



<b>DATA SHEET</b>	2170010
<b>RG 187 A/U</b>	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 for low range transmissions, and with the small cable diameter, for application in narrow spaces. Cable design and electrical properties of RG 187 A/U to **MIL-C 17 F**. Designation according to MIL-C 17 F : M 17/136 – 00001.

The cable is intended for limited flexible use and for static laying in dry and damp interiors and outdoor use. PTFE material is used to meet requirements concerning low and high ambient temperatures resp. chemical stress.

## Design

Inner conductor	stranded, silvered, copperweld, 0.055 mm <sup>2</sup> 7 x 0.102 mm, (30AWG), appr. 0.3 mm $\varnothing$
Insulation	PTFE, 1.5 mm $\varnothing$
Outer conductor	silvered copper braid, coverage nom. 94 %
Sheath	PTFE, white outer diameter 2.6 $\pm$ 0.13 mm $\varnothing$

Marking on the sheath No marking required.

## Electrical properties at 20 °C

DC resistance inner conductor		max. $\Omega$ /km	802
Insulation resistance		min. $G\Omega$ xkm	10
Capacitance at	1 kHz	nom. nF/km	64
Nominal velocity of propagation		%	69
Impedance		$\Omega$	75 $\pm$ 3
Attenuation at	1 MHz	nom. dB/100m	3.6
	5 MHz	nom. dB/100m	8
	10 MHz	nom. dB/100m	13
	20 MHz	nom. dB/100m	17
	50 MHz	nom. dB/100m	21
	100 MHz	nom. dB/100m	29
	200 MHz	nom. dB/100m	41
	400 MHz	nom. dB/100m	63
	800 MHz	nom. dB/100m	94
	1 GHz	nom. dB/100m	107
HF voltage, peak value (not for power purposes)		max. kV	1.0
Working voltage (nominal voltage)	50 Hz	$U_{\text{eff}}$ kV	1.5
Test voltage		$U_{\text{eff}}$ kV	2

## Mechanical and thermal properties

Weight		approx. kg/km	18
Minimum bending radius	fixed installation	mm	14
	repeated bendings	mm	27
Permissible temperature range		$^{\circ}\text{C}$	- 90 up to + 200
Fire load	fixed installation	kWh/m	0.049

## RoHS directive

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

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