

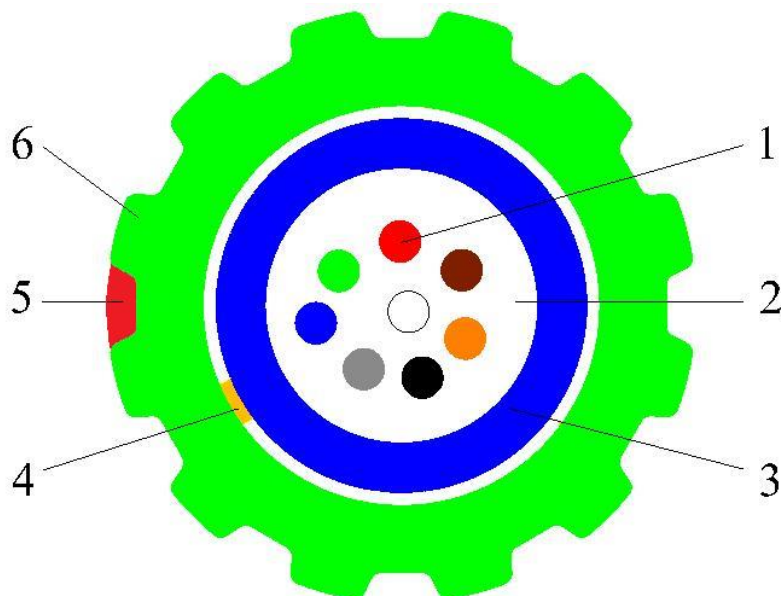


Features & Benefits

Optimized cable stiffness and low friction sheath material for excellent installation performance
Good mechanical and environmental properties
Special design for longer and faster air blown installation technique

Fiber type: Standard G657A1
Outside sheath: HDPE
Tubing material: Performance Enhanced PC Plastic
Cable Diameter: Nominal diameter 2.5 mm

Structure



- | | | |
|--------------------|-----------|-----------------|
| 1. Optical Fiber | 2. Jelly | 3. Loose Tube |
| 4. Kevlar/ Ripcord | 5. Groove | 6. Outer Sheath |

Color Code (DIN)

Fiber color code

No.	1	2	3	4	5	6
	Red	Green	Blue	Yellow	White	Grey
						

Other color codes can be ordered by prior notice



HF FibreCore A6 G657A1 MTE 2.5mm DIN

Test Protocol

Mechanical Test:

Test	Standard	Parameters	Criteria
Installation Tension	IEC 60794-1-2-E1	80 N	Δa reversible, fiber strain $\leq 0.3\%$
Short Term Crush	IEC 60794-1-2-E3	500 N , 100mm , 5 min	Additional attenuation $\leq 0.1\text{dB}$
Repeated bending	IEC 60794-1-2-E6	30 N, 25 cycles	No obvious additional attenuation. No damage
Torsion	IEC 60794-1-2-E7	50 N, 5 cycles	$\Delta a \leq 0.05\text{dB}$, no damage
Coiling performance	IEC 60794-1-2-E20	Coil on standard Drum	The outer sheath has no visible crack. No damage on the cable
Remark : Tests according to IEC 60794 Edition 1.0, 2008-10		All optical tests proceeded at 1550 nm	

Environmental Test:

Test	Standard	Parameters	Criteria
Temperature cycling	IEC 60794-1-2-F1	Singlemode	$\leq 0.05\text{ dB/km}$
Water penetration	IEC 60794-1-2-F5	Water column =1 m, Sample cable= 3 m	No water leak through the open end in 24 hours
Filling compound flow	IEC 60794-1-2-E14	70°C	No compound flow from the cable in 24 hours
Remark : Tests according to IEC 60794 Edition 1.0, 2008-10		All optical tests proceeded at 1550 nm	

Technical Index

Cable properties:

Fiber count	Weight	Nominal diameter	Temperature range
6	5.5 Kg	2.5 mm	Storage: -20 - +60 °C Installation: -5 - +50 °C Operation: -20 - +60 °C

Mechanical properties:

Max. Crushing resistance	Max. Tensile strength	Min. Bending radius	Loose tube bending radius
500N	80 N	Static: 12 X OD Dynamic: 20 X OD	25 mm

Part number:

Fiber count	G657A1 fiber
	Type number
6F	450767