

MRC 400 AFB, 02Y(St)C2Y, 2.74/7.24AFB

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, 61196-1

Flame resistance

Construction

Inner conductor	copper wire, bare, diameter 2.74 mm ± 0.01 mm			
Insulation Foam-PE, diameter 7.24 mm ± 0.05 mm				
Outer conductor AI-PET- foil bonded to the dielectric + copper braid, tinned, 93% optical coverage				
Sheath PE, diameter 10.3 mm ± 0.2 mm				
Colour	black, RAL 9005			
Printing	DRAKA MRC 400 AFB			

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

DC resistance Inner conductor 4.6 Ω/km Outer conductor 5.4 Ω/km Mutual capacitance 79 pF/m Velocity ratio 85 % Characteristic impedance at 200 MHz $50 \Omega \pm 2 \Omega$ Transfer impedance at 10 MHz ≤ 5 mΩ/m at 100-1000 MHz 90 dB Screening factor Operating voltage 1.2 kV_{rms} Test voltage Inner/Outer conductor 3.0 kV_{rms} Insulation resistance ≥ 10 GΩ*km

www.drakact.com I www.draka.com

koeln.info@draka.com

at 20°C



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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		
	nominal	maximum	Frequency		
30	2.2	3330	50-450	≥ 26	
150	5.0	1470	450-1000	≥ 23	
220	6.1	1200	1000-2500	≥ 15	
450	8.9	830			
900	12.8	580			
1800	18.6	400			
2500	22.3	330			
5200	33.6	222			
5800	35.5	210			

Technical data

Product code	Designation	Туре	Brand name	Outer diameter mm	Weight kg/km	Standard delivery length m	Drum size *PWD	Gross weight kg	Copper content	Tensile force N
1002691 CK2654000	02Y(St) C2Y	2.74/7.24 AFB PE black	MRC 400 AFB	10.3	136.4	1000	760/470/ 500	152	103	515

*PWD (plywood drum)