

## 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)

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

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
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### Plenum/Non-Plenum

Plenum (Y/N):	No
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## 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
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## METRIC MEASUREMENT VERSION

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

8404 060U1000	1,000 FT	48.000 LB	CHROME		4 #20 PE SHLD PVC
8404 060100	100 FT	5.400 LB	CHROME		4 #20 PE SHLD PVC
8404 0601000	1,000 FT	49.000 LB	CHROME	C	4 #20 PE SHLD PVC
8404 060500	500 FT	25.000 LB	CHROME	C	4 #20 PE SHLD PVC

**Notes:**

C = CRATE REEL PUT-UP.

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