



50 Ω COAXIAL CABLES



RG 58 C/U

✓STUDIO ✓INSTALLATION

PVC

OFC

ANALOG

APPLICATION

This cable can do it and its versatility is quite remarkable. Our RG-cables are famous for their age resistance and longevity. RG (radio guide)-cables have either one or two cross braided shields, designed according to the American MIL-C-17-Norm. This norm, originally designed for the military, guarantees excellent and consistent manufacturing quality and durability. RG-cables are suitable for a vast number of applications in high frequency technology, electronics, and data transmission.

CONSTRUCTION DATA

| | |
|-----------------|--|
| Inner conductor | 19 x 0,18 mm ø (AWG 20) Tinned Bare Copper |
| Insulation | 2,95 mm ø Solid PE |
| Shielding | Tinned Copper Braiding % 95 |
| Outer Jacket | Pvc |
| Outer Diameter | 4,95 mmø |
| Cable Weight | 3,8 Kg/100 m |

ELECTRICAL DATA

| | |
|--------------------------|-------------|
| DC resistance | |
| Inner conductor | < 37 Ω / km |
| Shield | < 17 Ω / km |
| Mutual capacitance | 100± 2 pF/m |
| Velocity of Propagation | 66% |
| Characteristic Impedance | 50 Ω ± 2 |
| Screening factor | ≥ 55 dB |
| Max. Operating Voltage | 300 V Rms |
| Attenuation (db /100 Mt) | |

| | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Attenuation (db /100 Mt) | | | | | | |
| Frequency (MHz) | 10 | 100 | 200 | 400 | 800 | 1000 |
| Attenuation (dB/100m) | 10.6 | 15.5 | 23.2 | 34.6 | 52.6 | 59.5 |

Return loss (dB)

| | |
|-----------------|------|
| Frequency (MHz) | (dB) |
| 50 – 100 | ≥ 23 |
| 100 – 300 | ≥ 23 |
| 300 – 500 | ≥ 21 |
| 500 – 1000 | ≥ 21 |

MECHANICAL DATA

| | |
|------------------------|-----------------------------|
| Minimum bending radius | 8 x D (D= outer diameter) |
| Temperature range | -30° C to + 70° C |

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www.ivoxcable.com

