



## 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 $1.42 \pm 0.01$
Insulation	Foam-PE, diameter $3.81 \pm 0.05$ mm
Outer conductor	Al-PETP-Al-foil + copper braid, tinned, 86% optical coverage
Sheath	PE, diameter $6.1 \pm 0.2$ 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 <sub>rms</sub>
Operating voltage		1.0 kV <sub>rms</sub>

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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)