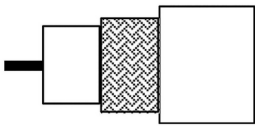


**Part Number: MRG1781**



**COAX RG178 PVC**

**Product Description**

COAX [0.3/0.84] RG178 STRANDED PVC

**Technical Specifications**

**Product Overview**

Environmental Space:	Indoor - Euroclass Eca
Suitable Applications:	Coaxial communication cable based on MIL-C-17

**Physical Characteristics (Overall)**

**Conductor**

Stranding	Material	Construction n x D	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
Stranded	SPCCS - Silver Plated Copper Covered Steel	7x0.10 mm	0.3 mm	0.02 mm	1
Conductor Count:		1			
Conductor Size:		30 AWG			

**Insulation**

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	Polyethylene	0.84 mm	0.15 mm

**Outer Shield Material**

Type	Material	Coverage [%]	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Braid	TC - Tinned Copper	95 %	1.37 mm	0.15 mm	4 %

**Outer Jacket Material**

Material	Nominal Diameter	Diameter +/- Tolerance
PVC - Polyvinyl Chloride	1.8 mm	0.1 mm

OuterJacket1, Table Note:	According to European Standard HD 624
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**Electrical Characteristics**

**Conductor DCR**

Max. Conductor DCR
802 Ohm/km

**Capacitance**

Nom. Capacitance	Capacitance Tolerance
100 pF/m	3 pF/m

**Impedance**

Nominal Characteristic Impedance	Nominal Characteristic Tolerance	Regularity of Impedance
50 Ohm	2 Ohm	Min. 40 dB

**High Frequency (Nominal/Typical)**

Frequency [MHz]	Nom. Insertion Loss
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10 MHz	19 dB/100m
200 MHz	63 dB/100m
400 MHz	92 dB/100m
1000 MHz	151 dB/100m

#### Delay

<b>Nominal Velocity of Propagation (VP) [%]</b>
66 %

#### Voltage

<b>Voltage Rating [V]</b>
1000 DC / 600 V RMS

#### Temperature Range

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

#### Mechanical Characteristics

Bulk Cable Weight:	8.5 kg/km
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#### Standards

CPR Euroclass:	Eca
RG Type:	178/U Type
MIL Spec Rating:	MIL-C-17

#### Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2005-11-17
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#### Flammability, LSOH, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2
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#### Part Number

#### Variants

Item #	Color	Length
MRG1781.00100	Black	100 m
MRG1781.0050	Black	50 m
MRG1781.00500	Black	500 m

#### History

Revision Number:	1
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