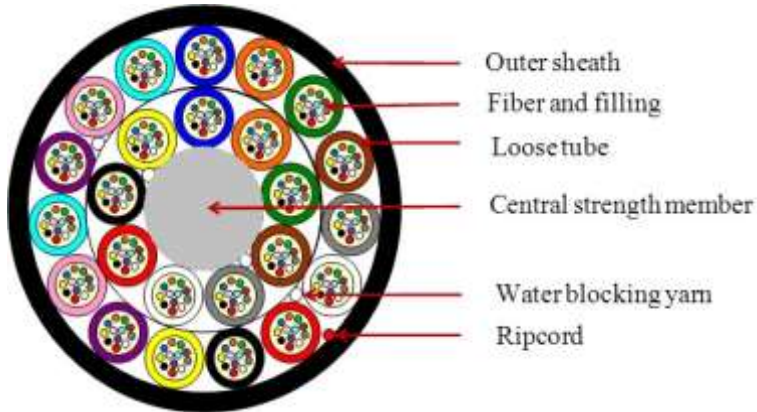


# UHD Fibrecore

A576 G657A2-180µm 24x24 FD 9.8 mm



## Structure



### 576 fiber

Color code of the cable may vary from the drawings above

- |                        |                        |               |
|------------------------|------------------------|---------------|
| 1. Optical Fiber       | 2. Jelly               | 3. Loose Tube |
| 4. FRP                 | 5. PE Lining           | 6. Ripcord    |
| 7. Water Blocking yarn | 8. Water Blocking yarn | 9. HDPE       |

## Description

Fiber type: G657A2-180 µ m

Outside sheath: HDPE

FRP: Glass fiber reinforced plastic rod

Stranding: SZ wounded around FRP

Water tightness: Water swellable yarns

Diameter: 9,8 mm

## Feature

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

The flexible loose tube design provides 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.

High performance, the cable can be blown in both small and standard tubes for very long distance

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## Color Code



### Color Code(DIN color code)

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 except No. 22 Natural color.

Inner layer loose tube color code Sequence:

No.	1	2	3	4	5	6	7	8	9
	Red	Green	Blue	Yellow	White	Grey	Brown	Violet	Aqua

Outer layer loose tube color code Sequence:

No.	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	Black	Orange	pink	Red	Green	Blue	Yellow	White	Grey	Brown	Violet	Aqua	Natural	Orange	Pink

Remark: Tube No.13 ~ No.24 colored with black strip except No. 22 Black colored with white strip.

## Test Protocol

### Mechanical Test:

Test	Standard	Parameters	Criteria
Installation Tension	IEC 60794-1-2-E1	1000 N	Additional attenuation ≤0.05dB No damage to outer jacket and inner elements
Short Term Crush	IEC 60794-1-2-E3	500 N ,100mm, 1 min	Additional attenuation ≤0.05dB No damage to outer jacket and inner elements
Repeated bending	IEC 60794-1-2-E6	25 N, 25 cycles	Additional attenuation ≤0.05dB No damage to outer jacket and inner elements
Torsion	IEC 60794-1-2-E7	40 N, 5 cycles,1m	□ a≤0.05dB after test, 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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A576 G657A2-180 $\mu$ m 24x24 FD 9.8 mm



## Environmental Test:

Test	Standard	Parameters	Criteria
Temperature cycling	IEC 60794-1-2-F1	G657A2	The change in attenuation coefficient $\leq 0.15$ dB/ km
Water penetration	IEC 60794-1-2-F5	Water height =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 $^{\circ}$ 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	Number of loose tube	Number of fiber/tube
576	24	24

Outer sheath thickness (Nom.)	Weight	Temperature range	Overall diameter Nominal
0.45 mm	79 Kg/km	Storage: -30 - +70 $^{\circ}$ C Installation: -10 - +50 $^{\circ}$ C Operation: -30 - +70 $^{\circ}$ C	9,8 mm

### Mechanical properties:

Max. Crushing resistance	Max. Tensile strength	Min. Bending radius
500 N/100mm	1000 N	Static: 10X OD Dynamic: 20X OD