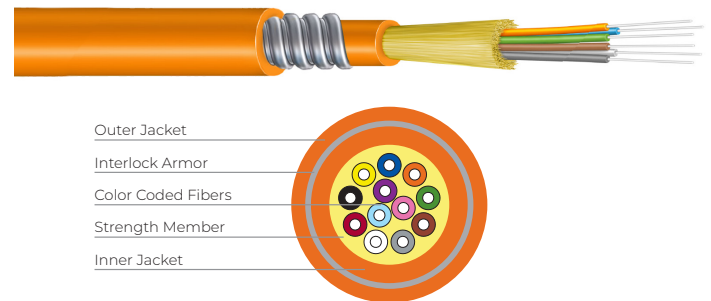
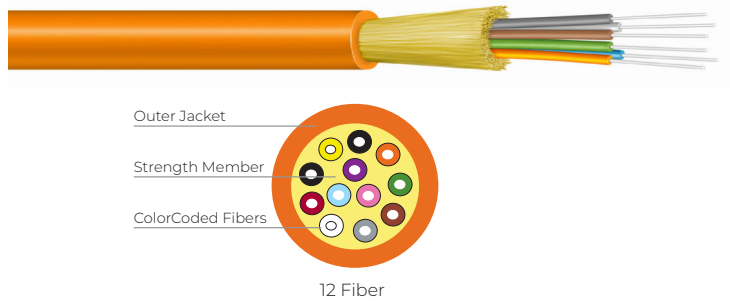


# GenSPEED® Distribution Tight Buffered LSZH | Low Emission

Low-smoke zero-halogen cables, IEC verified for flame and smoke – OFNR FT4 Rated



## OVERVIEW

Prysmian's Low Smoke Zero Halogen (LSZH) cables are intended for use in demanding environments that require cables to meet high fire safety standards. May be deployed in a variety of applications which may include riser, ducts or cable trays.

## SPECIFICATIONS / RATINGS

|                            |                                                                                                                                                                                                                                                    |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>        | Versatile indoor cable, low emission fire protection in crowded spaces.                                                                                                                                                                            |
| <b>Construction</b>        | Distribution (900µm)/Breakout (2.5mm)                                                                                                                                                                                                              |
| <b>Fiber Count</b>         | 2 to 144 (Distribution)                                                                                                                                                                                                                            |
| <b>Fiber Types</b>         | Single-mode fibers, Multimode fibers (62.5/125-OM2, 50/125-OM2, OM3 and OM4)                                                                                                                                                                       |
| <b>Options</b>             | Interlock armor / preconnectorized                                                                                                                                                                                                                 |
| <b>Standards</b>           | TIA / EIA-568C.3, ANSI / ICEA S-83-596, Telecordia GR-409, CE RoHS Compliant<br><br>Meets the following IEC specifications<br>- IEC 60332-3-24 Category C<br>- IEC 60332-1-2<br>- IEC 60332-2-2<br>- IEC 61034-2<br>- IEC 60754-1<br>- IEC 60754-2 |
| <b>Registered Supplier</b> | ISO 9001, ISO 14001, TL 9000, and OHSAS 18001                                                                                                                                                                                                      |



## FEATURES AND BENEFITS

### Easy Cable Installation and Termination

- 900µm tight buffered fibers can be directly terminated
- Color-coded fibers & numbered sub-units simplify identification
- Colored rip cords for ease of identification and jacket removal
- Interlock armor option available

### Safety Ratings

- Riser rated design complies with UL1666 & UL1685/IEEE1202; OFNR-LS and OFNG-FT4 ST1 rated (2 to 48f); OFNR and OFNG-FT4 (72 TO 144f)

### Reliable Performance

- Guaranteed 10 Gigabit & 1 Gigabit Ethernet transmission lengths
- Guaranteed standards-based performance
- Available in 62.5µm, 50µm, single-mode and hybrid version

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## GenSPEED Distribution | LSZH Indoor | 600 Series | OFNR, FT-4, LSZH Rated

