



Product: [27149A](#)

TC VN/PVC, 2+G C #8+10 Str BC, PVC-NYL Ins M4, Blk PVC Jkt, 600V TC 90C Dry/Wet SUN RES DIR BUR

Product Description

UL Type TC (1277) PVC-Nylon/PVC, 2+G Conductor 8+10AWG (Class B) Bare Copper, PVC-NYL Insulation M4 Color Code, Black PVC Outer Jacket, 600V TC 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 BTC075A0791RA
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	2	8 AWG	7x16	BC - Bare Copper
Ground Wire	1	10 AWG	7x18	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.038 in (0.97 mm)	0.218 in (5.54 mm)	Black and Numbered
Ground Wire	No Insulation			

Outer Shield

Material
No Shield

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.063 in (1.6 mm)	0.561 in	Yes

Overall Cable Diameter (Nominal): 0.561 in

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	0.66 Ohm/1000ft	55 Amps per Conductor at 30°C
Ground Wire	1.08 Ohm/1000ft (3.54 Ohm/km)	42 Amps per Conductor at 25°C

Voltage

UL Voltage Rating
600 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
90°C Dry, 75°C Wet	-30°C To +75°C Wet/90°C Dry

Bend Radius

Stationary Min.	Installation Min.
2.244 in (57.00 mm)	2.805 in

Max. Pull Tension:	573.6 lbs (260.2 kg)
Bulk Cable Weight:	220 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Burial
Flammability / Reaction to Fire:	UL1685 UL Loading, T-29-520, IEEE 1202 FT4
NEC / UL Compliance:	Article 336, TC, THHN, THWN
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: 0.470 Revision Date: 08-16-2024
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