LAPP GROUP	DATA SHEET	2170003
	RG 188 A/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 for low range transmissions, and with the small cable diameter, for application in narrow spaces. Cable design and electrical properties of RG 188 A/U to **MIL-C 17 F**. Designation according to MIL-C 17 F : M 17/138 – RG188.
The cable is intended for limited flexible use and for static laying. PTFE material is used to meet requirements concerning low and high ambient temperatures resp. chemical stress.

Design

Inner conductor	stranded, silvered, copper-clad steel wires, 0.16 mm^2 7 x 0.17 mm, (26AWG), approx. 0.51 mm∅
Insulation	PTFE, 1.5 mm∅
Outer conductor	silvered copper braid, coverage nom. 92 %
Sheath	PTFE, white, outer diameter 2.7 ± 0.1 mm ∅

Electrical properties at 20°C

DC resistance inner conductor		max.Ω/km	317
Insulation resistance		min. GΩxkm	10
Capacitance at	1 kHz	nom. nF/km	95
Nominal velocity of propagation		%	69
Impedance		Ω	50 ± 2
Attenuation at	1 MHz	nom. dB/100m	3.7
	5 MHz	nom. dB/100m	8.5
	10 MHz	nom. dB/100m	12
	20 MHz	nom. dB/100m	16
	50 MHz	nom. dB/100m	20
	100 MHz	nom. dB/100m	28
	200 MHz	nom. dB/100m	40
	400 MHz	nom. dB/100m	60
	800 MHz	nom. dB/100m	90
	1 GHz	nom. dB/100m	103
HF voltage, peak value (not for power purposes)		max. kV	1.0
Working voltage (nominal voltage)	50 Hz	U_{eff} kV	1.5
Test voltage		U_{eff} kV	2

Mechanical and thermal properties

Weight		approx. kg/km	18
Minimum bending radius	fixed installation	mm	15
	repeated bendings	mm	28
Permissible temperature range	fixed installation	°C	- 90 up to + 200
Fire load		kWh/m	0.05

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