| Fiber Count Range | Recommended Fiber Count | Recommended Part Number |                 | Number of Buffer Tubes | Diameter |      | Cable Weight |       | Bend Radius UNDER LOAD |      | Bend Radius NO LOAD |      | Max Installation LOAD (pull strength) |         | Max Operation LOAD |         |
|-------------------|-------------------------|-------------------------|-----------------|------------------------|----------|------|--------------|-------|------------------------|------|---------------------|------|---------------------------------------|---------|--------------------|---------|
|                   |                         | Prysmian*               | General Cable** |                        | inches   | mm   | lb/kft       | kg/km | inches                 | cm   | inches              | cm   | lbs                                   | newtons | lbs                | newtons |
| 2                 | 2                       | 600-00-AA-002-BB        | XX002IPNZ       | single-unit            | 0.20     | 5.0  | 15           | 26    | 4.0                    | 10.0 | 2.0                 | 5.0  | 150                                   | 660     | 45                 | 200     |
| 4                 | 4                       | 600-00-AA-004-BB        | XX004IPNZ       | single-unit            | 0.21     | 5.2  | 21           | 29    | 4.2                    | 10.4 | 2.1                 | 5.2  | 150                                   | 660     | 45                 | 200     |
| 6-8               | 6                       | 600-00-AA-006-BB        | XX006IPNZ       | single-unit            | 0.21     | 5.2  | 24           | 31    | 4.2                    | 10.4 | 2.1                 | 5.2  | 150                                   | 660     | 45                 | 200     |
| 10-12             | 12                      | 600-00-AA-012-BB        | XX012IPNZ       | single-unit            | 0.24     | 6.1  | 31           | 34    | 4.8                    | 12.2 | 2.4                 | 6.1  | 150                                   | 660     | 45                 | 200     |
| 18-24             | 24                      | 600-00-AA-024-BB        | XX024IPNZ       | single-unit            | 0.32     | 8.1  | 45           | 67    | 6.4                    | 16.2 | 3.2                 | 8.1  | 300                                   | 1320    | 90                 | 396     |
| 36-48             | 48                      | 600-12-AA-048-BB        | XX048IPIZ       | 4                      | 0.70     | 17.8 | 184          | 274   | 14.0                   | 35.6 | 7.0                 | 17.8 | 300                                   | 1320    | 90                 | 396     |
| 72                | 72                      | 600-12-AA-072-BB        | XX072IPIZ       | 6                      | 0.87     | 22.1 | 295          | 440   | 17.4                   | 44.2 | 8.8                 | 22.1 | 300                                   | 1320    | 90                 | 396     |
| 96                | 96                      | 600-12-AA-096-BB        | XX096IPIZ       | 8                      | 0.92     | 23.1 | 346          | 516   | 18.4                   | 46.2 | 9.2                 | 23.1 | 300                                   | 1320    | 90                 | 396     |
| 108-144           | 144                     | 600-12-AA-144-BB        | XX144IPIZ       | 12                     | 1.13     | 28.6 | 362          | 540   | 22.6                   | 57.2 | 11.3                | 28.6 | 300                                   | 1320    | 90                 | 396     |

## GenSPEED Distribution | LSZH Indoor Aluminum Interlock | 600AJ Series | OFCR, FT-4, LSZH Rated

| Fiber Count Range | Recommended Fiber Count | Recommended Part Number |                 | Number of Buffer Tubes | Diameter |       | Cable Weight |       | Bend Radius UNDER LOAD |      | Bend Radius NO LOAD |      | Max Installation LOAD (pull strength) |         | Max Operation LOAD |         |
|-------------------|-------------------------|-------------------------|-----------------|------------------------|----------|-------|--------------|-------|------------------------|------|---------------------|------|---------------------------------------|---------|--------------------|---------|
|                   |                         | Prysmian*               | General Cable** |                        | inches   | mm    | lb/kft       | kg/km | inches                 | cm   | inches              | cm   | lbs                                   | newtons | lbs                | newtons |
| 2                 | 2                       | 600AJ-00-AA-002-BB      | —               | single-unit            | 0.510    | 12.95 | 94           | 139   | 10.2                   | 25.9 | 5.1                 | 13.0 | 150                                   | 660     | 45                 | 200     |
| 4-6               | 6                       | 600AJ-00-AA-006-BB      | —               | single-unit            | 0.520    | 13.21 | 99           | 148   | 10.4                   | 26.4 | 5.2                 | 13.2 | 150                                   | 660     | 45                 | 200     |
| 8                 | 8                       | 600AJ-00-AA-008-BB      | —               | single-unit            | 0.545    | 13.84 | 107          | 159   | 10.9                   | 27.7 | 5.5                 | 13.8 | 150                                   | 660     | 45                 | 200     |
| 10-12             | 12                      | 600AJ-00-AA-012-BB      | —               | single-unit            | 0.550    | 13.97 | 112          | 166   | 11                     | 27.9 | 5.5                 | 14.0 | 150                                   | 660     | 45                 | 200     |
| 18-24             | 24                      | 600AJ-00-AA-024-BB      | —               | single-unit            | 0.630    | 16.00 | 153          | 228   | 12.6                   | 32.0 | 6.3                 | 16.0 | 300                                   | 1320    | 90                 | 396     |
| 36-48             | 48                      | 600AJ-12-AA-048-BB      | —               | 4                      | 1.030    | 26.16 | 433          | 644   | 20.6                   | 52.3 | 10.3                | 26.2 | 300                                   | 1320    | 90                 | 396     |
| 72                | 72                      | 600AJ-12-AA-072-BB      | —               | 6                      | 1.200    | 30.48 | 598          | 890   | 24                     | 61.0 | 12.0                | 30.5 | 300                                   | 1320    | 90                 | 396     |
| 96                | 96                      | 600AJ-12-AA-096-BB      | —               | 8                      | 1.240    | 31.50 | 663          | 986   | 24.8                   | 63.0 | 12.4                | 31.5 | 300                                   | 1320    | 90                 | 396     |
| 108-144           | 144                     | 600AJ-12-AA-144-BB      | —               | 12                     | 1.460    | 37.08 | 748          | 1113  | 29.2                   | 74.2 | 14.6                | 37.1 | 300                                   | 1320    | 90                 | 396     |

\*Where AA equals glass type and BB equals attenuation code

\*\*Where XX equals glass type

Note: Cable damage may occur if installation temperature limits are exceeded; therefore, Prysmian Group recommends storing I/O cables in appropriate temperature conditions ≥ 24 hours prior to placement.

