

FIGURE-8 OPTICAL FIBER GYTC8S Aerial Installation Cable

DATA SHEET & USER MANUAL



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Figure	e-8 Arial Op	otical Fiber	Cable	
GYT	C8S			
Version	Designer	Verified	Approved	Date
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Reference

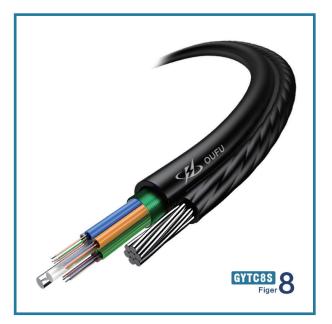
The cable OUFE offered, are designed ,manufactured and tested according to internationalstandards as follows

IEC 60793-1	Optical fiber Part 1: Generic specifications
IEC 60793-2	Optical fiber Part 2: Product specifications
IEC 60794-4	Optical fiber cables-Part 4: Aerial optical cables along electrical power lines
ITU-T G.650	Definition and test methods for the relevant parameters of single-mode fibers
ITU-T G.652	Characteristics of a single-mode optical fiber and cable
EIA/TIA 598-C	Color code of fiber optic cables



Figure-8 Arial Optical Fiber Cable

Fig8 designed cable with wire messenger for arial pole and wall installation.





Fiber count	KN	Steel wire
4 - 144 FO	7.5 - 9.5 KN	1

Cable name

Figure8 GYTC8S fiber cable GYTC8S8

Scope

This document defines the technical guidelines and operational benchmarks governing optical fiber cable design, manufacturing, and implementation within industrial applications. It specifies performance criteria for high-performance Optowire cables, including their optical signal integrity, structural resilience under mechanical stress, and dimensional precision requirements aligned with industry standards.

Cable description

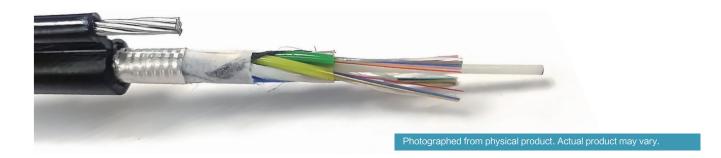
OUFU cables feature robust tensile resilience and adaptable flexibility within streamlined dimensions, ensuring reliable data transmission alongside durable operational integrity under varying environmental conditions.

Quality

Quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.

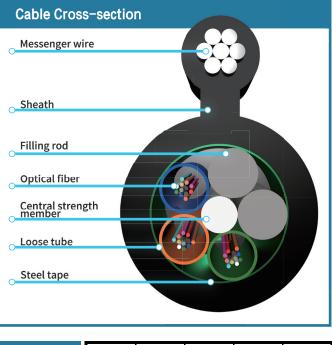
Reliability

Initial and periodic product qualification tests for performance and durability are performed rigor– ously to ensure product reliability.



Dimension and Properties:

	Fiber count	4	8	12	16	24	32	48	60	72	96	144	
	Number of tube/ filler	1/5	2/4	3/3	4/2	6/0	4/2	4/2	5/1	6/0	8/0	12/0	
	Fiber No. per tube		4	4	4	4	8	12	12	12	12	12	
	Loose tube diameter	2.0±0.1mm											
	CSM diameter		2.2±0.1mm			3.5 ± 0.1mm				6.1±0.1mm			
_						(FRP: 2.6 ± 0.1mm)				FRP 2.6 ± 0.1mm)			
Physical	Outer sheath thickness	Nominal 1.5mm											
μ	Messenger wire	1.0±0.1mm*7											
	Messenger outer sheath thickness	Nom.1.5mm											
	Cable OD (W*H)	9.2*17.6 mm ± 5% 10.5mm*18.9mm ± 5% 13.1mm*2*				lmm*21	1.5mm ±5%						
	Cable weight (kg/km±15%)	135 136 137 138				141	140	141	143	144	170	220	
	Operation temperature range	-40 deg C to + 70 deg C											
	Installation temperature range	-20 deg C to + 70 deg C											
	Transport and storage temperaturerange	-40 deg C to + 70 deg C											
al	Max. tensile load	7500N											
anic	Crush resistance	1000 N/10cm											
Mechanical	Minimal installation bending radius	20 x OD											
	Minimal operation bending radius	10 x OD											



