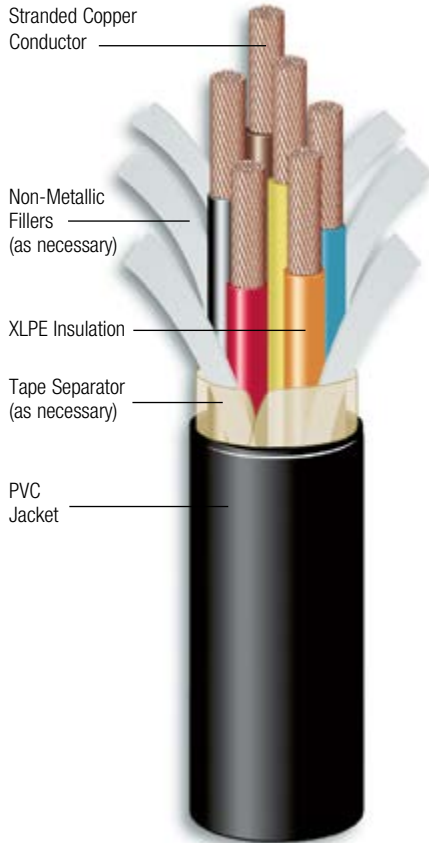


ENGINEERING SPECIFICATIONS:



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
 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, 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 & Control Cable-Without Ground-XHHW-2 Inners-14 AWG 600V

Size (AWG)	Number of Conductors	Outer Jacket Thickness PVC (in)	Outside Diameter (in)	Approximate Net Weight (lbs/1000 ft)	Standard Packaging (ft)
14 AWG	2	.045	.262 x .370	61	1000' 5000' reels
	3	.045	.373	86	1000' 5000' reels
	4	.045	.413	104	1000' 5000' reels
	5	.045	.432	124	1000' 5000' reels
	6	.045	.472	145	1000' 5000' reels
	7	.045	.472	166	1000' 5000' reels
	8	.045	.550	199	1000' 5000' reels
	9	.045	.590	222	1000' 5000' reels
	10	.045	.639	245	1000' 5000' reels
	11	.045	.645	268	1000' 5000' reels
	12	.045	.660	284	1000' 5000' reels

Note: ampacities are based on Table 310.15(B)(16) of the NEC. *Ampacities shown are for general use as specified by the NEC, Section 310.15.

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.

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)(2)(a).

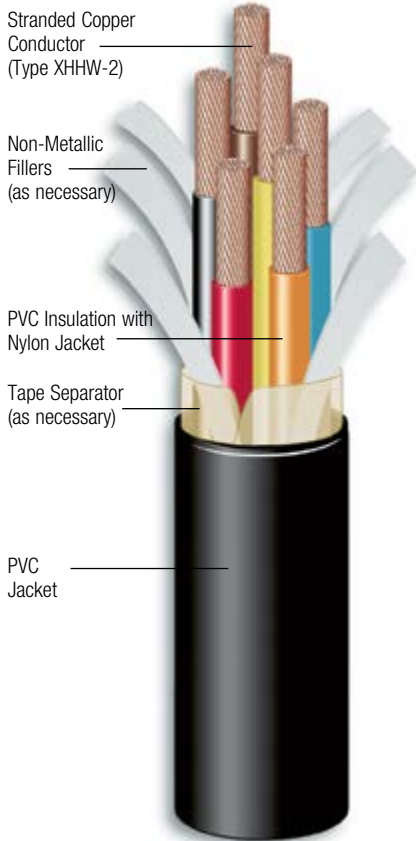
The above data is approximate and subject to normal manufacturing tolerances.

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

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
 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, 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 & Control Cable-Without Ground-XHHW-2 Inners-12 AWG 600V

Size (AWG)	Number of Conductors	Outer Jacket Thickness PVC (in)	Outside Diameter (in)	Approximate Net Weight (lbs/1000 ft)	Standard Packaging (ft)
	2	.045	.282 x .410	84	1000' 5000' reels
	3	.045	.411	116	1000' 5000' reels
	4	.045	.447	148	1000' 5000' reels
	5	.045	.492	169	1000' 5000' reels
	6	.045	.568	216	1000' 5000' reels
12 AWG	7	.045	.568	245	1000' 5000' reels
	8	.045	.612	275	1000' 5000' reels
	9	.045	.653	305	1000' 5000' reels
	10	.045	.715	339	1000' 5000' reels
	11	.045	.726	371	1000' 5000' reels
	12	.045	.738	395	1000' 5000' reels

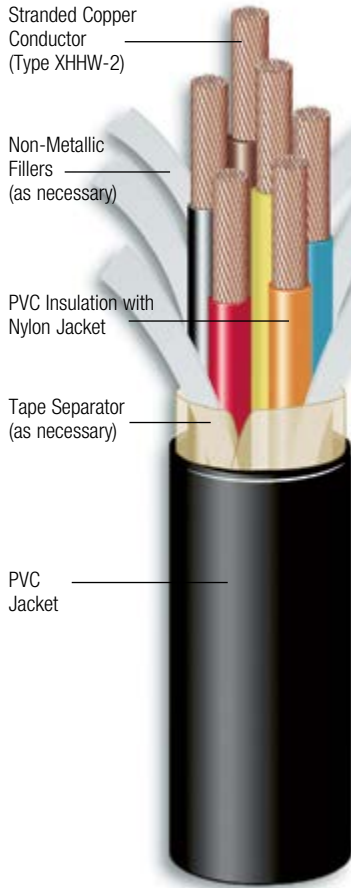
For ampacities see Table 310.15(B)(16) of the NEC. Also see Table 310.15(b)(2)(a) for adjustment factors for more than three current carrying conductors. For equipment marked for use at higher temperatures, the conductor ampacity shall be limited to the following per NEC 110.14(C):
 60°C when terminated 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 CORPORATION (SIZE) TYPE TC-ER CABLE XHHW-2 CDRS SUN-RES 600 VOLTS DIR-BUR (UL) DATE/TIME/OPER/QC

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
 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, 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 & Control Cable-Without Ground-XHHW-2 Inners-10 AWG 600V

Size (AWG)	Number of Conductors	Outer Jacket Thickness PVC (in)	Outside Diameter (in)	Approximate Net Weight (lbs/1000 ft)	Standard Packaging (ft)
	2	.045	.292 x .460	114	1000' 5000' reels
	3	.045	.464	161	1000' 5000' reels
	4	.045	.506	208	1000' 5000' reels
	5	.045	.578	262	1000' 5000' reels
	6	.045	.630	306	1000' 5000' reels
10 AWG	7	.045	.630	348	1000' 5000' reels
	8	.045	.684	395	1000' 5000' reels
	9	.045	.738	440	1000' 5000' reels
	10	.045	.810	486	1000' 5000' reels
	11	.045	.851	536	1000' 5000' reels
	12	.045	.877	597	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 CORPORATION (SIZE) TYPE TC-ER CABLE XHHW-2 CDRS SUN-RES 600 VOLTS DIR-BUR (UL) DATE/TIME/OPER/QC