

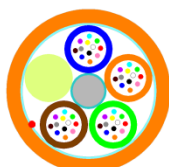


HF FibreCore Airblown Super Construction G657A1-200um fiber

With DIN color code

Structure

12fiber /tube



48 fiber



72 fiber

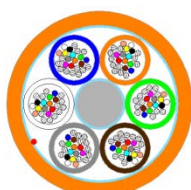


96 fiber



288 fiber

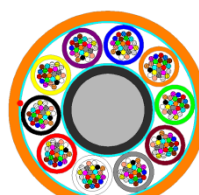
24fiber /tube



144 fiber



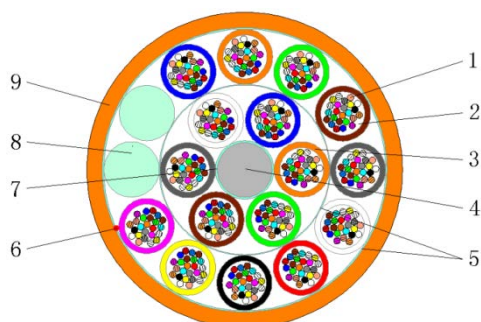
192 fiber



240 fiber



384 fiber



432 fiber

1. Optical Fiber
2. Jelly
3. Loose Tube
4. CSM
5. Water Blocking Kevlar
6. Ripcord
7. Water Blocking Yarn
8. Filling string
9. PA12 Sheath

Description

Fiber type: 200um single-mode fiber

MFD: @1310nm $8.9 \pm 0.4 \mu\text{m}$
@1550nm $9.9 \pm 0.5 \mu\text{m}$

Outside sheath: High-Performance Polyamide

Strength member: Glass fiber reinforced plastic

Tube Stranding: SZ wounded

Loose Tube: (PBT) Polybutylene-Terephthalate

Water tightness: Water blocking Kevlar/yarn

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 ripcord solution has great advantage to easy access to the fiber without damaging the loose tube

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
												
No.	13	14	15	16	17	18	19	20	21	22	23	24
	Red	Green	Blue	Yellow	White	Grey	Brown	Violet	Aqua	Natural	Orange	Pink
												

Remark: No.13 ~ No.24 fiber colors with black ring marks at intervals of 100mm.

Loose tube 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
												
No.	13	14	15	16	17	18	19	20	21	22	23	24
	Red	Green	Blue	Yellow	White	Grey	Brown	Violet	Aqua	Natural	Orange	Pink
												

Remark: No.13 ~ No.24 tube colors with black strip mark along the tube at intervals of 100mm.

Other color codes can be ordered by prior notice

Test Protocol

Mechanical Test:

Test	Standard	Parameters	Criteria
Installation Tension	IEC 60794-1-2-E1	1.5x Weight	No damage to fiber and cable
Short Term Crush	IEC 60794-1-2-E3	1.5x Weight/100mm, 5 min	No damage to fiber and cable
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	$\Delta a \leq 0.05\text{dB}$, 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			



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With DIN color code

Environmental Test:

Test	Standard	Parameters	Criteria
Temperature cycling	IEC 60794-1-2-F1	Single Mode	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 length	blowing
PR-140/ MiniJet	48	7/5.5 mm	Square: 4X100 m	≥ 800 m	
PR-140/ MiniJet	48-192	10/8 mm	Square: 4X100 m	≥ 1500 m	
PR-140/ MiniJet	192-288	12/10 mm	Square: 4X100 m	≥ 1500 m	
PR-140/ MiniJet	384-432	14/12 mm	Square: 4X100 m	≥ 1500 m	

Technical Index

Cable construction:

Fiber count	Construction (Fiber x Tube)	Diameter of FRP/CSM	Nominal diameter	Weight	Operation Temperature
48	12 x 4	0.9 / 0.9	4.1 mm	15 Kg/km	-20 - +70 °C
72	12 x 6	1.3 / 1.3	4.4 mm	19 Kg/km	-20 - +70 °C
96	12 x 6	2.0 / 2.0	5.3 mm	28 Kg/km	-30 - +70 °C
144	24 x 6	1.9 / 1.9	6.0 mm	33 Kg/km	-30 - +70 °C
192	24 x 8	2.6 / 2.6	6.6 mm	44 Kg/km	-30 - +70 °C
240	24 x10	2.6 / 3.7	7.9 mm	60 Kg/km	-30 - +70 °C
288	12 x 24	2.3 / 2.3	7.9 mm	60 Kg/km	-30 - +70 °C
384	24 x16	1.9 / 1.9	9.3 mm	75 Kg/km	-20 - +70 °C
432	24 x18	1.9 / 1.9	9.3 mm	75 Kg/km	-20 - +70 °C
576	24 x24	1.9 / 1.9	10,5 mm	107 Kg/km	-20 - +70 °C

Nominal	Loose tube bending radius	Min. Bending radius	Temperature range
0.45 mm	50 mm	Static: 12 X OD Dynamic: 20 X OD	Storage: -40 - +70 °C Installation: -10 - +50 °C



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Ordering Information

Standard drum size: 4km/6Km

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

Part number:

A48	G657A1-200um	12X4	SC	DIN
A72	G657A1-200um	12X6	SC	DIN
A96	G657A1-200um	12X8	SC	DIN
A144	G657A1-200um	24X6	SC	DIN
A192	G657A1-200um	24X8	SC	DIN
A240	G657A1-200um	24X10	SC	DIN
A288	G657A1-200um	12X24	SC	DIN
A384	G657A1-200um	24X16	SC	DIN
A432	G657A1-200um	24X18	SC	DIN