



02Y(St)CY 1.35L/3.6AF

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, IEC 61196-1

Flame resistance

acc. to IEC 60332-1 (only for cables with PVC)

Construction

Inner conductor	stranded copper wires, bare 7 x 0.45, diameter 1.35 ± 0.01 mm
Insulation	Foam-PE, diameter 3.60 ± 0.05
Outer conductor	Al-PET-Al-foil + copper braid, tinned, 80% optical coverage
Sheath	PVC altern. PE, diameter 5.4 ± 0.2
Colour	white, RAL 9010, altern. 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

Electrical properties

at 20°C

DC resistance	Inner conductor	16.5 Ω/km
	Outer conductor	15 Ω/km
Mutual capacitance		84 pF/m
Velocity ratio		78 %
Characteristic impedance at 200 MHz		50 Ω ± 2 Ω
Transfer impedance	10 MHz	≤ 4 mΩ/m
	100 MHz	≤ 3 mΩ/m
Operating voltage		1.0 kV _{rms}
Test voltage	Inner/Outer conductor	2.0 kV _{rms}
Screening factor	100-100 MHz	90 dB
Insulation resistance		≥ 10 GΩ*km



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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	1.2	6452	50-450	≥ 26
10	3.3	2040	450-1000	≥ 23
100	9.3	640		
200	13.4	452		
800	27.8	221		
1000	31.2	198		
1600	40.3	156		
2000	46.0	133		
3000	57.4	113		
5200	80.8	85		
5800	87.8	80		

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
1002697	02Y(St)CY	1.35L/3.6AF PVC white	1.35L/3.6AF Low loss	5.4	42	1000	500/200/ 310	44.5	24.5	155
1002700	02Y(St)CY	1.35L/3.6AF PVC black	1.35L/3.6AF Low loss	5.4	42	1000	500/200/ 310	44.5	24.5	155
1002858	02Y(St)CY	1.35L/3.6AF PE black	1.35L/3.6AF Low loss	5.4	40	500	400/120/ 280	22	24.5	155
**1002698	02Y(St)CY	1.35L/3.6AF PVC black	1.35L/3.6AF Low loss	5.4	42	500	400/120/ 280	23	24.5	155
**1002699	02Y(St)CY	1.35L/3.6AF PE black	1.35L/3.6AF Low loss	5.4	40	500	400/120/ 280	22	24.5	155

*PWD (Plywood drum)

**with customer marking