

# Product: <u>U03102</u> ☑

IMAGE COMING SOON

# TC-ER XLPE/LSZH, 3 C #10 Str BC, XLPE Ins E2, Blk CPE Jkt, 600V TC-ER 90C Dry/Wet SUN RES

# **Product Description**

UL Type TC (1277) XLPE/LSZH, 3 Conductor 10 AWG (7x18) Bare Copper, XLPE Insulation E2 Color Code, Black LSZH Outer Jacket, 600V TC-ER 90C Dry/Wet SUN RES

# **Technical Specifications**

#### **Product Overview**

Suitable Applications:	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.
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# **Physical Characteristics (Overall)**

#### Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	10	7x18	BC - Bare Copper	3
Conductor Count:			3	

#### Insulation

Material	Nominal Diameter	Nominal Wall Thickness
XLP, XLPO, XLPE (Thermoset)	0.174 in	0.031 in

#### Color Chart

Number	Color
1	Black
2	Red
3	Blue

#### 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
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#### Nominal Conductor DCR

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1.04 Ohm/1000ft
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# Current

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

#### Voltage

UL Description	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:	184 lbs/1000ft
Max. Pull Tension:	249 lbs
Min. Bend Radius/Minor Axis:	2.04 in

# Standards

NEC/(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
U03102 0102500	Reel

#### **History**

Update and Revision: Revision Number: 0.51 Revision Date: 01-10-2024

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