Belden



# Product: 21550

TC-CIC 600V, 2+G C #12 AWG BC, XLPE Ins, Blk PVC Jkt, 90C Dry/Wet CSA HL SUN RES DIR BUR

## Product Description

Two 12 AWG stranded (7x20) bare copper conductors plus ground wire, cross-linked polyethylene insulation, PVC jacket.

## Technical Specifications

### Product Overview

| | |
|---|---|
| Suitable Applications: | CEC Power and Control Applications |

### Construction Details

**Conductor**

| Element | No. of Elements | Size | Stranding | Material |
|---|---|---|---|---|
| Conductor(s) | 2 | 12 AWG | 7x20 | BC - Bare Copper |
| Ground Wire | 1 | 14 AWG | 7x22 | BC - Bare Copper |

**Insulation**

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|---|---|---|---|---|
| Conductor(s) | XLP, XLPO, XLPE (Thermoset) | 0.032 in (0.81 mm) | 0.150 in (3.81 mm) | Black, White |
| Ground Wire | XLP, XLPO, XLPE (Thermoset) | 0.030 in (0.76 mm) | 0.150 in (3.81 mm) | Green |

**Outer Shield**

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

**Outer Jacket**

| Material | Nom. Thickness | Nom. Diameter | Ripcord |
|---|---|---|---|
| PVC - Polyvinyl Chloride | 0.057 in (1.4 mm) | 0.421 in | Yes |

| | |
|---|---|
| Overall Cable Diameter (Nominal): | 0.421 in |

### Electrical Characteristics

**Electricals**

| Element | Nom. Conductor DCR | Max. Current |
|---|---|---|
| Conductor(s) | 1.6 Ohm/1000ft (5.2 Ohm/km) | 30 Amps per Conductor at 30ºC |
| Ground Wire | | |

**Voltage**

| Voltage Rating |
|---|
| 600 V (CSA TC) |

### Mechanical Characteristics

**Temperature**

| UL Temperature | Operating | Installation |
|---|---|---|
| 90°C Dry, 90°C Wet | Wet/Dry: -40°C to 90°C | -25°C To +90 |

**Bend Radius**

| Stationary Min. | Installation Min. |
|---|---|
| 1.684 in (42.77 mm) | 2.105 in |

| | |
|---|---|
| Max. Pull Tension: | 228 lbs (103 kg) |
| Bulk Cable Weight: | 111 lbs/1000ft (165 kg/km) |

## Standards and Compliance

| | |
|---|---|
| Environmental Suitability: | Indoor, Outdoor, Sunlight Resistance, UV Resistance, Burial |
| Flammability / Reaction to Fire: | FT4 |
| AWM Compliance: | C22.2#230 Type TC, C22.2#239 Type CIC |
| CEC / C(UL) Compliance: | TC, CIC |
| 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

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|---|---|
| Update and Revision: | Revision Number: 0.177 Revision Date: 10-07-2026 |

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