Belden



Product: 28119C

TC XLPE/PVC, 12 C #12 Str BC, XLPE Ins E2, Blk PVC Jkt, 600/1000V TC-ER 90C Dry/Wet SUN RES DIR BUR

Product Description

UL Type TC (1277) XLPE/PVC, 12 Conductor 12AWG (7x20) Bare Copper, XLPE Insulation E2 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 600/1000V Class 1 Division 2 Hazardous Locations; Recommended Cable Gland Belden BTC075A0791RA

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	12	12 AWG	7x20	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLP, XLPO, XLPE (Thermoset)	0.031 in (0.79 mm)	0.150 in (3.81 mm)	Black and Numbered 2, Red and Numbered 2, Blue and Numbered 3, Orange and Numbered 4, Yellow and Numbered 5, Brown and Numbered 6, Red/Black and Numbered 7, Blue/Black and Numbered 8, Orange/Black and Numbered 9, Yellow/Black and Numbered 10, Brown/Black and Numbered 11, Black/Red and Numbered 12

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.063 in (1.6 mm)	0.749 in (19.0 mm)	Yes

Electrical Characteristics

Electricals

Nom. Conductor DCR	Max. Current
1.68 Ohm/1000ft	15 Amps per Conductor at 30°C

Voltage

UL Voltage Rating
600/1000 V (TC-ER, XHHW-2)

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
2.996 in (76.10 mm)	3.745 in (95.12 mm)

Max. Pull Tension:	1041.6 lbs (472.46 kg)
Bulk Cable Weight:	419 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/OutdoorDirect Burial, Indoor, Outdoor, Sunlight Resistance, UV Resistance, Burial
Flammability / Reaction to Fire:	UL 1685 UL Loading, FT4, IEEE 1202
NEC / UL Compliance:	Article 336, Article 310, TC-ER, XHHW-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: 0.62 Revision Date: 10-30-2026

© 2026 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.