SOUTH CABLE

CU/PVC/Nylon/PVC 600V TYPE TC-ER Cable



APPLICATION

THHN/THWN-2 PVC type TC power cable is used to supply power to motors, or for connection to other power devices in industrial settings. Primary installations include cable trays, raceways, and outdoor locations where supported by a messenger wire. Type TC power cable is listed for direct burial and for use in Class 1, division 2 locations per NEC. Permitted for Exposed Run (ER) use in accordance with NEC for 3 or more conductors.

CHARACTERISTICS

Voltage Rating Uo/U
600V

Operating Temperature
90°C wet or dry

STANDARDS

ASTM B3, ASTM B8
UL 83
UL1277
UL 1685 (flame exposure test)
ANSI/NEMA WC 70/ICEA S-95-658
FT4/IEEE1202 (flame compliance)
NEC

THE CABLE TEST

We have world-class testing facility, and made rigorous testing regime, every meter of cable before leaving the factory must go through strict testing, testing qualified products will be shipped to customers, effectively ensure product quality and meet customer requirements.

SUSTAINABILITY COMMITMENT

South Cable actively implements the ‟carbon reduction”goal, strives to promote the greens low-carbon transformation, strengthens energy-saving and emission reduction technology innovation, and promotes the companys healthy and sustainable development.

CONSTRUCTION

Conductor
Fully annealed bare copper Class B compressed strand per ASTM B8

Insulation
Polyvinyl Chloride (PVC) covered with Nylon jacket. All gauges are type THHN/THWN-2

Fillers
Non-hygroscopic fillers, as necessary to obtain a circular cross section

Ground Conductor
Uninsulated bare copper ground. Optional: Insulated ground

Jacket
Polyvinyl Chloride (PVC)

Core Identification
Per ICEA S-58-679 Method 4 or Method 1, Table E-1 (K-1) or E-2 (K-2); additional color coding options available

Jacket Color
Black, Upon request

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DIMENSIONS

Conductor Count	Conductor Size	Ground Size	Insulation Thickness	Jacket Thickness	Approx. Overall Diameter	Approx. Net Weight
	AWG/kcmil	AWG	in (mm)	in (mm)	in (mm)	lbs/kft (kg/km)
3	12	12	0.020(0.51)	0.045(1.14)	0.39(9.9)	135(195)
4	12	12	0.020(0.51)	0.045(1.14)	0.43(10.8)	160(237)
3	10	10	0.025(0.64)	0.045(1.14)	0.46(11.8)	200(291)
4	10	10	0.025(0.64)	0.045(1.14)	0.51(12.9)	240(356)
3	8	10	0.036(0.91)	0.060(1.52)	0.61(15.5)	305(453)
4	8	10	0.036(0.91)	0.060(1.52)	0.67(17.0)	380(561)
3	6	8	0.038(0.97)	0.060(1.52)	0.70(17.7)	440(652)
4	6	8	0.038(0.97)	0.060(1.52)	0.77(19.4)	550(812)
3	4	8	0.049(1.24)	0.060(1.52)	0.85(21.5)	640(952)
4	4	8	0.049(1.24)	0.080(2.03)	0.97(24.7)	850(1,260)
3	2	6	0.049(1.24)	0.080(2.03)	1.01(25.8)	980(1,455)
4	2	6	0.049(1.24)	0.080(2.03)	1.11(28.3)	1,235(1,836)
3	1	6	0.060(1.52)	0.080(2.03)	1.15(29.1)	1,210(1,800)
4	1	6	0.060(1.52)	0.080(2.03)	1.26(32.1)	1,540(2,286)
3	1/0	6	0.060(1.52)	0.080(2.03)	1.23(31.3)	1,450(2,154)
4	1/0	6	0.060(1.52)	0.080(2.03)	1.36(34.5)	1,850(2,750)
3	2/0	6	0.060(1.52)	0.080(2.03)	1.32(33.7)	1,745(2,592)
4	2/0	6	0.060(1.52)	0.080(2.03)	1.46(37.2)	2,235(3,326)
3	3/0	4	0.060(1.52)	0.080(2.03)	1.44(36.5)	2,160(3,209)
4	3/0	4	0.060(1.52)	0.080(2.03)	1.59(40.3)	2,770(4,116)
3	4/0	4	0.060(1.52)	0.080(2.03)	1.56(39.5)	2,615(3,890)
4	4/0	4	0.060(1.52)	0.080(2.03)	1.72(43.7)	3,370(5,012)
3	250	4	0.071(1.80)	0.080(2.03)	1.71(43.4)	3,080(4,581)
4	250	4	0.071(1.80)	0.110(2.79)	1.95(49.6)	4,090(6,083)
3	350	3	0.071(1.80)	0.110(2.79)	1.99(50.5)	4,265(6,340)
4	350	3	0.071(1.80)	0.110(2.79)	2.2(55.9)	5,505(8,186)
3	500	2	0.071(1.80)	0.110(2.79)	2.27(57.6)	5,850(8,701)
4	500	2	0.071(1.80)	0.110(2.79)	2.51(63.8)	7,580(11,276)
3	750	1	0.082(2.08)	0.110(2.79)	2.70(68.6)	8,535(12,700)
4	750	1	0.082(2.08)	0.140(3.56)	3.06(77.8)	11,295(16,807)

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.

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