



Product: <u>U03101G</u> ☑

TC-ER XLPE/LSZH, 3+G C #10 Str BC, XLPE Ins E1, 1 #10 Grnd, Blk LSZH Jkt, 600V TC-ER 90C Dry/Wet SUN RES

Product Description

UL Type TC (1277) XLPE/LSZH, 3+G Conductor 10 AWG (7x18) Bare Copper, XLPE Insulation E1 Color Code, 1 10AWG (7x18) Ground Wire, Black LSZH Outer Jacket, 600V TC-ER 90C Dry/Wet SUN RES

Technical Specifications

Product Overview

	harsh environment digital and serial two-way communication, oil and gas extraction and refining sites, petrochemical, Profibus process automation or Foundation FieldBus
	process automation, extreme temperature environments, exposure to humidity/moisture, dust, and oil, remote locations long distance applications, etc.

Physical Characteristics (Overall)

Conductor

Insulation

Material	Nominal Diameter	Nominal Wall Thickness
XLP, XLPO, XLPE (Thermoset)	0.174 in	0.031 in
No Insulation		

Color Chart

Number	Color
1	Black
2	White
3	Red

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.509 in	0.067 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
1.04 Ohm/1000ft

Current

Max. Recommended Current [A]
40 Amps per Conductor at 30°C

Voltage

UL D	escription	UL Voltage Rating	Voltage Rating [V]
TC		600 V RMS (Type TC)	600 V RMS (Type TC)

Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	220 lbs/1000ft
Max. Pull Tension:	249 lbs
Min. Bend Radius/Minor Axis:	2.04 in

Standards

C/(UL) Compliance:	TC-ER, XHHW-2

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	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:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes

Suitability

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

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
IEEE Flammability:	1202
UL voltage rating:	600 V RMS (Type TC)

Related Part Numbers

Variants

Item #	Put-Up Type
U03101G 0105000	Reel

History

Update and Revision:	Revision Number: 0.52 Revision Date: 01-10-2024

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