Color codes for loose tube Element no. Fiber count 8 9 1 2 3 4 5 6 7 10 11 12 LT FR FR FR FR FR 6 12 LT LT FR FR FR FR 24 LT LT LT FR FR LT LT LT 36 LT LT LT LT 48 LT LT LT LT FR FR 72 LT LT LT LT LT LT LT LT 96 LT LT LT LT LT LT 144 LT LT

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

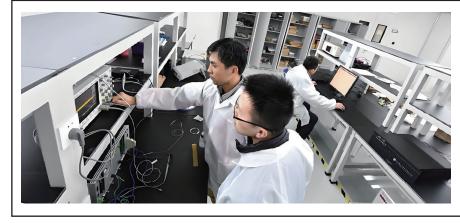


Optical Fiber G. 652D

The optical fiber is made of high pure silica and germanium doped silica.UV curable acrylate material is applied over fiber cladding as optical fiber primary protective coating. The detail data of optical fiber performance are shown in the following table.

Catagony	Description	Specifications		
Category	Description	After cabling		
	Attenuation @1310 nm	≤0.36 dB/km		
	Attenuation @1550 nm	≤0.22 dB/km		
	Dispersion @1310nm	≤3.5 ps/nm·km		
	Dispersion @1550nm	≤18.0 ps/nm·km		
Optical	Zero Dispersion Wavelength	1300~1324 nm		
Specifications	Zero Dispersion Slope	≤0.092 ps/nm2·km		
	Macro bending Loss			
	(100 turns; Φ 60 mm) @1550 nm (100 turns; Φ 60 mm) @1625 nm	≤ 0.05 dB ≤ 0.1 dB		
	Cable cutoff wavelength λ cc(nm)	≤1260nm		
	Mode Field Diameter @1310 nm	9.2±0.4µm		
	Cladding Diameter	125 ± 1 µ m		
Dimensional	Coating diameter	245 ± 10 µ m		
Specifications	Core/cladding concentricity error	≤0.6 µm		
	Cladding Non-Circularity	≤1.0 %		
Mechanical Specifications	Proof stress	≥0.69Gpa		





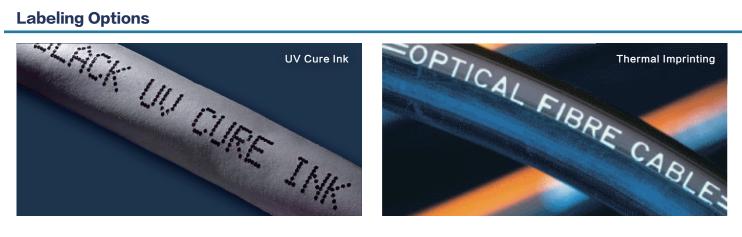
Testing

Main mechanical & environmental performance test of optical cable

Item	Test Method	Acceptance Condition
Tensile Strength IEC 60794-1-21-E1	Load: MAT Length of cable: \geq 50m.	Loss change≤0.1dB@1550nm after test; Fiber stain≤0.33%;
Crush Test	Load time: 5min Load: short term crush	No fiber break and no sheath damage. Loss change≤0.1dB@1550nm after test.
IEC 60794-1-21-E3 Impact Test IEC 60794-1-21-E4	Load time: 1min Radius of striking surface: 300 mm Impact energy: 10J Number of impacts: each 1 time at 3 point,	No fiber break and no sheath damage. Loss change≤0.1dB@1550nm after test. No fiber break and no sheath damage.
Repeated Bending IEC 60794-1-21-E11	total 3 times Bending radius: 20D (D: cable diameter) Cycles: 25	Loss change≤0.1dB@1550nm after test. No fiber break and no sheath damage.
Torsion IEC 60794-1-21-E7	Length: 2m Twist angle: ±180° No. of cycle: 10	Loss change≤0.1dB@1550nm after test. No fiber break and no sheath damage.
Cable bend IEC 60794-1-21-E10	Diameter of mandrel:20 x OD Number of turns:4 Number of cycles:3	Loss change≤0.1dB@1550nm after test. No fiber break and no sheath damage.
Water Penetration IEC 60794-1-21-F5C	Height of water: 1m Sample length: 3m Time: 24h	Loss change≤0.1dB@1550nm after test. No fiber break and no sheath damage.
Temperature Cycling IEC 60794-1-22-F1	Temperature: −40℃~+70℃ Time of each step: 12h Number of cycle: 2	Loss change≤0.1dB/km @1550nm. No fiber break and no sheath damage.



