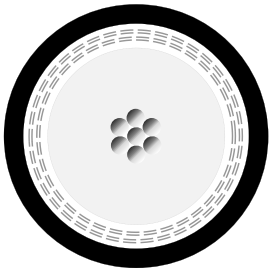
2170006	DATA SHEET	LAPP
valid from: 06.08.2025	RG-214 /U (M-17/75)	

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: Outer braid: Braid diameter:	 nom. 95 % coverage nom. 98 % coverage 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: 400 MHz:	max. 10 dB/100 m 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: occasional flexing:	6x outer diameter 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).

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