LAPP GROUP	DATA SHEET	2170000
	RG 58 C/U	valid from : 10. 30. 2000

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), approx. 0.91 mm∅
Insulation	PE (polyethylene) 2.95 mm∅;
Outer conductor	tinned copper braid, coverage nom. 94 %
Sheath	PVC, approx. 0.75 mm wall thickness, black, UV resistant, flame retardant outer diameter approx. 4.95 mm

Marking on the sheath: **RG 58 C/U MIL-C 17 F** alternatively **M 17/28 - RG 58**

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	1 MHz	nom. dB/100m	1.6
	5 MHz	nom. dB/100m	3.6
	10 MHz	nom. dB/100m	5
	20 MHz	nom. dB/100m	7.5
	50 MHz	nom. dB/100m	12
	100 MHz	nom. dB/100m	17
	200 MHz	nom. dB/100m	24
	400 MHz	nom. dB/100m	33
	800 MHz	nom. dB/100m	50
	1 GHz	nom. dB/100m	55
	2 GHz	nom. dB/100m	88
HF voltage, peak value (not for power purposes)		max.kV	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 to VDE 0482, part 265-2-1 / IEC 60332-1		