

## 27634A Multi-Conductor - 600V Type TC Cable



For more Information  
please call

1-800-Belden1



### General Description:

12 AWG multi-conductor stranded (7x20) bare copper conductors, PVC/Nylon insulation, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 50           | 12  | 7x20      | BC - Bare Copper   |

Total Number of Conductors: 50

#### Ground Wire

Ground Wire (Y/N): N

#### 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 (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 2.032                    |

#### Overall Cable

##### Overall Cabling Color Code Chart:

| Number | Color        |
|--------|--------------|
| 1      | Black        |
| 2      | Red          |
| 3      | Blue         |
| 4      | Orange       |
| 5      | Yellow       |
| 6      | Brown        |
| 7      | Red/Black    |
| 8      | Blue/Black   |
| 9      | Orange/Black |
| 10     | Yellow/Black |
| 11     | Brown/Black  |
| 12     | Black/Red    |
| 13     | Blue/Red     |
| 14     | Orange/Red   |
| 15     | Yellow/Red   |
| 16     | Brown/Red    |
| 17     | Black/Blue   |
| 18     | Red/Blue     |
| 19     | Orange/Blue  |
| 20     | Yellow/Blue  |

|    |               |
|----|---------------|
| 21 | Brown/Blue    |
| 22 | Black/Orange  |
| 23 | Red/Orange    |
| 24 | Blue/Orange   |
| 25 | Yellow/Orange |
| 26 | Brown/Orange  |
| 27 | Black/Yellow  |
| 28 | Red/Yellow    |
| 29 | Blue/Yellow   |
| 30 | Orange/Yellow |
| 31 | Brown/Yellow  |
| 32 | Black/Brown   |
| 33 | Red/Brown     |
| 34 | Blue/Brown    |
| 35 | Orange/Brown  |
| 36 | Yellow/Brown  |
| 37 | Black         |
| 38 | Red           |
| 39 | Blue          |
| 40 | Orange        |
| 41 | Yellow        |
| 42 | Brown         |
| 43 | Red/Black     |
| 44 | Blue/Black    |
| 45 | Orange/Black  |
| 46 | Yellow/Black  |
| 47 | Brown/Black   |
| 48 | Black/Red     |
| 49 | Blue/Red      |
| 50 | Orange/Red    |

**Overall Nominal Diameter:** 33.020 mm

### Mechanical Characteristics (Overall)

|                                          |                    |
|------------------------------------------|--------------------|
| <b>Wet Temperature Range:</b>            | -30°C To +75°C     |
| <b>Dry Temperature Range:</b>            | -30°C To +90°C Dry |
| <b>Bulk Cable Weight:</b>                | 2157.890 Kg/Km     |
| <b>Max. Recommended Pulling Tension:</b> | 11565.300 N        |
| <b>Min. Bend Radius/Minor Axis:</b>      | 330.200 mm         |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                              |                                   |
|----------------------------------------------|-----------------------------------|
| <b>NEC/(UL) Specification:</b>               | TC, NPLF                          |
| <b>EU Directive 2011/65/EU (ROHS II):</b>    | Yes                               |
| <b>EU Directive 2000/53/EC (ELV):</b>        | Yes                               |
| <b>EU Directive 2002/95/EC (RoHS):</b>       | Yes                               |
| <b>EU RoHS Compliance Date (mm/dd/yyyy):</b> | 04/01/2005                        |
| <b>EU Directive 2002/96/EC (WEEE):</b>       | Yes                               |
| <b>EU Directive 2003/11/EC (BFR):</b>        | Yes                               |
| <b>CA Prop 65 (CJ for Wire &amp; Cable):</b> | Yes                               |
| <b>MII Order #39 (China RoHS):</b>           | Yes                               |
| <b>Other Specification:</b>                  | ICEA S-73-532, S-95-658, S-61-402 |

#### Flame Test

**UL Flame Test:** UL1685 UL Loading

|                  |          |
|------------------|----------|
| CSA Flame Test:  | FT4      |
| IEEE Flame Test: | 1202     |
| ICEA Flame Test: | T-29-520 |

**Plenum/Non-Plenum**

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

**Electrical Characteristics (Overall)**

**Nom. Conductor DC Resistance:**

|                            |
|----------------------------|
| <b>DCR @ 20°C (Ohm/km)</b> |
| 5.41365                    |

**Max. Operating Voltage - UL:**

|                |
|----------------|
| <b>Voltage</b> |
| 600 V RMS      |

**Max. Recommended Current:**

|                              |
|------------------------------|
| <b>Current</b>               |
| 16 Amps per conductor @ 25°C |

**Put Ups and Colors:**

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------|-------|-------------|-------|-------|-----------|
|--------|-------|-------------|-------|-------|-----------|

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