



Product: [28114C](#) 

TC XLPE/PVC, 7 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, 7 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 BTC075A0551RA
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Physical Characteristics (Overall)

Conductor

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

Conductor Count:	7
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Insulation

Element	Material	Nominal Diameter	Nominal Wall Thickness
Conductor(s)	XLP, XLPO, XLPE (Thermoset)	0.150 in	0.031 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

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.576 in	0.063 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
1.68 Ohm/1000ft

Current

Max. Recommended Current [A]
21 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:	Wet/Dry : 90°C
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:	257 lbs/1000ft
Maximum Recommended Pulling Tension:	607.6 lbs
Minimum Bend Radius During Installation:	2.88 in
Minimum Minor Axis Bend Radius:	2.30 in

Standards

NEC Articles:	Article 336, Article 310
NEC/(UL) Compliance:	TC-ER, XHHW-2

Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor, Direct Burial
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
IEEE Flammability:	IEEE 1202
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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