



A Furukawa Company

InvisiLight® Optical Solutions

Supporting Multiple Dwelling Unit (MDU) and Indoor Living Unit (ILU) Applications



Features

- EZ-Bend® G.657.B3 Fiber with 2.5 mm bend radius
- Complete installation kit
- Adhesive and Application Tool

Benefits

- Corner and décor friendly
- Simple and easy installation with minimal tools
- Fast, repeatable process

Product Description

OFS InvisiLight® Optical Solutions offer a revolutionary system that enables fast, easy and virtually invisible optical fiber installations for indoor living units (ILUs) and multiple dwelling units (MDUs). The InvisiLight ILU Solution consists of a single optical fiber for fiber-in-the-home (FITH) installations, whereas the InvisiLight MDU Solution consists of a 12-fiber unit for building hallways.

These InvisiLight Optical Solutions eliminate the need for large-form-factor optical fiber cables, unsightly staples, wire molding or unreliable tapes. They also make installation safer by not requiring installers to enter attics or other hard-to-access areas. The installer also uses a safe, simple and innovative process to adhere the optical fiber, resulting in a protected link that blends seamlessly into the residential or building décor.

Please refer to the InvisiLight Optical Solutions brochure that describes the solutions in greater detail.



InvisiLight ILU Solution
installed in a residence



InvisiLight MDU Solution
installed in a building hallway



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InvisiLight® ILU Solution - Indoor Living Units

Product Overview

- Plug and Play
 - Factory terminated
 - Auto-slack storage on spool in module
- EZ-Bend® 900 µm buffered fiber compliant with G.657.B3
Fully splice compatible with outstanding macrobending performance (1 turn at 1550 nm):
 - < 0.1 dB loss at 5 mm bend radius
 - < 0.2 dB loss at 2.5 mm bend radius
- Capable of supporting a maximum of 30 outside and 30 inside corners



TAKE A CLOSER LOOK

Almost invisible to the human eye

Standards and Testing

- Meets Telcordia GR-326 simplex connector standard
- UL-1666 Riser Flame Test
- RoHS compliant; free from heavy metals and environmentally friendly. Nonhazardous to human touch and creates negligible waste
- Fully tested for compatibility with most wall and ceiling materials (contact OFS for a complete list)
Easily painted with both latex and oil-based paints

InvisiLight Adhesive

- Opaque color during application; turns clear after approximately 1 hour
- **Set Time:** 15 minutes
Tack-Free Time: 45 minutes
Full Cure Time: 24 hours depending on temperature, humidity, and thickness of adhesive
- Long term storage is best at room temperature. Keep the adhesive tubes from freezing and below +38 °C.
Operating Temperature (Cured): -40 °C to +60 °C
Installation Temperature: ≥ +10 °C

| Connector | Insertion Loss Max./Std. Deviation | Return Loss Max. | Operating Temperature Range (Inside) | Installation Temperature Range |
|-----------|---------------------------------------|------------------|---|-----------------------------------|
| LC UPC | 0.25/0.55 | -55 dB | -10 to +60 °C | > +10 °C |
| LC APC | 0.5/0.05 | -65 dB | -10 to +60 °C | > +10 °C |
| SC UPC | 0.3/0.05 | -55 dB | -10 to +60 °C | > +10 °C |
| SC APC | 0.5/0.05 | -65 dB | -10 to +60 °C | > +10 °C |

InvisiLight® ILU Solution Ordering Guide

The InvisiLight ILU Solution Kit includes: a module for storing the remaining fiber on the spool, connectorized InvisiLight spool, six (6) outside corner bend limiters, six (6) inside corner bend limiters, four (4) wall plugs and caps, two (2) through-wall tools and installation instructions. The spools contain varying lengths of connectorized fiber up to 40 meters. The adhesive, adhesive application tool and pole extension tool are sold separately.

