

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

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. (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	Nom. Wall Thickness (in.)
EPDM - Ethylene Propylene Diene Monomer Rubber	.036

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

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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/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

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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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