



Product: [28103C](#) 

TC XLPE/PVC, 25 C #14 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, 25 Conductor 14AWG (7x22) 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)	14	7x22	BC - Bare Copper	25

Conductor Count:	25
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Insulation

Element	Material	Nominal Diameter	Nominal Wall Thickness
Conductor(s)	XLP, XLPO, XLPE (Thermoset)	0.133 in	0.030 in

Color Chart

Color
Black
Red
Blue
Orange
Yellow
Brown

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	0.988 in	0.085 in	Yes

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
2.7 Ohm/1000ft

Current

Max. Recommended Current [A]
11 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:	627 lbs/1000ft
Maximum Recommended Pulling Tension:	1365 lbs
Minimum Bend Radius During Installation:	4.94 in
Minimum Minor Axis Bend Radius:	3.84 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, LSOH, 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)

History

Update and Revision:	Revision Number: 0.58 Revision Date: 10-06-2026
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