

# **DATA SHEET**

2170012

**RG 59 B/U** 

valid from :

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## **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. Cable design and electrical properties of RG 59 B/U to **MIL-C 17 F**. Designation according to MIL-C 17 F: M 17/29 – RG 59.

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

#### Design

Inner conductor copper-clad steel wire,  $0.575 \pm 0.025 \text{ mm} \varnothing$ 

Insulation PE (polyethylene),  $3.71 \pm 0.1 \text{ mm} \varnothing$ 

Outer conductor bare copper braid, max. 4.85 mmØ coverage nom. 95 %

Sheath PVC, black, UV resistant, flame retardant

outer diameter 6,15 ± 0,1 mmØ

### Electrical properties at 20°C

DC resistance inner conductor Insulation resistance Capacitance at Nominal velocity of propagation Impedance	1 kHz	$\begin{array}{c} \text{max.}\Omega/\text{km} \\ \text{min.} \ G\Omega\text{xkm} \\ \text{nom.} \ \text{nF/km} \\ \% \\ \Omega \end{array}$	165 5 68 66 75 ± 3	Acc. to M17/29
Attenuation at	1 MHz 5 MHz	dB/100m dB/100m	nom.1.1 nom. 2.3	
	10 MHz 20 MHz	dB/100m dB/100m	nom.3.5 nom.5.3	
	50 MHz	dB/100m	nom.8.5	
	100 MHz	dB/100m	nom.11.5	
	200 MHz	dB/100m	nom.16.5	
	400 MHz 800 MHz	dB/100m dB/100m	nom. 23 nom. 34	max. 29.53
	1 GHz 2 GHz	dB/100m dB/100m dB/100m	nom.39 nom.55	max. 52.50
HF voltage, peak value (not for power Working voltage (nominal voltage) Test voltage	purposes) 50 Hz	max. kV U <sub>eff</sub> kV U <sub>eff</sub> kV	2.0 2.3 7	

#### Mechanical and thermal properties

Weight		approx. kg/km	57
Minimum bending radius	fixed installation	mm	30
	repeated bendings	mm	120
Permissible temperature range	fixed installation	${\mathcal C}$	- 40 bis + 80
Fire load	moved	kWh/m	0.22

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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