

RG59

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



Application

see product overview

Standards

According to MIL-C-17F, MIL-C-17G

Flame resistance

acc. to IEC 60332-1

Construction

Inner conductor	copperclad steel wire, diameter 0.59 ± 0.01 mm
Insulation	PE, diameter 3.70 ± 0.05 mm
Outer conductor	
Copper braid	bare, 95% optical coverage
Sheath	PVC, diameter 6.15 ± 0.10 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

Loop resistance		$\leq 165 \Omega/\text{km}$
Characteristic impedance		$75 \Omega \pm 3 \Omega$
Mutual capacitance		67 pF/m
Velocity ratio		66 %
Transfer impedance	3 MHz	36 mΩ/m
Operating voltage		1.7 kV _{rms}
Test voltage	Inner/Outer conductor	7 kV _{rms}

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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
	nominal	maximum	
10	3.5	1100	
100	11	340	
200	16	230	Frequency (MHz)
400	24	180	10-300
1000	38	105	300-1000
			≥ 26
			≥ 24

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		
1002721	2YCY	0.59/3.7 Staku	M17/29-RG59	6.15	53.6	1000/500/100	500/200/310 and 400/150/330	57/29/5.5	24.7	145
1002726	2YCY	0.59/3.7 Staku	M17/29-RG59	6.15	53.6	1000/100/500/	500/200/310 and 400/150/330	57/29/5.5	24.7	145

*PWD (Plywood drum)