



DATA SHEET	2170000
RG 58 C/U	valid from : 12.06.2008

Application

Coaxial cable for radio- and computer systems as well as the entire field of commercial radio-frequency technology and electronics. Cable design and electrical properties of RG 58 C/U according to **MIL-C 17 F**. Designation according to MIL-C 17 F : M 17/28 – RG 58

The cable is intended for limited flexible use and for static laying in dry and damp interiors and in open air.

Connectors: **BNC, TNC, N, UHF, Mini UHF, M**

Design

Inner conductor	stranded tinned copper wires, 0.5 mm ² (19 x 0.182), 0.90 ± 0.05 mm Ø
Insulation	PE (polyethylene) 2.95 ± 0.12 mm Ø;
Outer conductor	tinned copper braid, coverage nom. 94 %
Sheath	PVC, approx. 0.75 mm wall thickness, black, UV resistant, flame retardant Outer diameter 4.95 ± 0.12 mm Ø

Electrical properties at 20 °C

DC resistance inner conductor		max.Ω/km	40.7	
DC resistance outer conductor		max. Ω/km	17	
Insulation resistance		min. GΩxkm	5	
Capacitance at	1 kHz	nom. nF/km	105	
Nominal velocity of propagation		%	66	
Impedance		Ω	50 ± 2	
Attenuation at				Acc. to MIL 17/28
	1 MHz	dB/100m	nom. 1.6	
	5 MHz	dB/100m	nom. 3.6	
	10 MHz	dB/100m	nom. 5	
	20 MHz	dB/100m	nom. 7.5	
	50 MHz	dB/100m	nom. 12	max. 38.1
	100 MHz	dB/100m	nom. 17	max. 21.32
	200 MHz	dB/100m	nom. 24	max. 33.14
	400 MHz	dB/100m	nom. 33	max. 55.77
	800 MHz	dB/100m	nom. 50	max. 82.1
	1 GHz	dB/100m	nom. 55	max. 91.86
	2 GHz	dB/100m	nom. 88	
HF voltage, peak value (not for power purposes)		max.kV	nom. 1.9	
Working voltage (nominal voltage)	50 Hz	U _{eff} kV	2.0	
Test voltage		U _{eff} kV	5	

Mechanical and thermal properties

Weight		approx. kg/km	36
Minimum bending radius	fixed installation	mm	25
	repeated bendings	mm	75
Permissible temperatur range	fixed installation	°C	- 40 bis + 80
	moved	°C	- 10 bis + 80
Fire load		kWh/m	0.136
Flame propagation	flame retardant acc. to IEC 60332-1-2		

RoHS directive

This cable confirms to RoHS directive (2002/95/EG)

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