



MRC 600 AF, 02Y(St)C2Y, 4.42/11.56AF

Coaxials basing upon EN 50117-1 and IEC 61196-1



Application

The radio-frequency cables described in this chapter are used in transmitter and receiver installations in radio communications as well as in the entire field of commercial radio-frequency technology and electronics.

Standards

EN 50117-1, IEC 61196-1

Flame resistance

Construction

Inner conductor	copper wire, bare, diameter 4.42 mm ± 0.01 mm
Insulation	Foam-PE, diameter 11.56 mm ± 0.05 mm
Outer conductor	Al-PET-Al - foil + copper braid, tinned, 90% optical coverage
Sheath	PE, 15.0 mm ± 0.3 mm
Colour	black RAL 9005
Printing	DRAKA COMTEQ MRC 600 AF

Mechanical properties

Minimum bending radius	without load	5 x D (D= outer diameter)
	with load	10 x D (D= outer diameter)
Temperature range	during operation	- 40° C to + 85° C
	during installation	- 15° C to + 55° C
Corrosivity		acc. to IEC 60754-1/2

Electrical properties

at 20°C

DC resistance	Inner conductor	1.2 Ω/km
	Outer conductor	3.9 Ω/km
Mutual capacitance	pF/m	77 pF/m
Velocity ratio	%	86 %
Characteristic impedance	at 200 MHz	50 Ω ± 2 Ω
Transfer impedance	at 10 MHz	≤ 5 mΩ/m
Screening factor	at 100-1000 MHz	90 dB
Operating voltage		1.5 kV _{rms}
Test voltage	Inner/Outer conductor	3.5 kV _{rms}
Insulation resistance		≥ 10 GΩ*km



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Electrical data

at 20°C

Frequency (MHz)	Attenuation (dB/100m)	Max. power rating (Watts) (ambient temperature 40°C and max. inner conductor temperature 100°C)	Return loss (dB) several peaks are allowed	
			Frequency	
	nominal	maximum		
30	1.4	5510	50-450	≥ 26
150	3.2	2410	450-1000	≥ 23
220	3.9	1970	1000-2500	≥ 15
450	5.6	1350		
900	8.2	930		
1800	12.1	630		
2500	14.5	520		
5200	22.5	338		
5800	23.8	320		

Technical data

Product code	Designation	Type	Brand name	Outer diameter mm	Weight kg/km	Standard delivery length m	Drum size *PWD	Gross weight kg	Copper content	Tensile force N
1002692 CK2656000	02Y(St) C2Y	4.42/11.56 AF PE black	MRC 600 AF	15.0	283	1000	1000/5 00/560	350	201	1115

*PWD (plywood drum)