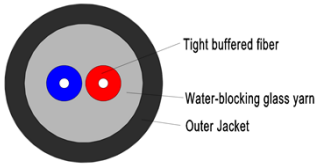


2F 5.0mm Distribution LSZH OFNR Cable

--LinkPro CABLE CONSTRUCTIONS

Description

The distribution cable uses 900μm tight buffer fiber as optical transmission medium, covered with water-blocking glass yarns strength member in a Low Smoke Zero Halogen(LSZH) Jacket.



Structure Diagram

Features

- Water-blocking glass yarns providing excellent tensile performance
- Anti-corrosion, flame-retardant and environment-friendly

Applications

- Used in access cable from outdoor to indoor in customer premises network;
- Used as access building cable in premises distribution system;
- used in FTTH.

Optical Fiber Characteristic

Fiber Type	After cabled max attenuation(dB/km)				Overfilled modal bandwidth(OFL)	Effective modal bandwidth	Minimum bending radius
	1310nm	1550nm	850nm	1300nm	850/1300nm (MHZ.km)	850/953nm (MHZ.km)	mm
G.652.D	0.4	0.3	-	-	-	-	16
G.657.A1	0.4	0.3	-	-	-	-	10
G.657.A2	0.4	0.3	-	-	-	-	7.5
G.657.B3	0.4	0.3	-	-	-	-	5
OM1	-	-	3.5	1.5	≥200/500	-	37.5
OM2	-	-	3.5	1.5	≥500/500	-	7.5
OM3	-	-	3.5	1.5	≥1500/500	≥2000	7.5
OM4	-	-	3.5	1.5	≥3500/500	≥4700	7.5
OM5	-	-	3.5	1.5	≥3500/500	≥4700/2470	7.5

Constructions and Technical Parameters

Item		Value
Fiber Counts		2
Tight buffer fibers	Material	Nylon
	Diameter(mm)	0.85 ± 0.05
	Color	Blue, Red
Strength member		Water-blocking glass yarn
Outer sheath	Material	LSZH(UV RESISTANT)
	Color	Black
Minimum bending radius	Static	10×Cable diameter
	Dynamic	20×Cable diameter
Cable diameter(mm)		5.0 ± 0.2
Cable weight(kg/km) approx.		25

Mechanical and Environmental Characteristics

Items	Descriptions		Test Method	Requirements
Tensile performance	Long Term	150N	IEC 60794-1-21 Method E1	IEC 60794-3-20
	Short Term	500N		
Crush resistance	Long Term	500N/10cm	IEC 60794-1-21 Method E3	IEC 60794-3-20
	Short Term	1000N/10cm		
Temperature range	-40 °C to +70 °C		IEC 60794-1-22 Method F1	IEC 60794-3-20
Other parameters: according to IEC 60794-3 and IEC 60794-1-21				

Environmental Temperature

Items	Value
Installation temperature	-20 °C to +60 °C
Operation temperature	-40 °C to +70 °C
Storage temperature	-40 °C to +70 °C

Fire Performance

Fire Test Description	Fire Test Specification	Requirement
UL 1666 Riser Flame Test	OFNR	PASS

Identification

Unless otherwise specified, the cable sheath marking shall be as follows:
OPTICAL CABLE D/125 AAA 2F LSZH OFNR E516857(UL) YYWWD xxxxM *****

- Ink Color: Black
- D/125: is the optical fiber core size where OM1 will be printed 62.5/125, OM2, OM3, OM4, OM5 will be printed 50/125. ITU-T G.652.D, G.657.A1, G.657.A2 will be printed 9/125
- AAA: is the fiber Type OM1, OM2, OM3, OM4,OM5, G.652.D, G.657.A1 or G.657.A2
- E516857(UL): Aachen UL Authentication No.
- YYWWD: Year + Week + Day
- xxxxM: Sequential meter marking, Interval: 1m
- *****: Cable Reel No., Per Manufacturer or owner

Packing

Plywood drums protection. During transportation, right tools should be used to avoid damaging the package and to handle with ease. Cables should be protected from moisture; kept away from high temperature and fire sparks; protected from over bending and crushing; protected from mechanical stress and damage.

Delivery Length

Standard delivery length is 2km/drum. Other lengths available upon agreement.

Chemical Characteristics

Free of hazardous substances according to RoHS 2015/863/EU

Revision History

Revision	Date	Changes
1	2025.09.02	Initial release

Rev.	Draft	Date	Check	Date	Approved	Date
1	Tina	2025.09.02	Jasson	2025.09.02	Matina	2025.09.02