

Product: MRG5902

MRG5900 - Mil-Spec Coax, 75 Ohm, RG-59 Type, 23 AWG Solid BCCS, 95% BC Braid, LSZH Jkt, Commercial

Product Description

Mil-Spec Coax, 75 Ohm, RG-59 Type, 23 AWG Solid Bare Copper Covered Steel Conductor, PE Insulation, 95% Bare Copper Braid Shield, LSZH Jacket, Commercial

Technical Specifications

Product Overview

Suitable Applications:	Standard analog video

Construction Details

RG Type:	59

Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	23 AWG	Solid	0.58 mm	BCCS - Bare Copper Covered Steel

Table Notes:	Conductivity 40%

Insulation

Element	Material	Nom. Insulation Diameter
Insulated Conductor	PE - Polyethylene	3.7 mm (0.15 in)

Outer Shield

Outer Shield Type	Material	Coverage
Braid	Bare Copper (BC)	91%

Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	6.15 mm

Table Notes:	According to EN 50290-2-20

Electrical Characteristics

Regularity of Impedance:	Min. 40 dB

Return Loss (RL)

Frequency	Min. Return Loss
5 - 30 MHz	20 dB
30 - 470 MHz	20 dB
470 - 862 MHz	18 dB

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

Attenuation

Frequency	Nom. Attenuation
5 MHz	2.9 dB/100m
50 MHz	8 dB/100m
100 MHz	11.6 dB/100m
230 MHz	18.3 dB/100m

300 MHz	21.2 dB/100m
400 MHz	25 dB/100m
470 MHz	27.5 dB/100m
860 MHz	39.2 dB/100m
1000 MHz	42.9 dB/100m
1350 MHz	50 dB/100m
1600 MHz	54.5 dB/100m
1750 MHz	57 dB/100m
2150 MHz	63 dB/100m

Table Notes:	Max. attenuation 10% higher

Electricals

Max. Conductor DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
170 Ohm/km (52 Ohm/1000ft)	67 pF/m (20 pF/ft)	75 Ohm	66%

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.
35 mm (1.4 in)

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
ISO/IEC Compliance:	IEC 61196, IEC 61034-2 - Smoke Density Min Transmittance = 60%
CENELEC Compliance:	EN 50117-1
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: 0.205 Revision Date: 02-03-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
MRG5902.10100	Black	Reel	100 m	8719605103390
MRG5902.00500	Black	Reel	500 m	8719605103383

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