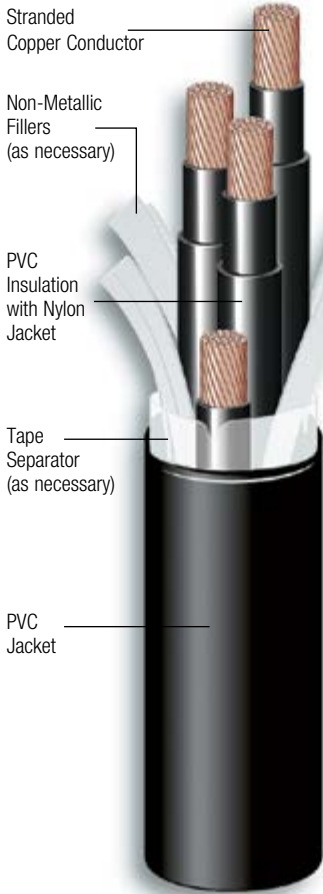


TYPE TC-POWER CABLE-WITHOUT GROUND-THHN/THWN-2 INNERS

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 336 Article
 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:

Bare, soft-annealed stranded copper conductors per ASTM-B787 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.

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 conduit. 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.

Type TC-Power & Control Cable-Without Ground-THHN/THWN-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	.060	.060	.610	.655	282	351	1000' 5000' reels
6	3	4	.060	.060	.685	.750	400	504	1000' 4000' reels
4	3	4	.080	.080	.875	.961	652	826	1000' 3000' reels
2	3	4	.080	.080	1.004	1.105	947	1204	1000' 2000' reels
1	3	4	.080	.080	1.140	1.255	1121	1478	1000' 2000' 5000' reels
1/0	3	4	.080	.080	1.225	1.355	1436	1802	1000' 2000' reels
2/0	3	4	.080	.080	1.325	1.465	1750	2207	1000' 2000' reels
3/0	3	4	.080	.080	1.435	1.585	2120	2712	1000' 2000' 5000' reels
4/0	3	4	.080	.080	1.555	1.785	2610	3426	1000' 1500' 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.

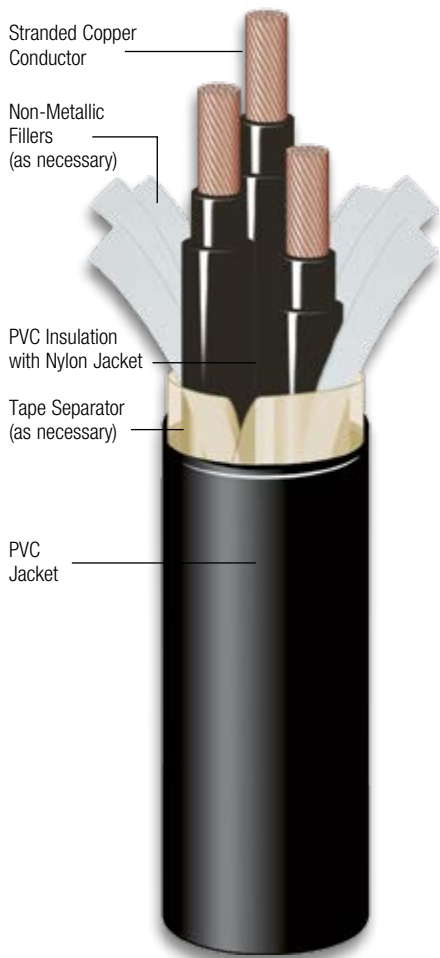
90°C for ampacity derating purposes.

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

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

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

TYPE TC-POWER CABLE-WITHOUT GROUND-THHN/THWN-2 INNERS



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
 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: 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 at 90°C dry or wet to meet UL-83 requirements for Type THHN or THWN-2 wire.

Ground Conductor:

Soft, uncoated copper per ASTM-B787; bare ground conductor

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 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.

Type TC-Power Cable-Without Ground-THHN/THWN-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	1.792	1.981	3026	3865	1000' 1500' reels
300	3	4	0.110	0.110	1.977	2.160	3640	4703	1000' 1500' reels
350	3	4	0.110	0.110	2.091	2.308	4155	5400	1000' 1500' reels
400	3	4	0.110	0.110	2.197	2.432	4699	6062	1000' 1500' reels
500	3	4	0.110	0.110	2.392	2.650	5750	7382	1000' 1500' reels
600	3	4	0.110	0.110	2.752	3.053	6992	9171	1000' 1500' reels
750	3	4	0.110	0.110	3.009	3.336	8491	11216	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):

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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