### Outer Jacket Colors

**Orange:** Multimode fiber (OM1, OM2)  
**Aqua:** 10 GbE multimode fiber (OM3, OM4)  
**Yellow:** Single-mode fiber  
**Lime Green:** Multimode fiber (OM5)  
**Black:** Hybrid fiber types

### Temperature Range

**Shipping and Storage:** -40° F to +158° F (-40° C to +70° C)  
**Installation:** 14° F to +140° F (-10° C to +60° C)  
**Operation:** -40° F to +176° F (-40° C to +80° C)



**Prysmian**

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## Ordering Guide

The Prysmian part number incorporates several significant attributes involving cable design and optical performance. The appropriate part number can be configured using the process described below

**Example:** GenSPEED Distribution | 600 series indoor LSZH riser (OFNR FT4), 72 multimode 62.5/125 fibers (printed in feet)

| 1 LENGTH MARKINGS | 2 PRODUCT FAMILY | 3 CONSTRUCTION | 4 FIBER GROUPING | 5 FIBER TYPE | 6 FIBER COUNT | 7 FIBER GRADE |
|-------------------|------------------|----------------|------------------|--------------|---------------|---------------|
| F                 | 600              | BLANK          | 12               | G6           | 072           | M2            |

| PART NUMBER CONSTRUCTION                                                     |                 |
|------------------------------------------------------------------------------|-----------------|
| 1                                                                            | LENGTH MARKINGS |
| F = Feet or M = Meters                                                       |                 |
| 2                                                                            | PRODUCT FAMILY  |
| 600 = GenSPEED Distribution Riser LSZH   Tight Buffer Flame Rating: OFNR FT4 |                 |
| 3                                                                            | CONSTRUCTION    |
| (BLANK) = None                                                               |                 |
| AJ = Jacketed aluminum OFCR FT4                                              |                 |
| SJ = Jacketed steel OFCR FT4                                                 |                 |
| 4                                                                            | FIBER GROUPING  |
| 00 = Single unit                                                             |                 |
| 12 = 12f per tube                                                            |                 |

Note: Please refer to the Fiber Code Addendum for additional fiber options, or contact us for help.

| FIBER INFORMATION                                                 |                 |                 |                              |                 |
|-------------------------------------------------------------------|-----------------|-----------------|------------------------------|-----------------|
| 5                                                                 | FIBER TYPE      |                 |                              |                 |
| SINGLE-MODE                                                       |                 |                 |                              |                 |
| HB = Single-Mode (ITU G.652 C & D) Low Water Peak                 |                 |                 |                              |                 |
| B1 = Bend-Insensitive Single-Mode (ITU G.657.A1 & G.652.D)        |                 |                 |                              |                 |
| B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 & .B2, & G.652.D) |                 |                 |                              |                 |
| MULTIMODE                                                         | Wavelength (nm) | Bandwidth (MHz) | 1 GbE Dist (m)               | 10 GbE Dist (m) |
| G6 = OM1 (62.5µm)                                                 | 850/1300        | 200/500         | 300/550                      | 33/___          |
| G5 = OM2+ BIF (50µm)                                              | 850/1300        | 700/500         | 800                          | 150/___         |
| G3 = OM3 BIF (50µm)                                               | 850/1300        | 1500/500        | 1000                         | 300/___         |
| G4 = OM4 BIF (50µm)                                               | 850/1300        | 3500/500        | 1100                         | 550/___         |
| GW = OM5 (50µM)                                                   | 850/1300        | 3500/500        | 1100                         | 550/___         |
| 6                                                                 | FIBER COUNT     |                 |                              |                 |
| 2 to 144 fibers                                                   |                 |                 |                              |                 |
| 7                                                                 | FIBER GRADE     |                 |                              |                 |
| SINGLE-MODE                                                       |                 |                 |                              |                 |
| Attenuation (dB/km)                                               |                 | Wavelength (nm) | Fiber Type                   |                 |
| EB = 0.7/0.7/0.7                                                  |                 | 1310/1383/1550  | Single-Mode                  |                 |
| EA = 0.5/0.5/0.5                                                  |                 | 1310/1383/1550  | Bend Insensitive Single-Mode |                 |
| E7 = 0.4/0.4/0.3                                                  |                 | 1310/1383/1550  | Bend Insensitive Single-Mode |                 |
| MULTIMODE                                                         |                 |                 |                              |                 |
| Attenuation (dB/km)                                               |                 | Wavelength (nm) |                              |                 |
| M2 = 3.5/1.0                                                      |                 | 850/1300        | OM1 (62.5µm)                 |                 |
| M3 = 3.0/1.0                                                      |                 | 850/1300        | OM2+, OM3, OM4 (50µm)        |                 |

Other cable constructions and fiber performance grades available on request.