

# Inspecting FTTH Terminals

Optical fiber terminals are deployed in outside plant fiber-to-the-home (FTTH) networks to deliver fiber-based last mile telecommunication services to single subscribers. The terminals typically feature an input receptacle port and multiple output receptacle ports. The input optical signal is split between multiple outputs and distributed to nearby homes, or a single multi-fiber connector is broken out into multiple single-fiber outputs to feed the homes. The FTTH terminals, cables, and connectors are environmentally hardened to withstand exposure to the wet conditions and wide temperature ranges encountered in outdoor pedestals, in underground vaults and handholds, on building facades, and aerially on poles.



Using a P5000i probe microscope to inspect a Corning Evolv™ terminal with Pushlok™ receptacles

**FiberChek<sup>PRO</sup>**  
version 2.4.1.6892
Fiber Inspection
**VIAVI**

Report Name	Corning Evolv Pushlok.pdf
Timestamp	4/17/2023 10:57:40 AM
Company Name	VIAVI Solutions
Customer	VIAVI Solutions
Location	Bothell
Operator	EA

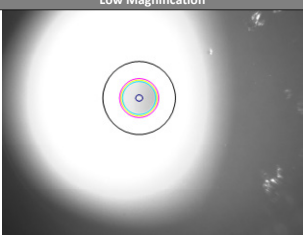
<b>Device Info</b>	
Model	FiberChek
Serial Number	11520-0910-0048
Firmware Version	2.2.992.3387

<b>Test Info</b>	
Fiber ID	Fiber-1
Fiber Type	Simplex
Comments	Corning Evolv Pushlok Port
Profile Name	SM APC (IEC-61300-3-35 Ed. 2.0)
Optical Setting	FBPT-CEV-A6

PASS

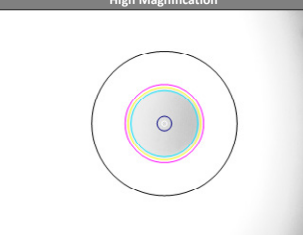
<b>Inspection Summary</b>		
Zone	Defects	Scratches
Zone A (0 - 25)	PASS	PASS
Zone B (25 - 115)	PASS	PASS
Zone C (115 - 135)	PASS	PASS
Zone D (135 - 250)	PASS	PASS

Low Magnification



Focus: 85


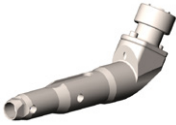




High Magnification



Focus: 85

Analysis Details	Passes All
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Inspecting the terminal ports is essential to ensure that the fiber end faces are sufficiently defect-free to be put into service. To facilitate inspect-before-you-connect (IBYC) best practices, VIAVI offers receptacle port inspection tips for the P5000i and FiberChek probe microscopes.

Terminal Brand	Terminal Model	Receptacle Port Connector Type	P5000i/FiberChek Inspection Tip	Tip Image
Corning®	OptiSheath® <sup>1</sup>	OptiTap®	FBPT-COD-L FBPT-COD-A6	
Corning	Evolv™ <sup>1</sup>	Pushlok™	FBPT-CEV-A6	
CommScope	MST	DLX®	FBPT-DLX	
FiberHome	FitDP-461A	FitDP	FBPT-FITDP-R <sup>2</sup>	
Huawei	FAT2808	FastConnect	FBPT-FSTCON <sup>2</sup>	
ZTE	FebS-10	FebS-10	FBPT-FEBS10-R <sup>2</sup>	

1. Corning OptiSheath and Evolv terminals are available pre-terminated with multifiber tethers featuring OptiTip MT connectors. P5000i/FiberChek FBPT-COD-MT and FBPT-COD-MTA tip and guide kits are available for PC and APC OptiTip connector inspection respectively. Sidewinder FCPT-COD-MT/MTA tips are also available for OptiTip connector inspection.

2. Companion FBPP-BAP1 barrel assembly required

Visit [viasolutions.com/inspect](https://viasolutions.com/inspect) to learn more about fiber inspection.

## References

Corning OptiSheath terminal with OptiTap connector ports: [https://www.corning.com/catalog/coc/documents/product-family-specifications/0273\\_NAFTA\\_AEN.pdf](https://www.corning.com/catalog/coc/documents/product-family-specifications/0273_NAFTA_AEN.pdf)

Corning Evolv terminal with Pushlok connector ports: <https://www.corning.com/catalog/coc/documents/brochures/CRR-1339-AEN.pdf>

CommScope fiber access terminals: <https://www.commscope.com/globalassets/digizuite/2505-fiber-access-terminals-br-112130-en.pdf>

FiberHome FitDP terminal: <https://en.fiberhome.com/>

Huawei fiber access terminal with FastConnect connector port: <https://carrier.huawei.com/en/products/fixed-network/access/ODN/fat>

ZTE FebS fiber access terminal: [https://www.zte.com.cn/global/product\\_index/optical\\_access\\_en/odn/odn/febs.html](https://www.zte.com.cn/global/product_index/optical_access_en/odn/odn/febs.html)



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