# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



## 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	ors AWG Stranding Conductor Material		Dia. (in.)	
4	20	19x32	High Conductivity TC - Tinned Copper	.037
Total Number o	of Cone	ductors:		

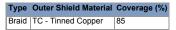
#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)	Dia. (in.)
PE - Polyethylene	.016	.069

#### **Outer Shield**

Outer Shield Material:



#### **Outer Jacket**

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.032

#### **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:
 0.252 in.

#### **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C 10 +60°C
UL Temperature Rating:	60°C (UL AWM Style 2094)
Bulk Cable Weight:	46 lbs/1000 ft.
Max. Recommended Pulling Tension:	100 lbs.
Min. Bend Radius/Minor Axis:	2.500 in.

#### **Applicable Specifications and Agency Compliance (Overall)**

### **Applicable Standards & Environmental Programs**

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

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	CA Prop 65 (CJ for Wire & Cable):	Yes
	MII Order #39 (China RoHS):	Yes
Fla	me Test	
	UL Flame Test:	VW-1
Ple	num/Non-Plenum	
	Plenum (Y/N):	No

#### **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm)
45

Nom. Inductance

Inductance (µH/ft)

Nom. Capacitance Conductor to Conductor:



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



Nominal Velocity of Propagation:

VP (%)

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 10.2

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Max. Operating Voltage - UL:

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
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	С	4 #20 PE SHLD PVC
8404 060500	500 FT	25.000 LB	CHROME	С	4 #20 PE SHLD PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 05-14-2007

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