



Product: [47148QS](#)

TC XLPE/CPE, 12 C #10 Str BC, XLPE Ins, E1, OS, Blk CPE Jkt, 600V TC 90C Dry/Wet SUN RES

Product Description

UL Type TC (1277) XLPE/CPE, 12 Conductor 10AWG (7x18) Bare Copper, XLPE Insulation, E1 Color Code, Beldfoil® shield (100% coverage) with drain wire, Black CPE Outer Jacket, 600V TC 90C Dry 75C Wet SUN RES

Technical Specifications

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | No. of Conductors |
|-----|-----------|------------------|-------------------|
| 10 | 7x18 | BC - Bare Copper | 12 |

| | |
|------------------|----|
| Conductor Count: | 12 |
|------------------|----|

Insulation

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

Color Chart

| Number | Color |
|-------------------|----------------------------------|
| 1 | Black |
| 2 | White |
| 3 | Red |
| 4 | Green |
| 5 | Orange |
| 6 | Blue |
| Conductors 7 - 11 | Same as 1, 3 - 6 w/ Black Stripe |
| Conductor 12 | Same as 1 w/ White Stripe |

Outer Shield Material

| Type | Material | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG |
|------|-------------------------|---------------------|--------------|--------------------|---------------|
| Tape | Bi-Laminate (Alum+Poly) | Beldfoil® | 100% | TC - Tinned Copper | 10 |

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------------|------------------|------------------------|
| CPE - Chlorinated Polyethylene | 0.892 in | 0.083 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR |
|-----------------------|
| 1.04 Ohm/1000ft |

Current

| Max. Recommended Current [A] |
|-------------------------------|
| 20 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: | 654 lbs/1000ft |
| Max. Pull Tension: | 996 lbs |
| Min Bend Radius/Minor Axis: | 8.9 in |

Standards

| | |
|----------------------|------------|
| NEC/(UL) Compliance: | TC, 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 II): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU: | 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: 0.34 Revision Date: 02-16-2021 |
|----------------------|---|

© 2021 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.