

8423 Multi-Conductor - Three-Conductor, Low-Impedance Cable



Description:

20 AWG stranded (26x34) high-conductivity TC conductors, EPDM rubber insulation, rayon braid, TC braid shield (83% coverage), cotton wrap, EPDM jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (in.)
3	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

Insulation Resistance: 100 Megaohms/1000' @ 500 volts DC

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	83

Outer Shield Separator Material: Cotton Wrap

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
EPDM - Ethylene Propylene Diene Monomer Rubber	.040

Overall Cabling

Overall Cabling Color Code Chart:

Number	Color
1	White
2	Black
3	Red

Overall Cabling Separator Material: Rayon Braid

Overall Nominal Diameter: 0.272 in.

Mechanical Characteristics (Overall)

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

Non-UL Temperature Rating: 90°C

Bulk Cable Weight: 48 lbs/1000 ft.

Max. Recommended Pulling Tension: 88 lbs.

Min. Bend Radius (Install)/Minor Axis: 2.720 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

EU CE Mark: Yes

8423 Multi-Conductor - Three-Conductor, 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)

30

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

55

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

10.2

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

3.3

Max. Operating Voltage - UL:

Voltage

600 V RMS

Max. Recommended Current:

Current

4 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8423 010100	100 FT	6.000 LB	BLACK		3 #20 EPDM BRD EPDM
8423 0101000	1,000 FT	56.000 LB	BLACK	C	3 #20 EPDM BRD EPDM
8423 010500	500 FT	26.000 LB	BLACK		3 #20 EPDM BRD EPDM

Notes:

C = CRATE REEL PUT-UP.

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, Green, Brown	1000	304.8	25.0	11.4	.012	.30	.030	.76	.185	4.70	40	131	110	361
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24 AWG Stranded (45x40) TC Alloy Conductors • Conductive Textile Wrap (100% Coverage) • TC Braid Shield (60% Coverage)

EPDM Rubber Insulation • Black EPDM Rubber Jacket

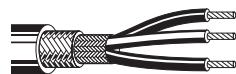
300V 90°C	8406	—	3	Black, Red, White	100	30.5	3.0	1.4	.016	.41	.025	.64	.223	5.66	30	98	55	180
					500	152.4	15.0	6.8										



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

Polyethylene Insulation • Chrome PVC Jacket

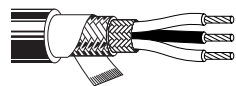
600V RMS 80°C	8403	—	3	Clear, Black, Red	500	152.4	20.5	9.3	.016	.41	.033	.84	.244	6.20	25	82	45	148
VW-1					1000	304.8	45.0	20.5										



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, Black, Red	100	30.5	6.0	2.7	.023	.58	.040	1.02	.272	6.91	30	98	55	180
					500	152.4	26.0	11.8										
					1000	304.8	56.0	25.5										



EPDM = Ethylene Propylene Diene Monomer • TC = Tinned Copper

*Capacitance between conductors.

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