

ENGINEERING SPECIFICATIONS:



Standards:

Underwriters Laboratories Standard UL-1277, UL-83
 ASTM Stranding Class B3, B8, B787
 NFPA 70: National Electrical Code , NEC Article 336
 NEMA WC 57/ICEA 5-73-532
 UL 1685-FT4/IEEE 1202 (70,000 Btu/hr) Flame Test
 ICEA T-29-520 (210,000 Btu/hr) Flame Test
 ARRA 2009; Section 1605 "Buy American" Compliant

CONSTRUCTION:

Conductors:

Stranded, uncoated copper conductors per ASTM-B3, ASTM-B787 and ASTM-B8 and UL-83

Insulation:

High dielectric strength, heat and moisture-resistant, colored Polyvinyl Chloride (PVC) rated for continuous use at 90°C dry or wet to meet UL-83 requirements for type THHN or THWN-2 wire.

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 a sunlight-resistant rating is required. Cable 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:

Color-coded insulation with ICEA Method 1 with printed number

Overall Jacket:

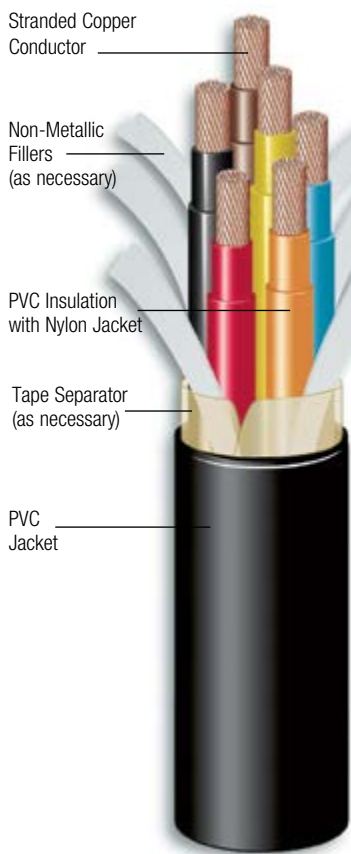
A flame retardant sunlight-resistant black PVC jackets is applied over shielded core. Sunlight-resistant overall jacket available in all colors by request.

Type TC - Power & Control Cable - Without Ground - THHN/THWN-2 Inners - 14 AWG 600V

Size (AWG)	Number of Conductors	Outside Jacket Thickness PVC (in)	Outside Diameter (in)	Approximate Net Weight (lbs/1000 ft)	Standard Packaging (ft)
14 AWG	2	0.045	0.230 x 0.340	58	1000' 5000' Reels
	3	0.045	0.350	79	1000' 5000' Reels
	4	0.045	0.380	99	1000' 5000' Reels
	5	0.045	0.410	118	1000' 5000' Reels
	6	0.045	0.450	139	1000' 5000' Reels
	7	0.045	0.460	148	1000' 5000' Reels
	8	0.045	0.490	178	1000' 5000' Reels
	9	0.045	0.525	199	1000' 5000' Reels
	10	0.045	0.600	238	1000' 5000' Reels
	11	0.045	0.615	257	1000' 5000' Reels
	12	0.045	0.620	275	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 THHN OR THWN-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-83
 ASTM Stranding Class B3, B8, B787
 NFPA 70: National Electrical Code , NEC Article 336
 NEMA WC 57/ICEA 5-73-532
 UL 1685-FT4/IEEE 1202 (70,000 Btu/hr) Flame Test
 ICEA T-29-520 (210,000 Btu/hr) Flame Test
 ARRA 2009; Section 1605 "Buy American" Compliant

CONSTRUCTION:

Conductors:

Stranded, uncoated copper conductors per ASTM-B3, ASTM-B787 and ASTM-B8 and UL-83

Insulation:

High dielectric strength, heat and moisture-resistant, colored Polyvinyl Chloride (PVC) rated for continuous use at 90°C dry or wet to meet UL-83 requirements for type THHN or THWN-2 wire.

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 a sunlight-resistant rating is required. Cable 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:

Color-coded 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.

