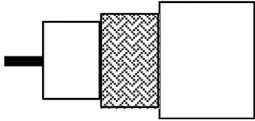




Product: [MRG1781](#)



MRG1781 - 50 Ohm Wireless Transmission Coax, RG178 Type, 30 AWG Solid SCCS, 95% TC Braid, PVC Jkt

## Product Description

50 Ohm Wireless Transmission Coax, RG178 Type, 30 AWG Solid Silver Copper Covered Steel Conductor, PE Insulation, 95% Tinned Copper Braid Shield, PVC Jacket

## 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:	178
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#### Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	30 AWG	Stranded	0.3 mm	SCCS - Silvered Copper Covered Steel

#### Insulation

Element	Material	Nom. Insulation Diameter
Insulated Conductor	PE - Polyethylene	0.84 mm (0.033 in)

#### Outer Shield

Outer Shield Type	Material	Coverage
Braid	Tinned Copper (TC)	95%

#### Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	1.8 mm

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

Regularity of Impedance:	Min. 40 dB
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#### Attenuation

Frequency	Nom. Attenuation
10 MHz	19 dB/100m
200 MHz	63 dB/100m
400 MHz	92 dB/100m
1000 MHz	151 dB/100m

#### Electricals

Max. Conductor DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
802 Ohm/km (244 Ohm/1000ft)	100 pF/m (30 pF/ft)	50 Ohm	66%

#### Voltage

Voltage Rating
1000 V DC / 600 V RMS

## Mechanical Characteristics

### Temperature

Operating	Installation	Storage
-25°C To +70°C	-5°C To +50°C	-25°C To +70°C

Bulk Cable Weight: 8.5 kg/km

### 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
Military Compliance:	MIL-C-17
European Directive Compliance:	EU CE Mark
UK Regulation Compliance:	UKCA Mark

### History

Update and Revision: Revision Number: 0.197 Revision Date: 04-29-2024

### Part Numbers

#### Variants

Item #	Color	Putup Type	Length	EAN
MRG1781.0050	Black	Reel	50 m	8719605102904
MRG1781.00100	Black	Reel	100 m	8719605102898
MRG1781.00500	Black	Reel	500 m	8719605102911

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