

RG - Cables acc. to American Military-Specification MIL-C-17F; MIL-C-17G and MIL-C-17D RG58



Construction

		2YCY
		0.9L/2.95
		RG058 resp. *RG-58C/U
Inner conductor		stranded copper wires, tinned
	mm	0.90 ± 0.01
Insulation		PE
	mm	2.95 ± 0.05
Outer conductor		
Copper braid		tinned, 96% optical coverage
Sheath		PVC black
	mm	4.95 ± 0.10

Technical data

Product code	Designation	Type	Brand name	Outer diameter mm	Weight kg/km	Standard delivery length m	Drum size **PWD/ ring	Gross weight kg	Copper content	Tensile force N
CK2771600	2YCY	0.9Lz/2.95z	M17/28-RG058	4.95	37	1000/100	400/120/280	39/3.7	19.2	120
*CK2771699	2YCY	0.9Lz/2.95z	*RG-58C/U	4.95	37	1000/100	400/120/280	39/3.7	19.2	120

*RG-58C/U acc. to MIL-C-17D

**PWD (plywood drum)

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Electrical properties

		2YCY
		0.9L/2.95
		RG058 bzw. *RG-58C/U
Loop resistance	Ω/km	≤ 50
Characteristic impedance	Ω	50 ± 2
Mutual capacitance	pF/m	100
Velocity ratio	%	66
Attenuation at		
10 MHz	dB/100m	4.2
100 MHz		15.7
200 MHz		23.0
400 MHz		34.5
1000 MHz		60.0
Maximum Power rating at (ambient + 25°C)		
10 MHz	Watt	750
100 MHz		230
200 MHz		180
400 MHz		110
1000 MHz		65
***Return loss		
50-100 MHz	dB	≥ 28
100-300 MHz		≥ 27
300-500 MHz		≥ 26
500-1000 MHz		≥ 25
Transfer impedance at 3 MHz		
Measurement value	$\text{m}\Omega/\text{m}$	36
Operating voltage	KV_{rms}	1.8
Test voltage		
Inner-/outer conductor	KV_{rms}	5.4

***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