

RG214

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



Application

see product overview

Standards

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

Flame resistance

acc. to IEC 60332-1

Construction

Inner conductor	stranded copper wires, silver plated 7 x 0.75, diameter 2.25 ± 0.1 mm
Insulation	PE, diameter 7.25 ± 0.15 mm
1 st braid	silver plated, 94% optical coverage
2 nd braid	silver plated, 97% optical coverage
Sheath	PVC, diameter 10.80 ± 0.18 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

RG214

Electrical properties

at 20°C

DC resistance	Inner conductor	5.7 Ω/km
	1 st braid	9.6 Ω/km
	2 nd braid	8.2 Ω/km
Mutual capacitance		100 pF/m
Characteristic impedance		50 Ω ± 2 Ω
Velocity ratio		66 %
Maximum operating frequency		11 GHz
Operating voltage		3.7 kV _{rms}
Test voltage	Inner/Outer conductor	10.0 kV _{rms}

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	
			Frequency (MHz)	
50	4.8	1500	100	≥ 23
100	6.9	920	1000	≥ 20
400	15.2	330	3000	≥ 19
1000	26.7	160	5000	≥ 18
3000	54.8	75		
5200	79.8	61		
5800	86.6	56		

All other requirements acc. to MIL-C-17F respectively 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/rin g	kg		N
1002737	2YCCY	2.25Ls/ 7.25Ds	M17/75- RG214	10.8	200	1000/100	760/360/ 420	212/2 0	132.9	730

*PWD (Plywood drum)

RG214

Product Code Table

Product Description	Product Code	PG Reference Code	PG Part Number
RG214 MIL-C-17F 100RW	1002737-00100RW	60014305	60014306
DR RG214 M17 50 2.25S/7.25 PVC BK		60014305	60014305
DR RG214 M17 50 2.25S/7.25 PVC BK 100DW	1002737-00100DW	60014305	60017543
DR RG214 M17 50 2.25S/7.25 PVC BK 500DW	1002737-00500DW	60014305	60017544
DR RG214 M17 50 2.25S/7.25PVC BK 1000DW	1002737-01000DW	60014305	60017545

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