# OptiSheath® Fiber Distribution Hub Terminal Single Stub (FDHT-S)



OptiSheath FDHT-S Exterior



OptiSheath FDHT-S 76-Port Terminal

The OptiSheath® Fiber Distribution Hub Terminal Single Stub (FDHT-S) is an indoor/outdoor low-profile, wall-, pole-, or pedestal-mountable interconnect point between the central office feed and distribution network for rural single family living units (SFU), multidwelling units (MDU) or Business PON applications. The single stub design contains both the feeder and distribution fibers in a single sheath enabling faster installations, reduced cable space requirements and fewer splice access points. This solution can support up to 76 ports with configurations that include splitter and express port options. Express ports bypass the splitter and are typically used to support future growth opportunities, businesses or consumers who want the highest data rates. These features allow the terminal to be used as an alternative to traditional Indoor or Outdoor FDH Cabinets that require 76 or fewer ports.

Multiple terminal configurations are available to meet various rural SFU, MDU and Business PON applications.  All FDHT-S Terminals come fully factory assembled and are available with the following options:
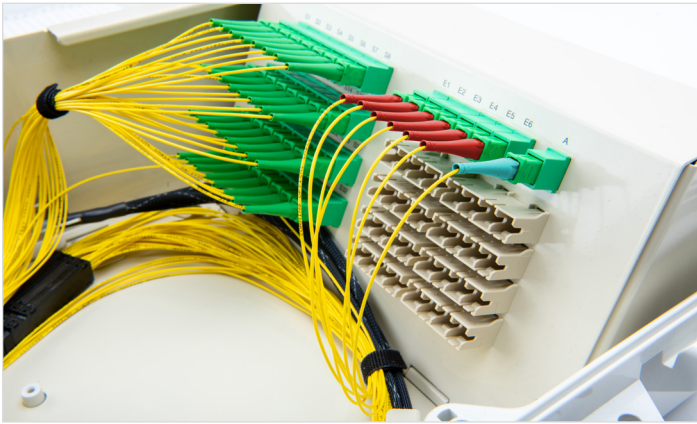
· Various gel-free ribbon indoor, outdoor or indoor/outdoor cable options in lengths from 100 to 1,000 feet.
· Express ports available in both SC UPC and SC APC.
· Cable lengths of 500 feet or more available on shipping reel to simplify installation.

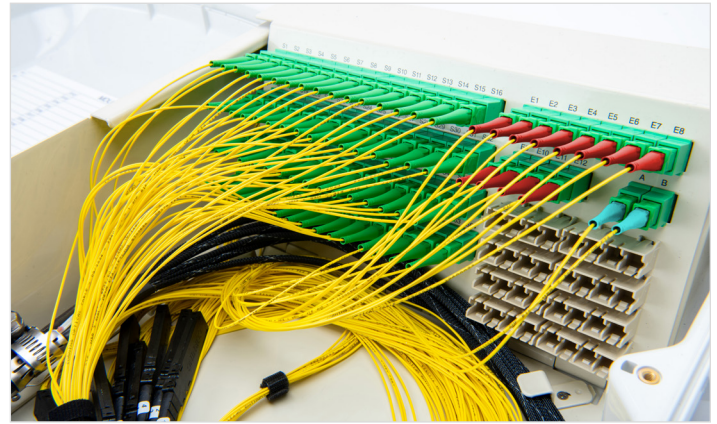| Features | Benefits |
|---|---|
| No patching required on initial installation | At least 32 splitter ports and all express port connected from factory. Only splicing is required at cable stub end |
| Craft-friendly installation | No need to set up hoist due to compact size and lightweight design. Reduced labor, fewer technicians required |
| One cable supports both feeder and distribution | Reduced cable slack storage enables smaller more cost efficient handholes |
| Single cable stub | Reduced duct space consumption and trenching expense |
| Enables a single splice closure | Aesthetic installation, reduced amount of utilities installed in the communications footprint of shared utility poles. |
| Indoor and outdoor rated | Enables a variety of deployment options |
| Features up to 64 splitter ports and 12 express ports | Multiple configurations to meet a variety of applications |
| Provides up to 76 distribution ports | High-density fiber connectivity |
| Built-in mounting provisions for interior and exterior surfaces, including siding | Ease of deployment |
| Flame-retardant, impact-resistant, engineering-grade thermoplastic, and hinged cover with padlock | Maximizes product lifetime and security |
| Protective coverings for incoming and drop cables | Indoor/outdoor plastic or metal skirt available to protect incoming and drop cables |



OptiSheath FDHT-S 38-Port Terminal

# OptiSheath® FDHT Terminal Single Stub (FDHT-S)



OptiSheath FDHT-S 38-Port Terminal



OptiSheath FDHT-S 76-Port Terminal

| Standards | |
|---|---|
| Design and test criteria | Terminals tested and qualified to applicable sections of Telcordia GR-771. Listed to UL, 94-V0 |

