

## 27150A Multi-Conductor - 600V Type TC Cable

For more Information  
please call

1-800-Belden1



### General Description:

8 AWG multi-conductor stranded (7x16) bare copper conductors, 10 AWG bare copper ground wire, PVC/Nylon insulation, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 3            | 8   | 7x16      | BC - Bare Copper   |

Total Number of Conductors: 3

#### Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 10

Ground Wire Stranding: 7x18

Ground Wire Conductor Material: BC - Bare Copper

#### Insulation

Insulation Material:

| Insulation Material                  |
|--------------------------------------|
| PVC/Nylon - Polyvinyl Chloride/Nylon |

#### Outer Shield

Outer Shield Material:

| Outer Shield Material |
|-----------------------|
| Unshielded            |

#### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material    | Nom. Wall Thickness (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | 0.063                     |

#### Overall Cable

Overall Cabling Color Code Chart:

| Color              |
|--------------------|
| BLACK AND NUMBERED |

Overall Nominal Diameter: 0.595 in.

### Mechanical Characteristics (Overall)

Wet Temperature Range: -30°C To +75°C

Dry Temperature Range: -30°C To +90°C

Bulk Cable Weight: 286 lbs/1000 ft.

Max. Recommended Pulling Tension: 576 lbs.

Min. Bend Radius/Minor Axis: 6 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC(UL) Specification: TC, THHN/THWN Singles

EU Directive 2011/65/EU (ROHS II): Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 04/01/2005

EU Directive 2002/96/EC (WEEE): Yes

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|                                   |                    |
|-----------------------------------|--------------------|
| EU Directive 2003/11/EC (BFR):    | Yes                |
| CA Prop 65 (CJ for Wire & Cable): | Yes                |
| MIL Order #39 (China RoHS):       | Yes                |
| Other Specification:              | S-95-658, S-61-402 |

### Flame Test

|                   |                   |
|-------------------|-------------------|
| UL Flame Test:    | UL1685 UL Loading |
| C(UL) Flame Test: | FT4               |

### Suitability

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

### Plenum/Non-Plenum

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

## Electrical Characteristics (Overall)

### Nom. Conductor DC Resistance:

**DCR @ 20°C (Ohm/1000 ft)**

.64

### Max. Operating Voltage - UL:

**Voltage**

600 V RMS

### Max. Recommended Current:

**Current**

55 Amps per conductor @ 25°C

## Put Ups and Colors:

| Item #         | Putup    | Ship Weight  | Color | Notes | Item Desc                  |
|----------------|----------|--------------|-------|-------|----------------------------|
| 27150A 0101000 | 1,000 FT | 328.000 LB   | BLACK | C     | 3 #8 PVC/NYL + #10 GRD PVC |
| 27150A 0105000 | 5,000 FT | 1,600.000 LB | BLACK | C     | 3#8 PVC/NYL PVC CABLE      |

### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2    Revision Date: 11-16-2012

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