



Product: [U09142](#)

TC-ER XLPE/LSZH, 9 C #14 Str BC, XLPE Ins E2, Blk LSZH Jkt, 600V TC-ER 90C Dry/Wet SUN RES

Product Description

UL Type TC (1277) XLPE/LSZH, 9 Conductor 14AWG (7x22) Bare Copper, XLPE Insulation E2 Color Code, Black LSZH Outer Jacket, 600V TC-ER 90C Dry/Wet SUN RES

Technical Specifications

Physical Characteristics (Overall)

Conductor

| Element | AWG | Stranding | Material | No. of Conductors |
|--------------|-----|-----------|------------------|-------------------|
| Conductor(s) | 14 | 7x22 | BC - Bare Copper | 9 |

| | |
|------------------|---|
| Conductor Count: | 9 |
|------------------|---|

Insulation

| Material | Nominal Diameter | Nominal Wall Thickness |
|-----------------------------|------------------|------------------------|
| XLP, XLPO, XLPE (Thermoset) | 0.133 in | 0.031 in |

Color Chart

| Number | Color |
|--------|--------------|
| 1 | Black |
| 2 | Red |
| 3 | Blue |
| 4 | Orange |
| 5 | Yellow |
| 6 | Brown |
| 7 | Red/Black |
| 8 | Blue/Black |
| 9 | Orange/Black |

Outer Jacket

| Material | Nominal Diameter | Nominal Wall Thickness |
|---|------------------|------------------------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 0.644 in | 0.083 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR |
|-----------------------|
| 2.52 Ohm/1000ft |

Current

| Max. Recommended Current [A] |
|---------------------------------|
| 12.5 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 Temp Range: | -30°C To +90°C |
| Wet Temp Range: | -30°C To +90 °C |

Mechanical Characteristics

| | |
|------------------------------|----------------|
| Bulk Cable Weight: | 268 lbs/1000ft |
| Max. Pull Tension: | 290 lbs |
| Min. Bend Radius/Minor Axis: | 2.58 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 |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-04-01 |

Suitability

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

Flammability, LSOH, Toxicity Testing

| | |
|--------------------|---------------------|
| UL Flammability: | UL1685 UL Loading |
| CSA Flammability: | FT4 |
| IEEE Flammability: | 1202 |
| UL voltage rating: | 600 V RMS (Type TC) |

History

| | |
|----------------------|---|
| Update and Revision: | Revision Number: 0.47 Revision Date: 12-15-2021 |
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