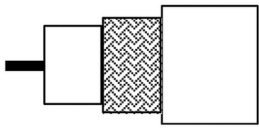


Part Number: MRG5800



COAX RF RG58 PVC

[Request Sample](#)

Product Description

COAX RF [0.9/2.95] RG58 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	Diameter +/- Tolerance	No. of Coax
Stranded	TC - Tinned Copper	19x0.18 mm	0.02 mm	1

Conductor Count:	1
Conductor Size:	21 AWG

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	Polyethylene	2.95 mm	0.15 mm

Outer Shield Material

Type	Material	Coverage [%]	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Braid	TC - Tinned Copper	93 %	3.5 mm	0.2 mm	4 %

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PVC - Polyvinyl Chloride	4.95 mm	0.2 mm

OuterJacket1, Table Note:	According to EN 50290-2-20
---------------------------	----------------------------

Construction and Dimensions

Min Elongation at Breakof Jacket:	150 %
Min Tensile Strength of Jacket:	12.5 MPa

Electrical Characteristics

Conductor DCR

Max. Conductor DCR
40.6 Ohm/km

Capacitance

Nom. Capacitance	Capacitance Tolerance
100 pF/m	2 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	4.7 dB/100m
200 MHz	23 dB/100m
400 MHz	34 dB/100m
1000 MHz	60 dB/100m

Delay

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

High Freq

Frequency [MHz]	Min. RL (Return Loss) [dB]
5 - 30 MHz	20 dB
30 - 470 MHz	20 dB
470 - 1000 MHz	18 dB

High Freq Table Note: In each frequency band, 3 peak values up to 4 dB lower are allowed

Voltage

Voltage Rating [V]
4000 DC / 2000 V RMS

Temperature Range

Installation Temp Range:	-5°C To +50°C
Storage Temp Range:	-40°C To +70°C
Operating Temp Range:	-40°C To +70°C

Mechanical Characteristics

Min Bend Radius (W/o Pulling Strength):	25 mm
Crush Resistance:	Max. 1% (load of 700N) N

Standards

CPR Euroclass:	Eca
GENELEC Compliance:	EN 50290-2-20 and EN 50289
RG Type:	58/U Type
MIL Spec Rating:	MIL-C-17

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01
---------------------------------------	------------

Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2
-----------------------	---------------

Part Number

Variants

Item #	Color	Length
MRG5800.00500	Black	500 m
MRG5800.00B200	Black	200 m
MRG5800.01500	Black	500 m
MRG5800.10100	Black	100 m
MRG5800.02500	White	500 m
MRG5800.12100	White	100 m

History

Update and Revision:	Revision Number: 0.139 Revision Date: 07-11-2019
----------------------	--

© 2019 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 here in 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 "ASIS" 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 all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information 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. The 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.