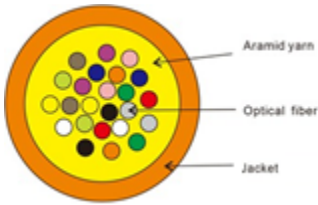


2f to 24f 3.0mm Micro Internal OFNR or OFNP Cable

LinkPro CABLE CONSTRUCTIONS

Description

The cable uses 250μm OM1, OM2, OM3, OM4, OM5 multimode or ITU-T G.652.D, ITU-T G.657.A1 and ITU-T G.657.A2 single mode Optical fibers as optical transmission medium, covered with aramid yarns strength member in a Riser or Plenum Jacket.



Structure Diagram

Features

- High-integrated colored bare fiber design
- Aramid yarns providing excellent tensile performance
- Anti-corrosion, flame-retardant and environment-friendly

Applications

- Ideal for internal inter-connect using MPO or MTP connectivity
- Specialist cable for high density connectivity including data centers
- Interconnection between instruments and communication equipment

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

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
13	14	15	16	17	18	19	20	21	22	23	24
Blue+b	Orange+b	Green+b	Brown+b	Gray+b	White+b	Red+b	Black+b	Yellow+b	Purple+b	Pink+b	Aqua+b

Note: +b =Fiber with a black band ring mark

Constructions and Technical Parameters

Items		Descriptions
Fiber counts		2~24
Outer sheath	Material	PVC
	Color	TBD
	Strength member	Aramid yarns
	Diameter(mm) approx.	3.0 ± 0.1
Minimum bending radius	Static	10×Cable diameter
	Dynamic	20×Cable diameter
Plywood drum Dimensions(mm) approx.(Flange, Barrel, Width)		F400, B200, W330
Cable weight(kg/km) approx.		7.2

Mechanical and Environmental Characteristics

Items	Descriptions		Test Method	Requirements
Tensile performance	Short-term	220N	IEC 60794-1-21 Method E1	IEC 60794-2-20
	Long-term	66N		
Crush resistance	Short-term	350N/10cm	IEC 60794-1-21 Method E3	IEC 60794-2-20
Temperature range(OFNR)	-20 °C to +70 °C		IEC 60794-1-22 Method F1	IEC 60794-2-20
Temperature range(OFNP)	0 °C to +70 °C			
Other parameters: according to IEC 60794-2-20 and IEC 60794-1-21				

Environmental Temperature

Items	OFNR	OFNP
Installation temperature	-10 °C to +60 °C	0 °C to +60 °C
Operation temperature	-20 °C to +70 °C	0 °C to +70 °C
Storage temperature	-40 °C to +70 °C	-40 °C to +70 °C

Fire Performance

Fire Test Description	Fire Test Specification	Requirement
NFPA 262 Plenum Flame Test	OFNP	PASS
UL 1666 Riser Flame Test	OFNR	PASS

Identification

Unless otherwise specified, the cable sheath marking shall be as follows:

OPTICAL CABLE D/125 AAA ##F OFN* E516857(UL) YYWWD xxxxM *****

- 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
- ##F: is the optical fiber count 2, 4, 8, 12, 16, or 24
- OFN*: is the Flame Rated OFNR or OFNP
- E516857(UL): Aachen UL Authentication No.
- YYWWD: Year + Week + Day
- xxxxM: Sequential meter marking, Interval: 1m
- *****: Cable Reel No., Per Manufacturer or owner

Jacket Color(Pantone Color)

Blue	Orange	Green	Brown	Gray	White	Red	Black
PT 2945C	PT 1645C	PT 347C	PT 478C	PT 430C	RAL 9003	PT 201C	RAL 9005
Yellow	Purple	Pink	Aqua	Light Green	Lime Green	Erika Violet	
PT 116C	PT 268C	PT 183C	PT 325C	PT 363C	PT 374C	RAL 4003	

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
3	2025.02.27	Update template

Rev.	Draft	Date	Check	Date	Approved	Date
3	Tina	2025.02.27	Jasson	2025.02.27	Leo	2025.02.27