

# KX and RG - Standard electronic coaxial cables

## M17/172-00001 (RG 316U) VAR. A - M.T SHEATH

### Contact

Filotex  
Phone: +49 2166 - 272603  
Filotex-Sales.ND@nexans.com

**International Designation:** M17/172-00001 (RG 316U)

**Nexans ref.:** 10035768

**Country ref.:** 085790

**GTIN:** 3427570022763

RG316U - Coaxial cable 50 ohms according to M17/172-00001

## DESCRIPTION

To: MIL C17

### Main characteristics

Operating temperature: - 90 to +200°C (FEP JACKET)

Maximal operating frequency: 3 GHz

Good resistance to aircraft fluids.

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

Attenuation

- at 10 MHz: 10 dB/100 m
- at 200 MHz: 40 dB/100 m
- at 400 MHz: 55 dB/100 m
- at 3000 MHz: 160 dB/100m

Dielectric withstanding at 50 Hz: 2 kV

Nominal weight: 17 kg/km

### Application

High frequency connections operating at high temperature.

By their small dimensions, they are mainly designed for miniaturized connections, operating at high or low temperature.



## STANDARDS

**International** IEC 60332-1

**National** NF C 32-070/  
C1;NF C 32-070/C2



Cable flexibility  
**Flexible**



Operating temp.  
-90 .. 200 °C



Electro magnetic interference resistance  
**Yes**



RoHS compliant  
**Yes**

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## CHARACTERISTICS

### Construction characteristics

Conductor material	Silvered copper-clad steel
Type of conductor	Circular, stranded
Insulation	PTFE
Screen	Silver plated copper braid
Outer sheath	FEP

### Dimensional characteristics

Number of cores	1
Conductor diameter	0.5 mm
Diameter over insulation	1.52 mm
Number of screen braids	1
Nominal outer diameter	2.49 mm
Wire diameter	0.17 mm
Number of wires per strand	7
Approximate weight	17 kg/km

### Electrical characteristics

Impedance at 200 MHz	50 Ohm
Operating voltage	900 V
Relative propagation velocity	69.5 %
Nominal capacitance core to core	105.0 pF/m

### Mechanical characteristics

Cable flexibility	Flexible
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### Usage characteristics

Operating temperature, range	-90 .. 200 °C
Length	250 m
Electro magnetic interference resistance	Yes
RoHS compliant	Yes
Packaging	Reel

## SELLING 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.