

F10-G12A-LN

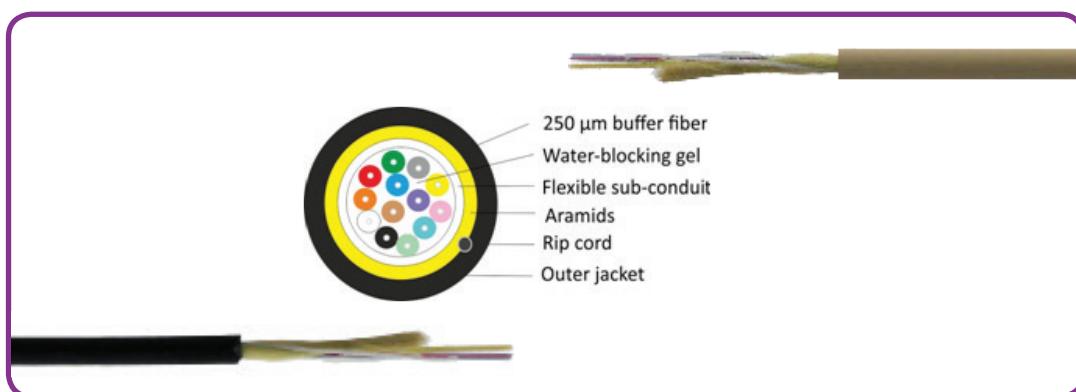
F10-G12A-LM

Fiber cables SM flexible mono tube flexible without gel.

The fibers are protected by a grease easy to remove before fusing. The inner subduct is very flexible to facilitate handling.

This subduct can be removed without tools. The exterior jacket LSZH-FR-UV, allow outdoor installation, and installation in public concurrence centers.

## Cable 12fo SM 250u" G657A2 flex. distribution/riser LSZH-FR



### Technical specifications

| References                 |                   |      | F10-G12TA-LN                                                                               | F10-G12TA-LM |
|----------------------------|-------------------|------|--------------------------------------------------------------------------------------------|--------------|
| Number of fibers           |                   |      | 12                                                                                         |              |
| Diameter core and cladding |                   | μm   | 9 / 125                                                                                    |              |
| Fibers                     | Diameter          | μm   | 250                                                                                        |              |
|                            | Colors            |      | Green ,red, blue, white, grey, violet, brown, orange, yellow, pink, turquoise, light green |              |
| Rip cord                   | Material          |      | Polyester yarns                                                                            |              |
| Strenght member            | Quantity          | dtex | 6x1500                                                                                     |              |
|                            | Material          |      | Aramids                                                                                    |              |
| Subconduit                 | Diameter          | mm   | 1,6 ±0,1                                                                                   |              |
|                            | Material          |      | LSZH-FR                                                                                    |              |
|                            | Color             |      | Red                                                                                        |              |
|                            | Waterblocking gel |      | Silicone based low temperature application                                                 |              |
| Outer jacket               | Outer diameter    | mm   | 3,5 ±0,1                                                                                   |              |
|                            | Thickness         | mm   | 0,8±0,02                                                                                   |              |
|                            | Material          |      | LSZH-FR-UV                                                                                 |              |
|                            | Color             |      | Black                                                                                      | Ivory        |

| Fiber type | Singlemode G657A2 | ITU-T G657 A2 |
|------------|-------------------|---------------|
|------------|-------------------|---------------|

| Parameter                                     |                               | Value |                        | Method        |
|-----------------------------------------------|-------------------------------|-------|------------------------|---------------|
| Mode field diameter                           | 1310nm                        | μm    | 8.8 ± 0.4              | IEC60793-1-45 |
|                                               | 1550nm                        | μm    | 9.8 ± 0.5              | IEC60793-1-45 |
| Cladding diameter                             |                               | μm    | 124.8 ± 0.7            | IEC60793-1-20 |
| No circularity of cladding                    |                               | %     | ≤ 0.7                  | IEC60793-1-20 |
| Cladding concentricity error                  |                               | μm    | ≤ 0.5                  | IEC60793-1-20 |
| Diameter over primary protection              |                               | μm    | 245 ± 5                | IEC60793-1-21 |
| No circularity of the primary protection      |                               | %     | ≤ 6.0                  | IEC60793-1-21 |
| Concentricity error of the primary protection |                               | μm    | ≤ 12                   | IEC60793-1-21 |
| Cutoff wavelength                             |                               | nm    | λ <sub>cc</sub> ≤ 1260 | IEC60793-1-44 |
| Atenuation (max)                              | 1310nm                        | dB/km | ≤ 0.4                  | IEC60793-1-40 |
|                                               | 1550nm                        | dB/km | ≤ 0.3                  | IEC60793-1-40 |
| Loss curvature radius                         | 1 lap x radius 7,5mm @ 1550nm | dB    | ≤ 0.5                  | IEC60793-1-47 |
|                                               | 1 lap x radius 7,5mm @ 1625nm | dB    | ≤ 1.0                  | IEC60793-1-47 |

F10-G12A-LN

F10-G12A-LM

| Mechanical and environmental Specifications | Parameter                                  | Value  |          | Method            |
|---------------------------------------------|--------------------------------------------|--------|----------|-------------------|
|                                             | Traction (static)                          | N      | 100      | IEC60794-1-2 E1   |
|                                             | Traction (dynamic-installation)            | N      | 300      | IEC60794-1-2 E1   |
|                                             | Crushing strength (static)                 | N/10cm | 100      | IEC60794-1-2 E3   |
|                                             | Crushing strength (dynamic-installation)   | N/10cm | 500      | IEC60794-1-2 E3   |
|                                             | Minimum bend radius (static)               | mm     | 10 x Ø   | IEC60794-1-2 E6   |
|                                             | Minimum bend radius (dynamic-installation) | mm     | 30 x Ø   | IEC60794-1-2 E6   |
|                                             | Flame propagation                          | ✓      |          | IEC60332-1-2      |
|                                             | Low smoke   LS                             | ✓      |          | IEC61034-2        |
|                                             | Low zero halogen   ZH                      | ✓      |          | IEC60754          |
|                                             | UV Protection                              | ✓      |          | IEC60794-1-22 F14 |
|                                             | Installation temperature range             | ° C    | -20 ~ 60 |                   |
|                                             | Operating temperature range                | ° C    | -40 ~ 70 |                   |
|                                             | Storage temperature range                  | ° C    | -40 ~ 70 |                   |

| References | F10-G12TA-LN | F10-G12TA-LN |
|------------|--------------|--------------|
| Packing    | Reel 2.000 m |              |
| Weight     | kg           |              |

## Standards and certificates

ITU-T·G·657 A2  
IEC-60794  
IEC 60793  
IEC61034  
IEC60754  
IEC60332-1

**RoHS**  
Compliant

Edition: 3 / February 2017

Features and specifications subject to change without notice.