

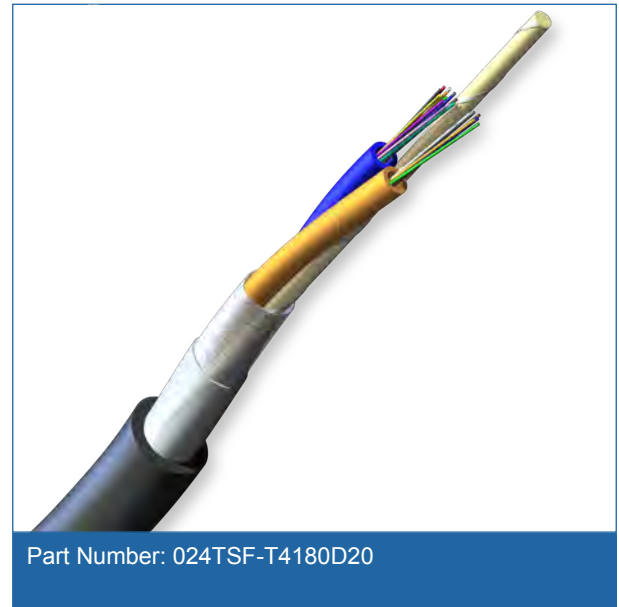
FREEDM® LST™ Loose-Tube, Gel-Free Cable, Riser

24 F, 50 µm multimode (OM3)

CORNING

Corning Cable Systems FREEDM® LST™ Gel-Free Cables are flame-retardant, indoor/outdoor, riser-rated cables designed for interbuilding and intrabuilding backbones in aerial, duct and riser applications. With a riser rating, there is no need for a transition splice when entering the building. Available in a compact design, these cables are protected against water penetration by innovative waterblocking tapes and yarns that swell to absorb water. Waterblocking without the use of messy gels provides more efficient and craft-friendly cable preparation, allows easier cable access and simplifies the use of buffer tube fan-out kits. The buffer tubes and fibers in each tube are color-coded for quick, easy identification.

This cable is available in 12 different jacket colors - blue, orange, green, brown, slate, white, red, black, yellow, purple, rose and aqua. The colored jacket allows for easy visual identification of the cables while still providing all of the required environmental protection of an indoor/outdoor cable jacket. Black is the standard jacket color using the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.



Features and Benefits

Riser rating

No transition splices when entering buildings

Gel-free waterblocking technology

Craft-friendly cable preparation

Color-coded fibers

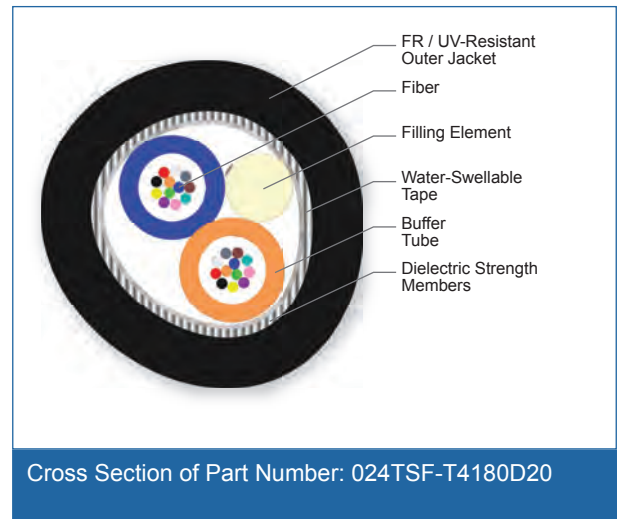
Quick and easy identification

All-dielectric construction

Requires no grounding or bonding

UV-resistant, flame-retardant jacket

Rugged, durable and easy to strip



Standards

Approval and Listings

National Electrical Code®
(NEC®) OFNR, CSA OFN
FT-4

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Common Installations Outdoor lashed aerial and duct; indoor vertical riser and general purpose horizontal according to National Electrical Code[®] (NEC) Article 770

Design and Test Criteria ANSI/ICEA S-104-696

Specifications

| General Specifications | |
|------------------------|---|
| Environment | Indoor/Outdoor Cables |
| Application | Aerial, Direct Buried, Duct, General Purpose Horizontal, (Vertical Riser) |
| Cable Type | Loose Tube |
| Product Type | Dielectric |
| Flame Rating | Riser (OFNR) |
| Fiber Category | 50 µm MM (OM3) |

| Temperature Range | |
|-------------------|------------------------------------|
| Storage | -40 °C to 70 °C (-40 °F to 158 °F) |
| Installation | -10 °C to 60 °C (14 °F to 140 °F) |
| Operation | -40 °C to 70 °C (-40 °F to 158 °F) |

| Cable Design | |
|---|--|
| Fiber Count | 24 |
| Fiber Coloring | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua |
| Fibers per Tube | 12, 12 |
| Number of Tube Positions | 2 |
| Number of Active Tubes | 2 |
| Buffer Tube Color Coding | Blue, Orange |
| Tensile Strength Elements and/or Armoring - Layer 1 | Dielectric strength members |
| Tape | Water-swellable |
| Tensile Strength Elements and/or Armoring - Layer 2 | Dielectric strength members |
| Number of Ripcords | 1 |

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Cable Design

| | |
|-----------------------|-------------------------------|
| Outer Jacket Material | Flame-Retardant, UV-Resistant |
| Outer Jacket Color | Black |

Mechanical Characteristics Cable

| | |
|------------------------------------|--------------------------|
| Weight | 78 kg/km (53 lb/1000 ft) |
| Nominal Outer Diameter | 9.7 mm (0.38 in) |
| Max. Tensile Strengths, Short-Term | 2700 N (600 lbf) |
| Max. Tensile Strengths, Long-Term | 810 N (180 lbf) |
| Min. Bend Radius Installation | 146 mm (5.7 in) |
| Min. Bend Radius Operation | 97 mm (3.8 in) |

Chemical Characteristics

| | |
|------|---|
| RoHS | Free of hazardous substances according to RoHS 2002/95/EG |
|------|---|

Fiber Specifications

Optical Characteristics (cabled)

| | |
|---|--------------------------|
| Fiber Type | Multimode |
| Fiber Core Diameter | 50 µm |
| Fiber Category | OM3 |
| Fiber Code | T |
| Performance Option Code | 80 |
| Wavelengths | 850 nm / 1300 nm |
| Maximum Attenuation | 3.0 dB/km / 1.0 dB/km |
| Min. Overfilled Launch (OFL) Bandwidth | 1500 MHz*km / 500 MHz*km |
| Minimum Effective Modal Bandwidth (EMB) | 2000 MHz*km / - |
| Serial 1 Gigabit Ethernet | 1000 m / 600 m |
| Serial 10 Gigabit Ethernet | 300 m / - |

* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play[™]/Pretium EDGE[®] Systems Solutions.

- Notes:
- 1) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.
 - 2) Improved attenuation and bandwidth options available.
 - 3) Bend-insensitive single-mode fibers available on request.
 - 4) Contact a Corning Cable Systems Customer Care Representative for additional information.

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Ordering Information

| | |
|---------------------|--|
| Part Number | 024TSF-T4180D20 |
| Product Description | FREEDM [®] LST [™] Loose Tube, Gel-Free Cable, Riser, 24 F, 50 μ m multimode (OM3) |



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