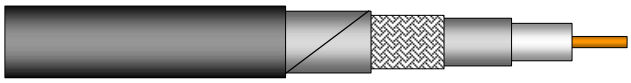
Coaxials basing upon DIN 47264, EN 50117-1 and IEC 61196-1 02Y(St)C(St)H 2.6/7.3AF



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.

Construction

		02Y(St)C(St)H
		2.6/7.3AF
Inner conductor		copper wire, bare
	Ø mm	2.61 ± 0.02
Insulation		Foam-PE
	Ø mm	7.30 ± 0.05
Outer conductor		Al-PETP-Al-foil + copper braid, tinned, 96% optical coverage + Al-PETP-Al-foil
Sheath		FRNC
	Ø mm	10.3 ± 0.2
	Colour	black RAL 9005

Technical data

Product code	Desig -nation	Type	Brand name	Outer dia -meter mm	Weight approx. kg/km	Standard -delivery -length m	Drum size *PWD	Gross weight kg	Cop- per con- tent	Tensile force N
CS2884900	02Y(St)C(St)H	2.6/7.3 AF-FRNC	2.6/7.3AF Low loss	10.3	166	1000	760/360/420	180	100	540

*PWD (Plywood drum)

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Electrical properties

		02Y(St)C(St)H 2.6/7.3AF
DC resistance		
Inner conductor Outer conductor	Ω/km	3.2 3.9
Mutual capacitance	pF/m	80
Velocity ratio	%	80
Characteristic impedance at		
200 MHz	Ω	50 ± 2
Attenuation at		
1 MHz 10 MHz 100 MHz 200 MHz 800 MHz 1000 MHz 1600 MHz 2000 MHz	dB/100m	0.5 1.4 4.4 6.3 13.8 15.4 20.5 22.9
Transfer impedance at		
10 MHz 100 MHz	mΩ/m	≤ 4 ≤ 2
Return loss at		
50-450 MHz 450-1000 MHz	dB	≥ 26 ≥ 23
Screening factor at		
100-1000 MHz	dB	100
Insulation resistance	GΩxkm	≥ 10
Test voltage		
Inner-/outer conductor	kV_{rms}	3.0
Operating voltage	kV_{rms}	1.2

Mechanical properties

Operating temperature	- 30°C to 70°C
Installation temperature	- 15°C to 55°C
Minimum bending radius (during installation)	
without load	5 x outer diameter
with load	10 x outer diameter
Fire propagation test	acc. to IEC 60332-3-24
Corrosivity	acc. to IEC 60754-2