

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

Total Number of Conductors: 4

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
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: 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/Minor Axis: 76.200 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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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

Plenum/Non-Plenum

Plenum (Y/N):	No
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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.

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

METRIC MEASUREMENT VERSION

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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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