| Ordering | Item | Description |
|--|-------------------------------------|---|
| InvisiLight ILU Solution Kits | | |
| 301083382 | NVSLGHTC-D-SCASCA-MODULE KIT-05M-EA | Connectorized 5-meter spool, six (6) inside and outside corner protectors, module e/w adapter, four (4) wall plugs and caps, one (1) through-wall tool and instructions |
| 301083390 | NVSLGHTC-D-SCASCA-MODULE KIT-10M-EA | Connectorized 10-meter spool, six (6) inside and outside corner protectors, module e/w adapter, four (4) wall plugs and caps, one (1) through-wall tool and instructions |
| 301099115 | NVSLGHTC-D-SCASCA-MODULE KIT-20M-EA | Connectorized 20-meter spool, six (6) inside and outside corner protectors, module e/w adapter, four (4) wall plugs and caps, one (1) through-wall tool and instructions |
| 301099123 | NVSLGHTC-D-SCASCA-MODULE KIT-30M-EA | Connectorized 30-meter spool, six (6) inside and outside corner protectors, module e/w adapter, four (4) wall plugs and caps, one (1) through-wall tool and instructions |
| 301099131 | NVSLGHTC-D-SCASCA-MODULE KIT-40M-EA | Connectorized 40-meter spool, six (6) inside and outside corner protectors, module e/w adapter, four (4) wall plugs and caps, one (1) through-wall tool and instructions |
| InvisiLight ILU 80x80 Solution Kits | | |
| 301122099 | NVSLGHTC-D-SCASCA-80x80 KIT-05M-EA | Connectorized 5-meter spool, six (06) inside and outside corner protectors, module e/w adapter, four (4) wall plugs and caps, one (1) through-wall tool and instructions |
| 301122107 | NVSLGHTC-D-SCASCA-80x80 KIT-10M-EA | Connectorized 10-meter spool, six (06) inside and outside corner protectors, module e/w adapter, four (4) wall plugs and caps, one (1) through-wall tool and instructions |
| 301117271 | NVSLGHTC-D-SCASCA-80x80 KIT-20M-EA | Connectorized 20-meter spool, six (06) inside and outside corner protectors, module e/w adapter, four (4) wall plugs and caps, one (1) through-wall tool and instructions |
| 301117289 | NVSLGHTC-D-SCASCA-80x80 KIT-30M-EA | Connectorized 30-meter spool, six (06) inside and outside corner protectors, module e/w adapter, four (4) wall plugs and caps, one (1) through-wall tool and instructions |
| 301117297 | NVSLGHTC-D-SCASCA-80x80 KIT-40M-EA | Connectorized 40-meter spool, six (06) inside and outside corner protectors, module e/w adapter, four (4) wall plugs and caps, one (1) through-wall tool and instructions |
| Adhesive | | |
| 301079117 | NVSLGHTC-TUBE, 30ML ADHESIVE 025/PK | 25-pack of adhesive (in tubes) and application tips |
| 301079125 | NVSLGHTC-TUBE, 30ML ADHESIVE 050/PK | 50-pack of adhesive (in tubes) and application tips |
| 301079133 | NVSLGHTC-TUBE, 30ML ADHESIVE 100/PK | 100-pack of adhesive (in tubes) and application tips |
| Tools | | |
| 301079109 | NVSLGHTC-MINI DISPENSING TOOL | Dispensing tool for adhesive application |
| 301079638 | NVSLGHTC-TOOL BELT KIT | Tool belt kit includes case, screwdrivers, drill bits, utility knife, visual fault locator and tape measure |
| 301115671 | NVSLGHTC-Pole Extension Tool | InvisiLight pole extension tool |



Through-Wall Tool and Package of Four (4) Wall Covers



80 x 80 Adapter Module or Living Unit Entry Point to connect the ILU to the outside optical fiber



Inside and Outside Corner Protectors (Package of 10 each)



Adhesive Dispensing Tool and Adhesive (in tube)



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InvisiLight® MDU Solution - Building Hallways

Product Overview

- Twelve (12) color-coded fibers, within a 2 mm outer diameter (OD) sheath
- EZ-Bend® Optical Fiber, compliant with G.657.B3. Fully splice compatible with outstanding macrobending performance (1 turn at 1550 nm):
 - < 0.1 dB loss at 5 mm bend radius
 - < 0.2 dB loss at 2.5 mm bend radius
- Capable of supporting a maximum of 40 outside corners with no limit on inside corners
- Field termination required at the living unit (field-installable connector or pigtail splice)
- Must be installed in riser-rated conduit in risers, in-between floors, through firewalls or when not adhered to a supporting surface



Standards and Testing

- Meets Telcordia GR-326 and GR-1435 standards
- Fiber and adhesive system is UL-1651 compliant
- The Invisilight Multifiber cord is OFNG-FT4 and OFNR-LS
- RoHS compliant; free from heavy metals and environmentally friendly; nonhazardous to human touch and creates negligible waste
- Fully tested for compatibility with most wall and ceiling materials; easily painted with both latex and oil-based paints

