



02Y(St)C2Y 1.4/3.8AF

Coaxials basing upon DIN 47264, 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

DIN 47264, EN 50117

Flame resistance

Construction

Inner conductor	copper wire, bare, diameter 1.42 ± 0.01
Insulation	Foam-PE, diameter 3.81 ± 0.05 mm
Outer conductor	Al-PETP-Al-foil + copper braid, tinned, 86% optical coverage
Sheath	PE, diameter 6.1 ± 0.2 mm black, RAL 9005
Printing	DRAKA COMTEQ 1.4/3.8AF LOW LOSS

Mechanical properties

Minimum bending radius	without load	5x outer diameter
	with load	10x outer diameter
Temperature	during operation	- 30°C to 70°C
	during installation	- 15°C to 55°C
Corrosivity		acc. to IEC 60754-1/2

Electrical properties

at 20°C

DC resistance	Inner conductor	$\leq 11.5 \Omega/\text{km}$
	Outer conductor	$\leq 12.5 \Omega/\text{km}$
Mutual capacitance		79 pF/m
Velocity ratio		84 %
Characteristic impedance	at 200 MHz	$50 \Omega \pm 2 \Omega$
Test voltage	Inner/Outer conductor	2.0 kV _{rms}
Operating voltage		1.0 kV _{rms}

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Screening factor	100-1000 MHz	90 dB
Transfer impedance	10 MHz	≤ 5 mΩ/m

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		
1	0.8	6500	10-450	≥ 26
10	2.5	2580	450-1000	≥ 23
100	7.8	808	1000-2000	≥ 15
200	11.0	566		
800	22.5	275		
1000	25.3	240		
1600	33.4	190		
2000	37.5	170		
2400	41.6	153		
3000	46.5	137		
5200	63.3	105		
5800	66.8	100		

Technical data

Product code	Designation	Type	Brand name	Outer diameter	Weight	Gross weight	Copper content	Tensile force	Standard delivery length	Drum size
				mm	kg/km	kg/km		N	m	*PWD
CK2605700	02Y(St)C2Y	1.4/3.8 AF PE black	1.4/3.8 AF Low Loss	6.1	47	51	30	160	1000	500/200/ 360

*PWD (Plywood drum)