

## 8404 Multi-Conductor - Four-Conductor Star Quad, Low-Impedance Cable



For more Information  
please call

1-800-Belden1

**General Description:**

20 AWG stranded (19x32) high-conductivity tinned copper conductors, polyethylene insulation, rayon braid, tinned copper braid shield (85% coverage), PVC jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

| # Conductors | AWG | Stranding | Conductor Material                   | Dia. (mm) |
|--------------|-----|-----------|--------------------------------------|-----------|
| 4            | 20  | 19x32     | High Conductivity TC - Tinned Copper | 0.9398    |

Total Number of Conductors: 4

**Insulation****Insulation Material:**

| Insulation Material | Wall Thickness (mm) | Dia. (mm) |
|---------------------|---------------------|-----------|
| PE - Polyethylene   | 0.4064              | 1.7526    |

**Outer Shield****Outer Shield Material:**

| Type  | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | TC - Tinned Copper    | 85           |

**Outer Jacket****Outer Jacket Material:**

| Outer Jacket Material    | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 0.8128                   |

**Overall Cable****Overall Cabling Color Code Chart:**

| Number | Color |
|--------|-------|
| 1      | Clear |
| 2      | Black |
| 3      | Red   |
| 4      | Green |

Overall Cabling Separator Material: Rayon Braid

Overall Nominal Diameter: 6.401 mm

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -20°C To +60°C

UL Temperature Rating: 60°C (UL AWM Style 2094)

Bulk Cable Weight: 68.457 Kg/Km

Max. Recommended Pulling Tension: 444.820 N

Min. Bend Radius/Minor Axis: 63.500 mm

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

AWM Specification: UL Style 2094 (300 V 60°C)

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|                                       |            |
|---------------------------------------|------------|
| 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): | 01/01/2004 |
| 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: | VW-1 |
|----------------|------|

## Plenum/Non-Plenum

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

## Electrical Characteristics (Overall)

## Nom. Characteristic Impedance:

Impedance (Ohm)

45

## Nom. Inductance:

Inductance (μH/m)

0.6562

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

75.463

## Nom. Cap. Between Cond. in a Quad Config.:

Capacitance (pF/m)

160.769

## Nominal Velocity of Propagation:

VP (%)

66

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

33.4662

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

10.5976

## Max. Operating Voltage - UL:

Voltage

300 V RMS (UL AWM Style 2094)

## Max. Recommended Current:

Current

3.1 Amps per conductor @ 25°C

Other Electrical Characteristic 1: 2/c 17 AWG equivalent DCR when connected to a 3-pin XLR.

## Notes (Overall)

**Notes:** Quad connection scheme: The two blue wires (or wires directly opposite one another) are connected together to form one conductor, and similarly the two white wires (or remaining wires) are connected together to form the second conductor.

## Put Ups and Colors:

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

## METRIC MEASUREMENT VERSION

## 8404 Multi-Conductor - Four-Conductor Star Quad, Low-Impedance Cable

|               |        |           |        |   |                   |
|---------------|--------|-----------|--------|---|-------------------|
| 8404 060U1000 | 305 MT | 21.773 KG | CHROME |   | 4 #20 PE SHLD PVC |
| 8404 060100   | 30 MT  | 2.449 KG  | CHROME |   | 4 #20 PE SHLD PVC |
| 8404 0601000  | 305 MT | 22.226 KG | CHROME | C | 4 #20 PE SHLD PVC |
| 8404 060500   | 152 MT | 11.340 KG | CHROME | C | 4 #20 PE SHLD PVC |

**Notes:**

C = CRATE REEL PUT-UP.

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