

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



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

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 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: 0.294 in.

Mechanical Characteristics (Overall)

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

Non-UL Temperature Rating: 60°C

Bulk Cable Weight: 56.600 lbs/1000 ft.

Max. Recommended Pulling Tension: 87 lbs.

Min. Bend Radius (Install)/Minor Axis: 2.950 in.

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 & Cable):	Yes
MIL 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
8424 010250	250 FT	15.250 LB	BLACK	C	4 #20 EPDM BRD EPDM

ENGLISH MEASUREMENT VERSION

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

8424 010500	500 FT	30.500 LB	BLACK	C	4 #20 EPDM BRD EPDM
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Notes:

C = CRATE REEL PUT-UP.

Microphone and Musical Instrument Cable

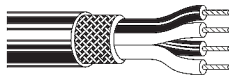
Four-Conductor Star Quad, Low-Impedance Cables†
High-Conductivity Copper



Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

28 AWG Stranded (19x40) High-conductivity Silver-plated Copper Alloy Conductors • Tinned Copper Braid Shield (78% Coverage)

Polypropylene Insulation • Matte PVC Jacket (Available in Red, Yellow, Blue, Beige or Black)

Mini Star Quad 100V RMS 60°C 	1804A	—	4	Blue/White, White/Blue	100 ▲	30.5	1.6	0.7	.006	.15	.014	.36	.115	2.92	40	131	60	197
					500 ■	152.4	4.5	2.0										

2/c 25 AWG equivalent DCR when connected to a 3-pin XLR.

▲100 ft. put-up available in Black only.

■May contain more than one piece. Min. length of any one piece is 50 ft.

One Blue conductor and one White conductor are striped for use in MIDI and other four conductor applications.

26 AWG Stranded (30x40) High-conductivity BC Conductors • TC “French Braid” Shield (95% Coverage) • BC Drain Wire

Polyethylene Insulation • Matte PVC Jacket (Available in Red, Green, Yellow, Blue, Gray or Black)

100V RMS 60°C 	1172A	—	4	Blue/White, White/Blue	500 *	152.4	13.5	6.1	.011	.28	.030	.76	.190	4.83	39	128	57	187
					1000	304.8	25.0	11.3										

2/c 23 AWG equivalent DCR when connected to a 3-pin XLR.

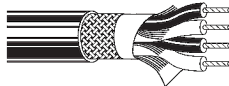
French Braid

*500 ft. put-up available in Black only.

One Blue conductor and one White conductor are striped for use in MIDI and other four conductor applications.

24 AWG Stranded (42x40) High-conductivity Bare Copper Conductors • Tinned Copper Braid Shield (95% Coverage)

Polyethylene Insulation • Matte PVC Jacket (Available in Red, Green, Yellow, Blue, Gray or Black)

100V RMS 75°C 	1192A	—	4	Blue/White, White/Blue	100 ▼	30.5	4.1	1.8	.016	.41	.045	1.14	.245	6.22	39	128	57	187			
					500 ▼	152.4	16.5	7.5													
					1000	304.8	37.0	16.8													

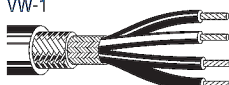
2/c 21 AWG equivalent DCR when connected to a 3-pin XLR.

▼100 ft. put-up available in Black only. 500 ft. put-up available in Blue or Black only.

One Blue conductor and one White conductor are striped for use in MIDI and other four conductor applications.

20 AWG Stranded (19x32) High-conductivity Tinned Copper Conductors • Rayon Braid • Tinned Copper Braid Shield (85% Coverage)


Polyethylene Insulation • Chrome PVC Jacket

UL AWM Style 2094 (300V RMS 60°C) VW-1 	8404	—	4	Clear, Black, Red, Green	100	30.5	5.4	2.4	.016	.41	.032	.81	.252	6.40	23	75	49	161				
					500	152.4	23.0	10.4														
					U-1000	U-304.8	48.0	21.8														
					1000	304.8	49.0	22.3														

2/c 17 AWG equivalent DCR when connected to a 3-pin XLR.

20 AWG Stranded (26x34) High-conductivity Tinned Copper Conductors • Rayon Braid • TC Braid Shield (85% Coverage) • Cotton Wrap


EPDM Rubber Insulation • Black EPDM Rubber Jacket

600V RMS 90°C 	8424	—	4	Black, White, Red, Green	100	30.5	6.8	3.1	.023	.58	.036	.91	.294	7.47	47	154	59	194				
					250	76.2	15.3	6.9														
					U-500	U-152.4	32.0	14.5														
					500	152.4	30.5	13.8														
					1000	304.8	64.0	29.1														

2/c 17 AWG equivalent DCR when connected to a 3-pin XLR.

16 AWG Stranded (65x34) High-conductivity Tinned Copper Conductors • Rayon Braid • TC Braid Shield (85% Coverage) • Cotton Wrap

EPDM Rubber Insulation • Black Neoprene Jacket

600V RMS 60°C VW-1 	8407	—	4	Black, White, Red, Green	100	30.5	11.3	5.1	.031	.79	.043	1.09	.416	10.57	30	98	66	216					
					250	76.2	28.3	12.8															

2/c 13 AWG equivalent DCR when connected to a 3-pin XLR.

BC = Bare Copper • EPDM = Ethylene Propylene Diene Monomer • TC = Tinned Copper

*Capacitance between conductors. **Nom. capacitance between conductors in a Quad configuration.

Ⓢ Not RoHS compliant at time of printing.

†**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.