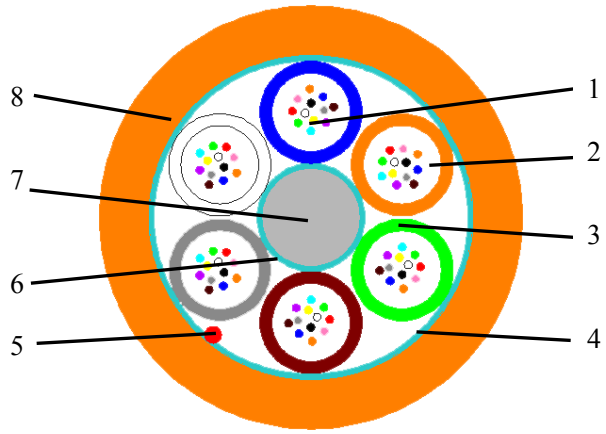
FibreCore A144 G657A2 24x6 SD

Structure



1. Optical Fiber 2. Jelly 3.Loose Tube
4. Water Blocking Kevlar/ Twaron Yarn 5.Ripcord
6. Water Blocking Yarn 7. FRP 8.Outer Sheath

Description

Fiber type:	G657A 200um fiber
Construction:	24fiber x 6 tubes
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

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 color code)

Fiber color code

Remark: No.13 – No.24 fiber colors with black ring marks except No. 22 Natural color.

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 x Weight of the cable	No change in attenuation after test at 1550nm
Short Term Crush	IEC 60794-1-2-E3	500N/100mm, 1 min	No change in attenuation after test at 1550nm
Repeated bending	IEC 60794-1-2-E6	25 N, 25 cycles	No change in attenuation after test at 1550nm
Torsion	IEC 60794-1-2-E7	40 N, 5 cycles	The variation for each fiber is less than ≤0.05dB at 1550nm.
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	Sample length: ≥ 1000m. Temperature range: -30 - ＋70 °C Cycles: 2	No change in attenuation coefficient at 1550nm after 12 hours
Water penetration	IEC 60794-1-2-F5B	Water height: 1m Sample length: 3m	No water leakage after 24 hours
Filling compound flow	IEC 60794-1-2-E14	Sample length: 300±5mm. Remove length: 130±2,5mm.	No filling compound dripped after 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	Standard duct	Test field	Typical blowing length
PR-140/ MiniJet	10/8 mm	Square: 4X100 m	≥ 2000 m
PR-140/ MiniJet	12/10 mm	Square: 4X100 m	≥ 2000 m

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Technical Index

Cable construction:

Fiber count	Construction (Fiber x Tube)	Nominal diameter	Weight	Operation Temperature
144	24 x 6	6.0 mm	32 Kg/km	-30 - ＋70 °C

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

Ordering Information

Standard drum size: 4km

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

Part number:

Fiber count	**200um G657A fiber**
	Type number
144F	H02OU144OR60Z