## Specifications

| General Specifications | |
|---|---|
| Weight | 14 lb (6.35 kg) |
| Dimensions (H x W x D ) | 16.29 x 14.59 x 6.0 in (41.4 x 37.1 x 15.2 cm) |
| Subscriber Connection | 38 or 76 ports |
| Door | Lockable Single-hinged door |
| Connectors | Splitter ports SC APC only, Express ports SC APC or SC UPC |
| Drop Connection | Single cable stub supports both input and distribution |
| Maximum Number of Splitter Inputs | 2 |
| Color | Cool Gray |
| Mounting Type | Pole, pedestal or wall mountable |

| Optical Specification – 1x32 Splitter | |
|---|---|
| Splitter Insertion Loss* | 17.1 dB |
| Splitter PDL (Polarization Dependent Loss) | 0.3 dB |
| Splitter Insertion Loss* Typical | 15.7 dB |
| Splitter Uniformity | 1.5 dB |
| Splitter Directivity | >55 db |
| Wavelength Range | 1260-1360 and 1480-1625 nm |

# Specifications

| Optical Specification – 1x64 Splitter | |
| --- | --- |
| Splitter Insertion Loss Max* | 20.8 dB |
| Splitter PDL (Polarization Dependent Loss) | 0.4 dB |
| Splitter Insertion Loss* Typical | 19.8 dB |
| Splitter Uniformity | 1.5 dB |
| Splitter Directivity | >55 db |
| Wavelength Range | 1260-1360 and 1480-1625 nm |

# Splitter Features

First with bend-improved fiber on input and output legs (ITU-T G.657.A compliant)

· Field-proven performance
· GR-1209 and GR-1221 qualified
· GR-326 certified connectors
· Secure housing protects splitter device throughout product life

# Ordering Information

**M D H** ☐☐ ☐☐ ☐☐ ☐☐ - ☐☐ ☐☐ ☐ **S**

     **1**    **2**    **3**    **4**    **5**    **6**    **7**

**1 Select input fiber count.**

96 = 96 fiber cable (required for 76 port terminal-64 splitter ports and 12 express ports)

48 = 48 fiber cable (required for 38 port terminal-32 splitter ports and 6 express ports)

**2 Select input cable length.**

31 = 100 ft (31 m)
92 = 300 ft (92 m)
F3 = 500 ft (150 m)
Q4 = 800 ft (244 m)
W5 = 1000 ft (305 m)

**3 Select total number of ports including splitter and express ports.**

38 = 38 Total number of distribution ports.

76 = 76 Total number of distribution ports.

**4 Select distribution field connector.**

6C = SC APC, (Both splitter output and pass-through ports are SC APC)

SU = Split Use, (Splitter output ports are SC APC and pass-through ports are SC UPC

**5 Stubbed- with pass-through ports**

C4 = SST-Ribbon™ Cable Gel-Free All-Dielectric Non Armored (48 or 96 fiber)

CF = FREEDM® Ribbon Riser I/O Cable (48 or 96 fiber)

V1 = RPX® Ribbon Toneable (48 or 96 fiber)

V4 = RPX Ribbon (48 or 86 fiber)

**6 Select splitter type.**

0A = 1x32 Splitter (for use with 38 port terminal only)

2A = Two 1x32 Splitters (for use with 76 port terminal only)

0L = 1x64 Splitter (for use with 76 port terminal only)

**7 Select drop connection.**

2 = Used on all stubless and stubbed units with a stubbed cable length of 500 ft or less.

R = Used on all stubbed terminals with a stub length greater than 500 ft. Ships on a reel.

# OptiSheath® MDU Terminal Accessories



OptiSheath MDU Terminal Indoor/Outdoor Skirt



OptiSheath MDU Terminal Mounting Bracket

The indoor/outdoor protective skirt kit allows the removal and installation of the skirt without tools after initial installation. The cavity created by the skirt and mounting bracket features allow both cable management and storage for the incoming and drop cables.

| Part Number | Product Description | Units per Delivery |
|---|---|---|
| MDU-PLAS-SKRT-FR | Indoor/outdoor plastic protective skirt | 1/1 |
| MDU-PLAS-BRKT-FR | Indoor/outdoor plastic skirt mounting bracket | 1/1 |
| MDU-PLAS-SKRT-BRKT-FR | Indoor/outdoor plastic skirt and mounting bracket kit* | 1/1 |
| MDU-SKRT-U3 | Metal, protective U-Guard for incoming drops and cables | 1/1 |
| MDU-SLACK-KIT | Metal slack storage unit that mounts on the back of the MDU terminal | 1/1 |

*Kit includes watertight fittings to seal incoming drops, braided tubing for protecting and routing slack when splicing-in 4.8-mm drops and filler cords to seal inputs when using fewer than eight drops per input.

# CORNING