



<b>DATA SHEET</b>	2170009
<b>RG 11 A/U</b>	valid from : 03. 07. 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 high range transmissions. Cable design and electrical properties of RG 11 A/U accord. to **MIL-C 17 F**. Designation according to MIL-C 17 F : M 17/6 – RG 11

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 tinned copper wires, 0.9 mm <sup>2</sup> (7 x 0.4), approx. 1.2 mmØ
Insulation	PE (polyethylene) 7.3 mmØ
Outer conductor	bare copper braid, coverage nom. 92 %
Sheath	PVC, black, UV resistant, flame retardant outer diameter 10.3 ± 0.18 mm Ø

## Electrical properties at 20 °C

DC resistance inner conductor		max. Ω/km	21.5	
Insulation resistance		min. GΩxkm	5	
Capacitance at	1 kHz	nom. nF/km	67	
Nominal velocity of propagation		%	66	
Impedance		Ω	75 ± 3	
				<b>Acc. to M 17/6</b>
Attenuation at	1 MHz	dB/100m	nom. 0.7	
	5 MHz	dB/100m	nom. 1.6	
	10 MHz	dB/ 100m	nom. 2.2	
	20 MHz	dB/100m	nom. 3.2	
	50 MHz	dB/100m	nom. 5.0	
	100 MHz	dB /100m	nom. 7.5	
	200 MHz	dB/100m	nom. 11	
	400 MHz	dB/100m	nom. 16	max. 17
	1 GHz	dB/100m	nom. 30	max. 30.84
	2 GHz	dB/100m	nom. 43	
HF voltage, peak value (not for power purposes)		max. kV	3.5	
Working voltage (nominal voltage)	50 Hz	U <sub>eff</sub> kV	5	
Test voltage		U <sub>eff</sub> kV	10	

## Mechanical and thermal properties

Weight		approx. kg/km	140
Minimum bending radius	fixed installation	mm	55
	repeated bendings	mm	150
Permissible temperature range	fixed installation	°C	- 40 bis + 80
	moved	°C	- 10 bis + 80
Fire load		kWh/m	0.73
Flame propagation	flame retardant to IEC 60 332-1-2		

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

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