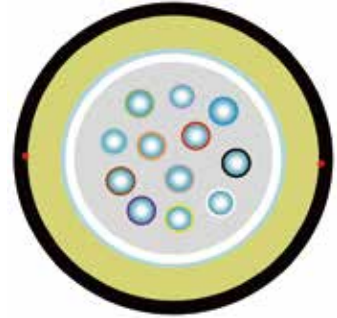


QFAI

Loose tube dielectric 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. This tube is filled with gel to prevent the ingress of water, a mica tape is wrapped over the loose tube for fire protection condition. A water blocking dielectric armor is applied and an outer jacket completes the overall cable design. 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, IEC 60811, IEC 60331-25

Design & Construction

Fibers: Loose tube
loose tube diameter: Φ2.8 mm up to 12 fibers
 Normal Φ3.5 mm above 12 fibers
Color code: Individually colored fibers
Fire resistant layer(Option) : Mica Tape
Armor: Glass Yarn
Outer jacket: SHF1
Outer jacket color: Black (As per request)

Environmental properties and Fire Performances

Halogen acid gas, degree of acidity of gases: IEC 60754-1/2
Jacket, Insulation material: IEC 60092-360
Smoke emission: IEC 61034-1/2
Flame retardant: IEC 60332-3-22
Oil resistance: IEC 60811
Fire resistant: IEC 60331-25
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~70°C (SHF1)
Temperature(°C)-Installation: -10°C~60°C
UV-resistant: Yes

Mechanical Property

No. of fiber	Inner sheath 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			71

Transmission Property

Standard Designation				Maximum Attenuation (dB/km)					Fiber Diameter (μm)	OFL Bandwidth		EMB at850 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

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Yanger is indicative only and shall not be binding on Yanger or be treated as constituting a representation on the part of Yanger.