



Fibre Pole-mount Enclosure

The AFL Fibre Pole-mount Enclosure solution is specifically designed to fit within confined, environmentally sealed spaces (ie. Inside a light pole) and terminate a 'Hybrid' fibre/power cable. The enclosure is supplied with a small format, passively cooled, Power over Ethernet (PoE) media convertor and SFP transceiver for Gigabit backbone networks.

Features

- Compact design allows for mounting within confined spaces
- Aluminium construction for thermal dissipation and corrosion resistance
- Terminate 6F max. fusion splicing or field installable connectors
- Removable service cover with vented top, brush strip on base and viewing window
- Includes small footprint PoE media convertor and matching transceiver
- Supports up to 90W (PoH) at 10/100/1000Base-T
- Transmit over singlemode or multi-mode fibre with a variety of link budgets

Applications

- IP security cameras
- 'Smart Pole' and 'Smart Lighting'
- Outdoor digital signage / infrastructure, WAP and IoT
- Intelligent transportation infrastructure



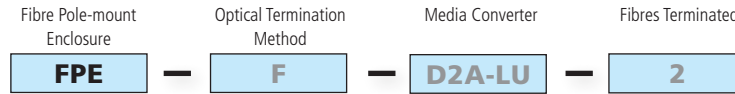
Shown inside pole (cover removed)

Specifications

Description	Fibre Optic Internal Pole-mount Enclosure
Dimensions	400 mm (H) x 70 mm (W) x 65 mm (D)
Weight	1.1 kg (loaded with media converter & transceiver)
Material and Colour	1.6 mm Aluminium sheet 5052 grade & stainless steel fasteners, Powder-coated Mercury Grey
Ingress protection (Enclosure/media converter)	IP10/IP30
Media converter power output	Provides up to 90W to each RJ45 port, up to 120W in total
Operational temperature range	-20° to +75° C (Media converter and transceiver)
Incoming/outgoing cable ports (Base)	M20 strain relief compression gland 41 x 17 mm rectangular opening with brush strip
Features	Removable service cover with vented top, acrylic viewing window and brush strip Removable splice box with strength member post and cover, to suit LCD adapter/s & port blanking plugs Adjustable clamping bracket to suit a variety of media convertors 90 mm (W) x 49 mm (H) x 58 or 88 mm (L) DIN rail mounting clip Earthing point
Standard accessories*	1 x Media converter (packaged separately) 1 x SFP plug-in transceiver module (packaged separately) 1 x Compression gland with strain relief to suit 7-12 mm diameter cables 1 x 20 cm Spade to lug internal earth lead 1 x External earthing accessories 1 x DC conductor to media convertor termination kit including: <ul style="list-style-type: none"> • 2 x Twin wire 4 mm² bootlace ferrules • 2 x 4 mm² bootlace ferrules • 2-way terminal block to suit up to 5.5 mm² wire • Media convertor DC step-down lead & ferrules
Optional accessories purchased separately (see respective product guides)	Media Converters DIN Rail Power Supplies FASTConnect® Field Installable Connectors Composite Fibre/Power Cable FRE/FDE Enclosures Copper Patch Leads
External Accessory considerations*	Ethernet surge protector Lightning protection

*All installation and repairs must be carried out by a qualified technician in accordance with local requirements, regulations and standards.

Specifications



Code	Optical Termination Method	
F	FASTConnect® field installable connectors Config. specific items include: <ul style="list-style-type: none"> • 2,4 or 6 FASTConnect® field-installable connectors (250/900µm SM or MM) • LC Duplex adaptor/s • 1 x 30 cm LC Duplex patchcord with push/pull tabs 	Primary Unit
S	Fusion Splicing Config. specific items include: <ul style="list-style-type: none"> • 6pk 900 µm LC Pigtails (SM G.657.A1, OM1 or OM4) • Adhesive backed splice comb • Heat shrink splice protectors • LC Duplex adaptor/s • 1 x 30cm LC Duplex patchcord with push/pull tabs 	
P	Pre-terminated fibre configuration (no optical termination required) (Pre-terminated patchcords purchased separately) Config. specific items include: <ul style="list-style-type: none"> • 1 x DC conductor to media convertor termination kit 	Expansion Unit

Media Converter Selection Matrix							
Port Count	Fibre Type	Transmission Speed					
		100Mbps			1,000Mbps		
		Transceiver Optical Distance*	Media Converter Output Power	Code	Transceiver Optical Distance*	Media Converter Output Power	Code
1 Ethernet Port	OM1	2 km	1 RJ45 Port PoE Max. 15.4W	D4A-L1	275 m	1 RJ45 Port PoH Max. 90W	F3A-L1
	OM3			D4A-L4	550 m		F3A-L4
	OM4			1,000 m	F1D-LU		
	Singlemode	10 km		D2A-LU	10 km		F1C-LU
		30 km		D2B-LU	30 km		F1B-LU
		60 km		D2C-LU	70 km		F1A-LU
		120 km					
2 Ethernet Ports	OM1	2 km	1 RJ45 Port PoE Max. 15.4W, 1 RJ45 Port unpowered	C4A-L1	275 m	2 RJ45 Ports PoH Max. 90W per port Total output limited to 120W	E3A-L1
	OM3			C4A-L4	550 m		E3A-L4
	OM4			1,000 m	E1D-LU		
	Singlemode	10 km		C2A-LU	10 km		E1C-LU
		30 km		C2B-LU	30 km		E1B-LU
		60 km		C2C-LU	70 km		E1A-LU
		120 km					

*Maximum distance between the power source and media converter to be determined by an electrical specialist.

Fibres terminated in Primary Unit		
Code	Up to six fibres can be terminated within the primary enclosure. Unused fibres from the first enclosure can be used to patch through to additional nearby expansion enclosures or other devices.	
2	Fibre termination components for one enclosure (default option)	Primary Unit
4	Additional termination components for one expansion enclosure. Contains additional through adaptors, FASTConnect® field installable connectors or pigtails and heat shrink splice protectors	
6	Additional termination components for two expansion enclosures. Contains additional through adaptors, FastConnect® field installable connectors or pigtails and heat shrink splice protectors	
X	Expansion unit only. Fibre termination components not provided	Expansion Unit

