

Coax6 AT 16 S

CATV Drop Cable



Application

Drop cables are used in private and commercial TV signal distribution networks and as antenna cable for terrestrial and satellite broadcast systems. This predestined **headend cable** is manufactured with vacuum technology. The cable layers thereby have high friction forces which allow automatic dismantling also at small lengths.

Standards

Screening Class A acc. to EN 50117-2-1, EN 50117-2-2, EN 50117-2-4 and EN 50117-2-5, further EN 50083-2/A1, EN 50117-1

Flame resistance

FRNC-C: IEC 60332-3

Construction

Inner conductor	bare copper wire, diameter 1.63 mm
Insulation	gas injected foam PE, diameter 7.15 mm
Outer conductor	Al-PET foil, longitudinal, bonded to the insulation, under tinned copper braid, optical coverage 60%, + Al-PET foil longitudinal, bonded to the sheath, diameter 8.0 mm
Sheath	FRNC-C, diameter 10.1 mm ± 0.3 mm black

Mechanical properties

Minimum bending radius	without load	5 x D (D= outer diameter)
	with load	10 x D (D= outer diameter)
Temperature range	during operation	- 40° C to + 70° C
	at Storage	- 40° C to + 70° C
	during installation	- 5° C to + 60° C
Corrosivity	FRNC-C	acc. to IEC 60754-2
Friction forces between cable layers:		
dielectric – foil – braid – foil – sheath	pull test with 300mm overlapping zone	> 80 N
inner conductor – dielectric acc. to DIN EN 50289-3-17	push test with 50mm overlapping zone	> 25 N

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Electrical properties

at 20°C

DC resistance	Inner conductor	9.4 Ω/km
	Outer conductor	8.9 Ω/km
Mutual capacitance		52 pF/m
Characteristic impedance		75 Ω ± 2 Ω
Velocity ratio		85 %
Screening factor	30 MHz – 1000 MHz	> 110 dB
	1000 MHz – 2000 MHz	> 100 dB
	2000 MHz – 3000 MHz	> 100 dB
Transfer impedance	5 MHz – 30 MHz	≤ 5 mΩ/m
Electrical strength	Dielectric	2 kV _{DC} 1 min
	Sheath	3.75 kV _{DC} 1 min

Electrical data

at 20°C

Attenuation (dB/100m)		Return loss (dB)	
Frequency (MHz)		Frequency (MHz)	
	nominal		
5	0.95	5 – 30	> 26
50	2.9	30 – 470	> 24
100	4.2	470 – 1000	> 20
200	5.9	1000 – 3000	> 18
400	8.6		
800	12.6		
862	13.1		
950	13.9		
1350	16.9		
1750	19.7		
2150	23.2		
3000	26.9		

Technical data

Product code	Cable type	Weight	Standard delivery length	Drum size	Copper content	Tensile force	Bending radius	Storage
		kg/km	m	*PWD		N	mm	
1002562 (old: CK2685700)	Coax6 AT 16 S FRNC-C black without printing	85	1000	760/360/420	45.7	250	75	inside

*PWD (plywood drum)

Product Code Table

Product Description	Product Code	PG Reference Code	PG Part Number
Coax6 AT 16 S FRNC-C "without printing"		60013802	60013802

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