

Coax10 AD 10 S AI

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.

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

IEC 60332-1

Construction

Inner conductor	bare copper wire, diameter 1.02 mm
Insulation	gas injected foam PE, diameter 4.57 mm
Outer conductor	PET-Al foil longitudinal, bonded to the insulation, aluminum braid, optical coverage >80% Al -laminated plastic foil
Sheath	PVC, according to EN 50290-2-22 TM51, diameter 6.8 mm ± 0.2 mm, colour: white
Printing	DRAKA - COAX10 AD 10 S AI + batch number + meter marking

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

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Electrical properties

at 20°C

DC resistance	Inner conductor	23 Ω/km
	Outer conductor	20 Ω/km
Mutual capacitance		52 pF/m
Characteristic impedance		75 Ω ± 3.0 Ω
Velocity ratio		85 %
Screening factor	30 MHz – 1000 MHz	> 100 dB
	1000 MHz – 2000 MHz	> 95 dB
	2000 MHz – 3000 MHz	> 90 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	2.0	5 – 30	> 26
50	5.0	30 – 470	> 23
100	6.8	470 – 1000	> 20
200	9.4	1000 – 2000	> 18
400	13.4	2000 – 3000	> 16
862	20.0		
950	21.0		
1350	24.7		
1750	28.4		
2150	31.7		
3000	38.0		

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
1019225	Coax10 AD 10 S AI	45	1000	500/200/360	7,3	175	35	Inside
1019225-00200BR	Coax10 AD 10 S AI	45	200	390x390x260	7,3	175	35	Inside
1019225-00500DW	Coax10 AD 10 S AI	45	500	400/120/180	7,3	175	35	Inside

*PWD (plywood drum)

Product Code Table

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Product Description	Product Code	PG Reference Code	PG Part Number
Coax10 AD 10 S AI 200BR	1019225-00200BR	--	60016703
Coax10 AD 10 S AI 500DP	1019225-00500DP	--	60024867

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