



DATA SHEET	2170004
RG 71 B/U	valid from : 12. 06. 2008

Application

Coaxial cable for EDP- and computer systems as well as the entire field of commercial radio-frequency technology and electronics. With the outer conductor consisting of two braids the cable is recommended for applications with particularly stringent screening requirements. Cable design and electrical properties of RG 71 B/U according to **MIL-C 17 F**. Designation according to MIL-C 17 F : M 17/90 – RG 71.

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

Design

Inner conductor	Solid bare copper-clad steel wire, 0.643 ± 0.025 mm Ø
Insulation	polyethylene air space, (helix of PE-thread with a PE tube over it) 3.7 mmØ
Outer conductor	bare copper braid, 4.4 mmØ, coverage nom. 96 % tinned copper braid, 4.9 mmØ, coverage nom. 95 %
Sheath	PE, black, UV resistant, outer diameter 6.22 ± 0.15 mm Ø

Electrical properties at 20 °C

DC resistance inner conductor		max.Ω/km	144	
Insulation resistance		min. GΩxkm	10	
Capacitance at	1 kHz	nom. nF/km	42	
Nominal velocity of propagation		%	83	
Impedance		Ω	93 ± 5	
Acc. to MIL 17/90				
Attenuation at	1 MHz	dB/100m	nom. 1.0	
	5 MHz	dB/100m	nom. 2.3	
	10 MHz	dB/100m	nom. 3.0	
	20 MHz	dB/100m	nom. 3.9	
	50 MHz	dB/100m	nom. 6.1	
	100 MHz	dB/100m	nom. 9	
	200 MHz	dB/100m	nom. 13	
	400 MHz	dB/100m	nom. 19	26,25
	800 MHz	dB/100m	nom. 30	
	1 GHz	dB/100m	nom. 35	
	2 GHz	dB/100m	nom. 49	
HF voltage, peak value (not for power purposes)		max.kV	0.75	
Working voltage (nominal voltage)	50 Hz	U _{eff} kV	0.8	
Test voltage		U _{eff} kV	2	

Mechanical and thermal properties

Weight		approx. kg/km	62
Minimum bending radius	fixed installation	mm	33
	repeated bendings	mm	132
Permissible temperatur range	fixed installation	°C	- 50 bis + 80
	moved	°C	- 30 bis + 80
Fire load		kWh/m	0.21

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

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