

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

Single-Conductor, High-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

25 AWG Stranded (7x33) Composite Copper Conductor • (3) Strands TC, (4) Strands TCCS • TC Spiral Shield (90% Coverage)

PVC Insulation • Matte Gray PVC Jacket

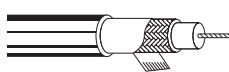
1000 VDC, 60°C **9396** — 1 N/A 250 76.2 2.8 1.3 .018 .46 .017 .43 .100 2.54 — — 75 246



25 AWG Stranded (7x33) Composite Copper Conductor† • Rayon Braid + TC Braid Shield (80% Coverage) • Cotton Serve

EPDM Rubber Insulation • Cotton Serve • Black EPDM Rubber Jacket

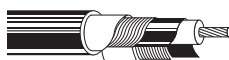
3000 VDC, 60°C **8410** — 1 N/A 500 152.4 18.5 8.4 .058 1.47 .024 .61 .245 6.22 — — 33 108



20 AWG Stranded (27x34) High-conductivity TC Conductor • Conductive Textile (100%) plus TC Spiral Shields (95% Coverage) • Paper Tape

EPDM Rubber Insulation • Black Neoprene Jacket

60°C **9394** — 1 N/A 1000 304.8 26.0 11.8 .030 .76 .033 .84 .190 4.83 — — 55 180



20 AWG Stranded (26x34) High-conductivity TC Conductor • Conductive Textile (100%) plus TC Spiral Shields (75% Coverage) • Paper Tape

EPDM Rubber Insulation • Black Neoprene Jacket

60°C **9778** — 1 N/A 1000 304.8 39.0 17.7 .040 1.02 .050 1.27 .235 5.97 — — 45 148



18 AWG Stranded (41x34) High-conductivity TC Conductor • Conductive Textile (100%) plus TC Spiral Shields (68% Coverage) • Paper Tape

EPDM Rubber Insulation • Black Neoprene Jacket

600V RMS, 60°C **9395** — 1 N/A 1000 304.8 38.0 17.2 .045 1.14 .034 .86 .235 5.97 — — 55 180



EPDM = Ethylene Propylene Diene Monomer • TC = Tinned Copper • TCCS = Tinned Copper-covered Steel

*Capacitance between conductors.

**Capacitance between center conductor and outer shield.

†(3) Strands TC, (4) Strands TCCS.

Microphone and Musical Instrument Cable

Two-Conductor, 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

24 AWG Stranded (105x44) High-conductivity Bare Copper Conductors[†] • Double Bare Copper Spiral Shield (97% Coverage)

PVC Insulation • Matte Black PVC Jacket

300V RMS 80°C	9397	—	2	White, Green	500	152.4	12.0	5.5	.012	.30	.031	.79	.176	4.47	47	154	86	283
					1000	304.8	24.0	10.9										



24 AWG Stranded (45x40) TC Alloy Conductors[†] • Conductive Textile Wrap (100% Coverage) • TC Braid Shield (56% Coverage) • Cotton Spiral

EPDM Rubber Insulation • Black EPDM Jacket

300V RMS 90°C	8413	—	2	White, Black	100	30.5	2.3	1.0	.016	.41	.017	.43	.199	5.05	30	98	55	180
					U-500	U-152.4	13.0	5.9										
					500	152.4	11.5	5.2										



24 AWG Stranded (45x40) BC Alloy Conductors[†] • Conductive Textile Wrap (100% Coverage) • TC Braid Shield (65% Coverage) • Cotton Spiral

EPDM Rubber Insulation • Brown EPDM Jacket

300V RMS 90°C	9399	—	2	Blue, Red	500	152.4	12.5	5.7	.016	.41	.020	.51	.200	5.08	30	98	55	180
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24 AWG Stranded (42x40) High-conductivity BC Conductors[†] • TC “French Braid” Shield (95% Coverage) • BC Drain Wire

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

Digital MIC Cable High-Flex 300V RMS 60°C	1800F	NEC:	2	Black,	500 *	152.4	12.0	5.5	.017	.43	.037	.94	.211	5.36	12	39	26	85
	110 Ohm	CL2R		Red	U-1000	U-304.8	26.0	11.8										
	AES/EBU				1000 *	304.8	24.0	10.9										



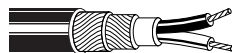
French Braid

*500 ft. and 1000 ft. put-ups available in Black only.

