA WC70/ICEA S-95-658; ICEA T-29-520 (210,000 Btu/hr) Flame Test; RoHS Compliant; MasterSpec Division 26 Sections 260519, 260523; IEEE 1202 (FT4) optional. UL Listing #E-179429

CONSTRUCTION

Conductors
Compact Stranded Conductors, Aluminum Alloy 8000 Series per ASTM B800, ASTM B801and ASTM B836

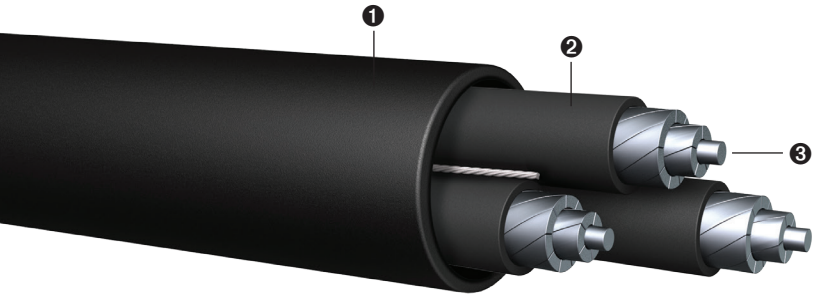
Insulation
High-dielectric strength, heat, and moisture-resistant, Cross-linked polyethylene (XLPE) rated at 90°C dry or wet to meet UL-44 requirements for Type XHHW-2 wire

Overall Jacket
A flame-retardant, sunlight-resistant black PVC jacket is applied over core.

Assembly
The insulated conductors are cabled together, without a ground. Nylon rip-cord is supplied for easy stripping; overall black PVC jacket.

Color Coding
Black insulation with ICEA Method 4 printed number

APPLICATIONS
Primarily used for connect power devices in an commercial and industrial environment. Suitable for installation in electrical 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. Encore Wire's Type TC-ER is acceptable for use in Class 1, Division 2 and Class 2, Division 2 locations where utilized with listed fittings rated for the classified location and condition of exposure to which the listed fittings are applied.



1. PVC Jacket
2. XLPE Insulation
3. Compact Stranded Conductor, AA-8000 Series

Size (AWG)	No.of Conductors		No. of Strands	Outer Jacket Thickness PVC (in)		Outside Diameter (in)		Approximate Net Weight (lbs/1000 ft)		Allowable Ampacity (Amps)[1]		Standard Packaging (ft)
	3	4		3	4	3	4	3	4	75°C	90°C	
6[2]	3	4	7	0.060	0.060	0.678	0.745	260	325	50	55	1000' 4000' Reels
4[3]	3	4	7	0.060	0.080	0.773	0.891	316	404	65	75	1000' 3000' Reels
3[3]	3	4	7	0.080	0.080	0.867	0.952	384	490	75	85	1000' 2000' Reels
2[3]	3	4	7	0.080	0.080	0.931	1.024	459	676	90	100	1000' 2000' Reels
1[3]	3	4	8	0.080	0.080	1.041	1.147	569	734	100	115	1000' 2000' Reels
1/0[3]	3	4	10	0.080	0.080	1.121	1.237	675	855	120	135	1000' 2000' Reels
2/0[3]	3	4	12	0.080	0.080	1.207	1.333	804	1002	135	150	500' 1000' 2000' Reels
3/0[3]	3	4	15	0.080	0.080	1.309	1.447	957	1200	155	175	1000' 2000' Reels
4/0[3]	3	4	19	0.080	0.080	1.421	1.572	1153	1451	180	205	1000' 1500' Reels

[1] For ampacities see NEC Table 310.15(B)(16) for insulated conductors; not more than three current-carrying conductors in a raceway, cable, or earth (directly buried), based on ambient temperature of 30°C (86°F).
NEC Article 310.15(B)(2)(a) for ambient temperature correction factors for temperatures other than 30°C (86°F).
NEC Table 310.15(B)(3)(a) for ampacity adjustment factors, as applicable, for more than three current-carrying conductors.
NEC Article 110.14(C) for conductor temperature limitations for equipment rated 100 amps or less, or for equipment rated for more than 100 amps.
The above data is approximate and subject to manufacturing tolerances.

