

# RG058

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



### Application

see product overview

### Standards

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

### Flame resistance

acc. to IEC 60332-1

### Construction

|                 |                                                            |
|-----------------|------------------------------------------------------------|
| Inner conductor | stranded copper wires, tinned, diameter $0.90 \pm 0.01$ mm |
| Insulation      | PE, diameter $2.95 \pm 0.05$ mm                            |
| Outer conductor |                                                            |
| Copper braid    | tinned, 96% optical coverage                               |
| Sheath          | PVC, altern. FRNC, diameter $4.95 \pm 0.10$ mm<br>black    |

### 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   |
| Corrosivity            | only for FRNC type  | IEC 60754-2         |

### Electrical properties

at 20°C

|                          |                       |                          |
|--------------------------|-----------------------|--------------------------|
| Loop resistance          |                       | $\leq 50 \Omega$         |
| Characteristic impedance |                       | $50 \Omega \pm 2 \Omega$ |
| Velocity ratio           |                       | 66 %                     |
| Mutual capacitance       |                       | 100 nF/km                |
| Transfer impedance       |                       | 36 mΩ/m                  |
| Operating voltage        |                       | 1.8 kV <sub>rms</sub>    |
| Test voltage             | Inner/Outer conductor | 5.4 kV <sub>rms</sub>    |

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## Electrical data

at 20°C

| Frequency (MHz) | Attenuation (dB/100m) | Max. power rating (Watts)<br>(at ambient temperature 25°C and max. inner conductor temperature of 70°C) | Return loss (dB)<br>several peaks are allowed |      |
|-----------------|-----------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------|------|
|                 | nominal               | maximum                                                                                                 |                                               |      |
| 10              | 4.2                   | 750                                                                                                     | Frequency (MHz)                               |      |
| 100             | 15.7                  | 230                                                                                                     | 50-100                                        | ≥ 28 |
| 200             | 23.0                  | 180                                                                                                     | 100-300                                       | ≥ 27 |
| 400             | 34.5                  | 110                                                                                                     | 300-500                                       | ≥ 26 |
| 1000            | 60.0                  | 65                                                                                                      | 500-1000                                      | ≥ 25 |

All other requirements acc. to MIL-C-17F, 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/ring       | kg           |                |               |
| 1002717      | 2YCY        | 0.9Lz/<br>2.95z | M17/28-<br>RG058         | 4.95           | 37     | 1000/100                 | 400/120/<br>280 | 39/3.7       | 20.4           | 120           |
| 1002919      | 2YCH        | 0.9Lz/<br>2.95z | M17/28-<br>RG058<br>FRNC | 4.95           | 38     | 1000/100                 | 400/120/<br>280 | 40/3.8       | 20.4           | 120           |

\*PWD (Plywood drum)