24 AWG Stranded (42x40) High-conductivity BC Conductors[†] • Double Bare Copper Spiral Shield (95% Coverage)

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

100V RMS 60°C	1812A	—	2	Brown, White	328 *	100.0	9.8	4.5	.012	.30	.037	.94	.213	5.41	33	108	54	177
					1000	304.8	31.0	14.1										



*328 ft. put-up not available in Green.

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

*Capacitance between conductors.

**Capacitance between one conductor and other conductors connected to shield.

†Conductors cabled with fillers.

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Datalene insulation features include a low dielectric constant and a low dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

Microphone and Musical Instrument Cable

Two-Conductor, Low-Impedance Cables

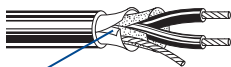
High-Conductivity Copper



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

24 AWG Stranded (19x36) HC TC Conductors • Twisted Pair • Noise Reducing Tape • Beldfoil® Shield (100% Coverage) • TC Drain Wire
High-density Polyethylene Insulation • Black PVC Jacket

200V RMS 75°C	9452	—	2	Black, Red	U-500	U-152.4	6.5	3.0	.008	.20	.020	.51	.135	3.43	30	98	58	190
					500	152.4	6.0	2.7										
					U-1000	U-304.8	12.0	5.5										
					1000	304.8	12.0	5.5										



Shorting Fold

24 AWG Stranded (27x38) High-conductivity Bare Copper Conductors • Bare Copper Spiral Shield (92% Coverage)**PVC Insulation • Black Matte PVC Jacket****22 AWG Stranded (16x34) High-conductivity Tinned Copper Conductors • Cotton Braid • Double TC Braid Shield (85% Coverage)****Polyethylene Insulation • Chrome PVC Jacket****20 AWG Stranded (26x34) High-conductivity TC Conductors • Rayon Braid • TC Braid Shield (85% Coverage) • Cotton Wrap****EPDM Rubber Insulation • EPDM Jacket (Available in Black, Red, Yellow or Blue)***

*Red, Yellow or Blue available in 1000 ft. put-up only.

EPDM Rubber Insulation • Brown Hypalon® Jacket**18 AWG Stranded (41x34) High-conductivity TC Conductors • Rayon Braid • TC Braid Shield (85% Coverage) • Cotton Wrap****EPDM Rubber Insulation • Black Neoprene Jacket****16 AWG Stranded (65x34) High-conductivity TC Conductors • Rayon Braid • Paper Wrap • TC Braid Shield (85% Coverage) • Cotton Wrap****EPDM Rubber Insulation • Brown Hypalon® Heavy-duty Jacket**

BC = Bare Copper • EPDM = Ethylene Propylene Diene Monomer • HC = High-conductivity • TC = Tinned Copper

Hypalon is a DuPont trademark.

*Capacitance between conductors. **Capacitance between one conductor and other conductors connected to shield.

BELDENFor more information, contact **Belden Technical Support: 1-800-BELDEN-1 • www.belden.com**

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Microphone and Musical Instrument Cable

Three-Conductor, 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

24 AWG Stranded (105x44) High-conductivity Bare Copper Conductors • Double Bare Copper Spiral Shield (97% Coverage)

PVC Insulation • Matte Black PVC Jacket

300V RMS 80°C **9398** — 3 White, 1000 304.8 25.0 11.4 .012 .30 .030 .76 .185 4.70 40 131 110 361



