


2170005	<b>DATA SHEET</b>	
valid from: 30.04.2020	RG-213 /U	

## Application

RG-213 /U are coaxial cables for radio and computer systems, as well as applications related to commercial radio-frequency (high frequency) technology and electronics. They allow distortion-free and low-attenuation transmission of signals with a high bandwidth over shorter distances and were designed for operating frequencies up to 3 GHz. The cable is intended for limited movements and for fixed installation in dry and damp interiors and outdoors. It meets the requirements concerning high ambient temperatures and chemical stress.

## Design

Design	Cable design and electrical properties of M17/74-RG213 to MIL-C-17. Designation in accordance with MIL-DTL-17 H: M17/189-00001
Conductor	Inner conductor: stranded bare copper wires 7x 0.76 (3.17 mm <sup>2</sup> ) Ø: 2.25 ± 0.0254 mm
Insulation	PE, 7.25 mm Ø
Screen	Outer conductor: braid bare copper wires coverage 95 % (nominal value)
Outer sheath	PVC, black Outer diameter: 10.29 ± 0.18 mm

## Electrical properties at 20°C

Conductor resistance	Inner conductor: max. 5.8 Ω/km
Insulation resistance	min. 5 GΩ x km
Mutual capacitance	max. 101 pF/m (1 kHz)
Characteristic impedance	50 ± 2 Ω
Attenuation	max. 10 dB/100 m (200 MHz) max. 15 dB/100 m (400 MHz) max. 28 dB/100 m (1000 MHz) max. 52 dB/100 m (3000 MHz)
Velocity of propagation	0,66 c
Peak operating voltage	max. 5.0 kV (HF voltage)
Rated voltage	max. 3,7 kV (RMS)
Test voltage	10 kV

## Mechanical and thermal properties

Minimum bending radius	occasional flexing: 10 x cable Ø fixed installation: 6 x cable Ø
Temperature range	fixed installation: -40°C up to 80°C
Flammability	flame retardant acc. to IEC 60332-1-2
General requirements	This cable is conform to the EU-Directive 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).
Environmental information	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

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