



Product: [MRG214](#)

MRG2140 - Mil-Spec Coax, 50 Ohm, RG-214, 13 AWG Str SC, Double SC Braid, PVC Jkt, Commercial



Product Description

Mil-Spec Coax, 50 Ohm, RG-214, 13 AWG (7x21) Silvered Copper Conductor, PE Insulation, 95%/90% 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)
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Construction Details

RG Type:	214
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Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	13 AWG	Stranded	2.25 mm	SCCS - Silvered Copper Covered Steel

Insulation

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

Outer Shield

Layer	Outer Shield Type	Material	Coverage
1	Braid	Silvered Copper (SC)	86%
2	Braid	Silvered Copper (SC)	90%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	10.8 mm

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

Return Loss (RL)

Frequency	Min. Return Loss
100 - 1000 MHz	23 dB

Attenuation

Frequency	Nom. Attenuation
50 MHz	4.3 dB/100m
230 MHz	9.9 dB/100m
470 MHz	14.9 dB/100m
860 MHz	21.3 dB/100m
1000 MHz	23.3 dB/100m

Table Notes:	Max. attenuation 10% higher
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Power Rating

Frequency	Max. Power Rating
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100 MHz	760 W
1,000 MHz	175 W

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)	3.1 Ohm/km (0.94 Ohm/1000ft)	100 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.
110 mm (4.3 in)

Bulk Cable Weight:	181 kg/km
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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
UK Regulation Compliance:	UKCA Mark

History

Update and Revision:	Revision Number: 0.198 Revision Date: 12-22-2023
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Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
MRG214.0025	Black	Reel	25 m	8719605103123
MRG214.00100	Black	Reel	100 m	8719605103116
MRG214.00200	Black	Reel	200 m	8719605181602
MRG214.00500	Black	Reel	500 m	8719605103130

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