InvisiLight Adhesive

- Opaque color during application; turns clear after approximately 1 hour
- **Set Time:** 15 minutes
Tack-Free Time: 45 minutes
Full Cure Time: 24 hours depending on temperature, humidity, and thickness of adhesive
- Long term storage is best at room temperature. Keep the adhesive tubes from freezing and below +38 °C.
Operating Temperature (Cured): -40 °C to +60 °C
Installation Temperature: ≥ +10 °C

| Connector | Insertion Loss Max./Std. Deviation | Return Loss Max. | Operating Temperature Range (Inside) | Installation Temperature Range |
|-----------|------------------------------------|------------------|--------------------------------------|--------------------------------|
| LC UPC | 0.25/0.55 | -55 dB | -10 to +60 °C | > +10 °C |
| LC APC | 0.5/0.05 | -65 dB | -10 to +60 °C | > +10 °C |
| SC UPC | 0.3/0.05 | -55 dB | -10 to +60 °C | > +10 °C |
| SC APC | 0.5/0.05 | -65 dB | -10 to +60 °C | > +10 °C |
| MTP APC | 0.75/0.05 | -50 dB | -10 to +60 °C | > +10 °C |

Related Product

The 12-Fiber SlimBox® Module with internal adapters is an excellent choice for terminating or splicing the 12 fibers from the InvisiLight Multifiber Cord in a telecom or hallway closet.

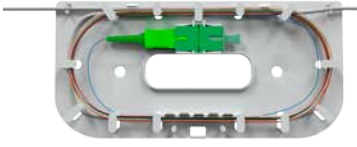


InvisiLight® MDU Solution Ordering Guide

The InvisiLight MDU Solution kit includes: a spool of the InvisiLight Multifiber Cord with 12 EZ-Bend Optical Fibers, 12 Point-of-Entry (POE) modules, 20 outside corner bend limiters, 20 inside corner bend limiters, 12 wall plugs and caps, two (2) through-wall tools and installation instructions. The InvisiLight Multifiber Cord is available in lengths of 100 and 300 meters with custom lengths upon request. The adhesive (in tubes), adhesive application tool and pole extension tool are sold separately.

