

Coax2 CT 48 S (4.75/19.4)

*Improved Attenuation Design

CATV Trunk Cable



Application

CATV cables are used in trunk lines of CATV and broadband networks between headend and subscriber termination point. They are suitable for direct buried and duct laying. Coax LWT types are Longitudinal Water Tight.

Standards

EN 50117-2-3,
further EN 50083-2/A1, EN 50117-1
EN50289-4-2 method B

Flame resistance

IEC 60332-1 (not for cables with PE sheath)

Construction

Inner conductor	bare copper wire, diameter 4.75 mm
Insulation	IAD* gas injected foam PE, diameter 19.4 mm
Outer conductor	welded copper tube, diameter 20.0 mm
Sheath	PE, LWT (Longitudinal Water Tight), diameter 24.9 mm black
Printing	DRAKA – COAX2 CT 48 S LWT + meter marking + batch number

Mechanical properties

Minimum bending radius	without load	400 mm
	with load	800 mm
Temperature range	during operation	- 40° C to + 70° C
	during storage	- 40° C to + 70° C
	during installation	- 5° C to + 60° C
Tensile force		180 N
Longitudinal water tightness	according to EN 50289-4-2 method B	3m sample, water height 1m, 24h

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Electrical properties

at 20°C

DC resistance	Inner conductor	1.0 Ω/km
	Outer conductor	0.95 Ω/km
Mutual capacitance		50 pF/m
Characteristic impedance		75 Ω ± 2 Ω
Velocity ratio		88 %
Screening attenuation	30 MHz – 1000 MHz	> 120 dB Screening Class A++
Transfer impedance	5 MHz – 30 MHz	< 0.9 mΩ/m Screening Class A++
Electrical strength	Dielectric	2.5 kV _{DC} 1 min
	Sheath	5 kV _{DC} 1 min

Electrical data

at 20°C

Attenuation (dB/100m)		Return loss (dB) acc. to EN 50117-2-3	
Frequency (MHz)		Frequency (MHz)	
	nominal		nominal
5	0.28	5 – 30	≥ 30
10	0.39	30 – 470	≥ 30
30	0.68	470 - 1000	≥ 26
65	1.03		
80	1.14		
120	1.42		
200	1.85		
300	2.31		
400	2.71		
447	2.86		
450	2.87		
610	3.39		
700	3.65		
800	3.93		
862	4.10		

Technical data

Product code	Cable type	Weight kg/km	Standard delivery length m	Drum size		Copper content	Tensile force N	Storage
				Flange	Overall width			
60016689	Coax2 CT 47 S	560	500	1400	735	372	180	outside