Prysmian Group

All dielectric indoor/outdoor Flextube® cable

Cable Design   **Adaptation of ST/CNET/6284 1999/05 L1051-L1052**

- not to scale -
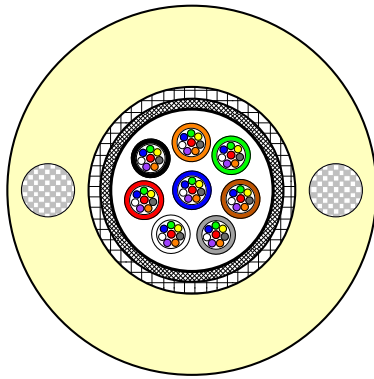
- **Micro-module:** Thin wall tubing (FlexTube®), filled with a suitable compound, housing 8 optical fibres.
- **Assembly of the micro-modules.**
- **Water tightness :** dry core with swellable elements.
- **Protection / reinforcement yarns**.
- **Strength members :** glass fibre reinforced plastic material.
- **Outer Sheath :** Low smoke halogen free material.

Indoor/outdoor installation. The flexible micro-modules provide easier storage & faster installation and access to the fibres without specific tools.

Technical data

No. of Fibres		**32**	**64**	**96**
Design		4x8	8x8	12x8
Module Ø	mm		1.2	
Rigid strength member Ø	mm		1.8	
Cable Diameter	mm	11.4	11.4	12.8
Cable Weight	kg / km	135	135	160
Max Tension	daN		120	

Minimum Bending Radius	mm	Without Tension 10 x Cable-Ø		Under Maximum Tension 20 x Cable-Ø	
Temperature Range	ºC	Installation + 5 to + 40	Transport & Storage - 40 to + 70	Operation - 30 to + 60	

Please refer to our General Installation, Safety & Handling recommendations before handling.

Main characteristics

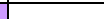| Test	Test Standard	Specified Value	Acceptance Criteria*
Max. Installation Tension	IEC 60794-1-2-E1	See table above	$\Delta\alpha$ reversible
Crush	IEC 60794-1-2-E3	200 daN / 100 mm	$\Delta\alpha \leq 0.1$ dB
Impact	IEC 60794-1-2-E4	5 Nm	$\Delta\alpha$ reversible
Torsion	IEC 60794-1-2-E6	1m, +-180°	$\Delta\alpha \leq 0.1$ dB
Temperature Cycling	IEC 60794-1-2-F1	-30°C to +70°C	$\Delta\alpha \leq 0.1$ dB/km
Water Penetration	IEC 60794-1-2-F5B	sample=3m, water=1m	No water leakage after 24 h
Fire performance	IEC 60332-1		IEC 60332-1

* *values for singlemode fibres, measurement performed at 1550 nm.*

Optical Characteristics

See the attached cabled optical fibre data sheet.

Identification

Fibre Colours

No.	1	2	3	4	5	6	7	8
Colour	red	blue	green	yellow	violet	white	orange	grey

Buffer Tube Colours

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

Sheath Colour:

The outer sheath colour is white or black under request.

Sheath Marking:

The outer sheath is marked in 1 meter intervals as follows:

<Manufacturer> <ww>-<yyyy>   <no. of fibre> F.O. ORANGE ESPAÑA   <length marking in meter>

ww: week of manufacture
yyyy: year of manufacture

Logistic

Packing:

Wooden drums with protection.

Delivery Lengths:

Standard delivery lengths are 2 km, 4 km, 6 km, 8 km with a tolerance of -1% / +3%