| Ordering | Item | Description |
|--------------------------------------|--|--|
| InvisiLight MDU Solution Kits | | |
| 301117149 | NVSLGHTHI-D-SCAUNC-Module Kit-12-100M-EA | SC-APC connectorized (one end) 12-fiber InvisiLight Multifiber Unit, 100 meters, 12 point-of-entry (POE) modules and components |
| 301117156 | NVSLGHTHI-D-SCAUNC-Module Kit-12-300M-EA | SC-APC connectorized (one end) 12-fiber InvisiLight Multifiber Unit, 300 meters, includes 12 point-of-entry (POE) modules and components |
| 301117180 | NVSLGHTHI-D-MTFUNC-Module Kit-12-100M-EA | MPO (Ribbon) connectorized (one end) 12-fiber InvisiLight Multifiber Unit, 100 meters, includes 12 point-of-entry (POE) modules and components |
| 301117198 | NVSLGHTHI-D-MTFUNC-Module Kit-12-300M-EA | MPO (Ribbon) connectorized (one end) 12-fiber InvisiLight Multifiber Unit, 300 meters, includes 12 point-of-entry (POE) modules and components |
| 301117164 | NVSLGHTHI-D-LCAUNC-Module Kit-12-100M-EA | LC-APC connectorized (one end) 12-fiber InvisiLight Multifiber Unit, 100 meters, includes 12 point-of-entry (POE) modules and components |
| 301117172 | NVSLGHTHI-D-LCAUNC-Module Kit-12-300M-EA | LC-APC connectorized (one end) 12-fiber InvisiLight Multifiber Unit, 300 meters, includes 12 point-of-entry (POE) modules and components |
| 301117123 | NVSLGHTHI-D-UNCUNC-Module Kit-12-100M-EA | Unconnectorized 12-fiber InvisiLight Multifiber Unit, 100 meters, includes 12 point-of-entry (POE) modules and components |
| 301117131 | NVSLGHTHI-D-UNCUNC-Module Kit-12-300M-EA | Unconnectorized 12-fiber InvisiLight Multifiber Unit, 300 meters, includes 12 point of entry (POE) modules and components |
| 301127007 | NVSLGHTHI-D-SCAUNC-CMODUL KIT-12-100M-EA | SC-APC connectorized (one end) 12-fiber InvisiLight Multifiber Unit, 100 meters, 12 compact point-of-entry (POE) modules and components |
| 301126942 | NVSLGHTHI-D-SCAUNC-CMODUL KIT-12-200M-EA | SC-APC connectorized (one end) 12-fiber InvisiLight Multifiber Unit, 200 meters, 12 compact point-of-entry (POE) modules and components |
| 301133617 | NVSLGHTHI-D-SCAUNC-CMODUL KIT-12-300M-EA | SC-APC connectorized (one end) 12-fiber InvisiLight Multifiber Unit, 300 meters, 12 compact point-of-entry (POE) modules and components |
| POE Module | | |
| 301107447 | NVSLGHTH-Module E/W LCA ADAPTER | Additional point-of-entry (POE) module with LC-APC adapter |
| 301107454 | NVSLGHTH-Module E/W SCA ADAPTER | Additional point-of-entry (POE) module with SC-APC adapter |
| 301107462 | NVSLGHTH-Module E/W SPLICE TRAY | Additional point-of-entry (POE) module with splice tray |
| 301123998 | NVSLGHTH-COMPACT-MODULE W/ LCA ADAPTER | Additional compact point-of-entry (POE) module with LC-APC adapter |
| 301124004 | NVSLGHTH-COMPACT-MODULE W/ SCA ADAPTER | Additional compact point-of-entry (POE) module with SC-APC adapter |
| Telecom Closet | | |
| 301117883 | WSC1W-012-SBM0-BGE-MTMUNC-F | 12-fiber SlimBox module with MPO adapter |
| 301117891 | WSC1W-012-SBM0-BGE-SCAUNC-F | 12-fiber SlimBox module with SC-APC adapter |
| 301117909 | WSC4W-012-SBM0-BGE-LCUUNC-F | 12-fiber SlimBox module with LC-APC adapter |
| 301085551 | WSC1W-012-SBM0-BGE-SCAUNC-F-PT | 12-fiber SlimBox module with SC-APC adapter and pigtails |
| 301117917 | WSC4W-012-SBM0-BGE-LCUUNC-F-PT | 12-fiber SlimBox module with SC-APC adapter and pigtails |
| 301122404 | WSC1S-012-SM11-GRY-SCAUNC-F | 12-fiber SlimBox module with SC-APC internal adapters |
| Tools | | |
| 301120986 | NVSLGHTH-MID Span Tool | 12-fiber multifiber cord access tool |
| 301079109 | NVSLGHTC-MINI Dispensing Tool | Adhesive dispensing tool |
| 301079638 | NVSLGHTC-Tool Belt Kit | InvisiLight tool belt kit |
| 301115671 | NVSLGHTC-Pole Extension Tool | InvisiLight pole extension tool |
| 301124988 | TOOL, MS06-2.0MM-3.0MM BLUE | Tool to slit the jacket of 2.00 and 3.00mm optical cords |
| Adhesive | | |
| 301079117 | NVSLGHTC-Tube, 30ML Adhesive 25 PK | 25-pack of adhesive (in tubes) |
| 301079125 | NVSLGHTC-Tube, 30ML Adhesive 50 PK | 50-pack of adhesive (in tubes) |
| 301079133 | NVSLGHTC-Tube, 30ML Adhesive 100 PK | 100-pack of adhesive (in tubes) |

InvisiLight® MDU Solution Ordering Guide *Continued*



Point-of-Entry (POE) Module
at the tenant flat



Adhesive Dispensing Tool and
Adhesive (in tube)



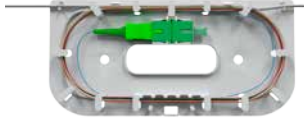
InvisiLight Multifiber Cord
shipped on a spool

Indoor Optical Solutions for Home and Business

100X Faster Speeds for the Internet of All Things



**12-Fiber
SlimBox® Module**



Point-of-Entry Module



InvisiLight® Module



Contact OFS Today!
www.ofsoptics.com

For additional information please contact your sales representative.
You can also visit our website at www.ofsoptics.com or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.



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