Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

9888 Coax - 50 Ohm Triax

Description:

11 AWG stranded (7x19) .108" bare copper conductor, foam polyethylene insulation, double bare copper braid shield (96% coverage) polyethylene jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	11	7x19	BC - Bare Copper	.108

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
FPE - Foam Polyethylene	.285

Inner Shield

Inner Shield Material:

Type	Inner Shield Material	Coverage (%)
Braid	BC - Bare Copper	96

Inner Jacket

Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (in.)
PE - Polyethylene	.370

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	96

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PE - Polyethylene

Overall Cabling

Overall Nominal Diameter:	0.480 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-55°C To +80°C
Non-UL Temperature Rating:	80°C
Bulk Cable Weight:	130 lbs/1000 ft.
Max. Recommended Pulling Tension:	326 lbs.
Min. Bend Radius (Install)/Minor Axis:	5 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

EU CE Mark:	No

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
MII Order #39 (China RoHS):	Yes
RG Type:	8/U

Plenum/Non-Plenum

Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
50

Nom. Inductance:

Inductance (µH/ft)
.065

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
26

Nominal Velocity of Propagation:

VP (%)
78

Nominal Delay:

Delay (ns/ft)
1.3

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
1.2

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
1.2

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.1

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.14
10	.51
50	1.2
100	1.8
200	2.7
400	4.2
700	5.8
900	6.7
1000	7.1

Max. Operating Voltage - Non-UL:

Voltage
300 V RMS (Between shield)

Put Ups and Colors:

9888 Coax - 50 Ohm Triax

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9888 0101000	1,000 FT	140.000 LB	BLACK	C	50 OHM TRIAX
9888 010500	500 FT	72.500 LB	BLACK	C	50 OHM TRIAX

Notes:
C = CRATE REEL PUT-UP.

Computer and Instrumentation Cable

50 Ohm Triax

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m
RG-58A/U Type • 20 AWG Stranded (7x28) .037″ Tinned Copper Conductor • Double Tinned Copper Braid Shield (96% Coverage)																			
Polyethylene Insulation • Yellow PVC Jacket (Polyethylene Insulation between Braids)																			
75°C	**9222**	—	100	30.5	4.6	2.1	20 AWG	.114	2.90	(2) TC Braids	.240	6.10	50	66%	30.8	101.0	1	.5	1.6
			U-500	U-152.4	19.5	8.8	(7x28)			96% Shield							10	1.5	4.9
			500	152.4	20.5	9.3	.037″			Coverage							50	3.3	10.8
							TC			Inner:							100	4.9	16.1
							9.5Ω/M′			4.7Ω/M′							200	7.2	23.6
							31.0Ω/km			15.5Ω/km							400	12.0	39.4
										Outer:							700	18.0	57.1
										4.3Ω/M′							900	22.0	72.2
										14.1Ω/km							1000	24.0	78.7
RG-8/U Type • 11 AWG Stranded (7x19) .108″ Bare Copper Conductor • Double Bare Copper Braid Shield (96% Coverage)																			
Foam Polyethylene Insulation • Black Polyethylene Jacket (Polyethylene Insulation between Braids)																			
80°C	**9888**	—	500	152.4	72.5	33.0	11 AWG	.285	7.24	(2) BC	.480	12.19	50	78%	26.0	85.3	1	.1	.5
			1000	304.8	140.0	63.6	(7x19)			96% Shield							10	.5	1.7
							.108″			Coverage							50	1.2	3.9
							BC			Inner:							100	1.8	5.9
							1.2Ω/M′			1.2Ω/M′							200	2.7	8.9
							3.9Ω/km			3.9Ω/km							400	4.2	13.8
										Outer:							700	5.8	19.0
										2.1Ω/M′							900	6.7	22.0
										4.9Ω/km							1000	7.1	23.3

BC = Bare Copper • DCR = DC Resistance • TC = Tinned Copper