



Product: [A03122J](#)

TC VN/PVC, 3+G C #12+12 Str BC, PVC-NYL Ins E2, Blk PVC Jkt, 600V  
TC-ER 90C Dry/Wet SUN RES DIR BUR

Product Description

UL Type TC (1277) PVC-Nylon/PVC, 3+G Conductor 12+12AWG (7x20) Bare Copper, PVC-NYL 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 600V |
|------------------------|---|

Construction Details

Conductor

| Element      | No. of Elements | Size   | Stranding | Material         |
|--------------|-----------------|--------|-----------|------------------|
| Conductor(s) | 3               | 12 AWG | 7x20      | BC - Bare Copper |
| Ground Wire  | 1               | 12 AWG | 7x20      | BC - Bare Copper |

Insulation

| Element      | Material                               | Nom. Thickness     | Nom. Insulation Diameter | Color Code    |
|--------------|--|--------------------|--------------------------|---------------|
| Conductor(s) | PVC/Nylon - Polyvinyl Chloride + Nylon | 0.019 in (0.48 mm) | 0.131 in (3.33 mm)       | ICEA Chart E2 |
| Ground Wire  | PVC/Nylon - Polyvinyl Chloride + Nylon | 0.019 in (0.48 mm) | 0.131 in (3.33 mm)       | Green         |

Outer Shield

| Material  |
|-----------|
| No Shield |

Outer Jacket

| Material                 | Nom. Thickness    | Nom. Diameter | Ripcord |
|--------------------------|-------------------|---------------|---------|
| PVC - Polyvinyl Chloride | 0.047 in (1.2 mm) | 0.408 in      | Yes     |

|                                   |          |
|-----------------------------------|----------|
| Overall Cable Diameter (Nominal): | 0.408 in |
|-----------------------------------|----------|

Electrical Characteristics

Electricals

| Element      | Nom. Conductor DCR            | Max. Current                  |
|--------------|-------------------------------|-------------------------------|
| Conductor(s) | 1.72 Ohm/1000ft               | 30 Amps per Conductor at 30°C |
| Ground Wire  | 1.72 Ohm/1000ft (5.64 Ohm/km) | 30 Amps per Conductor at 30°C |

Voltage

| UL Voltage Rating |
|-------------------|
| 600 V             |

Mechanical Characteristics

Temperature

| UL Temperature     | Operating                   |
|--------------------|-----------------------------|
| 90°C Dry, 90°C Wet | -30°C To +90°C Wet/90°C Dry |

Bend Radius

| Stationary Min.   | Installation Min. |
|-------------------|-------------------|
| 1.63 in (41.4 mm) | 2.04 in           |

|                    |                      |
|--------------------|----------------------|
| Max. Pull Tension: | 347.2 lbs (157.5 kg) |
| Bulk Cable Weight: | 136 lbs/1000ft       |

Standards and Compliance

|                                  |   |
|----------------------------------|---|
| Environmental Suitability:       | Indoor, Outdoor, Sunlight Resistance, UV Resistance, Burial   |
| Sustainability:                  | CA Prop 65  |
| Flammability / Reaction to Fire: | UL 1685 UL Loading, IEEE 1202 FT4   |
| NEC / UL Compliance:             | Article 310, Article 336, TC-ER, THWN-2   |
| European Directive Compliance:   | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)   |

History

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.60 Revision Date: 12-22-2023 |
|----------------------|---|

Part Numbers

Variants

| Item #          | Putup Type |
|-----------------|------------|
| A03122J 0105000 | Reel       |
| A03122J01010000 | Reel       |
| A03122J01020000 | Reel       |

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