[2] Type TC-ER-JP **PRINT LEGEND:** ENCORE WIRE CORPORATION (SIZE) TYPE TC-ER-JP CABLE THHN OR THWN-2 AA-8000 AL CDRS SUN-RES 600V/1000V DIR-BUR (UL) DATE/TIME/OPER/QC MACHINE
[3] Type TC only **PRINT LEGEND:** ENCORE WIRE CORPORATION (SIZE) TYPE TC CABLE THHN OR THWN-2 AA-8000 AL CDRS SUN-RES 600V/1000V DIR-BUR (UL) DATE/TIME/OPER/QC

Last Edit: 5/21/24

TRAY CABLE - POWER - WITHOUT GROUND - 600V/1000V
XHHW-2 CONDUCTORS (250 KCMIL - 900 KCMIL)

Patents: encorewire.com/patents

ENGINEERING SPECIFICATIONS

Standards

Underwriters Laboratories® Standard UL-44, UL-1277, UL-1581, UL-1685, U-2556; Compact Stranded Aluminum Alloy 8000 Series per ASTM B800, ASTM B801, ASTM B836; NFPA 70 (NEC®) Article 336; UL-1685 Method 1 (70,000 Btu/hr) Flame Test; NEMA WC70/ICEA S-95-658; ICEA T-29-520 (210,000 Btu/hr) Flame Test; RoHS Compliant; MasterSpec Division 26 Sections 260519, 260523; IEEE 1202 (FT4) optional. UL Listing #E-179429

CONSTRUCTION

Conductors

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Insulation

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Color Coding

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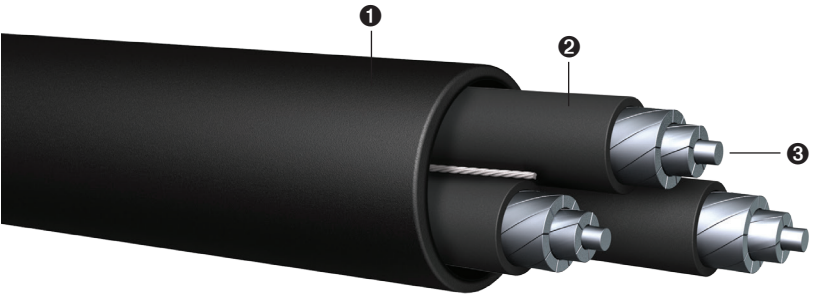
APPLICATIONS

Primarily used for connect power devices in an commercial and industrial environment. Suitable for installation in electrical 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. Encore Wire's Type TC-ER is acceptable for use in Class 1, Division 2 and Class 2, Division 2 locations where utilized with listed fittings rated for the classified location and condition of exposure to which the listed fittings are applied.



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2. XLPE Insulation
3. Compact Stranded Conductor, AA-8000 Series

Size (AWG)	No. of Conductors		No. of Strands	Outer Jacket Thickness PVC (in)		Outside Diameter (in)		Approximate Net Weight (lbs/1000 ft)		Allowable Ampacity (Amps)[1]		Standard Packaging (ft)
				3	4	3	4	3	4	75°C	90°C	
250	3	4	22	0.080	0.110	1.561	1.789	1372	1807	205	230	1000' 1500' Reels
300	3	4	21	0.110	0.110	1.729	1.910	1687	2104	230	260	1000' 1500' Reels
350	3	4	24	0.110	0.110	1.828	2.021	1913	2395	250	280	1000' 1500' Reels
400	3	4	27	0.110	0.110	1.920	2.125	2099	2633	270	305	1000' 1500' Reels
500	3	4	34	0.110	0.110	2.086	2.311	2534	3184	310	350	1000' 1500' Reels
600	3	4	41	0.110	0.110	2.313	2.564	3088	3883	340	385	1000' 1500' Reels
700	3	4	45	0.110	0.140	2.455	2.783	3500	4513	375	425	1000' 1500' Reels
750	3	4	47	0.110	0.140	2.522	2.858	3723	4830	385	435	1000' 1500' Reels
900	3	4	58	0.140	0.140	2.778	3.078	4483	5631	425	480	1000' 1500' Reels

[1] For ampacities see NEC Table 310.15(B)(16) for insulated conductors; not more than three current-carrying conductors in a raceway, cable, or earth (directly buried), based on ambient temperature of 30°C (86°F).
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See 2011 NEC Table 310.15(B)(3)(a) for ampacity adjustment factors, as applicable, for more than three current-carrying conductors.
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