



Coax10 AD 10 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 1.0 mm
Insulation	gas injected foam PE, diameter 4.55 mm
Outer conductor	Al-PET foil, longitudinal, bonded to the insulation, under tinned copper braid, optical coverage 70%, + Al-PET foil longitudinal, bonded to the sheath, diameter 5.5 mm
Sheath	FRNC, diameter 6.8 mm \pm 0.2 mm black, white, blue
Printing	(only blue type): DRAKA COMTEQ – COAX10 AD 10 S + meter marking + batch number

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
	during 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	> 15 N



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Electrical properties

at 20°C

DC resistance	Inner conductor	22 Ω/km
	Outer conductor	14 Ω/km
Mutual capacitance		52 pF/m
Characteristic impedance		75 Ω ± 2 Ω
Velocity ratio		82 %
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	1.6	5 – 30	> 26
50	4.3	30 – 470	> 24
100	6.2	470 – 1000	> 20
200	8.7	1000 – 3000	> 18
400	12.5		
862	18.6		
950	19.8		
1350	23.7		
1750	27.2		
2150	30.5		
3000	36.9		

Technical data

Product code	Cable type	Weight kg/km	Standard delivery length m	Drum size *PWD	Copper content	Tensile force N	Bending radius mm	Storage
1002582 (old: CK2689303)	Coax10 AD 10 S FRNC-C white without printing fading out!	47	1000	500/200/360	21.9	175	35	inside
1002581 (old: CK2689302)	Coax10 AD 10 S FRNC-C black without printing fading out!	47	1000	500/200/360	21.9	175	35	inside
1002583 (old: CK2689305)	Coax10 AD 10 S FRNC-C blue RAL 5012	47	1000	500/200/360	21.9	175	35	inside

*PWD (plywood drum)