



## MRG1781

Part Number: MRG1781

COAX RG178 PVC

## Product Description

COAX RG178 PVC

## Product Specifications

### Application

Application 1:

Coaxial communication cable based on MIL-C-17

## Technical Specifications

### Environmental Characteristics

Operating Temp Range:

-25 to +70 °C

Storage Temp Range:

-25 to +70 °C

Installation Temp Range:

-5 to +50 °C

### History

Revision Date:

2006-07-11

Revision Number:

1

### North American Standard

MIL Spec Rating:

MIL-C-17

Impedance:

#### Nominal Characteristic Impedance

50 mOhm/ft

2 Ohm

Min. 40 dB

**Conductor DCR:****Max. Conductor DCR**

802 Ohm/100m

**Delay:****Nominal Velocity of Propagation (VP)**

66 ns/100m

**Voltage:****Voltage Rating**

1000 dc / 600 rms V

**Capacitance:****Capacitance Tolerance**

3 pF/m

**Nominal Capacitance**

100 pF/m

**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

**Insulation:****Type****Material****Nominal Diameter****Diameter +/- Tolerance**

Dielectric

Polyethylene

0.84 mm

0.15 mm

**Outerjacket 1:****Element****Material****Nominal Diameter****Diameter +/- Tolerance**

PVC

1.8 mm

0.1 mm

According to European Standard HD 624

**Conductor:****Stranding****Material****Construction****Nominal Diameter****Diameter +/- Tolerance**

Stranded	Silver plated, copper cladded steel	7x0.1 mm	0.3 in	0.02 mm
----------	-------------------------------------	----------	--------	---------

**Outershield 1:**

Type	Material	Coverage	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Braid	Tinned copper	95 %	1.37 mm	0.15 mm	4 %

**Product Variants**

Part Number	Color	Put-Up Type	Length
MRG1781.00100	BLACK	Reel	100 m
MRG1781.00500	BLACK	Reel	500 m
MRG1781.0050	BLACK	Reel	50 m

© 2015 Belden, Inc

All Rights Reserved

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an 'AS IS' basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.