



MRC 200 AFB, 02Y(St)C2Y, 1.12/2.95AFB

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 1.12 mm ± 0.01 mm
Insulation	Foam-PE, diameter 2.95 mm ± 0.05 mm
Outer conductor	Al-PET - foil bonded to the dielectric + copper braid, tinned, 96% optical coverage
Sheath	PE, diameter 4.95 mm ± 0.15 mm
Colour	black RAL 9005
Printing	DRAKA COMTEQ MRC 200 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

at 20°C

DC resistance	Inner conductor	17.6 Ω/km
	Outer conductor	14.0 Ω/km
Mutual capacitance		80 pF/m
Velocity ratio		83 %
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		0.8 kV _{rms}
Test voltage	Inner/Outer conductor	1.6 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 (MHz)	
	nominal	maximum		
30	5.8	1020	50-450	≥ 26
150	13.1	450	450-1000	≥ 23
220	15.9	370	1000-2500	≥ 15
450	22.8	260		
900	32.6	180		
1800	46.6	130		
2500	55.4	110		
5200	81.9	74		
5800	86.5	70		

Technical data

Product code	Designation	Type	Brand name	Outer diameter	Weight	Standard Delivery length m	Drum size	Gross weight kg	Copper content	Tensile force
				mm	kg/km		*PWD			N
1002688 CK2652000	02Y(St) C2Y	1.12/2.95 AFB PE black	MRC 200 AFB	5.0	33	1000	400/120/ 280	35	21	155

*PWD (plywood drum)