

Product: [28178A](#) 



TC VN/PVC, 4+G C #4/0+4 Str BC, PVC-NYL Ins M4, Blk PVC Jkt, 600V
TC-ER 90C Dry/Wet SUN RES DIR BUR

Product Description

UL Type TC (1277) PVC-Nylon/PVC, 4+G Conductor 4/0+4AWG (19x10+7x12) Bare Copper, PVC-NYL Insulation M4 Color Code, Black PVC Outer Jacket, 600V TC-ER 90C Dry/Wet SUN RES DIR BUR

Technical Specifications

Product Overview

Suitable Applications:	Power and Control Applications up to 600V
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Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material
Conductor(s)	4	4/0 AWG	19x10	BC - Bare Copper
Ground	1	4 AWG	7x12	BC - Bare Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
PVC/Nylon - Polyvinyl Chloride + Nylon	0.054 in (1.4 mm)	0.621 in (15.8 mm)	ICEA Chart M4

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.116 in (2.95 mm)	1.775 in (45.09 mm)	Yes

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	0.052 Ohm/1000ft	208 Amps per Conductor at 30°C
Ground	0.26 Ohm/1000ft (0.85 Ohm/km)	95 Amps per Conductor at 30°C

Voltage

UL Voltage Rating
600 V (TC-ER)

Mechanical Characteristics

Temperature

UL Temperature	Operating
90°C Dry, 90°C Wet	-30°C to 90°C Dry/Wet

Bend Radius

Stationary Min.	Installation Min.
8.85 in (225 mm)	8.85 in

Max. Pull Tension:	10099 lbs
Bulk Cable Weight:	3386 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Burial
Flammability / Reaction to Fire:	UL 1685 UL loading, IEEE 1202 FT4
NEC / UL Compliance:	Article 336, TC-ER, THWN-2
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.159 Revision Date: 11-15-2021
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Variants

Item #	Putup Type	UPC
28178A 0102500	Reel	612825365563

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