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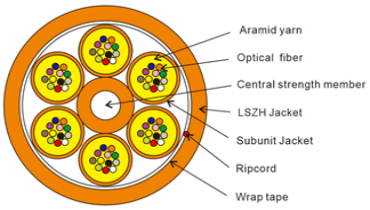
72F 11.2mm Micro(Multi-unit with 3.0mm Subunit) Internal LSZH CPR B2ca Cable--LinkPro CABLE CONSTRUCTIONS

Description

72 fiber 250μm internal cable with aramid strength members, FRP and LSZH Jacket.

72 fiber OM1, OM2, OM3, OM4 multimode or ITU-T G.652.D, ITU-T G.657A1, ITU-T G.657A2 single mode fibers in 6x12 fiber subunits with aramid strength members and a 2.95mm LSZH Jacket. The individually numbered subunits are stranded around a FRP rod (option to be Jacketed) central strength member with wrapping tape, ripcord and final Low smoke zero halogen(LSZH) Jacket.



Structure Diagram

Features

· High-integrated colored bare fiber design
· Aramid yarns providing excellent tensile performance
· Stranded non-metallic strength member structure ensure the cable endure larger tensile strength
· Anti-corrosion, flame-retardant and environment-friend

Applications

· Ideal for internal inter-connect using MPO or MTP connectivity
· Data center cable
· Backbone distribution cable in a building

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

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Fiber Identification (IEC TR 63194)

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Purple	Pink	Aqua

Constructions and Technical Parameters

Items		Descriptions
Fiber counts		72
Inner sheath	Material	LSZH
	Color	TBD
	Strength member	Aramid yarns
	Diameter(mm) approx.	2.95±0.1
Central strength member		FRP+Jacket
Wrapping tape		Non-woven
Ripcord		1
Outer sheath	Material	LSZH
	Color	TBD
Minimum bending radius	Static	10×Cable diameter
	Dynamic	20×Cable diameter
Cable diameter(mm)		11.2 ± 0.5
Cable weight(kg/km) approx.		120
Packaging		Plywood drum

Mechanical and Environmental Characteristics

Items	Descriptions		Test Method	Requirements
Tensile performance	Short-term	1000N	IEC 60794-1-21 Method E1	IEC 60794-2-20
	Long-term	300N		
Crush resistance	Short-term	1000N/10cm	IEC 60794-1-21 Method E3	IEC 60794-2-20
	Long-term	350N/10cm		
Temperature range	-20 °C to +70 °C		IEC 60794-1-22 Method F1	IEC 60794-2-20
Other parameters: according to IEC 60794-2-20 and IEC 60794-1-21				

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Environmental Temperature

Items	Value
Installation temperature	-10 °C to +60 °C
Operation temperature	-20 °C to +70 °C
Storage temperature	-40 °C to +70 °C

Fire Performance

Fire Test Description	Fire Test Specification	Requirement
Reaction to fire	EN 50575/EN 50399	CPR B2ca-s1a ,d0,a1

Identification

Unless otherwise specified, the cable sheath marking shall be as follows:
OPTICAL CABLE D/125 AAA 72F LSZH B2ca 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.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
- YYWWD: Year + Week + Day
- xxxxM: Sequential meter marking, Interval: 1m
- ******: Cable Reel No., Per Manufacturer or owner

Jacket Color

Blue	Orange	Green	Brown	Gray	White	Red	Black
RAL 5015	RAL 2003	RAL 6018	RAL 8003	RAL 7000	RAL 1013	RAL 3000	RAL 9005
Yellow	**Purple**	**Pink**	**Aqua**	**Erika Violet**	**Ivory**	**Lime Green**	
RAL 1021	RAL 4005	RAL 3015	RAL 6027	RAL 4003	RAL 1015	Munsell 8GY 8.5/9.5	

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 1km/drum. Other lengths available upon agreement.

Chemical Characteristics

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

Revision History

Revision	Date	Changes
1	2025.08.05	Initial release

Rev.	Draft	Date	Check	Date	Approved	Date
1	Tina	2025.08.05	Dave	2025.08.05	Leo	2025.08.05