

AICI Tight buffered, metallic armored fiber optic cable

Application: Optical fiber cable for industry environments. The cable is suitable for

both indoor and outdoor use. Continuous submergence in water is not recommended. Outer sheath of UV-oil- and weather resistant material. The 0.9mm tight buffer is enforced by water block glass yarn and encased within a inner jacket. A metallic armor is applied over the inner sheath and an outer jacket completes the overall cable design. Good mechanical and environmental performance, high capacity data communication transmission. Small diameter, multi core number, high compressive, light weight, convenient operation, simple construction,

conducive to the comprehensive wiring.

IEC 60794, IEC 60754-1/2, IEC 60092-360, IEC 61034-1/2, UL Standards:

1581, IEC 60811, IEC 60332-3-22



Design & Construction

Fibers: Tight-buffered 0.9 mm **Bedding:** Water blocking material Color code: Individually colored fibers

Inner-jacket: SHF1

Armor: Alt. 1: Galvanized steel wire braid - GSWB

Alt.2: Corrugated steel tape

Outer jacket: SHF1

Outer jacket color: Black (As per request)

Environmental properties and Fire Performances

IEC 60754-1/2 Halogen acid gas,

degree of acidity of gases:

Jacket, insulation material: IEC 60092-360 Smoke emission: IEC 61034-1/2 Fire retardant: IEC 60332-3-22 IEC 60811 Oil resistance: **UV-resistant:** UL 1581

Mechanical environmental performance

Bending radius (N/10cm)-Long-term: 15D, 25D (Corrugated armor) 10D, 15D (Corrugated armor) Bending radius (N/10cm)-Short-term:

Temperature (°C)-Operation: -40°C~70°C (SHF1) -10°C~70°C

Temperature (°C)-Installation: Yes

UV-Resistant:

Mechanical Property

No. of fiber	Inner sheath OD (mm)	Outer sheath OD (mm)	Tensile (N)	Crush (N/10cm)	Cable weight (kg.km)
4	4.8 ± 0.2	8.5 ± 0.5	700		100
8	5.0 ± 0.3	9.5 ± 0.5	800	2000	122
12	5.5 ± 0.4	10.5 ± 0.5	1200	2000	146
24	7.5 ± 0.5	12.0 ± 0.5	1700		183

Transmission Property

Standard Designation				Maximum Attenuation (dB/km)				3/km)	Fiber OFL Bar		I	
IEC	IEC	IEC	ITU-T	850	1300	1310	1550	1625	Diameter	850 nm	1350 nm	at 850nm
60793-2-50	60793-2-10	11801		nm	nm	nm	nm	nm	(þm)	(MHz·km)	(MHz·km)	(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	_	_	1
B6_a2		_	G657A2		_	0.35	0.25	0.25	8.2-9.0	_	_	
B6_b3	1	-	G657B3		_	0.35	0.25	0.35	8.8-0.8	_	_	
_	A1a.3	OM4	_	3.2	1.2	_	_	_	50±2.5	≥3500	≥500	500
_	A1a.2	OM3	_	3	1	_	_	_	50±2.5	≥1500	≥500	2000
	Ala.1	OM2	_	3	1	_	_	_	50±2.5	≥500	≥500	4700
	A1h	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.