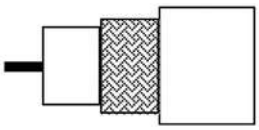
Part Number: MRG1781



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

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

10 MHz	19 dB/100m
200 MHz	63 dB/100m
400 MHz	92 dB/100m
1000 MHz	151 dB/100m

Delay

Nominal Velocity of Propagation (VP) [%]
66 %

Voltage

Voltage Rating [V]
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

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

Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2

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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