



DATA SHEET	2170005
RG 213 /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. The low attenuation of this 50 Ohms coaxial cable allows high range transmissions. Cable design and electrical properties of RG 213 /U according to **MIL-C 17 F**. Designation according to MIL-C 17 F : M17/74-RG 213.

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

Design

Inner conductor	stranded bare copper wires, 3.17 mm ² , 7x 0.76mm, 2,25 ± 0,0254 mmØ
Insulation	PE (polyethylene), 7,24 ± 0,178 mmØ
Outer conductor	bare copper braid, coverage nom. 95 %
Sheath	PVC, black, UV resistant, flame retardant outer diameter 10.29 ± 0.18 mmØ

Electrical properties at 20°C

DC resistance inner conductor		max.Ω/km	5.8	
Insulation resistance		min. GΩxkm	5	
Capacitance at	1 kHz	nom. nF/km	101	
Nominal velocity of propagation		%	66	
Impedance		Ω	50 ± 2	
Acc. to MIL 17/93G				
Attenuation at	1 MHz	dB/100m	nom. 0.6	
	5 MHz	dB/100m	nom. 1.4	
	10 MHz	dB/100m	nom. 2.0	
	20 MHz	dB/100m	nom. 3.2	
	50 MHz	dB/100m	nom. 4.5	max. 5.25
	100 MHz	dB/100m	nom. 7.0	max. 7.87
	200 MHz	dB/100m	nom. 10.2	max. 11.45
	400 MHz	dB/100m	nom. 15.0	max. 15.75
	600 MHz	dB/100m	nom. 18.3	
	800 MHz	dB/100m	nom. 23	max. 23
	1 GHz	dB/100m	nom. 27	max. 29.52
	2 GHz	dB/100m	nom. 40	
HF voltage, peak value (not for power purposes)		max.kV	5.0	
Working voltage (nominal voltage)	50 Hz	U _{eff} kV	5.0	
Test voltage		U _{eff} kV	10	

Mechanical and thermal properties

Weight		approx. kg/km	150
Minimum bending radius	fixed installation	mm	55
	repeated bending	mm	150
Permissible temperature range	fixed installation	°C	- 40 bis + 80
	moved	°C	- 10 bis + 80
Fire load		kWh/m	0.95
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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