

Plastic Optical Fibre - Product Data



For more information,
Contact sales@pyroptic.com

Description

Plastic optical fibre (POF) provides the durable flexible optical channel that passes through each PyrOnode. An activated PyrOnode severs the POF blocking the optical continuity which is instantly detected by the fibre amplifier relay. Once connection has been investigated and repaired POF can be easily cut and spliced together using PryOptic fibre splice kits. No more than 6 joints should be typically used in a loop due to increased attenuation. Compared with glass optical fibre it is more resistant to fibre breakage and has a similar feel and flex to nylon fishing line. The maximum loop length depends on a number of factors including allowance for joints, tight bends and linear attenuation. As a general rule, loops under 200m do not require special consideration.

Features

- Easy installation and termination
- Flexible construction with durable PA12 jacket
- Simple splicing no need for complex tooling
- Non-conductive suitable for most electrical installations
- Available in custom spool lengths upto 1000m

Product Image



Specifications

Feature	Data	Notes
Core Material	Polymethyl-Methacrylate Resin	
Cladding Material	Fluorinated Polymer	
Jacket Material	Polyamide Resin PA-12	Black in colour
Core Diameter	0.47mm to 0.53mm	
Outer Diameter	1.0mm ± 0.05mm	
Number of Fibers	1	
Installation Temperature	-55 ~ 105°C	No Physical Deterioration
Attenuation	≤0.25 dB/m	
Minimum Bend Radius	9.0mm	
Tensile Strength	≥20 N	Breaking Point

Please contact PyrOptic sales for pricing - sales@pyroptic.com

Pricing

Order Code	Description		Qty. Cost
PYR-SHCN-500-10	1.0mm OD POF		POA