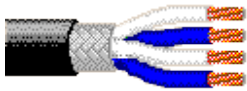


1192A Multi-Conductor - Four-Conductor Star Quad, Low-Impedance Cable



Description:

24 AWG stranded (42x40) high-conductivity bare copper conductors, polyethylene insulation, tinned copper braid shield (95% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (in.)
4	24	42x40	SBC - Soft Bare Copper	.024

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)	Dia. (in.)
PE - Polyethylene	.016	.056

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	95

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.045

Overall Cabling

Overall Cabling Color Code Chart:

Number	Color
1	Blue
2	White
3	Blue w/White Stripe
4	White w/Blue Stripe

Overall Nominal Diameter: 0.245 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +75°C
Non-UL Temperature Rating:	75°C
Bulk Cable Weight:	33 lbs/1000 ft.
Max. Recommended Pulling Tension:	21 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.450 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes

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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

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

40

Nom. Inductance:

Inductance (µH/ft)

.21

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

39.2

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

Capacitance (pF/ft)

57.4

Nominal Velocity of Propagation:

VP (%)

66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

26.6

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

7.1

Max. Operating Voltage - UL:

Voltage

100 V RMS

Max. Operating Voltage - Other:

Voltage	Description
18.0 kV	Nom. breakdown voltage between conductors
16.9 kV	Nom. breakdown voltage conductors to shield

Max. Recommended Current:

Current

2.9 Amps per conductor @ 25°C

Other Electrical Characteristic 1: 2/c 21 AWG equivalent DCR when connected to a 3-pin XLR

Notes (Overall)

Notes: 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.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1192A B59100	100 FT	4.100 LB	BLACK, MATTE		4 #24 PE SH PVC BLK MTT
1192A B591000	1,000 FT	37.000 LB	BLACK, MATTE	C	4 #24 PE SH PVC BLK MTT
1192A B59500	500 FT	16.500 LB	BLACK, MATTE	C	4 #24 PE SH PVC BLK MTT
1192A G7V1000	1,000 FT	37.000 LB	RED, MATTE	C	4 #24 PE SH PVC RED MTT

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1192A G7W1000	1,000 FT	37.000 LB	GREEN, MATTE	C	4 #24 PE SH PVC GRN MTT
1192A G7X1000	1,000 FT	37.000 LB	BLUE, MATTE	C	4 #24 PE SH PVC BLU MTT
1192A G7X500	500 FT	16.500 LB	BLUE, MATTE		4 #24 PE SH PVC BLU MTT
1192A G8M1000	1,000 FT	37.000 LB	YELLOW, MATTE		4 #24 PE SH PVC YEL MTT
1192A U901000	1,000 FT	37.000 LB	GRAY, MATTE	C	4 #24 PE SH PVC GRY MTT

Notes:

C = CRATE REEL PUT-UP.

Microphone and Musical Instrument Cable

Overview



Flexible Microphone Cables

Belden® microphone cable is used for connecting low level microphones or musical instruments. Key properties of microphone (MIC) cable are ruggedness, flexibility, flex life and interference immunity.

MIC cable constructions utilize either 1-, 2-, 3- or 4-conductor configurations. Cable selection depends on whether the MIC or instrument is of a high- or low-impedance design. High-impedance MICs require unbalanced single conductor (coaxial) cables while low-impedance MICs utilize balanced 2-, 3-, or 4-conductor (quad) designs. Quad MIC cables are connected by attaching the two white conductors to one pin and two blue conductors to the other pin in a balanced-line XLR type connector. Besides the common-mode rejection of a standard balanced line, this gives common-mode rejection at each pin, greatly reducing noise and interference.

High-conductivity Copper

All Belden microphone cables with bare copper conductors utilize only high-conductivity copper produced by a process called Electrolytic Tough Pitch (ETP). This refining process produces a copper conductor that is 99.95% pure copper resulting in high-conductivity per ASTM B115. The high purity obtained from ETP copper results in microphone cable performance that is comparable to that of oxygen-free copper cables.

- **Plastic cables recommended for:**
Lower capacitance, lower loss, greater ozone and oil resistance, lighter weight, smaller diameter.
- **Rubber cables recommended for:**
Greater abrasion and impact resistance and extra limpness so the cable will lie flat on stage or on studio floors.

Four-Conductor Star Quad Low-Impedance Cables

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.

Conductors joined in this manner lower the possibility of induced noise.

Microphone and Musical Instrument Cable

Four-Conductor Star Quad, Low-Impedance Cables†

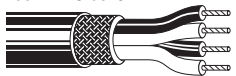
High-Conductivity Copper



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.

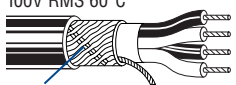
▲100 ft. put-up available in Black only.

■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,	100	30.5	5.4	2.4	.016	.41	.032	.81	.252	6.40	23	75	49	161			
				Black,	500	152.4	23.0	10.4													
				Red,	U-1000	U-304.8	48.0	21.8													
				Green	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,	100	30.5	6.8	3.1	.023	.58	.036	.91	.294	7.47	47	154	59	194			
				White,	250	76.2	15.3	6.9													
				Red,	U-500	U-152.4	32.0	14.5													
				Green	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,	100	30.5	11.3	5.1	.031	.79	.043	1.09	.416	10.57	30	98	66	216			
				White,	250	76.2	28.3	12.8													
				Red,																	
				Green																	

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.

†**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.