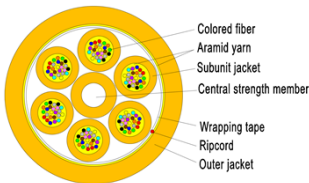


144F 11.5mm Micro(Multi-unit with 3.0mm Sub-unit)  
OFNP Cable--LinkPro CABLE CONSTRUCTIONS

Description

144 fiber 250μm internal cable with aramid strength members, FRP and PVC Plenum 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 6 x 24 fiber subunits with aramid strength members and a 3.0mm PVC Plenum Jacket. The individually numbered subunits are stranded around a FRP rod (option to be Jacketed) central strength member with wrapping tape, 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-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                    |

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 | Natural+b | Yellow+b | Purple+b | Pink+b | Aqua+b |

Note: +b = Colored fiber with a black band ring mark

Constructions and Technical Parameters

| Items                       |                      | Descriptions                            |
|-----------------------------|----------------------|-----------------------------------------|
| Fiber counts                |                      | 144                                     |
| Inner sheath                | Material             | PVC Plenum                              |
|                             | Color                | TBD                                     |
|                             | Strength member      | Aramid yarn                             |
|                             | Diameter(mm) approx. | 2.95 ± 0.1                              |
| Central strength member     |                      | FRP+Jacket                              |
| Wrapping tape               |                      | Non-woven                               |
| Strength member             |                      | Aramid yarn                             |
| Ripcord                     |                      | 1                                       |
| Outer sheath                | Material             | PVC Plenum                              |
|                             | Color                | TBD                                     |
| Minimum bending radius      | Static               | 10×Cable diameter                       |
|                             | Dynamic              | 20×Cable diameter                       |
| Cable diameter(mm)          |                      | 11.5 ± 0.8                              |
| Cable weight(kg/km) approx. |                      | 110                                     |
| Plywood drum dimensions(mm) |                      | F950, B400, W760(Flange, Barrel, Width) |

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      | 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                    | OFNP             |
|--------------------------|------------------|
| 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 \*\*\*\*\***

- 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

| 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         |
|----------|------------|-----------------|
| 1        | 2025.07.15 | Initial release |
|          |            |                 |

| Rev. | Draft | Date       | Check  | Date       | Approved | Date       |
|------|-------|------------|--------|------------|----------|------------|
| 1    | Tina  | 2025.07.15 | Jasson | 2025.07.15 | Leo      | 2025.07.15 |