



## 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 $0.59 \pm 0.01$ mm
Insulation	PE, diameter $3.70 \pm 0.05$ mm
Outer conductor	
Copper braid	bare, 95% optical coverage
Sheath	PVC, diameter $6.15 \pm 0.10$ 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 <sub>rms</sub>
Test voltage	Inner/Outer conductor	7 kV <sub>rms</sub>



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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	≥ 26
1000	38	105	300-1000	≥ 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)