

RG174

RG-Cables acc. to MIL-C-17F and MIL-C-17G



Application

see product overview

Standards

acc. to MIL-C-17F and MIL-C-17G

Flame resistance

acc. to IEC 60332-1

Construction

| | |
|-----------------|---|
| Inner conductor | stranded copperclad steel wires, bare 7 x 0.16, diameter 0.48 ± 0.01 mm |
| Insulation | PE, diameter 1.52 ± 0.05 mm |
| Copper braid | tinned, 87% optical coverage |
| Sheath | PVC, diameter 2.7 ± 0.1 mm |
| Printing | DRAKA COMTEQ- M17/119-RG174 |

Mechanical properties

| | | |
|------------------------|---------------------|---------------------|
| Minimum bending radius | without load | 5 x outer diameter |
| | with load | 10 x outer diameter |
| Temperature | during operation | -40° C to + 85° C |
| | during installation | -15° C to + 55° C |

Electrical properties

at 20°C

| | | |
|--------------------------|-----------------------|-----------------------|
| DC resistance | Inner conductor | 315 Ω/km |
| | Outer conductor | 37.3 Ω/km |
| Mutual capacitance | | 100 pF/m |
| Characteristic impedance | | 50 Ω ± 2 Ω |
| Velocity ratio | | 66 % |
| Operating voltage | | 1.1 kV _{rms} |
| Test voltage | Inner/Outer conductor | 2.0 kV _{rms} |

RG174

Electrical data

at 20°C

| Frequency (MHz) | Attenuation (dB/100m) | Max. power rating (Watts) (ambient temperature 25°C and max. inner conductor temperature 70°C) | Return loss (dB) several peaks are allowed |
|-----------------|-----------------------|---|---|
| 10 | 9.5 | 240 | |
| 100 | 31 | 68 | |
| 200 | 51 | 45 | Frequency (MHz) |
| 400 | 74 | 32 | 10-300 ≥ 23 |
| 1000 | 120 | 18 | 300-1000 ≥ 21 |

All other requirements acc. to MIL-C-17F respectively MIL-C-17G

Technical data

| Product code | Designation | Type | Brand name | Outer diameter | Weight | Standard delivery length | Drum size *PWD | Gross weight | Copper content | Tensile force |
|--------------|-------------|-------------------------|-----------------------|----------------|--------|--------------------------|---------------------|--------------|----------------|---------------|
| | | | | mm | kg/km | m | | N | | N |
| 1002731 | 2YCY | 0.48L/ 1.5z Staku | M17/119 - RG174 | 2.7 | 11.2 | 1000/10 0 | 370/180 / 200 | 13/1.2 | 5.9 | 35 |
| 1002730 | 2YCY | 0.48L/ 1.5z Staku | M17/119 - RG174 | 2.7 | 11.2 | 1000/10 0 | 370/180 / 200 | 13/1.2 | 5.9 | 35 |

*PWD (Plywood drum)

[PRODUCT CODE TABLE]

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