



Product: [28168A](#)

TC VN/PVC, 3+G C #1/0+6 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, 3+G Conductor 1/0+6AWG (19x12+7x14H) 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; Class 1 Division 2 Hazardous Locations; Recommended Cable Gland Belden BTC125A1271RA
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	3	1/0	19x12	BC - Bare Copper
Ground	1	6	7x14	BC - Bare Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
PVC/Nylon - Polyvinyl Chloride + Nylon	0.054 in (1.4 mm)	0.471 in (12.0 mm)	Black and Numbered

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.083 in (2.1 mm)	1.22 in (31.0 mm)	Yes

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	0.106 Ohm/1000ft	170 Amps per Conductor at 30°C
Ground	0.4 Ohm/1000ft (1.3 Ohm/km)	75 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	Wet/Dry: -30°C to 90°C

Bend Radius

Stationary Min.	Installation Min.
6.1 in (150 mm)	6.1 in (150 mm)

Max. Pull Tension:	4108.1 lbs (1863.4 kg)
Bulk Cable Weight:	1373 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: 0.88 Revision Date: 02-03-2025
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Part Numbers

Variants

Item #	Putup Type	UPC
28168A 0102500	Reel	612825365662
28168A 0103500	Reel	
28168A 0105000	Reel	612825365327
28168A 0105300	Reel	

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