

## 8466 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information  
please call

1-800-Belden1



### General Description:

18 AWG stranded (19x30) tinned copper conductors, conductors cabled, PVC insulation, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 12           | 18  | 19x30     | TC - Tinned Copper |

Total Number of Conductors: 12

#### Insulation

Insulation Material:

| Insulation Material      | Wall Thickness (mm) |
|--------------------------|---------------------|
| PVC - Polyvinyl Chloride | 0.457               |

#### Outer Shield

Outer Shield Material:

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

#### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material    | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 1.016                    |

#### Overall Cable

Overall Cabling Color Code Chart:

| Number | Color        |
|--------|--------------|
| 1      | Black        |
| 2      | White        |
| 3      | Red          |
| 4      | Green        |
| 5      | Orange       |
| 6      | Blue         |
| 7      | White/Black  |
| 8      | Red/Black    |
| 9      | Green/Black  |
| 10     | Orange/Black |
| 11     | Blue/Black   |
| 12     | Black/White  |

Overall Nominal Diameter: 10.465 mm

### Mechanical Characteristics (Overall)

|                                   |                          |
|-----------------------------------|--------------------------|
| Operating Temperature Range:      | -20°C To +60°C           |
| UL Temperature Rating:            | 60°C (UL AWM Style 2598) |
| Bulk Cable Weight:                | 168.167 Kg/Km            |
| Max. Recommended Pulling Tension: | 1334.460 N               |
| Min. Bend Radius/Minor Axis:      | 107.950 mm               |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                    |                            |
|------------------------------------|----------------------------|
| NEC/(UL) Specification:            | CMG                        |
| CEC/C(UL) Specification:           | CMG                        |
| AWM Specification:                 | UL Style 2598 (300 V 60°C) |
| EU Directive 2011/65/EU (ROHS II): | Yes                        |

## METRIC MEASUREMENT VERSION

### 8466 Multi-Conductor - Audio, Control and Instrumentation Cable

|                                       |            |
|---------------------------------------|------------|
| 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        |
| EU Directive 2003/11/EC (BFR):        | Yes        |
| CA Prop 65 (CJ for Wire & Cable):     | Yes        |
| MII Order #39 (China RoHS):           | Yes        |

#### Flame Test

|                 |                    |
|-----------------|--------------------|
| UL Flame Test:  | UL1685 FT4 Loading |
| CSA Flame Test: | FT4                |

#### Plenum/Non-Plenum

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

### Electrical Characteristics (Overall)

#### Nom. Capacitance Conductor to Conductor:

**Capacitance (pF/m)**  
85.306

#### Nom. Conductor DC Resistance:

**DCR @ 20°C (Ohm/km)**  
20.6703

#### Max. Operating Voltage - UL:

**Voltage**  
300 V RMS (UL AWM Style 2598)

#### Max. Recommended Current:

**Current**  
3.5 Amps per conductor @ 25°C

### Put Ups and Colors:

| Item #       | Putup    | Ship Weight | Color  | Notes | Item Desc      |
|--------------|----------|-------------|--------|-------|----------------|
| 8466 060100  | 100 FT   | 12.300 LB   | CHROME |       | 12 #18 PVC PVC |
| 8466 0601000 | 1,000 FT | 122.000 LB  | CHROME | C     | 12 #18 PVC PVC |
| 8466 060250  | 250 FT   | 30.250 LB   | CHROME | C     | 12 #18 PVC PVC |
| 8466 060500  | 500 FT   | 61.500 LB   | CHROME | C     | 12 #18 PVC PVC |
| 8466 0605000 | 5,000 FT | 630.000 LB  | CHROME | C Z   | 12 #18 PVC 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.

Revision Number: 3    Revision Date: 08-14-2012

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