



**Product:** [P03064BF](#) 

TC-ER EPR(EPCV)/CPE, 3+G C #6+8 Str BC, EPCV Ins , Blk CPE Jkt,  
600/1000V TC-ER 90C Dry/Wet SUN RES DIR BUR,OIL RES I/II,FT4

## Product Description

TYPE TC-ER: 3 CONDUCTORS - 6 AWG TINNED CU CONDUCTORS WITH EPR(EPCV) VW-1 INSULATION, 8 AWG TINNED COPPER GROUND, FR FILLER REQUIRED, CPE JACKET.

## Technical Specifications

### Product Overview

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

### Physical Characteristics (Overall)

#### Conductor

| Element      | AWG | Material         | No. of Conductors |
|--------------|-----|------------------|-------------------|
| Conductor(s) | 6   | BC - Bare Copper | 3                 |
|              | 8   |                  | 1                 |

#### Insulation

| Material                                | Nominal Diameter | Nominal Wall Thickness |
|-----------------------------------------|------------------|------------------------|
| EPR or EPCV - Ethylene Propylene Rubber | 0.272 in         | 0.046 in               |
| No Insulation                           |                  |                        |

#### Outer Jacket

| Material                       | Nominal Diameter | Nominal Wall Thickness | Ripcord |
|--------------------------------|------------------|------------------------|---------|
| CPE - Chlorinated Polyethylene | 0.711 in         | 0.063 in               | Yes     |

### Electrical Characteristics

#### Conductor DCR

| Nominal Conductor DCR |
|-----------------------|
| 0.41 ohms/1000ft      |

#### Current

| Max. Recommended Current [A]  |
|-------------------------------|
| 75 Amps per Conductor at 30°C |

#### Voltage

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

### Temperature Range

|                              |                        |
|------------------------------|------------------------|
| UL Temperature Rating:       | 90°C Dry, 90°C Wet     |
| Operating Temperature Range: | Wet/Dry: -40°C to 90°C |
| Dry Temp Range:              | -30°C To +90 °C        |

### Mechanical Characteristics

|                                      |                |
|--------------------------------------|----------------|
| Bulk Cable Weight:                   | 424 lbs/1000ft |
| Maximum Recommended Pulling Tension: | 792 lbs        |

|                                          |        |
|------------------------------------------|--------|
| Minimum Bend Radius During Installation: | 2.8 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 - Burial:              | Yes |
| Suitability - Indoor:              | Yes |
| Suitability - Oil Resistance:      | Yes |
| Suitability - Outdoor:             | Yes |
| Suitability - Sunlight Resistance: | Yes |

Flammability, LS0H, Toxicity Testing

|                  |                    |
|------------------|--------------------|
| UL Flammability: | UL 1685 UL loading |
|------------------|--------------------|

History

|                      |                                                |
|----------------------|------------------------------------------------|
| Update and Revision: | Revision Number: 0.5 Revision Date: 10-08-2026 |
|----------------------|------------------------------------------------|

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