Green,
Brown

24 AWG Stranded (45x40) TC Alloy Conductors • Conductive Textile Wrap (100% Coverage) • TC Braid Shield (60% Coverage)

EPDM Rubber Insulation • Black EPDM Rubber Jacket

300V 90°C **8406** — 3 Black, 100 30.5 3.0 1.4 .016 .41 .025 .64 .223 5.66 30 98 55 180



Red,
White

24 AWG Stranded (19x32) High-conductivity Tinned Copper Conductors • Rayon Braid • TC Braid Shield (89% Coverage)

Polyethylene Insulation • Chrome PVC Jacket

600V RMS 80°C **8403** — 3 Clear, 500 152.4 20.5 9.3 .016 .41 .033 .84 .244 6.20 25 82 45 148

VW-1

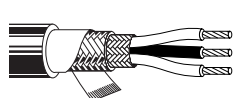


Black,
Red

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

EPDM Rubber Insulation • Black EPDM Jacket

600V RMS 90°C **8423** — 3 White, 100 30.5 6.0 2.7 .023 .58 .040 1.02 .272 6.91 30 98 55 180



Black,
Red

EPDM = Ethylene Propylene Diene Monomer • TC = Tinned Copper

*Capacitance between conductors.

**Capacitance between one conductor and other conductors connected to shield.

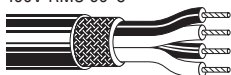
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Microphone and Musical Instrument CableFour-Conductor Star Quad, Low-Impedance Cables†
High-Conductivity Copper

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.

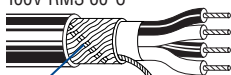
▲100 ft. put-up available in Black only.

■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										



French Braid

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

*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, Red, Green	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.

†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.

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Special Application Audio, Communication and Instrumentation Cable

Audio Connecting Cables and Dual Channel Audio Cables



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*

25 AWG Stranded (7x33) Conductor • (3) TC, (4) TCCS • Double Beldfoil® Shield (100% Coverage) • 26 AWG Stranded TC Drain Wire

FPE Insulation • Chrome PVC Jacket

Miniature 80°C	8417	—	1	—	250	76.2	3.3	1.5	.020	.51	.026	.66	.140	3.56	29	95
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25 AWG Stranded (7x33) Conductor • (3) TC, (4) TCCS • Tinned Copper Spiral Wrapped Shield (86% Coverage)

FPE Insulation • Chrome PVC Jacket

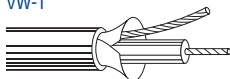
Low-Capacitance 80°C	8421	—	1	—	250	76.2	4.5	2.0	.051	1.30	.023	.58	.180	4.57	16	53
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24 AWG Uni-strand (7x32) Tinned Copper Conductor • Beldfoil Shield (100% Coverage)

Flame-retardant Polypropylene Insulation • Black PVC Jacket

UL AWM Style 1770 (300V 80°C) VW-1	9264	—	1	—	1000	304.8	14.0	6.4	.027	.69	.020	.51	.122 x .146	3.10 x 3.71	30	99
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Nominal impedance: 50 ohms.
Tear-drop, machine strippable coaxial cable.

Dual Channel • 30 AWG Stranded (7x38) TCCS Conductors • Individual Tinned Copper Spiral Wrapped Shield (85% Coverage)

FPE Insulation • Black PVC Jacket • Polarity Ribbed

Low-Capacitance 70°C	9454	—	2	—	100	30.5	3.5	1.6	.049	1.24	.020	.51	.160 x .320	4.06 x 8.13	12 each channel	39
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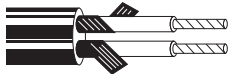


Stereo connecting cable

Dual Channel • 25 AWG Stranded (7x38) Conductors • (3) TC, (4) TCCS • Individual TC Spiral Wrapped Shield (90% Coverage)

Polyethylene Insulation • Gray PVC Jacket • Polarity Rib on Red Conductor

80°C	8416	—	2	—	250	76.2	4.8	2.2	.018	.46	.020	.51	.106 x .213	2.69 x 5.41	36 each channel	118
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For use with head sets, stereo and language labs.

