

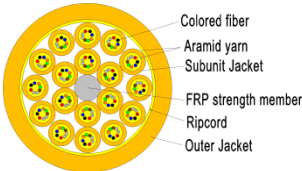
144F 12.7mm Micro (Multi-unit with 2.0mm Subunit)

Internal OFNP Cable--LinkPro CABLE CONSTRUCTIONS

Description

144F fiber 250μm internal cable with aramid strength members, FRP and PVC Jacket.

144 fiber OM1, OM2, OM3, OM4 multimode or ITU-T G.652.D, ITU-T G.657A1, ITU-T G.657A2 single mode fibers in 18 x 8 fiber subunits with aramid strength members and a 2.0mm PVC Plenum Jacket. The individually numbered subunits are stranded around a FRP rod (option to be Jacketed) central strength member with aramid yarn, ripcord and final PVC Plenum 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-friendly

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

Fiber Identification (IEC TR 63194)

1	2	3	4	5	6	7	8
Blue	Orange	Green	Brown	Gray	White	Red	Black

Constructions and Technical Parameters

Items		Descriptions
Fiber counts		144(18EL*8F)
Inner sheath	Material	PVC Plenum
	Color	TBD
	Strength member	Aramid yarns
	Diameter(mm) approx.	2.0 ± 0.1
Central strength member		FRP
Strength member		Aramid yarns
Ripcord		1
Outer sheath	Material	PVC Plenum
	Color	TBD
Minimum bending radius	Static	10×Cable diameter
	Dynamic	20×Cable diameter
Cable diameter(mm)		12.7 ± 0.8
Cable weight(kg/km) approx.		140
Packaging		Plywood drum

Mechanical and Environmental Characteristics

Items	Descriptions		Test Method	Requirements
Tensile performance	Short-term	1320N	IEC 60794-1-21 Method E1	IEC 60794-2-20
	Long-term	400N		
Crush resistance	Short-term	1000N/10cm	IEC 60794-1-21 Method E3	IEC 60794-2-20
	Long-term	300N/10cm		
Temperature range	0 °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				

Environmental Temperature

Items	Value
Installation temperature	0 °C to +60 °C
Operation temperature	0 °C to +70 °C
Storage temperature	-40 °C to +70 °C

Fire Performance

Fire Test Description	Fire Test Specification	Requirement
NFPA 262 Plenum Flame Test	OFNP	PASS (ETL)

Identification

Unless otherwise specified, the cable sheath marking shall be as follows:
OPTICAL CABLE D/125 AAA 144F OFNP c(ETL)us 5031487 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
- c(ETL)us 5031487: Aachen ETL Control number
- 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 2 km/drum. Other lengths available upon agreement.

Chemical Characteristics

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

Revision History

Revision	Date	Changes
3	2025.04.15	Update template and cable marking

Rev.	Draft	Date	Check	Date	Approved	Date
3	Tina	2025.04.15	Jasson	2025.04.15	Leo	2025.04.15