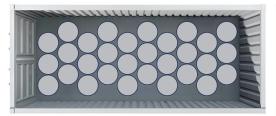
Labeling Options



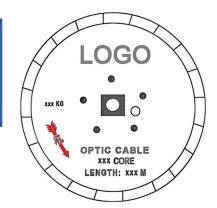
Packing Options



Sea Freight Example: Default shipping method: Sea freight.







Packaging material: Plywood drum. Drum dimensions: D:600mm, H:750mm. Container size: 20-foot container. Theoretical maximum quantity: 90 pieces. For specific cable lengths, weight specs etc, please confirm with our team. Special requirements and custom labeling are available upon request.



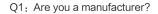


- · cable
- · factory test report
- · batch details
- cuting tool
- · company souvenir
- · testing guaid

Trail Order

Trial orders are welcome. Minimum order quantity : 1,000–2,000 meters. Production & Delivery: If items are not in stock, production will follow factory batches, and delivery times may vary. Customization Note: Specialized custom products may incur additional charges.

please consult our team for details.



- A1: Yes. We are a manufacturer with 15+ years of history. We offer the best price direct from the factory.
- Q2: Can you put my brand name (logo) on these products?
- A2: Yes! We offer professional OEM services. Our factory can make the logo fee free for bulk orders.
- Q3: Do you accept small orders?
- A3: Yes, small orders are always available. We support new projects of our customers as we know even great business origins from small orders.

JO OUFU CABLE

- Q4: Can you provide us with more products to help us to save more shipping costs?
- A4: Of course. OPGW cable, ADSS cable, ACSR Cable, FTTH Drop cable, outdoor fiber cable, indoor fiber cable, fiber cable Accessories, patch cord, pigtail, and air blow fiber cable are our main products.

Q5: What is your delivery time?

A5: Usually within 10 working days.



Application Tips

Steel Messenger Dead-end Processing



Ather High-Demand Selections



48 Core ADSS Fiber Cable – Outdoor Self–Supporting, All Dielectric

ADSS cable is loose tube stranded structure. The optical fiber is 250µm, the loose tube is made of high modulus plastic, which is filled with water– proof compound. In the center of the cable core is a FRP strength member, The loose tube (and the filling rope) is twisted around the central reinforcement core to form a compact and round cable core, and the gap in the cable core is filled with a water blocking filler. The outer of the cable is a polyethylene (PE) inner sheath, then twisted high tensile strength aramid, the outermost is the electric tracking (AT) outer sheath



2-24 core super mini air-blown micro fiber cable

Air-blown micro cables use air-blown laying methods to connect optical branch points and user access points. The optical cable has good mechanical and temperature properties, high tensile strength guaranteed by fiberglass, good flexibility, easy construction, and low cost.



ASU Fiber Optic Cable G.652D

Mini Adss ASU Cable has a loose tube structure and water-resistant gel compound to provide crucial protection for the fiber. Over the tube, water-blocking material is applied to keep the cable watering. Two Parallel fiber-reinforced plastic(FRP) elements are placed on the two sides. The cable is covered with a single PE outer sheath. It is especially suitable for installation in aerial for long-distance communication.



Ethernet Cable Cat5e, Cat6, Cat6a

premium Cat5e, Cat6, and Cat6a Ethernet Cables in 305m boxes, designed for high-speed, reliable network performance. Our cables are available in UTP, FTP, and SFTP configurations, featuring 100% pure copper conductors for superior signal integrity and minimal interference. Whether you need 100m, 200m, or 305m lengths, each cable is rigorously tested to ensure compliance with international standards, making it ideal for data centers, offices, and smart home installations.



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