



**Product:** <u>U04102</u> ☑

TC-ER XLPE/LSZH, 4 C #10 Str BC, XLPE Ins E2, Blk LSZH Jkt, 600V TC-ER 90C Dry/Wet SUN RES

# **Product Description**

UL Type TC (1277) XLPE/LSZH, 4 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.

### **Physical Characteristics (Overall)**

#### Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	10	7x18	BC - Bare Copper	4
Conductor Co	ount:		4	

### 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
4	Orange

### Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.554 in	0.067 in

### **Electrical Characteristics**

#### **Conductor DCR**

Nominal Conductor DCR
1.04 Ohm/1000ft

## Current

Max. Recommended Current [A] 32 Amps per Conductor at 30°C

## Voltage

<b>UL Description</b>	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:	232 lbs/1000ft
Max. Pull Tension:	332 lbs
Min. Bend Radius/Minor Axis:	2.22 in

#### **Standards**

pliance: TC-ER, XHHW-2	
onipliance. To-Lix, All IIV-2	C/(UL) Compliance:

### **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)

## History

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

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