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Fully customizable Plastic Optical Fiber (POF) assemblies and harnesses are a rugged, cost-effective solution offering maximum flexibility for optical cabling in many industrial, medical, transportation, renewable energy, smart grid and consumer applications

Molex offers fully customizable, cost-competitive Plastic Optical Fiber (POF) cable-assembly and harnesses solutions, providing maximum flexibility to customers specifying optical cabling in industrial, medical, renewable energy, power and data transmission, transportation and consumer applications including controls, drives, factory automation, high-speed trains, sensors and imaging. Plastic optical fiber (POF) cables, made from light-conducting plastics, are used for optical cabling networks over short distances, while glass fiber-optic cables are used for long distances.

Customers are able to specify assemblies and harnesses in terms of connector types, jacket material and color, temperature range, UL certification, cable lengths and tolerances. Molex SMI connectors, plus a wide range of connectors from different manufacturers, are available to answer specific application requirements at a competitive cost.

Purchasing fully customized cable solutions from Molex can allow customers to simplify their supply-chain through vendor reduction and remove thirdparty margins/ costs. For additional information visit: www.molex.com/link/pof.html

Features and Benefits

UL cable certification	Meets globally recognized safety standards
Industrial and extended temperature ranges from -55 up to +105°C	Withstands harsh environments
Choice of polymer and metal connectors from a wide range of manufacturers	Offers robust Insertion Loss (IL) performance, less than 2.8dB per connector, through cost-effective components selection
Custom cable lengths and length tolerances	Provides full design flexibility while meeting precise application requirements
Bare-fiber assembly capabilities	Ideal solution for sensor application
Applications	

Applications

Alternative Energy Solution: Wind Turbines

- -Control systems
- -Power electronics/ IGBT/ IGCT
- -Sensors (structural health monitoring)
- -Inverters/ drives -Pitch control

Industrial Automation

- -Factory automation
- -Ethernet based applications
- -Robotics
- -Fieldbuses
- -Sensors

Customized POF Cable Assemblies & Harnesses





Customized POF Cable Assemblies



Wind Turbines



Rail infrastructure and Rolling Stock



Medical Imaging



Industrial Automation

- Medical
 - -Imaging -Galvanic Isolation -Optical sensors

Transportation

-Traction, high-speed trains -Rolling stock -Rail infrastructure

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Additional Product Features

Customized POF Cable Assemblies & Harnesses



ST POF connector

FSMA POF connector



Toslink F07 duplex POF connectors



Toslink F05 simplex connectors



Toslink F05 simplex connector, crimpless



Avago crimpless simplex & duplex solution, with or without latching

Specifications

REFERENCE INFORMATION

UL Approval: Yes (cable jacket dependent) IL parameters Less than 2.8 dB/connector RoHS: Yes Halogen Free: On request

Ordering Information

CONTACT MOLEX.



Avago duplex/ crimp ring with or without latching



Avago simplex/crimp ring with latching



Avago simplex connector/crimp ring

PHYSICAL

Connector types include: SMI, Avago VL, SMA, ST; FC, Toslink F05, F07, additional types on request Jacket type: PE, CPE, PVC, PA Operating Temperatures: -55 to +85°C or -55 to +105°C