

TECHNICAL SPECIFICATION

For

**3.1X6.3mm - drop G657A2 LSZH
(GJYXCH)**

1. INTRODUCTION

The optical fiber loose tube unit is positioned in the center, two parallel strength members are placed at the two sides, and a steel wire as the additional strength member is also applied, then the cable is completed with an outer sheath.

2. FEATURES & APPLICATIONS

➤ Feature

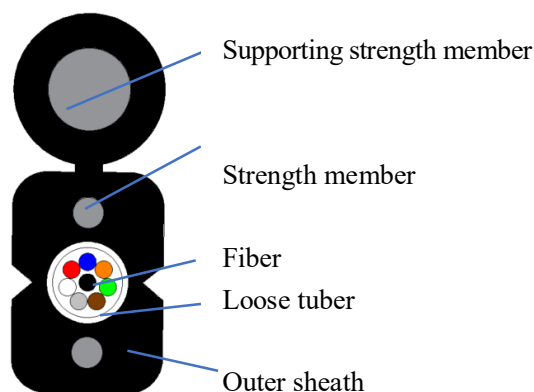
- ◆ Excellent temperature performance
- ◆ The fluted design makes it easy for stripping and splicing
- ◆ Simple structure, light weight, and high practicability

➤ Application

- ◆ Indoor & Outdoor premises cabling
- ◆ Pigtail and patch cord in communication equipment

3. PRODUCT

3.1 Cable Cross-Section



3.2 Cable Structure

Item	Content	Unit	Value
Fiber	Mode		G.657A2
	Qty		8
	Color		Blue /Orange/Green/Brown/Grey/White /Red/Black/Yellow
Loose tube (with compound)	Material		PBT
	Diameter	mm	1.8±0.1
	Color		Natural
Strength Member	Material		Galvanized Steel Wire

	Diameter	mm	0.45±0.02
Supporting strength member	Material		Galvanized Steel Wire
	Diameter	mm	1.0±0.05
Outer Sheath	Material		LSZH
	Cable dimension	mm	3.1±0.2 x 6.3±0.3
	Color		Black
Tensile strength	Short term	N	600
	Long term	N	300
Crushing resistance	Short term	N/10cm	2200
	Long term	N/10cm	1000

4. FIBER PERFORMANCE

Fiber Type	Cable Attenuation (Max)		Fiber Macro Bend Loss (Max)		
	1310nm	1550nm	R15mm, 10 turns	R10mm, 1 turn	R7.5mm, 1 turn
	(dB/km)		(dB)		
G.657 A2	0.4	0.3	0.03 @1550nm 0.10 @1625nm	0.10@1550nm 0.20@1625nm	0.50@1550nm 1.00@1625nm

5. CABLE PERFORMANCE

5.1 Cable Bending Radius

Static : 15 mm

Dynamic : 30 mm

5.2 Application Temperature Range

Operating temperature range : -10°C to +60°C

Storage / Transport temperature range : -10°C to +60°C

Installation temperature range : -10°C to +60°C

5.3 Mechanical Performance

No	Item	Test Method	Acceptance Condition
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1	Tensile Strength IEC 60794-1-21-E1	- Load: 600 N - Length of cable under load: 50 m - Load time: 1min	- Loss change \leq 0.2dB @1550nm - No fiber break and no sheath damage.
2	Crush Test IEC 60794-1-21-E3	- Load: 1000 N - Load time: 1min	- Loss change \leq 0.4 dB @1550nm - No fiber break and no sheath damage.
3	Impact Resistance IEC 60794-1-2-E4	- Points of impact: 3 - Times of per point: 1 - Impact weight: 1 N - Height: 1 m	- Loss change \leq 0.4 dB @1550nm - No fiber break and no sheath damage.
4	Repeated Bending IEC 60794-1-2-E6	- Bending radius: 30H - Load: 20 N - No. of cycle: 25	- Loss change \leq 0.4 dB @1550nm - No fiber break and no sheath damage.

5.4 Environmental Performance

No	Item	Test Method	Acceptance Condition
1	Temperature Cycling Test IEC 60794-1-2-F1	- Temperature range: -10°C→60°C - Time per each step: 8 hours - Number of cycles: 2	- Loss change \leq 0.4 dB/km@1550nm - No fiber break and no sheath damage.