

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



For more Information  
please call

1-800-Belden1

**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. (mm) |
|--------------|-----|-----------|--------------------------------------|-----------|
| 4            | 20  | 26x34     | High Conductivity TC - Tinned Copper | 0.9398    |

**Insulation**

Insulation Material:

| Insulation Material                            | Wall Thickness (mm) | Dia. (mm) |
|------------------------------------------------|---------------------|-----------|
| EPDM - Ethylene Propylene Diene Monomer Rubber | 0.5842              | 2.1082    |

**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                          | Nom. Wall Thickness (mm) |
|------------------------------------------------|--------------------------|
| EPDM - Ethylene Propylene Diene Monomer Rubber | 0.9144                   |

**Overall Cabling**

Overall Cabling Color Code Chart:

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

Overall Cabling Separator Material: Rayon Braid

Overall Nominal Diameter: 7.468 mm

**Mechanical Characteristics (Overall)**

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

Non-UL Temperature Rating: 60°C

Bulk Cable Weight: 90.780 Kg/Km

Max. Recommended Pulling Tension: 386.993 N

Min. Bend Radius (Install)/Minor Axis: 74.930 mm

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

EU CE Mark: Yes

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

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 &amp; Cable): Yes

MIL Order #39 (China RoHS): Yes

## Plenum/Non-Plenum

Plenum (Y/N): No

## Electrical Characteristics (Overall)

## Nom. Characteristic Impedance:

Impedance (Ohm)

52

## Nom. Inductance:

Inductance (μH/m)

0.59058

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

154.207

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

Capacitance (pF/m)

193.579

## Nominal Velocity of Propagation:

VP (%)

52

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

33.4662

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

10.4992

## 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.

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

| Item #       | Putup  | Ship Weight | Color | Notes | Item Desc            |
|--------------|--------|-------------|-------|-------|----------------------|
| 8424 010U500 | 152 MT | 14.515 KG   | BLACK |       | 4 #20 EPDM SHLD EPDM |

## METRIC MEASUREMENT VERSION

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

|              |        |           |       |   |                      |
|--------------|--------|-----------|-------|---|----------------------|
| 8424 010100  | 30 MT  | 3.084 KG  | BLACK |   | 4 #20 EPDM SHLD EPDM |
| 8424 0101000 | 305 MT | 29.030 KG | BLACK | C | 4 #20 EPDM BRD EPDM  |
| 8424 010250  | 76 MT  | 6.917 KG  | BLACK | C | 4 #20 EPDM BRD EPDM  |
| 8424 010500  | 152 MT | 13.835 KG | BLACK | C | 4 #20 EPDM BRD EPDM  |

**Notes:**

C = CRATE REEL PUT-UP.

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

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