



Product: [28116C](#) 

TC XLPE/PVC, 9 C #12 Str BC, XLPE Ins E2, Blk PVC Jkt, 600V TC-ER 90C
Dry/Wet SUN RES DIR BUR

Product Description

UL Type TC (1277) XLPE/PVC, 9 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
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Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	12	7x20	BC - Bare Copper	9

Conductor Count:	9
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Insulation

Element	Material	Nominal Diameter	Nominal Wall Thickness
Conductor(s)	XLP, XLPO, XLPE (Thermoset)	0.150 in	0.030 in

Color Chart

Color
Black and Numbered 1
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

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.669 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

UL Description	UL Voltage Rating	Voltage Rating [V]
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

Mechanical Characteristics

UV Resistance:	Yes
Bulk Cable Weight:	325 lbs/1000ft
Maximum Recommended Pulling Tension:	781.2 lbs
Minimum Bend Radius During Installation:	3.345 in
Minimum Minor Axis Bend Radius:	2.68 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
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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: 0.55 Revision Date: 10-05-2026
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