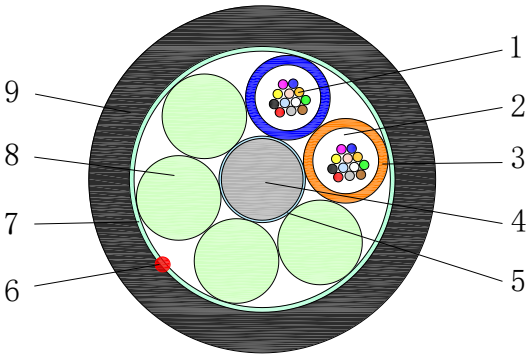
HF FibreCore A24 G657A1 2X12 FD

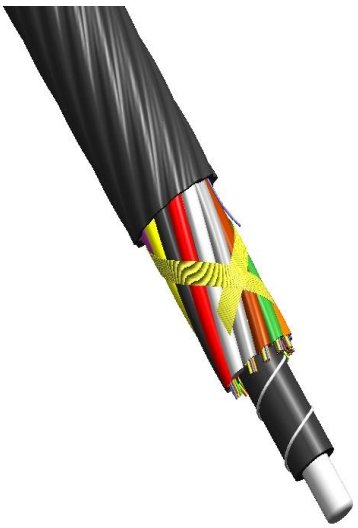
Structure



1. Optical Fiber
2. Jelly
3. Loose Tube
4. FRP
5. Water blocking yarn
6. Ripcord
7. Water Blocking kevlar
8. Filler
9. HDPE Sheath

Description

Fiber type:	250um G657A1 Fiber
Outside sheath:	HDPE
Strength member :	Glass fiber reinforced plastic
Tube Stranding:	SZ wounded
Loose Tube:	(PBT)Polybutylene- Terephthalate
Water tightness:	Water blocking Kevlar/ yarns



Feature

HF FiberCore Air Blown Fiber Cables are lightweight cables designed for air blown installation into Micro-Ducts.

Strong loose tubes provide easy and stable working and installation performance.

The Dry Core Design keeps fiber cable in small diameter and fully water resistance for quick and clean jointing.

Special construction is designed for air jetting, allows the cable to be blown in both small and standard ducts for extreme long distance

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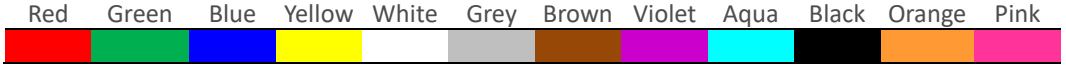
Color Code (DIN)

Fiber color code

No.	1	2	3	4	5	6	7	8	9	10	11	12
	Red	Green	Blue	Yellow	White	Grey	Brown	Violet	Aqua	Black	Orange	Pink



Other color codes can be ordered by prior notice

Loose tube color code

No.	1	2
	Red	Green

Test Protocol

Mechanical Test:

Test	Standard	Parameters	Criteria
Installation Tension	IEC 60794-1-2-E1	1.5x Weight	Fiber strain ≤0.33%,additional attenuation: ≤0.1dB after test
Short Term Crush	IEC 60794-1-2-E3	1000 N , 100mm , 5 min	Additional attenuation: ≤0.1dB after test No damage to outer jacket and inner elements
Repeated bending	IEC 60794-1-2-E6	25 N, 25 cycles	No obvious additional attenuation. No damage
Torsion	IEC 60794-1-2-E7	40 N, 5 cycles	Δa ≤0.05dB, 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	Storage, installation and Operation
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*	

Air Jetting Test:

Test equipment	Fiber count	Standard duct	Test field	Typical blowing length
PR-140/ MiniJet	24-96	10/8 mm	Square: 4X100 m	≥ 1500 m
PR-140/ MiniJet	144-216	12/10 mm	Square: 4X100 m	≥ 1500 m
PR-140/ MiniJet	288	20/16 mm	Square: 4X100 m	≥ 1500 m

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Technical Index

Cable construction:

Fiber count	Construction (Fiber x Tube)	Nominal diameter (mm)	Weight (KG/Km)
24	12x 2	5.4	27

Nominal Outer sheath thickness	Loose tube bending radius	Min. Bending radius	Temperature range
0.5 mm	25 mm	Static: 12 X OD Dynamic: 20 X OD	Storage: -40 - ＋70 °C Installation: -10 - ＋50 °C Operation: -30 - ＋70 °C

Ordering Information

Standard drum size: 4km/6Km

Printing on the cable: “HF FiberCore” “part number” “meter” “production date and code”

Part number:

Fiber count	**G657A1 fiber**
	Type number
24F	450208