

Fiber optic cable - PKP ADSS

Deployment and installation type: designed for aerial self supported installation, as well as underground ducts.

Cable type: fully dielectric cable, with aramid yarns as tensile reinforcement element, and double polyethylene sheath, which brings an optimal protection against environmental factors.

Fully dielectric: Cables are completely dielectric, eliminating the possibility of interferences with existing power lines or coaxial cables.

Optical Fiber: different types based on customer requirements.

Dry core: the use of waterblocking materials avoids water propagation through the cable.

Integrability: this solution can be complemented with the rest of TELNET FTTH portfolio: loose tube cables for trunk and access network, microcables, optical splitters, splice closures, drop cables, termination boxes and patchcords.

Construction detail

1. Dielectric Fiberglass Reinforced Plastic (FRP) as central strength member
2. PBT loose tubes containing optical fibers, and fillers (if required), stranded in SZ around the FRP and coated with water-blocking material
3. Inner polyethylene sheathing
4. Aramid yarns as tensile reinforcement element
5. External polyethylene sheathing

Mechanical and physical features

	Test Method	Acceptance criteria
Max. Tensile load	IEC 60794-1-E1	According to table
Crush resistance	IEC 60794-1-E3	20 N/mm
Impact resistance	IEC 60794-1-E4	5 J
Temperature cycle	IEC 60794-1-F1	-30°C / +70°C
Bending radius	IEC 60794-1-E11, proc. 1	15 x cable diameter
Water propagation	IEC 60794-1-F5	

Outer jacket marking (*)

TELNET-RI	Year	Num fibers	Fiber type	Cable type	Production order	Length
TELNET-RI	XXXX	XXX OF	XXX	PKP ADSS	OF-XXXXXXXX-E	XXXX



Color coding of fibers (1)

	1	2	3	4	5	6	7	8	9	10	11	12
Optical fiber	A	Nj	V	M	Gr	B	R	N	Am	Vi	Rs	At

Color coding of tubes (1)

Number of fibers	1	2	3	4	5	6	7	8	9	10	11	12
12	A	N	N	N	N	N						
24	A	N	N	Nj	N	N						
36	A	N	Nj	N	V	N						
48	A	Nj	N	V	M	N						
60	A	Nj	V	M	Gr	N						
72	A	Nj	V	M	Gr	B						
96	A	Nj	V	M	Gr	B	R	N*				
144	A	Nj	V	M	Gr	B	R	N*	Am	Vi	Rs	At

A: Blue, Nj: Orange, V: Green, M: Brown, Gr: Grey, B: White, R: Red, N: Black, Am: Yellow, Vi: Violet, Rs: Pink, At: Turquoise

The tubes marked as "N" are fillers (without optical fiber)

The tubes marked as "N*" are tubes with optical fibers

Dimension, structure and weight (1)

OF per cable	Number of tubes/fillers	Number of fibers per tube	Nominal diameter (mm)	Nominal weight (Kg/Km)
12	1	5	12	13,0
24	2	4	12	13,0
36	3	3	12	13,0
48	4	2	12	13,0
60	5	1	12	13,0
72	6	0	12	13,0
96	8	0	12	14,6
144	12	0	12	17,8

Installation conditions (1)

Span (m)	Cable	Environmental conditions			
		NESC L		NESC M	
		Sag (%)	MAT (N)	Sag (%)	MAT (N)
150	12-72 fo	2,0	4900	3,0	5000
	96 fo	2,0	5000	3,0	5600
	144 fo	2,5	5400	3,5	5700
200	12-72 fo	3,0	4300	4,0	5300
	96 fo	3,0	4900	4,0	5700
	144 fo	3,5	5200	4,5	5900

MAT: Maximum Allowable Tension

Environmental conditions (1)

	Ice thickness (mm)	Wind speed (km/h)	Extra load (N/m)
NESC Light	0	94,4	0,7
NESC Medium	6,5	62,8	2,5

Contact Information

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(1) TELNET, as manufacturer, designs and manufactures cables according to customer requirements, offering additional configurations to the ones shown in datasheet. For further information, please contact TELNET.