

1.0/4.8 F

CATV Drop Cable Tellu 13[®]



Application

Drop cables are used in TV signal distribution networks and as antenna cable for terrestrial and satellite broadcast systems.

Standards

Shielding Class A acc. to EN 50117-2-1, EN 50117-2-2, EN 50117-2-4 and EN 50117-2-5,
In addition EN 50083-2/A1, EN 50117-1

Flame resistance

FRNC-B acc. to IEC 60332-1
FRNC-C acc. to IEC 60332-3-24

Construction

Inner conductor	bare copper wire, diameter 1.0 mm	
Insulation	physically foamed PE, diameter 4.65 mm	
Outer conductor	copper foil under bare copper braid, diameter 5.5 mm optical coverage 66% (FRNC-C type 75%)	
Sheath	PVC, FRNC-C, diameter 7.0 ± 0.2 mm	
Colour	white	
Marking (PVC versions)	DRAKA NK CABLES TELLU 13 , JJWW, batch number and meter marking	
Marking (FRNC-C version)	DRAKA NK CABLES TELLU 13 FRNC-C, JJWW, batch number and meter marking	

Mechanical properties

Minimum bending radius	without load	5 x outer diameter
	with load	10 x outer diameter
Temperature	during operation	-30° C to + 60° C
	during installation	-5° C to + 55° C
Corrosivity of fire gases	only for FRNC types	acc. to IEC 60754-2
Smoke density	only for FRNC types	acc. to IEC 61034-1 and 2

1.0/4.8 F

Electrical properties

at 20°C

DC resistance	Inner conductor	22 Ω/km
	Outer conductor	12 Ω/km
	Outer conductor FRNC-C-Typ	10 Ω/km
Mutual capacitance		55 nF/m
Characteristic impedance		75 Ω ± 2 Ω
Velocity ratio		80 %
Screening factor		> 80 dB
Screening factor	30 MHz – 1000 MHz	> 90 dB
	1000 MHz – 2000 MHz	> 85 dB
	2000 MHz – 3000 MHz	> 85 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

Frequency (MHz)	Attenuation (dB/100m)		Return loss (dB)	
	nom.	max.	Frequency (MHz)	
5	1.5	1.6	5-30	> 26
50	4.7	5.0	30-470	> 23
100	6.2	6.5	470-862	> 20
200	8.6	9.0	862-2150	> 18
400	12.6	13.0		
862	19.1	20.0		
1000	20.6	21.6		
1350	24.7	25.9		
1600	27.1	28.5		
1750	28.5	30.0		
2150	31.6	33.2		
2550	34.5	36.2		
3000	37.4	39.3		

Technical data

Product	Cable type	Weight	Copper content kg/km	Standard delivery length m	Bending radius mm	Tensile force N	Storage
		kg/km					
Tellu 13 VA	1.0/4.8 F PVC	58	24.5	1000/200	35	110	inside
Tellu 13 VA	1.0/4.8 F PVC	58	24.5	1000/200	35	110	inside
Tellu 13 FRNC-C	1.0/4.8 F FRNC-C	60	38.8	1000/200	35	110	inside

1.0/4.8 F

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