



DATA SHEET	2170001
RG 174 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 174 A/U according to **MIL-C 17 F**.

Designation according to MIL-C 17 F : M 17/119 – RG 174

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

Design

Inner conductor	Stranded copper-clad steel wires, 26AWG, 0.14 mm ² (7 x 0.16), 0.48 ± 0.025mm Ø
Insulation	PE (Solid polyethylene) 1.52 ± 0.08 mmØ;
Outer conductor	tinned copper braid, coverage nom. 85.6 %
Sheath	PVC, approx. 0.45 mm wall thickness, black, UV resistant, flame retardant Outer diameter 2.8 ± 0.13 mm Ø

Electrical properties at 20 °C

DC resistance inner conductor		max.Ω/km	317	
Insulation resistance		min. GΩxkm	5	
Capacitance at	1 kHz	nom. nF/km	105	
Nominal velocity of propagation		%	66	
Impedance		Ω	50 ± 2	
Acc. to MIL 17/119				
Attenuation at	1 MHz	dB/100m	nom. 3.7	
	5 MHz	dB/100m	nom. 8.5	
	10 MHz	dB/100m	nom. 12	
	20 MHz	dB/100m	nom. 15	
	50 MHz	dB/100m	nom. 19	max. 21
	100 MHz	dB/100m	nom. 30	max. 33
	200 MHz	dB/100m	nom. 45	max. 52.5
	400 MHz	dB/100m	nom. 59	max. 82
	800 MHz	dB/100m	nom. 84	max. 128
	1 GHz	dB/100m	nom. 92	max. 180.44
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	2.0	

Mechanical and thermal properties

Weight		approx. kg/km	12
Minimum bending radius	fixed installation	mm	15
	repeated bendings	mm	28
Permissible temperature range	fixed installation	°C	- 40 bis + 80
	moved	°C	- 10 bis + 80
Fire load		kWh/m	0.04
Flame propagation	flame retardant according to IEC 60332-1-2		

RoHS directive

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

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