

2170006	DATA SHEET	 LAPP
valid from: 06.08.2025	RG-214 /U (M-17/75)	

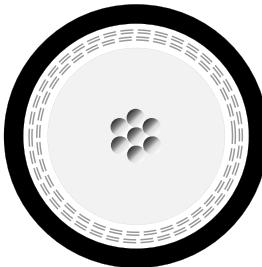
Application

RG 214 /U is a coaxial cable for the transmission of high-frequency signals. RG cables were originally standardised for military purposes and are now an internationally used standard in all areas of electronics.

This coaxial cable is used in telecommunications, data transmission, high-frequency communication, broadcasting and computer applications. It is used to connect systems that require high signal frequencies and low attenuation, as well as in test leads and high-quality installations that require low PIM and crosstalk.

The RG 214 /U coaxial cable is suitable for flexible use and for longer distances. The polyethylene with low dielectric constant enables fast signal propagation and good flexibility during installation. The RG 214 /U coaxial cable should only be installed indoors, outdoors only under protection from sunlight.

Design for M17/75-RG214 /U acc. to detail specification MIL-DTL-17 and detail specification sheet MIL-DTL-17/75.



Design

Conductor	Inner conductor:	stranded, silver-coated copper wires 7x0.752 mm	conductor diameter:	nom. 2.25 mm	
Insulation	Dielectric:	solid PE	insulation diameter:	nom. 7.25 mm	
Screen	Outer conductor:	Double braid of silver-coated copper wire	Inner braid:	nom. 95 % coverage	
		Outer braid:	nom. 98 % coverage	Braid diameter:	nom. 9.15 mm
Outer sheath	Type IIa:	PVC, black	outer diameter:	nom. 10.8 mm ± 0.18 mm	

Electrical properties at 20 °C

Conductor resistance	Inner conductor:	max. 5.8 Ω/km
Mutual capacitance		max. 105 pF/m
Characteristic impedance		50 Ω ± 2 Ω
Attenuation	200 MHz:	max. 10 dB/100 m
	400 MHz:	max. 15 dB/100 m
Velocity of propagation		nom. 0.66 c
Maximum operating voltage		5 kV (HF voltage)
Nominal voltage		max. 3.7 kV (RMS)
Test voltage		10 kV

Mechanical and thermal properties

Minimum bending radius	fixed installation:	6x outer diameter
	occasional flexing:	10x outer diameter

Temperature range -40 °C up to 85 °C

Flammability flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2

Note Trade product, no Lapp product

Environmental information These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

AbN
automation

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