Type TC - Power & Control Cable - Without Ground - THHN/THWN-2 Inners - 12 AWG 600V

Size (AWG)	Number of Conductors	Outside Jacket Thickness PVC (in)	Outside Diameter (in)	Approximate Net Weight (lbs/1000 ft)	Standard Packaging (ft)
12 AWG	2	0.045	0.250 X 0.380	78	1000' 5000' Reels
	3	0.045	0.390	101	1000' 5000' Reels
	4	0.045	0.420	130	1000' 5000' Reels
	5	0.045	0.470	162	1000' 5000' Reels
	6	0.045	0.510	194	1000' 5000' Reels
	7	0.045	0.540	220	1000' 5000' Reels
	8	0.045	0.590	272	1000' 5000' Reels
	9	0.045	0.630	304	1000' 5000' Reels
	10	0.045	0.680	336	1000' 5000' Reels
	11	0.045	0.700	365	1000' 5000' Reels
	12	0.045	0.710	393	1000' 5000' Reels

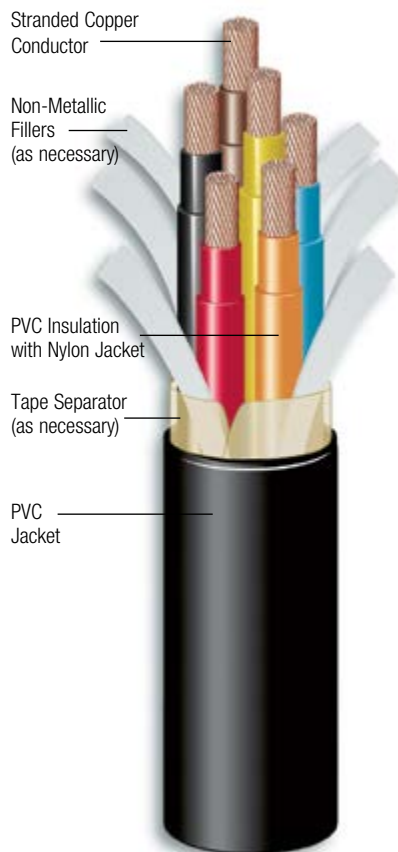
For ampacities see Table 310.15(B)(16) of the NEC. Also see Table 310.15(b)(2)(a) for adjustment factors for more than three current carrying conductors.
 For equipment marked for use at higher temperatures, the conductor ampacity shall be limited to the following per NEC 110.14(C):
 60°C when terminated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

ENGINEERING SPECIFICATIONS:



Listed E-179429



Standards:

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CONSTRUCTION:

Conductors:

Stranded, uncoated copper conductors per ASTM-B3, ASTM-B787 and ASTM-B8 and UL-83

Insulation:

High dielectric strength, heat and moisture-resistant, colored Polyvinyl Chloride (PVC) rated for continuous use at 90°C dry or wet to meet UL-83 requirements for type THHN or THWN-2 wire.

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 a sunlight-resistant rating is required. Cable constructed and listed for applications requiring TC-ER rating. Approved for Class I Division II Hazardous Locations.

Assembly:

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Color Coding:

Color-coded 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.

Type TC - Power & Control Cable Without Ground - THHN/THWN-2 Inners - 10 AWG 600V

Size (AWG)	Number of Conductors	Outside Jacket Thickness PVC (in)	Outside Diameter (in)	Approximate Net Weight (lbs/1000 ft)	Standard Packaging (ft)
10 AWG	2	0.045	0.260 x 0.430	115	1000' 5000' Reels
	3	0.045	0.460	152	1000' 5000' Reels
	4	0.045	0.500	207	1000' 5000' Reels
	5	0.045	0.585	260	1000' 5000' Reels
	6	0.045	0.650	320	1000' 5000' Reels
	7	0.045	0.655	362	1000' 5000' Reels
	8	0.045	0.705	412	1000' 5000' Reels
	9	0.045	0.755	459	1000' 5000' Reels
	10	0.045	0.820	512	1000' 5000' Reels
	11	0.045	0.850	558	1000' 5000' Reels
	12	0.045	0.855	572	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.
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