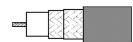


# Product: MRG223



MRG223 - Mil-Spec Coax, 50 Ohm, RG-223, 19 AWG Solid SC, Double 95% SC Braid, PVC Jkt, Commercial

# **Product Description**

Mil-Spec Coax, 50 Ohm, RG-223, 19 AWG Solid Silvered Copper Conductor, PE Insulation, Double 95% Silvered Copper Braid Shield, PVC Jacket, 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:

# Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	20 AWG	Solid	0.90 mm	SC - Silvered Copper

#### Insulation

Element	Material	Nom. Insulation Diameter		
Insulated Conductor	PE - Polyethylene	2.95 mm (0.116 in)		

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### Outer Shield

Outer Shield Type	Material	Coverage
Braid	Silvered Copper (SC)	95%
Braid	Silvered Copper (SC)	90%

#### Outer Jacket

Material	Nom. Diameter	eter											
PVC - Polyvinyl Chloride	5.4 mm												
Table Notes:	According	ding t	o EN 50290-2-20										

# **Electrical Characteristics**

Return Loss	(RL)
Frequency	Min. Return Los
100-300 MH	z 35 dB
300-900 MH	z 30 dB
1	
Attenuation	
Frequency	Nom. Attenuation
50 MHz	10.5 dB/100m
230 MHz	23.6 dB/100m
470 MHz	33.8 dB/100m
860 MHz	43.9 dB/100m
1000 MHz	54.2 dB/100m
Table Notes:	:

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.	
28 Ohm/km	4.5 Ohm/km (1.4 Ohm/1000ft)	97 pF/m (30 pF/ft)	50 Ohm	66%	

# **Mechanical Characteristics**

#### Temperature

Operating	Installation	Storage
-40°C To +70°C	-5°C To +50°C	-40°C To +70°C

#### Bend Radius

Stationary Min. 50 mm (2.0 in)

## **Standards and Compliance**

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
Military Compliance:	M-17/84
CENELEC Compliance:	EN 50117-1
European Directive Compliance:	EU CE Mark
UK Regulation Compliance:	UKCA Mark

# History

Update and Revision: Revision Number: 0.109 Revision Date: 05-31-2024

### **Part Numbers**

#### Variants

ltem #	Color	Putup Type	Length	EAN
MRG223.00100	Black	Reel	100 m	8719605103161
MRG223.00500	Black	Reel	500 m	8719605103178

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