

The right to alterations reserved

**Coaxials basing upon**  
**DIN 47264, EN 50117-1 and IEC 61196-1**  
**02Y(St)C2Y 2.7/7.3AF**  
**02Y(St)CH 2.7/7.3AF FRNC**

**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)C2Y
		02Y(St)CH
		2.7/7.3AF
Inner conductor		copper wire, bare
	∅ mm	2.71 ± 0.005
Insulation		Foam-PE
	∅ mm	7.25 ± 0.10
Outer conductor		Al-PETP-Al-foil + copper braid, tinned, 93% optical coverage
Sheath		PE
	∅ mm	10.3 ± 0.2
	Colour	black

**Technical data**

Product code	Designation	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
CS2750700	02Y(St)C2Y	2.7/7.3 AF	2.7/7.3 AF 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

\*PWD (Plywood drum)

**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
Corrosivity	acc. to IEC 60754-2
Fire propagation (for the FRNC version)	acc. to IEC 60332-3-24

The right to alterations reserved

**Coaxials basing upon**  
**DIN 47264, EN 50117-1 and IEC 61196-1**  
**02Y(St)C2Y 2.7/7.3AF**  
**02Y(St)CH 2.7/7.3AF FRNC**

**Electrical properties**

		02Y(St)C2Y
		02Y(St)CH
		2.7/7.3AF
DC resistance		
Inner conductor	$\Omega/\text{km}$	3.1
Outer conductor		4.7
Mutual capacitance	$\text{pF}/\text{m}$	79
Velocity ratio	%	84
Characteristic impedance at		
200 MHz	$\Omega$	$50 \pm 2$
Attenuation at		
1 MHz	$\text{dB}/100\text{m}$	0.5
10 MHz		1.4
100 MHz		4.1
200 MHz		5.7
500 MHz		9.3
800 MHz		13.8
1000 MHz		13.4
1500 MHz		16.7
2000 MHz		19.5
2500 MHz		22.1
3000 MHz		24.8
3500 MHz		27.1
4000 MHz		29.3
5250 MHz		34.3
5725 MHz	36.3	
6000 MHz	37.2	
Transfer impedance at		
1 MHz	$\text{m}\Omega/\text{m}$	$\leq 5$
10 MHz		$\leq 4$
30 MHz		$\leq 2$
Return loss at		
10-450 MHz	$\text{dB}$	$\geq 26$
450-1000 MHz		$\geq 23$
1000-3000 MHz		$\geq 18$
Screening factor at		
100-1000 MHz	$\text{dB}$	$\geq 90$
1000-3000 MHz		$\geq 80$
Insulation resistance	$\text{G}\Omega/\text{km}$	$\geq 10$
Test voltage		
Inner-/outer conductor	$\text{kV}_{\text{rms}}$	3.0
Operating voltage	$\text{kV}_{\text{rms}}$	1.2