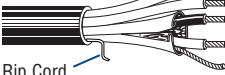
FPE = Foam Polyethylene • TC = Tinned Copper • TCCS = Tinned Copper-covered Steel

*Capacitance between conductors.

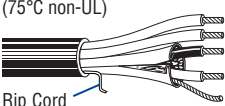
Special Application Audio, Communication and Instrumentation Cable

Multimedia Control Cables



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
22 AWG Stranded (7x30) TC Conductors (Data), STP w/Beldfoil®, TC Drain Wire • 18 AWG (16x30) TC Conductors (Power), Unshielded Pair																		
FPE Insulation (Data) • F-R PVC Insulation (Power) • F-R PVC Jacket (Available in Black, White or Aqua)																		
300V 75°C		NEC: CMR	1 STP +2/C	Pair: Blue, White Cond.: Red, Black	500 1000	152.4 304.8	20.0 44.0	9.1 20.0	Data: .025 Power: .013	.039	.99	.250	6.35	14	46	38	125	
		CEC: CMG FT4								.64 .33								
Rip Cord															22 AWG Data Pair Impedance: 100Ω			

Sequential footing marking every two feet.

22 AWG (7x30) TC Conductors, STP w/Beldfoil, TC Drain Wire • 18 AWG (16x30) TC Conductors Unshielded • Polypropylene Binder Tape																		
Plenum • Foam FEP Insulation (Data) • Flamarrest® Insulation (Power) • Natural Flamarrest Jacket																		
300V 60°C (75°C non-UL)	1502P	NEC: CMP CEC: CMP FT6	1 STP +2/C	Pair: Blue, White Cond.: Red, Black	1000	304.8	31.0	14.1	Data: .025 Power: .011	.015	.381	.205	5.21	14	46	38	125	
															22 AWG Data Pair Impedance: 100Ω			

BC = Bare Copper • DCR = DC Resistance • EPDM = Ethylene Propylene Diene Monomer • FEP = Fluorinated Ethylene Propylene • FPE = Foam Polyethylene • F-R = Flame-retardant • STP = Shielded Twisted Pair • TC = Tinned Copper

*Capacitance between conductors.

**Capacitance between one conductor and other conductors connected to shield.

Special Application

Audio, Communication and Instrumentation Cable

Microphone/Musical Instrument Cables



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

Mic • 20 AWG Stranded (19x32) High-conductivity TC Conductors, Cabled • Rayon Braid • TC Braid Shield (84% Coverage)

Polyethylene Insulation • Chrome PVC Jacket

Low-Impedance	8405	—	5	Black,	250	46.2	14.8	6.7	.016	.41	.035	.89	.281	7.14	23	76	40	131
UL AWM Style 2094				Clear,	500	152.4	29.5	13.4										
(300V 60°C)				Green,	1000	304.8	63.0	28.6										
VW-1				Red,														
				Blue														



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

Rubber Insulation • Black EPDM Rubber Jacket

Low-Impedance	8425	—	5	Blue,	100	30.5	7.8	3.5	.023	.58	.031	.79	.318	8.08	30	98	55	180
600V RMS 90°C				Orange,	250	46.2	17.3	7.8										
(60°C non-UL)				Black,														
				White,														
				Brown														
	8426	—	6	(Same as 8425)	100	30.5	9.0	4.1	.023	.58	.037	.94	.342	8.69	30	98	55	180
				+ Green	250	46.2	21.0	9.5										
	8427	—	7	(Same as 8426)	100	30.5	9.8	4.5	.023	.58	.041	1.04	.355	9.02	30	98	55	180
				+ Red	250	46.2	22.3	10.1										
	8418	—	8	(Same as 8427)	100	30.5	11.0	5.0	.023	.58	.037	.94	.381	9.68	30	98	55	180
				+ Yellow	250	46.2	25.0	11.3										

EPDM = Ethylene Propylene Diene Monomer • TC = Tinned Copper

*Capacitance between conductors.

**Capacitance between one conductor and other conductors connected to shield.