



Product: [28160A](#)

TC VN/PVC, 4+G C #2+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, 4+G Conductor 2+6AWG (7x10+7x14) 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
Suitable Applications:	Power and Control Applications up to 600V; Class 1 Division 2 Hazardous Locations; Recommended Cable Gland Belden BTC125A1271RA

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	4	2	7x10	BC - Bare Copper
Ground	1	6	7x14	BC - Bare Copper

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	4	2	7x10	BC - Bare Copper
Ground	1	6	7x14	BC - Bare Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
PVC/Nylon - Polyvinyl Chloride + Nylon	0.042 in (1.1 mm)	0.367 in (9.32 mm)	Black and Numbered

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
PVC/Nylon - Polyvinyl Chloride + Nylon	0.042 in (1.1 mm)	0.367 in (9.32 mm)	Black and Numbered

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.083 in (2.1 mm)	1.106 in (28.09 mm)	Yes

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.083 in (2.1 mm)	1.106 in (28.09 mm)	Yes

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	0.16 Ohm/1000ft	104 Amps per Conductor at 30°C
Ground	0.4 Ohm/1000ft (1.3 Ohm/km)	78 Amps per Conductor at 25°C

Electricals

Element	Nom. Conductor DCR	Max. Current
---------	--------------------	--------------

Conductor(s)	0.16 Ohm/1000ft	104 Amps per Conductor at 30°C
Ground	0.4 Ohm/1000ft (1.3 Ohm/km)	78 Amps per Conductor at 25°C

Voltage

UL Voltage Rating
600 V (TC-ER)

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

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
5.5 in (140 mm)	5.5 in (140 mm)

Bend Radius

Stationary Min.	Installation Min.
5.5 in (140 mm)	5.5 in (140 mm)

Max. Pull Tension:	3496.3 lbs (1585.9 kg)
Max. Pull Tension:	3496.3 lbs (1585.9 kg)
Bulk Cable Weight:	1211 lbs/1000ft
Bulk Cable Weight:	1211 lbs/1000ft

Standards and Compliance

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

History

Update and Revision:	Revision Number: 0.625 Revision Date: 08-23-2024
Update and Revision:	Revision Number: 0.625 Revision Date: 08-23-2024

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
28160A 0105000	Black	Reel	5,000 ft	612825135630	C Z

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
28160A 0105000	Black	Reel	5,000 ft	612825135630	C Z

© 2024 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.