

RG214 FRNC

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



Application

see product overview

Standards

acc. to 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 ± 0.10 mm
Insulation	PE, diameter 7.25 ± 0.10 mm
1 st braid	silver plated, 94% optical coverage
2 nd braid	silver plated, 97% optical coverage
Sheath	Flame Retardant Non Corrosive Copolymer, colour black RAL 9005, diameter 10.80 ± 0.15 mm
Marking	DRAKA - M17/75 - RG214 FRNC + meter marking + batch number

Mechanical properties

Minimum bending radius	without load	5 x outer diameter
	with load	10 x outer diameter
Temperature	during operation	-45° C to + 85° C
	during installation	-15° C to + 55° C
Corrosivity of fire gases		acc. to IEC 60754-2
Smoke density		acc. to IEC 61034-1 and 2

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Electrical properties

at 20°C

DC resistance	Inner conductor	5.7 Ω/km
	1 st braid	6.2 Ω/km
	2 nd braid	6.2 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	7.1	920	1000	≥ 20
400	15.9	330	3000	≥ 19
1000	28.4	160	5000	≥ 18
3000	62.0	75	11000	≥ 17
5200	92.5	61		
5800	100.0	56		

All other requirements acc. to 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		N
1002757 CK295090 1	2YCCH	2.25Ls/7.25 Ds	M17/75- RG214 FRNC	10.8	200	1000	760/360/5 80	212	132.9	730

*PWD (Plywood drum)

Product Code Table

Product Description	Product Code	PG Reference Code	PG Part Number
DR RG214 50 2.25S/7.25 LSHF BK		60017547	60017547
DR RG214 50 2.25S/7.25 LSHF BK 500DW	1002757-00500DW	60017547	60017548
DR RG214 50 2.25S/7.25 LSHF BK 1000DW	1002757-01000DW	60017547	60017549