

Coax11 AD 08 E

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 C acc. to Cenelec SC46XA,
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 0.8 mm
Insulation	gas injected foam PE, diameter 3.5 mm
Outer conductor	AL-PET-Al foil, longitudinal, under tinned copper braid, optical coverage 40%, diameter 4.0 mm
Sheath	PVC altern. FRNC, 5.0 mm $\pm$ 0.2 mm black or white
Printing	DRAKA COMTEQ – COAX11 AD 08 E + 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	for cables with FRNC sheath	acc. to IEC 60754-2

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Electrical properties

at 20°C

DC resistance	Inner conductor	35 Ω /km
	Outer conductor	44 Ω /km
Mutual capacitance		52 pF/m
Characteristic impedance		75 $\Omega \pm 3.0 \Omega$
Velocity ratio		85 %
Screening factor	30 MHz – 1000 MHz	> 80 dB
	1000 MHz – 2000 MHz	> 75 dB
	2000 MHz – 3000 MHz	> 70 dB
Transfer impedance	5 MHz – 30 MHz	$\leq 15 \text{ m}\Omega/\text{m}$
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	1.9	5 – 30	> 26
50	5.7	30 – 470	> 24
100	7.8	470 – 1000	> 20
200	11.2	1000 – 3000	> 18
400	16.2		
800	22.6		
862	24.3		
950	25.1		
1350	31.0		
1750	36.3		
2150	41.3		
3000	48.8		

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
1002547 (old: CK2681100)	Coax11 AD 08 E PVC fading out!	23	1000	400/150/330	9.8	50	25	inside
1002674 (old: CK7681100)	Coax11 AD 08 E FRNC fading out!	22	1000	400/150/330	9.8	50	25	inside

*SPH (plywood drum)