

8437 Multi-Conductor - Audio, Control and Instrumentation Cable



Description:

Overall braid, 22 AWG solid TC conductors, PVC insulation, twisted pair, polyester tape + TC braid shield (88% coverage), 22 AWG solid TC drain wire, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
1	22	Solid	TC - Tinned Copper

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
PVC - Polyvinyl Chloride	.015

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	88

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire	Conductor Material
22	Solid		TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.025

Overall Cabling

Overall Cabling Separator Material: Polyester Tape

Overall Nominal Diameter: 0.188 in.

Pair

Pair Color Code Chart:

Number	Color
1	Black & Red

Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
2.000	6.000

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +80°C

UL Temperature Rating: 80°C (UL AWM Style 2095)

Bulk Cable Weight: 22.700 lbs/1000 ft.

Max. Recommended Pulling Tension: 48 lbs.

Min. Bend Radius (Install)/Minor Axis: 1.875 in.

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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
AWM Specification:	UL Style 2095 (300 V 80°C)
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):	04/01/2005
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

Flame Test

UL Flame Test:	UL1685 FT4 Loading
C(UL) Flame Test:	FT4

Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

46

Nom. Inductance:

Inductance (µH/ft)

0.2

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

48

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

85

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

16.2

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

4.9

Max. Operating Voltage - UL:

Voltage

300 V RMS (UL AWM Style 2095)

Max. Recommended Current:

Current

2.9 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8437 0101000	1,000 FT	24.000 LB	BLACK	C	2 #22 PVC BRD PVC


Combination Unshielded and Braid Shield and Overall Braid Shield

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	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

Combination • 22 AWG Stranded (7x30) TC Conductors • Conductors Cabled • TC Braid Shield Over One Pair (62% Coverage)

Polyethylene Insulation • Chrome PVC Jacket

UL AWM Style 2094 (300V 60°C) 	8732	NEC:	2:	Black,	500	152.4	17.5	7.9	.020	.51	.030	.76	.206	5.23	21	69	37	121		
		CM	(1) Shld	Clear	U-1000	U-304.8	37.0	16.8						x	x					
		CEC:	(1) Unshld		1000	304.8	39.0	17.7							.332	8.43				
		CM																		

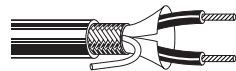
Overall Braid • 22 AWG Solid TC Conductors • Twisted Pair • Polyester Tape + TC Braid Shield (88% Coverage) • 22 AWG Solid TC Drain Wire

PVC Insulation • Black PVC Jacket

UL AWM Style 2095 (300V 80°C) 	8437	NEC:	1	Black, Red	1000	304.8	25.0	11.4	.015	.38	.025	.64	.200	5.08	48	157	85	279	
		CMG																	
		CEC:																	
		CMG FT4																	


Overall Braid • 22 AWG Stranded (7x30) TC Conductors • Twisted Pair • Polyester Tape + TC Braid Shield (86% Coverage) • Stranded TC Drain Wire

PVC Insulation • Black PVC Jacket

UL AWM Style 2095 (300V 80°C) 	8441	NEC:	1	Black, Red	100	30.5	3.6	1.6	.015	.38	.025	.64	.210	5.33	49	161	86	282	
		CMG				U-500	U-152.4	14.0	6.4										
		CEC:				500	152.4	14.0	6.4										
		CMG FT4				U-1000	U-304.8	27.0	12.3										
						1000	304.8	27.0	12.3										

Overall Braid • 18 AWG Stranded (16x30) Tinned Copper Conductors • Twisted Pair • Separator + TC Braid Shield (73% Coverage)

Rubber Insulation • Chrome PVC Jacket

300V RMS 80°C 8208 	8208		1	Red, White	100	30.5	4.7	2.1	.022	.56	.025	.64	.257	6.53	46	151	77	253				
					U-500	U-152.4	21.5	9.8														
					500	152.4	20.0	9.1														
					U-1000	U-304.8	42.0	19.1														
					1000	304.8	43.0	19.5														

TC = Tinned Copper

*Capacitance between conductors.

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