Product: MRG2132



MRG2132 - Mil-Spec Coax, 50 Ohm, RG-213, 13 AWG Str BC, 95% BC Braid, LSZH Jkt, Commercial

Product Description

Mil-Spec Coax, 50 Ohm, RG-213, 13 AWG (7x21) Bare Copper Conductor, PE Insulation, 95% Bare Copper Braid Shield, LSZH Jacket (Non-Contaminating), Commercial

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)

Construction Details

RG Type:	213

Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	13 AWG	Stranded	2.25 mm	BC - Bare Copper

Insulation

Element	Material	Nom. Insulation Diameter
Insulated Conductor	PE - Polyethylene	7.25 mm (0.285 in)

Outer Shield

Outer Shield Type	Material	Coverage
Braid	Bare Copper (BC)	92%

Outer Jacket

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

Table Notes:	According to EN 50290-2-20

Electrical Characteristics

Regularity of Impedance:	Min. 46 dB

Return Loss (RL)

Frequency	Min. Return Loss
100 - 400 MHz	28.5 dB
400 - 900 MHz	23.5 dB

Table Notes:	In each frequency band, 3 peak values up to 4 dB lower are allowed

Attenuation

Frequency	Nom. Attenuation
5 MHz	1.5 dB/100m
50 MHz	4.6 dB/100m
100 MHz	6.6 dB/100m
230 MHz	10.4 dB/100m
400 MHz	14.1 dB/100m
800 MHz	21.1 dB/100m

862 MHz	22.1 dB/100m
1000 MHz	24.1 dB/100m
1350 MHz	29 dB/100m
1750 MHz	34.3 dB/100m
2150 MHz	39.1 dB/100m
2400 MHz	42.4 dB/100m

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.
6 Ohm/km (1.8 Ohm/1000ft)	5.5 Ohm/km (1.7 Ohm/1000ft)	100 pF/m (30 pF/ft)	50 Ohm	66%

Voltage

Voltage Rating
3000 V DC

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.
50 mm (2.0 in)

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
ISO/IEC Compliance:	IEC 61196
CENELEC Compliance:	EN 50117-1, EN 50117-9-1, EN 50290-2-20
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
UK Regulation Compliance:	UKCA Mark

History

Update and Revision:	Revision Number: 0.263 Revision Date: 02-03-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
MRG2132.00100	Black	Reel	100 m	8719605103055
MRG2132.00500	Black	Reel	500 m	8719605103079

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