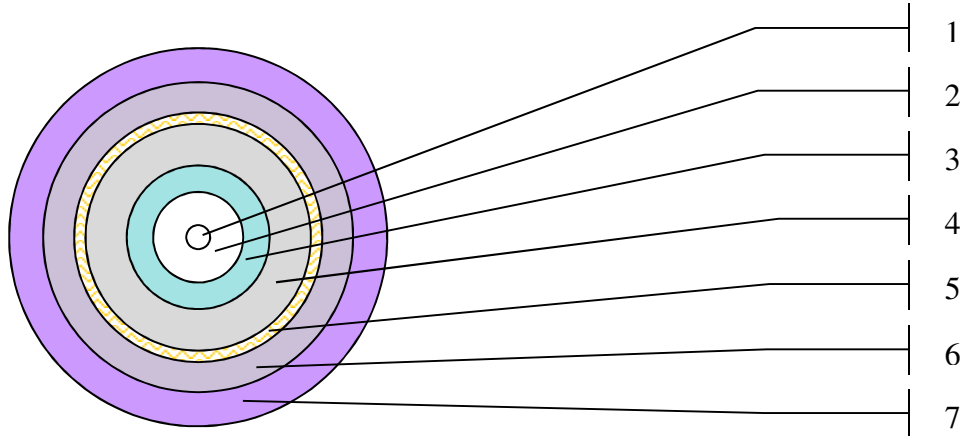


1 – CABLE CONSTRUCTION :



Item	Designation	Component details	Characteristics
1	Core (fibre)		Ø 50 µm ± 2.5µm
2	Cladding (fibre)		Ø 125 µm ± 1µm
3	Primary buffer	High Temp Acrylate	Ø 242 ± 5µm
4	Secondary buffer	High Temperature ZH	Ø 900 µm nom
5	Strength member	Aramids	
6	Inner jacket	Polyimide	Ø 1.4mm nom
7	Outer jacket	Fluoropolymer	Ø 1.8mm +/- 0.1mm

2 – OPTICAL PERFORMANCES:

Fibre characteristics	MMF Bend Insensitive OM3
Attenuation at 850nm (20°C)	≤ 4dB/ km
Attenuation at 1300nm (20°C)	≤ 2dB/ km
Numerical aperture @ 850nm	0.2 ± 0.015
Effective Modal Bandwidth at 850nm	≥ 2000MHz.km

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	Approval :	Rev.	Date	Author

3 –CHARACTERISTICS:

Table 1: Key Features

Property	Standard	Value
Max Data Rate	10 G BASE SR	10 Gbits/s over 300m @ 850nm
Operating temperature		- 65°C + 135°C
Storage temperature		- 20°C + 85°C
Storage bending		≥ 160mm
Mass		≤ 4 kg/ km
Longitudinal stability	EN 3745-205	≤ 1mm –sheath/fibre- ≤ 1.5mm –buffer/fibre-
Flame propagation	EN3745-407: FAR 25	Burn length < 76mm
Fluid Resistance	EN3745-411 Method B	Compliant
Scrape Abrasion	EN3745-503	10N/ 100 cycles Δatt ≤1dB 7N/ 500 cycles Δatt ≤1dB
Tensile Strength	EN3745-505 Method B	> 250N at breakage 150N Δatt residual ≤ 0.2dB
Impact	EN3745-506	3J Δatt ≤ 0.5dB @ 850nm at 1 st impact
Minimum bend radius	EN3745-510 method B	Bending radius: 5X outer Ø Δatt ≤ 0.5dB, residual ≤ 0.2dB
Kink	EN3745-509	Compliant
Tie Clamping	EN3745-517	Δatt ≤ 0.2dB
Smoke Density	EN3745-601/ AITM2-0008 meth B	Dm < 200 (4 min)
Toxicity	EN3745-602/ AITM3-0005	Compliant
Cable stripping	EN3745-701	≤ 40N (strip length: 50mm)
Laser markability	EN3475-705 and -706	> 50%
Colour		Light Purple

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