

PRYSMIAN FTL1/D1E

OVAL G-DROP OUTDOOR OPTICAL CABLE

- Tube: thermoplastic material containing optical fibers and filled with a suitable water tightness compound.
- Peripheral Strength Member: 2 FRP beside of tube.
- Longitudinal Water Tightness: W/S yarns
- Outer Sheath: HDPE (minim 0.941 g/cm3) with minimum carbon black content 2.0 % and good aging characteristics, 2 ripcords beneath.

In case of aerial installation between poles, the maximum permitted span is 50 meter with 1% installation sag.

The cables withstand the maximum additional loads generated by wind and ice in the following environment:

(a) temperature -5°C, wind speed 100 km/h

(b) temperature -20°C , wind speed 50 km/h , ice radial thickness 8 mm

The use of proper fittings is recommended, in order to achieve the mentioned performance.

TECHNICAL DATA

NO. OF FIBRES		UP TO 12
Tube diameter – ø	mm	2.8
Minimum sheath thickness	mm	0.6
Cable dimensions	mm	4.8 x 8.3
Cable weight	Kg/Km	45

Min. bending radius	mm	Under Tension: 20x	Cable-ø	Without Tension: 15xCable-ø		
Temperature range	°C	Transport & Storage: -40 -> +70	Installation: -10 -> +50		Operation: -40 -> +70	

MAIN CHARACTERISTICS

TEST	STANDARD	VALUE	REQUIREMENT*		
Tensile Strength (static)	IEC 60794-1-2-E1	400N, 5 min.	∆I/I fiber ≤ 0.05%, ∆α ≤ 0.05 dB under test, reversible		
Tensile Strength (dynamic)	IEC 60794-1-2-E1	1000N, 5 min.	∆l/l fiber ≤ 0.33%, ∆α reversible		
Crush	IEC 60794-1-2-E3	1000 N/100mm, max. 5 min	∆α ≤ 0.05 dB, reversible, no damage		
Impact	IEC 60794-1-2-E4	5 J, 3 impacts, R=300 mm	∆α ≤ 0.05 dB after test, no damage		
Repeated Bending	IEC 60794-1-2-E6	R=20xOD, 100N, 100 cycles	No break of fibers or cable`s elements		
Torsion	IEC 60794-1-2-E7	± 90°,2 m, 400N, 5 cycles	∆α ≤ 0.05 dB after test, no damage		
Bend	IEC 60794-1-2-E11A	D=15xOD, 5 cycles	∆α ≤ 0.05 dB after test, no damage		
Temperature Cycling	IEC 60794-1-2-F1	-40 -> +70 °C, 2 cycles	∆α ≤ 0.05 dB/Km, reversible		
Water Penetration	ter Penetration IEC 60794-1-2-F5B		No water penetration in 24 h		

*values for single-mode fibers, all optical measurements performed at @1550nm

OPTICAL CHARACTERISTICS

See the attached cabled optical fiber data sheet.





IDENTIFICATION

Fibre Colors

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	blue	orange	green	brown	grey	white	red	black	yellow	violet	aqua	pink

Sheath Color

The outer sheath color is black.

Sheath Marking

The outer sheath is marked in 1 meter intervals by hot print foil method as follows:

PRYSMIAN (S) wwyy FLAT DROP nn FO SM LOH OPTICAL CABLE zzzz

wwyy = week & year; nn = number of fibres, zzzz = meter marking Other text can be printed on the outer sheath, according to customer request.

LOGISTICS

Packing: Wooden drums with protection.

Delivery Lengths:

4000 ± 200 m

Other lengths available upon agreement, up to a maximum of 10% of the total number of cable lengths could be shorter than nominal values.