

## RG 142 AU VAR. A - NATURAL SHEATH

RG 142 AU

Nexans ref.: 10036186

Country ref.: 087009

RG142AU - Coaxial cable 50 ohms

### Description

To: MIL C17

#### Main characteristics

Operating temperature: - 90 to +250°C

Maximal operating frequency: 3 GHz

Good resistance to flame NFC 32070/C1 & C2 (CEI 332 -1)

Continuous working voltage: 1400 volts

Good resistance to aircraft fluids.

Capacitance: < 105 pF/m

Relative velocity of propagation: 69.5 %

Characteristic impedance at 200 MHz:  $50 \pm 2$  ohms

Attenuation

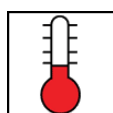
- at 200 MHz: 19 dB/100 m
- at 400 MHz: 27 dB/100 m
- at 3000 MHz: 79 dB/100 m
- at 10000 MHz: 163 dB/100 m

Dielectric withstanding at 50 Hz: 5 kV

Nominal weight: 66 kg/km

#### Application

High frequency connections operating at high temperature, or on equipment expected to work under severe conditions without failure.



Operating temperature, range  
-90 .. 250 °C

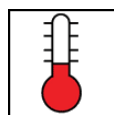
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### Related Information

In addition to the standard products you will find within these pages, our development and studies engineers are at your disposal to provide their experience in tailoring any of our products to meet your precise requirements.

### Contact

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### Characteristics

#### Construction characteristics

Conductor material	Silvered copper-clad steel
Type of conductor	Circular, solid
Insulation	PTFE
Screen	Double silvered copper braid
Outer sheath	Fiber glass

#### Dimensional characteristics

Number of cores	1
Conductor diameter	0.94 mm
Diameter over insulation	2.95 mm
Number of screen braids	2
Nominal outer diameter (mm)	5.1 mm
Wire diameter	0.94 mm
Number of wires per strand	1
Approximate weight (kg/km)	66 kg/km

#### Electrical characteristics

Impedance at 200 MHz	50 Ohm
Operating voltage (V)	1400 V
Relative propagation velocity	69.5 %
Nominal capacitance core to core	95.0 pF/m

#### Usage characteristics

Operating temperature, range	-90 .. 250 °C
Length (m)	100 m
Packaging	Reel