



FDH 4000

Sealed Fiber Distribution Hub

Introducing the sealed fiber distribution hub (FDH) 4000 from TE Connectivity. Increasingly, aesthetic ordinances and equipment size restrictions are making it more difficult to secure permits in FTTx deployments. To solve this challenge, TE developed the FDH 4000. The sealed FDH 4000 is designed for superior performance in any environment. Its small, compact size minimizes visual impact for discrete applications. Leveraging TE's proven hardened fiber optic closure technology, the sealed FDH offers a robust and technician-friendly solution for connecting feeder and distribution cables via optical splitters in the FTTx network. The FDH can be installed in a vault, hand hole, or aerially via pole or strand.

FEATURES & BENEFITS

- **Extremely Compact/High Capacity Design**
Scalable up to 144 distribution ports, 12-72 feeder ports. (Unused ports can be used for pass through applications)
- **Superior Performance**
Unsurpassed reliability makes it ideal for aerial and below grade applications
- **Environmental Protection**
Thermoplastic construction provides UV stabilization, flame retardancy, and chemical & impact resistance
- **Field Proven Hermetically Sealed Closure**
Provides air/water tight seal ensuring protection from flooding and fungus
- **Re-Enterable/Reusable Shell**
No re-entry kits or tools required
- **Supports Diverse Splitter Module Configurations**
Standard optical splitters, CWDM's and DWDM's
- **Craft Friendly Splitter Module Design**
Easy to insert and remove without affecting adjacent splitters
- **Compatible Mounting Kits (sold separately)**
Allow for easy strand, pole, pedestal and hand-hole installations

FDH 4000

Sealed Fiber Distribution Hub

SPECIFICATIONS

FDH 4000 144-port

Configuration	Below Grade
Access	Removable Dome
Height Pole-Mount	28" (72 cm)
Width (Diameter)	9.5" (24 cm)
Enclosure Weight (without pedestal, cables, or splitters)	30 lbs (58 kg)
Connectors	LC/APC
Splitter Capacity	9
Splitter Modules Included	0
Distribution Port Count	24 - 144
Feeder Fiber Count	12 - 72
F1 Fiber Terminations	12 - 72
Pass-Throughs	**
Cable Ports	3
Cable Clamps	1
Enclosure Rating	IP68 (submerged to 6 meters for 7 days)
FDH Performance	GR-3125
Standard Color	Black

**configurable



Rear View



Front view
(Door Open)

FDH 4000

Sealed Fiber Distribution Hub

FDH 4000 MOUNTING OPTIONS



Pole



Strand



Hand Hole / Below Grade

SPLITTER SPECIFICATIONS

Description	Max Insertion Loss	Uniformity	Return Loss**	Directivity**	PDL**	Wavelength Range
Below grade splitter modules; LC/APC connectors						
(4) 1x4 splitter	7.1 dB	0.7 dB	≥55 dB	≥55 dB	0.2 dB	1260-1650 nm
(2) 1x8 splitter	10.4 dB	1.0 dB	≥55 dB	≥55 dB	0.2 dB	1260-1650 & 1260-1360 nm
(8) 1x2 splitter	3.8 dB	0.1 dB	≥55 dB	≥55 dB	0.2 dB	1480-1580 nm
Below grade splitter modules with tray; LC/APC connectors						
(4) 1x4 splitter	7.1 dB	0.7 dB	≥55 dB	≥55 dB	0.2 dB	1260-1650 nm
(2) 1x8 splitter	10.4 dB	1.0 dB	≥55 dB	≥55 dB	0.2 dB	1260-1650 & 1260-1360 nm
(8) 1x2 splitter	3.8 dB	0.1 dB	≥55 dB	≥55 dB	0.2 dB	1480-1580 nm

*1310 and 1550 only **1310, 1550, 1625 only



(4) 1x4 splitter module
(shown in tray)



(2) 1x8 splitter module

FDH 4000

Sealed Fiber Distribution Hub

ORDERING INFORMATION

Part Number
FD4S - _____ 00 _____

Distribution Fibers Loaded

012	12 Fibers
024	24 Fibers
048	48 Fibers
072	72 Fibers
096	96 Fibers
144	144 Fibers
192	192 Fibers
216	216 Fibers

Adapter Connector Type

N	SC/UPC
J	SC/APC
8	LC/UPC
S	LC/APC

Number of Splitters Loaded

0	None
1	1 Splitter
2	2 Splitters
3	3 Splitters
4	4 Splitters
5	5 Splitters
6	6 Splitters
7	7 Splitters
8	8 Splitters
9	9 Splitters

Splitter Type Loaded

O	None
A	1x32 (std)
C	1x16
J	1x8
K	2x8
L	Dual 1x8
M	Dual 1x16
N	1x4
P	2x16
S	1x64
U	Dual 1x4

Distribution Cable Type ¹

D	Dry-Dry Dielectric Ribbon
G	Single Armor Loose Tube
J	Dielectric Loose Tube
L	Armored Ribbon
M	Ribbon Pigtails
N	Dry Armor LT-Feeder Dry Armor Ribbon - Dist.
P	Dry-Dry Armor Ribbon
R	Flat Drop
T	Dielectric Ribbon
U	Loose Tube Pigtails

Input Cable Fiber Count

1	12
2	24
3	36
4	48
7	72

Cable Stub Length

A	25 Foot
B	100 Foot
C	200 Foot
D	300 Foot
E	500 Foot

Dist. Cable Configuration ²

A	All 24 Fiber Stubs
B	All 48 Fiber Stubs
C	All 72 Fiber Stubs
D	All 96 Fiber Stubs
E	All 144 Fiber Stubs
F	Future Use
G	All 216 Fiber Stubs
H	All 288 Fiber Stubs

² Maximum 2 distribution and 1 feeder fiber

¹ Subject to availability

te.com

TE Connectivity, TE connectivity (logo) and Every Connection Counts are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2015 TE Connectivity Ltd. family of companies All Rights Reserved.

320806AE 06/15 Original

PRODUCT SHEET

Contact us

P.O. Box 1101
Minneapolis, Minnesota
USA 55440-1101

Tel: 1-800-366-3891 x73000
1-952-917-3000

Fax: 1-952-917-3237

www.te.com/bns