

RG058

RG-Cables acc. to MIL-C-17F and MIL-C-17G



Application

see product overview

Standards

acc. to MIL-C-17F, MIL-C-17G

Flame resistance

acc. to IEC 60332-1

Construction

Inner conductor	stranded copper wires, tinned, diameter 0.90 ± 0.01 mm
Insulation	PE, diameter 2.95 ± 0.05 mm
Outer conductor	
Copper braid	tinned, 96% optical coverage
Sheath	PVC, altern. FRNC, diameter 4.95 ± 0.10 mm black

Mechanical properties

Minimum bending radius	without load	5 x outer diameter
	with load	10 x outer diameter
Temperature	during operation	-40° C to + 85° C
	during installation	-15° C to + 55° C
Corrosivity	only for FRNC type	IEC 60754-2

Electrical properties

at 20°C

Loop resistance		$\leq 50 \Omega$
Characteristic impedance		$50 \Omega \pm 2 \Omega$
Velocity ratio		66 %
Mutual capacitance		100 nF/km
Transfer impedance		36 mΩ/m
Operating voltage		1.8 kV _{rms}
Test voltage	Inner/Outer conductor	5.4 kV _{rms}

RG058

Electrical data

at 20°C

Frequency (MHz)	Attenuation (dB/100m)	Max. power rating (Watts) (at ambient temperature 25°C and max. inner conductor temperature of 70°C)	Return loss (dB) several peaks are allowed
	nominal	maximum	
10	4.2	750	Frequency (MHz)
100	15.7	230	50-100
200	23.0	180	100-300
400	34.5	110	300-500
1000	60.0	65	500-1000
			≥ 28
			≥ 27
			≥ 26
			≥ 25

All other requirements acc. to MIL-C-17F, MIL-C-17G

Technical data

Product code	Designation	Type	Brand name	Outer diameter	Weight	Standard delivery length	Drum size	Gross weight	Copper content	Tensile force
				mm	kg/km	m	*PWD/ring	kg		
1002717	2YCY	0.9Lz/ 2.95z	M17/28- RG058	4.95	37	1000/10 0	400/120/ 280	39/3.7	20.4	120
1002919	2YCH	0.9Lz/ 2.95z	M17/28- RG058 FRNC	4.95	38	1000/10 0	400/120/ 280	40/3.8	20.4	120

*PWD (Plywood drum)

Product Code Table

Product Description	Product Code	PG Reference Code	PG Part Number
RG058 MIL-C-17F		60014295	60014295
RG058 MIL-C-17F 500DW	1002717-00500DW	60014295	60014296
RG058 MIL-C-17F 1000DW	1002717-01000DW	60014295	60014298

© PRYSMIAN GROUP 2008, All Rights Reserved

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group: any modification or alteration afterwards of product may give different result.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.