

RG6

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 | copperclad steel wire, diameter 0.73 ± 0.01 mm |
| Insulation | PE, diameter 4.7 ± 0.05 mm |
| 1. braid | silver plated , 96% optical coverage |
| 2. braid | bare, 96% optical coverage, diameter 6.2 mm |
| Sheath | PVC, diameter 8.40 ± 0.15 mm |

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 | 105 Ω /km |
| | 1st braid | 6.5 Ω /km |
| | 2nd braid | 7.5 Ω /km |
| Mutual capacitance | | 67 nF/m |
| Characteristic impedance | | 75 $\Omega \pm 3 \Omega$ |
| Velocity ratio | | 66 % |
| Operating voltage | | ≤ 2.4 kV _{rms} |
| Test voltage | Inner-/outer conductor | 7.0 kV _{rms} |

RG6

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) |
|-----------------|-----------------------|---|
| 10 | 3.0 | 1600 |
| 100 | 9.8 | 500 |
| 200 | 14 | 340 |
| 400 | 20 | 220 |
| 1000 | 32 | 150 |
| 2000 | 47 | 70 |
| 3000 | 60 | 50 |

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 | Gross weight | Copper content | Tensile force |
|--------------|-------------|-------------------|------------|----------------|--------|--------------------------|---------------|--------------|----------------|---------------|
| | | | | mm | kg/km | m | *PWD | kg | | N |
| 1002714 | 2YCCY | 0.73/4.7 Ds Staku | M17/2-RG6 | 8.4 | 115 | 1000 | 760/360 / 420 | 128 | 70.1 | 385 |

*PWD (Plywood drum)

Product Code Table

| Product Description | Product Code | PG Reference Code | PG Part Number |
|---------------------|--------------|-------------------|-----------------|
| RG6 MIL-C-17F | | 60014290 | 60014290 |

© PRYSMIAN GROUP 2008, All Rights Reserved

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group: any modification or alteration afterwards of product may give different result.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.