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POFTO Standard Update
ODVA Standards related to POF

Paul M. Mulligan

CEO, FiberFin Inc.

Chairman, POFTO Standards Committee

FiberFin

Plastic Optical Fiber Trade Organization

- ODVA was founded in 1995 and is an international association with members from the world's leading automation companies. Collectively, ODVA and its members support network technologies based on the Common Industrial Protocol (CIP™).
- CIP™ , the networks adaptations of CIP are DeviceNet™, EtherNet/IP™, CompoNet™, and ControlNet™, along with the major application extensions to CIP — CIP Safety™ and CIP Motion™.
- ODVA manages the development of these open technologies and assists manufacturers and users of CIP networks through tools, training, and marketing activities. In addition,
- ODVA offers conformance testing to help ensure that products built to its specifications operate in multivendor systems.
- ODVA also is active in other standards development organizations and industry consortia to drive the growth of open communication standards.
- For more information, visit its Web site at www.odva.org.

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ODVA Approves POF

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- The EtherNet/IP Chapter 8 Volume 2 ed. 1.6 was published as of November 2008 and has included 1mm POF fiber in two classes of numerical apertures: 0.5NA and 0.3NA.
- This standard also includes the connectorless transceivers like the Optolock ® , RPopto Clamp and the AVAGO clamp style.
- These are bare cable retaining mechanisms that hold the fiber jacket.
- The new release, Chapter 8 Volume 2 Ed. 1.7, which should be passed in April, will have two connector variations of the SCRJ
- The updated ODVA standard will be reflected in the next release of the IEC 61918 Ed2 and most of the profiles in the IEC 61784-5-2 Ed2.

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1mm POF fiber in two classes

- Numerical apertures: 0.5NA

Step Index, Mitsubishi Premium ESKA,
Grades GH/ *GHCP/GHTT/*GHV (industrial Data)
* UL1581VW1 rated

- Numerical apertures 0.3NA.

Step Index, Mitsubishi MEGA ESKA Grades MH (wide Bandwidth)

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POF Cutters

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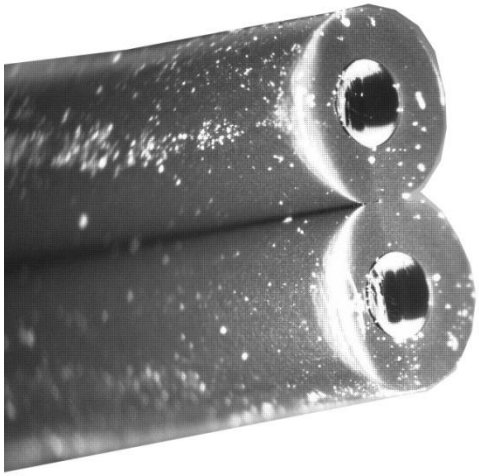

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Connector-less, “Plug less” fiber optic transceivers

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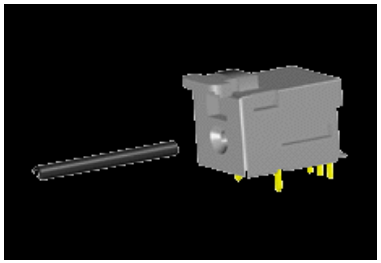
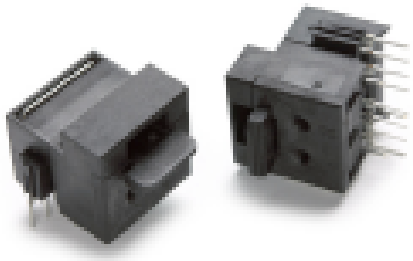
OptoLock®
plug less fiber optic transceivers

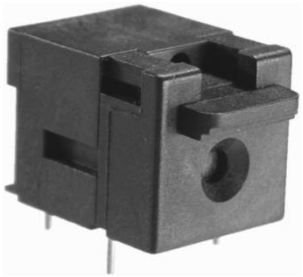
Firecomms



Plug less “RPopto Clamp“ cable connection



AVAGO Technologies®
Plug less fiber optic transceivers



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Ethernet/IP Planning and install guide to include POF in the next release

EtherNet/IP Media Planning and Installation Manual

http://www.odva.org/Portals/0/Library/Publications_Numbered/PUB00148R0_EtherNetIP_Media_Planning_and_Installation_Manual.pdf

Thank You!

for your kind attention…..

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Questions?

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