

DI MOTO
TECHNOLOGY IN MOTION

The future of networking is here.

Ethernet over Plastic Optical Fibre is the next generation of networking and cabling technology, promising superior quality of service, easy installation and significant cost savings.

THE TECHNOLOGY

Ethernet over Plastic Optical Fibre uses optical wave guiding to transmit data between devices.

EoPOF meets the fast Ethernet standard of 100 Mbps and has a reach of up to 100 metres.

Plastic Optical Fibre cable is made from a 980um core of polymethylmethacrylate (PMMA), which is significantly larger than a glass optical fibre core of 50um.

The large POF core lowers the degree of accuracy needed to align the connecting fibres, making installation faster and easier than glass fibre optics. The fibre's wide diameter also means that the cable will work even if the ends are slightly damaged or dirty.

POF cables have a fluoropolymer cladding making them durable, flexible and thin (2.2mm x 4.4mm), meaning installation is an easier process in tight places and congested cable ducts.

Being plastic, termination of EoPOF cables can be done with a pair of scissors or box cutting knife, avoiding both the complexity of terminating copper cables, and the lengthy process required to polish glass optical fibre.

The greatest advantage that Ethernet over Plastic Optical Fibre has over traditional copper cabling is its electrical immunity.

Today's factories, homes and offices are filled with electrical devices and wireless communications, emitting radiation and creating electromagnetic interference. This noise and crosstalk corrupts the reliability of data transfer, voice and picture quality.

Because EoPOF does not use electrical signals to transmit data, and because of its plastic form, EoPOF networks are immune to electromagnetic interference. This enables EoPOF networks to provide a greater quality of service for video, voice and data streaming.

The cost of POF cable is much cheaper than glass optical fibre, and is comparable to Twisted Pair. But more than this, POF promises faster and safer installation measures, lower shipping costs for a lighter weight product, and the ability to implement space-saving design for cabling ducts.

Ethernet over Plastic Optical Fibre offers compelling cost savings for anyone investing in networking infrastructure.



Installing Plastic Optical Fibre is as simple as cutting it with a knife, plugging it into the connector and locking the connector into place.

NETWORKING ADVANTAGES

Ethernet over Plastic Optical Fibre presents a host of advantages over both copper cabling and glass optical fibre:

Advantages over copper cabling

Electrical immunity:	POF is immune to electromagnetic interference, crosstalk and noise
Electrical isolation:	Networking devices are electrically isolated
Space-saving:	POF cable diameter is approximately 50% less than TP, perfect for where space is at a premium
Lightweight:	POF is around 4 times lighter than Cat5e, saving in shipping costs
Fast termination:	Termination can be done with a pair of scissors
Robust:	POF withstands greater vibration
Easy installation:	Can be placed next to power sources
Simple connection test:	A 650nm LED light source is a visual cue for a connected device
Greater security:	POF cable is difficult to tap without being detected
Zero radiation:	No generation of electromagnetic radiation
Quality of service:	Particularly for high demand triple play services of video, data and voice streaming
Greater installation opportunities:	POF can be installed in new building connections where TP is not possible due to existing infrastructure constraints

Advantages over glass optical fibre

Fast installation:	POF can be easily pulled through congested or small cable ducts
Easy termination:	No polishing or specialist machinery is required to terminate
Low cost:	POF is available at a fraction of the cost of glass optical fibre
Robust:	POF cable is more durable and flexible than glass, with half the bend radius
Simple, safe connection test:	A 650nm red LED, safe to the naked eye, is a visual cue for a connected device

Di Moto's residential product range



Di Moto's industrial product range



Ethernet over Plastic Optical Fibre: See the world of networking in a whole new light

Ethernet over Plastic Optical Fibre is a robust, low-cost and easy-to-install networking solution. EoPOF technology promises a host of advantages, including higher quality of service, easier installation and lower costs.

Di Moto Pty Ltd provides an end-to-end solution to deploy EoPOF in the industrial, commercial and home environments.

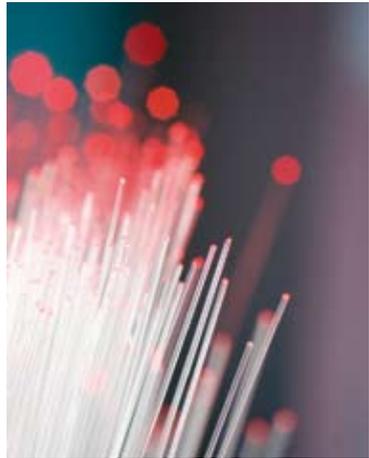
Di Moto is opening the gateway to new and improved networking and cabling technology. Di Moto Pty Ltd designs, develops and supplies Ethernet over Plastic Optical Fibre networking devices worldwide.

The company's mantra is technology in motion – creating plastic optical fibre ethernet networking solutions for industrial, commercial and residential markets. Di Moto is a member of the leading plastic optical fibre body, the Plastic Optical Fiber Trade Organization (POFTO).

World-first products in the EoPOF *Connect* range include:

- PCI Ethernet Card
- 4 Port Network Switch
- 8 Port Network Switch
- 1 Port Media Converter
- 2 Port Media Converter
- USB Adapter
- Fibre optic cable and accessories

Visit www.dimoto.com.au for product information and datasheets.



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