

RG - Cables acc. to American Military-Specification MIL-C-17F; MIL-C-17G and MIL-C-17D RG59



Construction

		2YCY
		0.59/3.7
		RG59 resp. *RG-59B/U
Inner conductor		copperclad steel wire
	mm	0.59 ± 0.01
Insulation		PE
	mm	3.70 ± 0.05
Outer conductor		
Copper braid		bare, 95% optical coverage
Sheath		PVC
	mm	6.15 ± 0.10

Technical data

Product code	Designation	Type	Brand name	Outer diameter mm	Weight approx. kg/km	Standard delivery length m	Drum size **PWD/ring	Gross weight kg	Copper content	Tensile force N
CK2772000	2YCY	0.59/3.7 Staku	M17/29-RG59	6.15	54	1000/100	500/200/310	57/5.5	23.2	145
CK2772099	2YCY	0.59/3.7 Staku	RG-59B/U	6.15	54	1000/100	500/200/310	57/5.5	23.2	145

*RG-59B/U acc. to MIL-C-17D

**PWD (plywood drum)

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Electrical properties

		2YCY
		0.59/3.7
		RG59 resp. *RG-59B/U
Loop resistance	Ω/km	≤ 165
Characteristic impedance	Ω	75 ± 3
Mutual capacitance	pF/m	67
Velocity ratio	%	66
Attenuation at		
10 MHz	dB/100m	3.5
100 MHz		11
200 MHz		16
400 MHz		24
1000 MHz		38
Maximum Power rating at (ambient + 25°C)		
10 MHz	Watts	1100
100 MHz		340
200 MHz		230
400 MHz		180
1000 MHz		105
***Return loss (100 m)		
10-300 MHz	dB	≥ 30
300-1000 MHz		≥ 26
Transfer impedance at 3 MHz		
Measurement value	$\text{m}\Omega/\text{m}$	36
Operating voltage	KV_{rms}	1.7
Test voltage		
Inner-/outer conductor	KV_{rms}	7

***only for cables acc. to nach MIL-C-17F respectively. MIL-C-17G, not for cables acc. to MIL-C-17D

Mechanical properties

Operating temperature	- 40°C to 85°C
Installation temperature	- 15°C to 55°C
Minimum bending radius (during installation)	
without load	5 x outer diameter
with load	10 x outer diameter
Fire propagation test	acc. to IEC 60332-1

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