

Enhanced Performance Fiber Units (EPFU)

Description

The EPFU is the product that with small diameter, lightweight, highly flexibility and proper stiffness, and it can be blown into the microduct of 5.0/3.5mm&7.0/4.0mm. The fibres are coated with a soft acrylate resin which provides excellent dimensional and thermal stability to cushion the fibres, in addition, the resin can be easily stripped in connecting the fibres. The outer sheath is a thermoplastic that is of low friction. The surface of the sheath is designed with special grooves, compared to the surface of the traditional optical fibre cable, it provides not only the high level of mechanical protection, but also the perfect blowing performance.

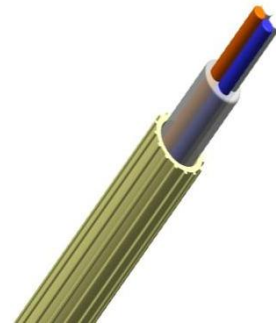
Features

Fiber type: 250um (G.652D /G.657A1/G.657A2/OM1/OM2/OM3/OM4)

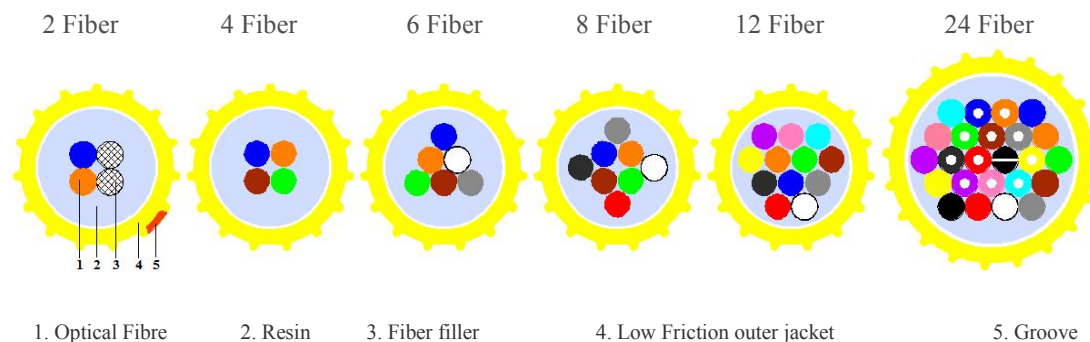
Inner Layer: Resin

Outside sheath: Low friction halogen free plastic (HDPE)

Fiber count: 2-24



Structure



Technical Index

Cable properties:

Fiber Count	2	4	6	8	12	24
Outer Diameter (mm)	1.15 ± 0.05	1.15 ± 0.05	1.35 ± 0.05	1.55 ± 0.05	1.65 ± 0.05	2.15±0.1
Approx. Weight (g/m)	1.0	1.0	1.3	1.8	2.2	2.8
Jacket Color	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Min Bend Radius (mm)	50	50	60	80	80	120
Max. tensile	0.5 G (G=9.8*Weight)					
Max. crush	100 N/100mm					
Temperature	Storage -30~+60℃; Installation-10~+50℃; Operation-30~+60℃					

Optical Parameters (Fiber Unit)

Parameters	Single Mode (G.652D /G.657A1/G.657A2/)	Multimode (OM1/OM2/OM3/OM4)
Attenuation	≤0.40/0.30dB/km @1310nm/1550nm	≤3.5/1.5dB/km @850/1300nm

Typical Blowing Test:

Fibre Count	2-12 Fibres	24 Fibres
Test equipment	PLUMETTAZ: UM25, ERICSSON: F, Fremco	
Standard duct	5.0/3.5 mm	7.0/4.0mm
Pressure	7bar / 15bar	13bar
Typical blowing distance	500m / 1000m	500m
Typical blowing time	15 min / 20 min	15min

Color Code

Fiber Colors 1

NO.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Purple	Pink	Aqua

One black ring mark (200mm pitch)

NO.	13	14	15	16	17	18	19	20	21	22	23	24
Color	Blue	Orange	Green	Brown	Slate	White	Red	Nature	Yellow	Purple	Pink	Aqua

Or Fiber Colors 2

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

One black ring mark (200mm pitch)

NO.	13	14	15	16	17	18	19	20	21	22	23	24
Color	Red	Green	Blue	Yellow	White	Gray	Brown	Violet	Aqua	Nature	Orange	Pink

Packing

Standard delivery lengths are: 1000m, 2000m, 4000m, with a tolerance of -1~+5%.

Fibre Count	Length (m)	Pan Size Ø×H (mm)	Weight (Gross) (kg)
2 / 4	2000	φ510×200	7
	4000	φ510×200	9
	6000	φ510×300	12
6	2000	φ510×200	7.4
	4000	φ510×300	10.8
8	2000	φ510×200	8.8
	4000	φ510×300	13.6
12	2000	φ510×200	9
	4000	φ510×300	14
24	2000	φ560×300	14

