



02Y(St)C2Y 2.7/7.3AF, 02Y(St)CH 2.7/7.3AF

Coaxials basing upon DIN 47264, EN50117-1 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

Flame resistance

acc. to IEC 60754-2

Construction

Inner conductor	copper wire, bare, diameter 2.71 ± 0.005 mm
Insulation	Foam-PE, diameter 7.25 ± 0.10
Outer conductor	Al-PETP-Al-foil + copper braid, tinned, 93% optical coverage
Sheath	PE, diameter 10.3 ± 0.2 black, RAL 9005

Mechanical properties

Minimum bending radius	without load	5 x outer diameter
	with load	10 x outer diameter
Temperature	during operation	-30° C to + 70° C
	during installation	-15° C to + 55° C
Corrosivity		IEC 60332-3-24



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Electrical properties

at 20°C

DC resistance	Inner conductor	3.1 Ω/km
	Outer conductor	4.7 Ω/km
Mutual capacitance		79 pF/m
Velocity ratio		84 %
Characteristic impedance at 200 MHz		50 Ω ± 2 Ω
Transfer impedance	1 MHz	≤ 5 mΩ/m
	10 MHz	≤ 4 mΩ/m
	100 MHz	≤ 2 mΩ/m
Operating voltage		1.2 kV _{rms}
Test voltage	Inner/Outer conductor	3.0 kV _{rms}
Screening factor	100-1000 MHz	≥ 90 dB
	1000-3000 MHz	≥ 80 dB
Insulation resistance		≥ 10 GΩ*km

Electrical data

at 20°C

Frequency (MHz)	Attenuation (dB/100m)	Return loss (dB)	
		Frequency (MHz)	
1	0.5	10-450	≥ 26
10	1.4	450-1000	≥ 23
100	4.1	1000-3000	≥ 18
200	5.7		
500	9.3		
800	13.8		
1000	13.4		
1500	16.7		
2000	19.5		
2500	22.1		
3000	24.8		
3500	27.1		
4000	29.3		
5250	34.3		
5725	36.3		
6000	37.2		



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Technical data

Product code	Designation	Type	Brand name	Outer diameter mm	Weight kg/km	Standard delivery length m	Drum size *PWD	Gross weight kg	Copper content	Tensile force N
CS2750700	02Y(St)C2Y	2.7/7.3 AF	2.7/7.3AF Low Loss	10.3	136	1000	760/470/500	150	90	505
CK7550700	02Y(St)CH	2.7/7.3 AF	2.7/7.3 AF Low loss FRNC-C	10.3	145	1000	760/470/500	150	90	505

