

## Suggested Copy for Lapp Limited in Farnell Catalogue

### RG 178 Co-Axial Cable

**(Farnell: Lapp Co-Axial RG 178)**

#### Application

Coaxial cable for radio- 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 178 B/U to MIL-C 17 F. Designation according to MIL-C 17 F : M 17/93 - RG178.

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

#### Design

Inner conductor	stranded, silvered, copper-clad steel wires, (30AWG), 0.055 mm <sup>2</sup> 7 x 0.102 mm, approx. 0.3 mmØ
Insulation	PTFE, 1.5 mmØ
Outer conductor	silvered copper braid, coverage nom. 94 %
Sheath	FEP, transp. brown, outer diameter approx. 1.9 m

#### Electrical properties at 20°C

DC resistance inner conductor		maxΩ/km	802
Insulation resistance		min. GΩ.xkm	10
Capacitance at	1 kHz	nom. nF/km	93
Nominal velocity of propagation		%	69
Impedance		Ω	50 ± 2
Attenuation at	1 MHz	nom. dB/100m	8
	5 MHz	nom. dB/100m	15
	10 MHz	nom. dB/100m	20
	20 MHz	nom. dB/100m	26
	50 MHz	nom. dB/100m	32
	100 MHz	nom. dB/100m	43
	200 MHz	nom. dB/100m	62
	400 MHz	nom. dB/100m	92
	800 MHz	nom. dB/100m	134
	1 GHz	nom. dB/100m	153
HF voltage, peak value (not for power purposes)		max. kV	1.0
Working voltage (nominal voltage)	50 Hz	U <sub>eff</sub> kV	1.5
Test voltage		U <sub>eff</sub> kV	2

## Mechanical and thermal properties

Weight		approx. kg/km	10
Minimum bending radius	fixed installation	mm	10
	repeated bendings	mm	19
Permissible temperature range	fixed installation	°C	-90 up to + 200
Fire load		kWh/m	0.01