



Figure 1

## Fibre Optic Dome Enclosures

AFL's Fibre Optic Dome Enclosures (FSE range) are well suited for splicing cables in a number of applications including long haul cable joining, cable repairs and fibre drop offs.

They are hermetically sealed and ideal for use in all environments including pole mounting, direct burial, manholes, pedestals etc.

These robust enclosures have an 'O' ring seal along with a simple latching mechanism to provide a watertight compartment that can be re-entered if required. These enclosures are supplied complete with all accessories, consumables and installation instructions.

### Features and Benefits

- The enclosures are equipped with a built-in fibre management system that provides a separate area for storing, routing, protecting and expressing fibre tubes
- Cables are secured to the base using an internal cable clamp and sealed with glue lined heatshrink tubing, for a strong watertight seal
- Internal splice cassettes are hinged to provide easy access during installation or repairs, without the need to remove the cassette
- Oval port allows for cable entry where fibre tube expressing is required
- Pole/wall mounting brackets are included for outdoor applications
- Made from strong polycarbonate materials and able to withstand UV radiation and extreme temperatures, these enclosures are well suited to the harshest environments
- The large enclosure can be configured to allow for a 12 way SC/SCA/LCD mounting bracket. This allows for internal patching of incoming and outgoing fibres. Figure 1 shows this option.

## Fibre Optic Dome Enclosures

### Specifications

Description	Small dome enclosure	Large dome enclosure
Dimensions	288 mm (H) x 178 mm (Ø)	490 mm (H) x 206 mm (W) x 156 mm (D)
Maximum splices	48	144
Cable size	3 round ports – maximum 16 mm 1 oval port – maximum 21 mm	4 round ports – maximum 20 mm 1 oval port – maximum 35 mm
Pressure testing valve	No	Yes
Earthing point	Yes	Yes
Wall mounting bracket	Yes	Yes
Pole mounting bracket	Yes (max. pole diameter 160 mm)	Yes (max. pole diameter 175 mm)
IP 68 rating	Yes	Yes
UV protection	Yes	Yes
Aerial mounting	Yes	No
Flame retardant	Yes	Yes
Temperature range	-40°C to +80°C	-40°C to +80°C
Lockable	Yes	Yes




1. All tests comply with the test standard IEC60529
2. Small dome enclosures are supplied with 4 cassettes for splicing a maximum of 48 splices
3. Large dome enclosures are supplied with 1 to 6 cassettes depending on the amount of splices required. Each cassette has a maximum of 24 splices

### Standard Accessories

<b>SMALL ENCLOSURE</b>	1 x earthing device, 3 x round heatshrink, 1 x oval heatshrink, 48 x splice protectors, 16 x cable ties, 1 x sheet of protection foil, 1 x length of sandpaper, 1 x branching clip for the oval port, 1 x roll of insulation tape, 1 x lock nut wrench, 1 x pole mounting kit, 1 x internal fibre management bracket, 2 m of clear tube, 1 x desiccant, 1 x instruction sheet.	
<b>LARGE ENCLOSURE</b>	1 x pressure valve, 1 x earthing device, 1 x earth wire, 4 x round heatshrink, 1 x oval heatshrink, 1 x sheet of protection foil, 1 x length of sandpaper, 1 x branching clip for the oval port, 1 x roll of insulation tape, 1 x lock nut wrench, 1 x pole mounting kit, 1 x internal fibre management bracket, 5 m of clear tube, 1 x Velcro buckle tie, 1 x velcro strap, 1 x desiccant, 2 x instruction sheets.  Note: the number of cassettes, splice protectors and cable ties supplied will depend on which enclosure is ordered.	

## Fibre Optic Dome Enclosures

### Optional Accessories

PART NUMBER	DESCRIPTION	
SPLCASS-LSH-HD-12/24K	Additional splice cassette kit for large dome enclosure. Supplied with: 1 x HD splice protector comb, 1 x cassette lid, 24 x heatshrink splice protectors, 4 x cable ties, 1 x instruction sheet	
SPLPROT-HS-3/45 SPLPROT-HS-2.5/62	<ul style="list-style-type: none"> <li>Spare splice protectors for the small dome enclosure (12 pk)</li> <li>Spare splice protectors for the large dome enclosure (12 pk)</li> </ul>	
FSE-SMD-RND-HS FSE-SMD-OVL-HS FSE-LGD-RND-HS FSE-LGD-OVL-HS FSE-HS-ENDCAP FSE-LGD-RND-CS FSE-LGD-MCT	<ul style="list-style-type: none"> <li>Replacement round glue lined heatshrink tube for small enclosure</li> <li>Replacement oval glue lined heatshrink tube for small enclosure</li> <li>Replacement round glue lined heatshrink tube for large enclosure</li> <li>Replacement oval glue lined heatshrink tube for large enclosure</li> <li>Heatshrink end cap for underground dome enclosure</li> <li>Coldshrink tubing for round ports</li> <li>Mastic Compound tape – 25 mm x 3 m</li> </ul> <p>All Heatshrink kits come complete with protective foil and sandpaper. Kits with oval tubes contain a branching clip. Coldshrink tube when cut in half, can secure 2 incoming cables. Mastic tape must be used when using Coldshrink tubing to maintain the IP rating</p>	

### Ordering Information

FSE	—	<b>SM</b>	—	<b>D</b>	—	<b>XXF</b>	—	<b>SC</b>
		<b>Enclosure Size</b>		<b>Dome</b>		<b>Max. Fibre Count</b>		<b>Internal Patch (optional)</b>
		SM – Small LG – Large				24F 48F 72F 96F 120F 144F Note: small enclosure only available in 48F		SC (12F) SCA (12F) LCD (24F) Note: only available in large enclosure – pigtails supplied separately in 6 pk or 12 pk.