

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	1000/100	400/120/ 280	39/3.7	20.4	120
1002919	2YCH	0.9Lz/ 2.95z	M17/28- RG058 FRNC	4.95	38	1000/100	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

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