



Product: [28148C](#) 

TC XLPE/PVC, 12 C #10 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 10AWG (7x18) 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 BTC075A0551RA
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Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	Nominal Diameter	No. of Conductors
Conductor(s)	10	7x18	BC - Bare Copper	0.110 in	12

Conductor Count:	12
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Insulation

Element	Material	Nominal Diameter	Nominal Wall Thickness
Conductor(s)	XLP, XLPO, XLPE (Thermoset)	0.174 in	0.030 in

Color Chart

Number	Color
1	Black and Numbered 1
2	Red and Numbered 2
3	Blue and Numbered 3
4	Orange and Numbered 4
5	Yellow and Numbered 5
6	Brown and Numbered 6
7	Red/Black and Numbered 7
8	Blue/Black and Numbered 8
9	Orange/Black and Numbered 9
10	Yellow/Black and Numbered 10
11	Brown/Black and Numbered 11
12	Black/Red and Numbered 12

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	0.888 in	0.083 in	Yes

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
1.080 Ohm/1000ft

Current

Max. Recommended Current [A]

20 Amps per Conductor at 30°C

Voltage

Description	UL Description	UL Voltage Rating	Voltage Rating [V]
Type TC	TC-ER, XHHW-2	600/1000 V	600 V RMS (Type TC)

Temperature Range

UL Temperature Rating:	90°C Dry, 90°C Wet
Operating Temperature Range:	Wet/Dry: -30°C to 90°C
Wet Temp Range:	-30°C To +90 °C
Dry Temp Range:	-30°C To +90 °C

Mechanical Characteristics

UV Resistance:	Yes
Bulk Cable Weight:	617 lbs/1000ft
Maximum Recommended Pulling Tension:	1502.7 lbs
Minimum Bend Radius During Installation:	4.44 in
Minimum Minor Axis Bend Radius:	3.55 in

Standards

NEC Articles:	Article 727, Article 310
NEC/(UL) Compliance:	TC-ER, XHHW-2

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	Yes
EU CE Mark:	Yes

Suitability

Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

CSA/C(UL) Flammability:	FT4
UL Flammability:	UL 1685 UL Loading
UL voltage rating:	600 V RMS (Type TC)

Plenum/Non-Plenum

Plenum (Y/N):	No
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History

Update and Revision:	Revision Number: 0.60 Revision Date: 10-05-2026
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