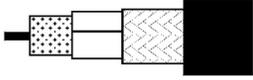




Product: [H1000LW](#)

Life Cycle Status: Discontinued



H1000LW - 50 Ohm Wireless Transmission Coax, H1000, RG8, 10 AWG Solid BC, CU-Foil + 50% BC Braid, LSZH Jkt, CPR: Cca

Product Description

50 Ohm Wireless Transmission Coax, H1000, RG8, 10 AWG Solid Bare Copper Conductor, PE Insulation, Copper foil + 50% Bare Copper Braid Shield, LSZH Jacket, CPR: Cca

Technical Specifications

Product Overview

Suitable Applications:	Point-to-point and point-to-multipoint wireless antenna communication; Wireless microphones, Two-Way Radios, Amateur (Ham) Radio, Low Power FM, GPS, RFID (Radio Frequency Identification)
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Construction Details

RG Type:	8
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Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	10 AWG	Solid	2.62 mm	BC - Bare Copper

Insulation

Element	Material	Nom. Insulation Diameter
Insulated Conductor	PE - Polyethylene (Foam)	7.15 mm (0.281 in)

Insulation Table Notes:	Centricity min. 85%
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Outer Shield

Layer	Outer Shield Type	Material	Coverage
1	Tape	Bi-Laminate (Bare Copper+Poly)	100%
2	Braid	Bare Copper (BC)	50%

Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	10.3 mm

Outer Jacket1 Table Notes:	According to European Standard EN 50290-2-20
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Electrical Characteristics

Regularity of Impedance:	Min. 46 dB
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Attenuation

Frequency	Nom. Attenuation
5 MHz	0.8 dB/100m
50 MHz	2.8 dB/100m
100 MHz	4 dB/100m
200 MHz	5.7 dB/100m
400 MHz	8.4 dB/100m
600 MHz	10.5 dB/100m
800 MHz	12.3 dB/100m
1000 MHz	14 dB/100m
1350 MHz	16.7 dB/100m

1750 MHz	19.5 dB/100m
2150 MHz	22.1 dB/100m
2400 MHz	23.6 dB/100m
5000 MHz	37.4 dB/100m
10000 MHz	59.3 dB/100m

Attenuation Table Notes: Max. attenuation 10% higher

Electricals

Max. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
3.5 Ohm/km (1.1 Ohm/1000ft)	12 Ohm/km (3.7 Ohm/1000ft)	80 pF/m (24 pF/ft)	50 Ohm	83%

Screening

Frequency	Min. Screening Attenuation
30 - 1000 MHz	90 dB

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-30°C To +70°C	-5°C To +50°C	-30°C To +70°C

Bend Radius

Stationary Min.
100 mm (3.9 in)

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Cca
Flammability / Reaction to Fire:	IEC 60332-1-2, IEC 60332-3-24, CEI 20-22-3
CPR Compliance:	CPR Euroclass: Cca-s1,d2,a1
ISO/IEC Compliance:	IEC 61196, IEC 61034-2 - Smoke Density Min Transmittance = 60%
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3
European Directive Compliance:	EU CE Mark

History

Update and Revision:	Revision Number: 0.72 Revision Date: 07-29-2024
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