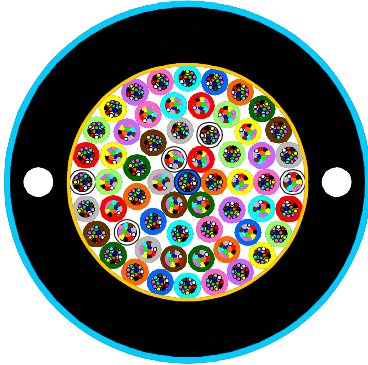


Flextube®

High fibre count duct dielectric optical Flextube® cable, 200µm fibre

IEC 60794

ACMA - AS/CA S008



- Drawing not to scale -

- **Micro-module:** Thin skin tubing filled with a suitable compound, housing the single-mode optical fibres
- **Longitudinal water tightness:** Water swellable elements (dry-core)
- **Strength members:** Aramid Yarns. Glass fibre reinforced plastic material embedded in sheath
- **Sheath:** Polyethylene in compliance with AS 1049. Two ripcords provided beneath the sheath for easy removal
- **Outer jacket:** UV stabilised polyamide (Nylon) in compliance with AS 1049

This high fibre count, thin skin micro Flextube dielectric optical cable is designed for outdoor installation in ducts by jetting or floating techniques. Mainly used in ducts for FTTx and access network.

The Flextube® design provides easier storage & faster installation.

Finger access to the fibres: No specific tools to open the Flextube.

One cable only will be installed in the same duct and the cable must be protected inside the manhole.

This cable includes BendBright-XS fibre with 200µm coating, providing the lowest attenuation at 1625nm after installation and splicing with miniaturised equipment due to its excellent behaviour against small bends.

Technical data

Number of Fibres (12F groups)	720		
Module diameter	mm	1.15	
Cable nominal diameter	mm	16.4	
Cable nominal weight	kg/km	195	
Max. installation tension	kN	2.7	
Max. crush resistance	kN/100 mm	1.5 (Short term)	
Min. bending radius	mm	At full load	20 x Cable OD
		At no load	10 x Cable OD
Temperature range	°C	Installation -0 -> +40	Transport & Storage -20 -> +70 Operation -10 -> +60

Optical Characteristics

See the attached cabled optical fibre data sheet BendBright-XS 200µm: C35

Identification

Fibre Colours

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

Module Colours

No.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	blue	orange	green	brown	grey	white	red	light green	yellow	violet	pink	aqua
No.	13	14	15	16	17	18	19	20	21	22	23	24
Colour	blue	orange	green	brown	grey	white	red	light green	yellow	violet	pink	aqua
No.	25	26	27	28	29	30	31	32	33	34	35	36
Colour	blue	orange	green	brown	grey	white	red	light green	yellow	violet	pink	aqua
No.	37	38	39	40	41	42	43	44	45	46	47	48
Colour	blue	orange	green	brown	grey	white	red	light green	yellow	violet	pink	aqua
No.	49	50	51	52	53	54	55	56	57	58	59	60
Colour	blue	orange	green	brown	grey	white	red	light green	yellow	violet	pink	aqua

Sheath Colour:

The outer sheath colour is blue.

Sheath Marking:

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

PRYSMIAN DW FLEXTUBE Part Number T/N #### MM/YY MADE IN AUSTRALIA *****
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^ Customised marking legend is available (subject to agreement)

Main mechanical characteristics

Parameter	Test method	Test conditions	Acceptance criteria*
Tensile strength	IEC 60794-1-21-E1 Figure 2	Load: As per cable maximum tensile strength in table above.	Maximum strain on the fibre should not exceed 0.6% and no attenuation increase occurs after test
Crush	IEC 60794-1-21-E3	Short time: 10 min Load: As per maximum crush resistance in table above	No damage to the sheath or to the core structure and no attenuation increase occurs after test
Bend	IEC 60794-1-21-E11	Mandrel diameter: 20 x Cable OD Bend: 360° (1turn)	No attenuation increase occurs after test
Temperature cycling	IEC 60794-1-22-F1	Sample length: 1000 m (minimum) Temperature range: - 10 °C to +60 °C	No attenuation increase greater than 0.1 dB/km
Water penetration	IEC 60794-1-22-F5B	Sample length=3m, Water height=1m	No water leakage after 24 hour

* All optical measurements for singlemode fibres performed at 1550 nm.

Logistic

Packing:

Timber drums to AS/NZS 2857 with NOLCO-FLEX protection

Delivery Lengths:

Standard delivery length is 6 km with a tolerance of - 1% / + 3%

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