


| | | |
|-----------------------------------|----------------------------|---|
| 2170006 | DATA SHEET |  |
| valid from: 23.09.2024 | RG-214 /U (M-17/75) | |

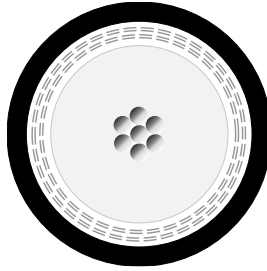
Application

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 |
| Velocity of propagation | | nom. 0.66 c |
| Characteristic impedance | | 50 Ω ± 2 Ω |
| Attenuation | 200 MHz: | max. 10 dB/100 m |
| | 400 MHz: | max. 15 dB/100 m |
| | 3000 MHz: | max. 56 dB/100 m |

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 |

Environmental information

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

Note

Trade product, no Lapp product

| | | |
|----------------------|-----------------------|-------------|
| Creator: KIOS / PDC | Document: DB2170006EN | Page 1 of 1 |
| Released: ALTE / PDC | Version: 08 | |