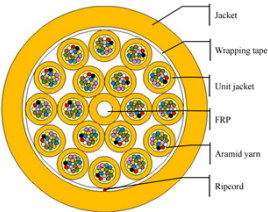


# 288F 14.8mm Micro (Multi-unit with 2.4mm Subunit) Internal LSZH Cable--LinkPro CABLE CONSTRUCTIONS

## Description

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

288 fiber OM1, OM2, OM3, OM4 multimode or ITU-T G.652.D, ITU-T G.657A1, ITU-T G.657A2 single mode fibers in up to 18 x 16 fiber subunits with aramid strength members and a 2.4 mm LSZH Jacket. The individually numbered subunits are stranded around a FRP rod central strength member with wrapping tape, ripcord and final 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                    |

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    |      |       |     |       |        |        |      |      |
| Olive | Magenta | Tan   | Lime  |      |       |     |       |        |        |      |      |

Constructions and Technical Parameters

| Items                       |                      | Descriptions                            |
|-----------------------------|----------------------|-----------------------------------------|
| Fiber counts                |                      | 288 (16F * 18EL)                        |
| Sub-unit                    | Material             | LSZH                                    |
|                             | Color                | TBD                                     |
|                             | Strength member      | Aramid yarns                            |
|                             | Diameter(mm) approx. | 2.40 +0.02/-0.10                        |
| 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)          |                      | 14.8 ± 0.8                              |
| Cable weight(kg/km) approx. |                      | TBD                                     |
| Plywood drum dimensions(mm) |                      | F950, B500, W760(Flange, Barrel, Width) |

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                                                | -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 |                  |            |                          |                |

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                       |
|----------------------------|-------------------------|-----------------------------------|
| Smoke emission             | IEC 61034-1 & 2         | 60% transmittance                 |
| Vertical Flame Propagation | IEC 60332-1-2           | PASS                              |
| Toxicity (Halogen free)    | IEC 60754-1             | PASS                              |
| Acid gas emission          | IEC 60754-2             | Conductivity<10us/mm and pH > 4,3 |

Identification

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

**OPTICAL CABLE D/125 AAA 288F LSZH 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             |
|----------|------------|---------------------|
| 3        | 2025.04.01 | Update template     |
| 4        | 2025.08.13 | Update section view |

| Rev. | Draft | Date       | Check  | Date       | Approved | Date       |
|------|-------|------------|--------|------------|----------|------------|
| 4    | Tina  | 2025.08.13 | Jasson | 2025.08.13 | Leo      | 2025.08.13 |