

The right to alterations reserved

**Coaxials basing upon
EN 50117-1 and IEC 61196-1
MRC 600 AF
02Y(St)C2Y 4.42/11.56AF**

**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.

Construction

		MRC 600 AF
		02Y(St)C2Y
		4.42/11.56AF
Inner conductor		copper wire, bare
	Ø mm	4.42 ± 0.01
Insulation		Foam-PE
	Ø mm	11.56 ± 0.05
Outer conductor		Al – PET - Al foil + copper braid, tinned, 90% optical coverage
Sheath		PE
	Ø mm	15.0 ± 0.3
	Colour	black RAL 9005
	Marking	DRAKA COMTEQ MRC 600 AF

Technical data

Product code	Designation	Type	Brand name	Outer diameter mm	Weight approx. kg/km	Standard delivery length m	Drum size *OWD	Gross weight kg	Copper content	Tensile force N
CK2656000	02Y(St)C2Y	4.42/11.56 AF PE black	MRC 600 AF	15.0	283	1000	1000/500/560	350	201	1115

*OWD (oneway drum)

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Electrical properties

		MRC 600 AF
		02Y(St)C2Y
		4.42/11.56AF
DC resistance		
Inner conductor	Ω/km	1.2
Outer conductor		3.9
Mutual capacitance	pF/m	77
Velocity ratio	%	86
Characteristic impedance at		
200 MHz	Ω	50 ± 2
Attenuation at / Power Rating (ambient temp. + 40°C and inner conductor temp. max. + 100°C)		
30 MHz	dB/100m Watts	1.4/5510
150 MHz		3.2/2410
220 MHz		3.9/1970
450 MHz		5.6/1350
900 MHz		8.2/930
1800 MHz		12.1/630
2500 MHz		14.5/520
5200 MHz		22.5/338
5800 MHz	23.8/320	
Transfer impedance at		
10 MHz	$\text{m}\Omega/\text{m}$	≤ 5
Return loss at		
50-450 MHz	dB	≥ 26
450-1000 MHz		≥ 23
1000-2500 MHz		≥ 15
Screening factor at		
100-1000 MHz	dB	90
Insulation resistance	$\text{G}\Omega/\text{km}$	≥ 10
Test voltage		
Inner-/outer conductor	kV_{rms}	3.5
Operating voltage	kV_{rms}	1.5

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
Corrosivity	acc. to IEC 60754-1/2