

Description

RG coaxial cable as per MIL-C-17 - 50 Ohm

Coaxial Cables

CAVEL®

since 1968

Data Sheet

RG174A/UZHN

7x0,16



| | | | | |
|---|--------|------|--------|--------|
| Ø | 0,48 | 1,50 | 1,90 | 2,80 |
| | (FeCu) | (PE) | (CuSn) | (LSZH) |

Standards

MIL-C-17

Construction data

| | | | | |
|--|--------|--------|----------------|----|
| Inner conductor of stranded copper clad steel wires | (FeCu) | 7x0,16 | Ø 0,48 ± 0,015 | mm |
| Dielectric of solid polyethylene | (PE) | | Ø 1,50 ± 0,08 | mm |
| Braid of tinned copper wires | (CuSn) | | | |
| Braid optical coverage (IEC 96-1) | | | 87 | % |
| Diameter over Braid | | | Ø 1,90 | mm |
| Outer sheath of Thermoplastic material - black - halogen-free, low smoke, flame retardant and UV-resistant | (LSZH) | | Ø 2,80 ± 0,12 | mm |

Printed each 50 cm by yellow ink-jet :

CAVEL - RG 174A/UZHN - MADE IN ITALY - 50 Ohm MIL-C-17 gggaan

(gggaan=batch)

Physical data

| | | |
|--|-----------|-------|
| Weight of copper conductors | 4,59 | kg/km |
| Total weight of cable | 12,46 | kg/km |
| Minimum bending radius (single/repeated bending) | 15/30 | mm |
| Maximum cable pulling strength | 120 | N |
| Stripping force between inner conductor and dielectric | < 20 | N |
| Minimum installation temperature | -5 | °C |
| Operating temperature | -25 / +80 | °C |

Electrical data

| | | | |
|---------------------------------------|------------|----------|--------------|
| Characteristic impedance | 50 ± 2 | Ohm | |
| Capacitance (@1kHz) | 101 ± 2 | pF/m | |
| Velocity Ratio | 66 % | | |
| Inner conductor resistance | 290 | Ohm/km | |
| Outer conductor resistance | 42 | Ohm/km | |
| Loop resistance | 332 | Ohm/km | |
| Sheat Insulation voltage (spark test) | 2 | kV | |
| Structural return loss (SRL) | Max. power | | |
| 30 - 300 MHz | >21 dB | 100 MHz | 50 W |
| 300 - 600 MHz | >19 dB | 1000 MHz | 15 W |
| 600 - 1000 MHz | >18 dB | | 400 MHz 25 W |
| Screening Attenuation (SA) | | | |
| 30 - 1000 MHz | >55 dB | | |

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Date

29/02/2016

Responsible

Alberto Scardovi

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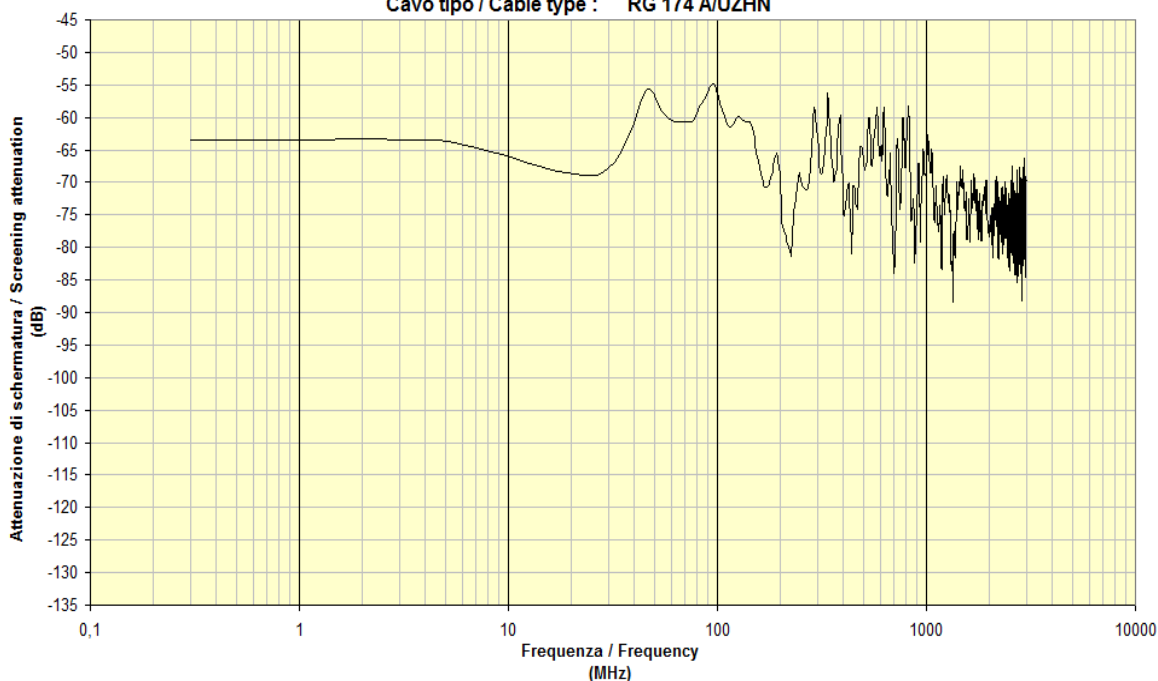
RG174A/UZHN

Attenuation (at 20°C)

| Frequency [MHz] | Attenuation [dB/100m] | Frequency [MHz] | Attenuation [dB/100m] |
|-----------------|-----------------------|-----------------|-----------------------|
| 50 | 20,00 | 470 | 63,00 |
| 200 | 42,50 | 800 | 82,95 |
| 300 | 51,00 | 1000 | 97,00 |

Attenuazione di schermatura / Screening Attenuation

Cavo tipo / Cable type : RG 174 A/UZHN



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