

Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



27615A Multi-Conductor - 600V Type TC Cable

For more Information
please call

1-800-Belden1



General Description:

16 AWG multi-conductor stranded (7x24) bare copper conductors, PVC/Nylon insulation, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 6 | 16 | 7x24 | BC - Bare Copper |

Total Number of Conductors: 6

Ground Wire

Ground Wire (Y/N): N

Insulation

Insulation Material:

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

Insulation Color Code Chart:

| Number | Color |
|--------|--------|
| 1 | Black |
| 2 | Red |
| 3 | Blue |
| 4 | Orange |
| 5 | Yellow |
| 6 | Brown |

Outer Shield

Outer Shield Material:

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

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 1.194 |

Overall Cable

Overall Nominal Diameter: 10.084 mm

Mechanical Characteristics (Overall)

Wet Temperature Range: -30°C To +75°C

Dry Temperature Range: -30°C To +90°C

Bulk Cable Weight: 142.867 Kg/Km

Max. Recommended Pulling Tension: 934.122 N

Min. Bend Radius/Minor Axis: 101.600 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC(UL) Specification: NPLF, TC

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

EU CE Mark: 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: | ICEA S-73-532, S-61-402 |

Flame Test

| | |
|-------------------|-------------------|
| UL Flame Test: | UL1685 UL Loading |
| C(UL) Flame Test: | FT4 |
| IEEE Flame Test: | 1202 |

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Conductor DC Resistance:

| |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 13.7802 |

Max. Operating Voltage - UL:

| |
|---------------------|
| Voltage |
| 600 V RMS (TYPE TC) |
| 1550 V RMS (NPLF) |

Max. Operating Voltage - Other:

| |
|-----------|
| Voltage |
| 600 V RMS |

Max. Recommended Current:

| |
|-----------------------------|
| Current |
| 8 Amps per conductor @ 25°C |

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|-----------------|-----------|--------------|-------|-------|-------------------|
| 27615A 01010000 | 10,000 FT | 1,090.000 LB | BLACK | C Z | 6 #16 PVC\NYL PVC |
| 27615A 0105000 | 5,000 FT | 545.000 LB | BLACK | C Z | 6 #16 PVC\NYL PVC |

Notes:

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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