BELDEN

Product: 28090AS ⧉

TC VN/PVC, 12 C #14 Str BC, PVC-NYL Ins E2, OS, 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, Overall Beldfoil® Shield, 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

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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

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Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	14 AWG (7x22) TC

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Tape	Bi-Laminate (Alum+Poly)	100%	14 AWG (7x22) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.063 in (1.6 mm)	0.595 in (15.1 mm)	Yes

Outer Jacket

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PVC - Polyvinyl Chloride	0.063 in (1.6 mm)	0.595 in (15.1 mm)	Yes

Overall Cable Diameter (Nominal):	0.595 in (15.1 mm)

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Electrical Characteristics

Electricals

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

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Voltage

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

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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

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90°C Dry, 90°C Wet	Wet/Dry: -30°C to 90°C

Bend Radius

Stationary Min.	Installation Min.
7.14 in (181 mm)	7.14 in (181 mm)

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7.14 in (181 mm)	7.14 in (181 mm)

Max. Pull Tension:	709.8 lbs (322.0 kg)
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Bulk Cable Weight:	285 lbs/1000ft
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Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance, Burial
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Flammability / Reaction to Fire:	UL 1685 UL Loading, IEEE 1202 FT4
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NEC / UL Compliance:	Article 336, Article 310, Article 760, NPLF, TC-ER, THWN-2
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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)
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History

Update and Revision:	Revision Number: 0.394 Revision Date: 08-16-2024
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
28090AS 0105000	Black	Reel	5,000 ft	612825135241	C Z

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28090AS 0105000	Black	Reel	5,000 ft	612825135241	C Z

Mouser Electronics

Authorized Distributor

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