



Product: [28090A](#)

TC VN/PVC, 12 C #14 Str BC, PVC-NYL Ins E2, Blk PVC Jkt, 600V TC-ER
150V NPLF 90C Dry/Wet SUN RES DIR BUR

Product Description

UL Type TC (1277) PVC-Nylon/PVC, 12 Conductor 14AWG (7x22) Bare Copper, PVC-NYL Insulation E2 Color Code, Black PVC Outer Jacket, 600V TC-ER 150V NPLF 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)	12	14 AWG	7x22	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.019 in (0.48 mm)	0.112 in (2.84 mm)	Black, Red, Blue, Orange, Yellow, Brown, Red/Black, Blue/Black, Orange/Black, Yellow/Black, Brown/Black, Black/Red

Outer Shield

Material
No Shield

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.063 in (1.6 mm)	0.591 in (15.0 mm)	Yes

Overall Cable Diameter (Nominal):	0.591 in (15.0 mm)
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Electrical Characteristics

Electricals

Nom. Conductor DCR	Max. Current
2.67 Ohm/1000ft	12.5 Amps per Conductor at 30°C

Voltage

UL Voltage Rating
600 V (TC-ER), 150 V (NPLF)

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.
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2.364 in (60.05 mm) | 2.955 in (75.06 mm)

Max. Pull Tension: 655 lbs (297 kg)

Bulk Cable Weight: 267 lbs/1000ft

Standards and Compliance

Environmental Suitability: Indoor, Outdoor, Sunlight Resistance, UV Resistance, Burial

Flammability / Reaction to Fire: UL 1685 UL Loading, IEEE 1202 FT4

NEC / UL Compliance: Article 336, Article 310, Article 760, NPLF, 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: 0.592 Revision Date: 02-03-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
28090A 0105000	Black	Reel	5,000 ft	612825135234	C Z
28090A 01010000	Black	Reel	10,000 ft	612825135227	C Z

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