

QF-A-I/U/B

Single loose tube, non-metallic armored fiber optic cable

Application: The cable is suitable for the oil and offshore industry and other harsh environments. Outer sheath of UV-and weather resistant material. Color-coded optical fibers contained in loose tube. Good mechanical and environmental performance, high-capacity data communication transmission.

Standards: IEC 60794, IEC 60754-1/2, IEC 60092-360, IEC 61034-1/2, UL 1581, IEC 60332-3-22

Design & Construction

Fibers: Loose tube
Loose tube diameter: Φ 2.8 mm up to 12 fibers
 Normal Φ 3.5 mm above 12 fibers
Color code: Individually colored fibers
Fire resistant layer (optional): Mica Tape
Armor: Glass yarn
Outer jacket (optional): LSZH-SHF1, LSZH-SHF2 or LSZH-SHF2-MUD
Outer jacket color: Black (optional)

Environmental properties and fire performances

Halogen acid gas: IEC 60754-1/2
Degree of acidity of gases: IEC 60754-1/2
Smoke emission: IEC 61034-1/2
Flame retardant: IEC 60332-1-2, IEC 60332-3-22
Fire resistant: IEC 60331-2
UV-resistant: UL 1581

Mechanical environmental performance

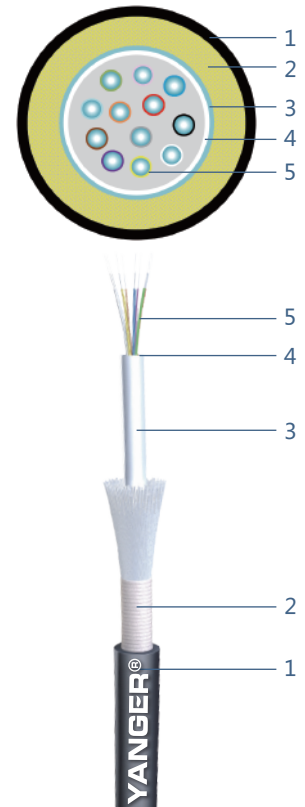
Bending radius(N/10cm)-Long-term: 15 D
Bending radius(N/10cm)-Short-term: 10 D
Temperature(°C)-Operation: -40°C~80°C
Temperature(°C)-Installation: -10°C~60°C

Mechanical property

No. of fiber	Outer jacket OD (mm)	Tensile (N)	Crush (N/10cm)	Cable weight (kg.km)
4	8.8 ± 0.5	2000	3000	55
8				
12				
24	9.5 ± 0.5	2000	3000	71

Transmission property

Standard designation				Maximum attenuation (dB/km)					Fiber diameter (μm)	OFL bandwidth		EMB at 850 nm (MHz.km)
IEC 60793-2-50	IEC 60793-2-10	IEC 11801	ITU-T	850 nm	1300 nm	1310 nm	1550 nm	1625 nm		850 nm (MHz.km)	1350 nm (MHz.km)	
B1.3	—	OS2	G652D	—	—	0.4	0.3	0.25	8.6-9.5	—	—	—
B6_a1	—	—	G657A1	—	—	0.4	0.3	0.25	8.6-9.5	—	—	—
B6_a2	—	—	G657A2	—	—	0.35	0.25	0.25	8.2-9.0	—	—	—
B6_b3	—	—	G657B3	—	—	0.35	0.25	0.35	8.0-8.8	—	—	—
—	A1a.3	OM4	—	3.2	1.2	—	—	—	50±2.5	≥3500	≥500	500
—	A1a.2	OM3	—	3	1	—	—	—	50±2.5	≥1500	≥500	2000
—	A1a.1	OM2	—	3	1	—	—	—	50±2.5	≥500	≥500	4700
—	A1b	OM1	—	3.2	1.2	—	—	—	62.5±2.5	≥200	≥500	200



1. Outer jacket
2. Armor
3. Fire resistant layer
4. Loose tube
5. Fibers



Halogen free
IEC 60754



Fire resistant
IEC 60331-2