

2170016



RG 6 A/U

valid from : 12.06.2008

Application

Coaxial cable for receiver installations in radio communication, video- and computer systems as well as the entire field of commercial radio-frequency technology and electronics. The low attenuation of this 75 Ohms coaxial cable allows signal transmissions by mean and larger distances. Cable design and electrical properties of RG 6 A/U in acc. to **MIL-C 17 F**.

The cable is intended for static laying in dry and damp interiors and outdoor use by fixed laying but never for relocation to the ground.

Design

Inner conductor	Solid bare copper clad steel wire, 0.724 \pm 0.025 mm \varnothing
Insulation	PE (polyethylene), $4.7 \pm 0.1 \text{ mm} \emptyset$
Outer conductor	inner braid from silvered copper wire, coverage nom. 95 %
	outer braid from bare copper wire, coverage nom. 95 %
Sheath	PVC, black, flame retardant, UV- resistant
	Outer diameter 8.43 \pm 0.1 mm \emptyset

Electrical properties at 20°C

DC resistance		inner	max.Ω	2/km	144.4	
conductor Insulation resistance			min GO	vkm	5	
Capacitance at	1	kHz	nom nF	-/km	68	
Nominal velocity of propagation			nom. m	%	66	
				Ω	75 + 3	
						Acc. to MIL-C 17/2A
Attenuation at	1	MHz	dB/1	00m	nom. 0.7	
	5	MHz	dB/1	00m	nom. 1.6	
	10	MHz	dB/1	00m	nom. 2.8	
	20	MHz	dB/1	00m	nom. 4.0	
	50	MHz	dB/1	00m	nom. 5.4	
	100	MHz	dB/1	00m	nom. 9.0	
	200	MHz	dB/1	00m	nom. 13	
	400	MHz	dB/1	00m	nom. 21.3	max. 21.3
	1	GHz	dB/1	00m	nom. 32	
	2	GHz	dB/1	00m	nom. 46	
	3	GHz	dB/1	00m	nom. 75.5	max. 75.45
HF voltage, peak value (not for	r powe	er purposes)	max. k	V ss	2.4	
Working voltage (nominal volta	ade)	50 Hz	Uoff	kV	3.0	
Test voltage			U _{eff}	kV	7	

Mechanical and thermal properties

Weight	appr	ox. kg/km	120	
Minimum bending radius	single bending	mm	58	
-	multiple bending	mm	165	
Permissible temperature range	fixed	°C	- 40 up to + 80	
	flexible		- 10 up to + 80	
Fire load		kWh/m	0.361	
Flammability	Flame retardant to IEC 60 332-1-2			

elaborated by:	_			
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