



**Product:** [28141C](#) 

TC XLPE/PVC, 5 C #10 Str BC, XLPE Ins E2, Blk PVC Jkt,600/1000V TC-ER  
90C Dry/Wet SUN RES DIR BUR

## Product Description

UL Type TC (1277) XLPE/PVC, 5 Conductor 10AWG (7x18) Bare Copper, XLPE Insulation E2 Color Code, Black PVC Outer Jacket, 600V TC-ER 90C Dry/Wet SUN RES DIR BUR

## Technical Specifications

### Product Overview

|                        |                                                                                                                                     |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Applications: | Power and Control Applications up to 600/1000V Class 1 Division 2 Hazardous Locations; Recommended Cable Gland Belden BTC075A0791RA |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------|

### Physical Characteristics (Overall)

#### Conductor

| Element      | AWG | Stranding | Material         | No. of Conductors |
|--------------|-----|-----------|------------------|-------------------|
| Conductor(s) | 10  | 7x18      | BC - Bare Copper | 5                 |

|                  |   |
|------------------|---|
| Conductor Count: | 5 |
|------------------|---|

#### Insulation

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

#### Color Chart

| Number | Color  |
|--------|--------|
| 1      | Black  |
| 2      | Red    |
| 3      | Blue   |
| 4      | Orange |
| 5      | Yellow |

#### Outer Jacket

| Material                 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.596 in         | 0.063 in               |

### Electrical Characteristics

#### Conductor DCR

| Nominal Conductor DCR |
|-----------------------|
| 1.06 Ohm/1000ft       |

#### Current

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

#### Voltage

| Description | UL Description | UL Voltage Rating | Voltage Rating [V]  |
|-------------|----------------|-------------------|---------------------|
| Type TC     | TC-ER, XHHW-2  | 600/1000 V        | 600 V RMS (Type TC) |

### Temperature Range

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

Mechanical Characteristics

|                                          |                |
|------------------------------------------|----------------|
| UV Resistance:                           | Yes            |
| Bulk Cable Weight:                       | 297 lbs/1000ft |
| Maximum Recommended Pulling Tension:     | 784 lbs        |
| Minimum Bend Radius During Installation: | 2.98 in        |
| Minimum Minor Axis Bend Radius:          | 2.38 in        |

Standards

|                      |                          |
|----------------------|--------------------------|
| NEC Articles:        | Article 336, Article 310 |
| NEC/(UL) Compliance: | TC-ER, XHHW-2            |

Applicable Environmental and Other Programs

|                                              |                               |
|----------------------------------------------|-------------------------------|
| Environmental Space:                         | Indoor/Outdoor, Direct Burial |
| EU Directive 2000/53/EC (ELV):               | 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:                     | Yes                           |
| EU CE Mark:                                  | Yes                           |

Suitability

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

Flammability, LS0H, Toxicity Testing

|                         |                     |
|-------------------------|---------------------|
| CSA/C(UL) Flammability: | FT4                 |
| UL Flammability:        | UL 1685 UL Loading  |
| IEEE Flammability:      | IEEE 1202           |
| UL voltage rating:      | 600 V RMS (Type TC) |

Plenum/Non-Plenum

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

History

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Update and Revision: | Revision Number: 0.58 Revision Date: 10-05-2026 |
|----------------------|-------------------------------------------------|

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