

## 8424 Multi-Conductor - Four-Conductor Star Quad, Low-Impedance Cable



For more Information  
please call

1-800-Belden1



### General Description:

20 AWG stranded (26x34) high-conductivity tinned copper conductors, EPDM rubber insulation, rayon braid, TC braid shield (85% coverage), cotton wrap, EPDM rubber jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (in.)
4	20	26x34	High Conductivity TC - Tinned Copper	.037

Total Number of Conductors: 4

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)	Dia. (in.)
EPDM - Ethylene Propylene Diene Monomer Rubber	.023	.083

#### Outer Shield

Outer Shield Material:

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

Outer Shield Separator Material: Cotton Wrap

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
EPDM - Ethylene Propylene Diene Monomer Rubber

#### Overall Cable

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	White
3	Red
4	Green

Overall Cabling Separator Material: Rayon Braid

Overall Nominal Diameter: 0.294 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -50°C To +90°C

Non-UL Temperature Rating: 60°C

Bulk Cable Weight: 61 lbs/1000 ft.

Max. Recommended Pulling Tension: 87 lbs.

Min. Bend Radius/Minor Axis: 3 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

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
<b>Plenum/Non-Plenum</b>	
Plenum (Y/N):	No

### Electrical Characteristics (Overall)

**Nom. Characteristic Impedance:**

Impedance (Ohm)  
52

**Nom. Inductance:**

Inductance (µH/ft)  
.18

**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/ft)  
47

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

Capacitance (pF/ft)  
59

**Nominal Velocity of Propagation:**

VP (%)  
52

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)  
10.2

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)  
3.2

**Max. Operating Voltage - UL:**

Voltage  
600 V RMS

**Max. Recommended Current:**

Current  
3.2 Amps per conductor @ 25°C

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

### Notes (Overall)

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

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8424 010U500	500 FT	32.000 LB	BLACK		4 #20 EPDM SHLD EPDM
8424 010100	100 FT	6.800 LB	BLACK		4 #20 EPDM SHLD EPDM
8424 0101000	1,000 FT	64.000 LB	BLACK	C	4 #20 EPDM BRD EPDM
8424 010250	250 FT	16.750 LB	BLACK	C	4 #20 EPDM BRD EPDM
8424 010500	500 FT	32.000 LB	BLACK	C	4 #20 EPDM BRD EPDM

**Notes:**  
C = CRATE REEL PUT-UP.

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