



32 Drop AFN Aerial Fibre Node

LC APC Connections

Application Information

A range of Aerial Fibre Nodes which provide a cost effective solution for installing pre-terminated drop cables in P2P (Point to Point) or Point to Multi Point (P2MP) Fibre to the Home (FTTH) applications.

The enclosure has been designed to physically separate the feeder cable 250µm fibres from the customer connection points. Mounted aerially it is designed to deliver up to 32 drop cable customer connections.

Product Description

The AFN is an IP55/IK08 rated enclosure manufactured from UV stabilised polymer and can be either wall or pole mounted. The enclosure is black with a hinged lid where a logo can be moulded.

The enclosure consists of 3 separate fibre management areas:

- Inbound Cable Management

The lower section of the enclosure has four dedicated entry ports to support both mid-span and spur fibre cables with strain relief for all incoming feeder cables. This area provides positive fibre management and loop storage for a maximum of 144 fibres.

- Fibre Splice Management Area

A dedicated splice management tray sits above the storage area and has capacity for up to 48 x 3A splices (when double stacked) with a maximum splice protector length of 60mm. The tray provides separate fibre management areas for 250µm fibres and 600µm pigtails whilst maintaining 30mm minimum bend radius throughout.

- Drop Cable Management

The drop cable management area consists of a removable upper fibre management tray which presents 32 LC APC connections using 8 x LC APC quad adaptors for connection to industry standard pre-terminated drop cables and prevents access to the lower splicing area when in place.

For P2MP applications retaining features allow up to 4 bare end to LC/ APC PLC splitters to be mounted allowing for a 1:8 PON split ratio. The fibre management maintains a 30mm bend radius throughout with a cross over facility to allow for alternative routing requirements.

The LC quad adaptors on the customer facing side of the tray are angled and spaced to allow for inspection prior to connection, 12 anchor guides are provided for securing the drop cables. Drop cable exit ports use a split seal and collar to ensure performance in excess of IP55. There are two exit seals that allow 32 customer drops (8 exit ports per seal with maximum of 2 x 4mm cables per exit port).

The enclosure is also available in an LC/PC format.



AFN with 32 connections.



Drop management tray shown open.

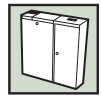


External view.

Features and Benefits:

- Separation of spliced feeder cable from connectorised drop cables
- 32 LC APC customer connections
- Maximum of 4 x 1:8 Bare End to LC/APC PLC Splitters (P2MP applications)
- 4 inbound/24 outbound ports
- Positive fibre management (30mm bend radius)
- IP55 and IK08 rating
- Secure, tamper proof cover
- Physical separation of installation fibre and customer connections
- Pole or building facade mounting features
- Low profile
- Compliant with IEC 61753 and IEC 61300-3-34
- UV stable Polycarbonate (PCUV).

| Part Number | Description |
|----------------------|--|
| AFN32-0404LCBS181/BK | AFN, 32D, BK, CE KIT 7MM, DC KIT 8MM, 1 X 1:8 BE/LC APC Adaptors |
| AFN32-0404LCBS281/BK | AFN, 32D, BK, CE KIT 7MM, DC KIT 8MM, 2 X 1:8 BE/LC APC Adaptors |
| AFN32-0404LCBS381/BK | AFN, 32D, BK, CE KIT 7MM, DC KIT 8MM, 3 X 1:8 BE/LC APC Adaptors |
| AFN32-0404LCBS481/BK | AFN, 32D, BK, CE KIT 7MM, DC KIT 8MM, 4 X 1:8 BE/LC APC Adaptors |
| AFN32-0404LCXXX1/BK | AFN, 32D, BK, CE KIT 7MM, DC KIT 8MM |



Technical Data

| | | | |
|--|--|-----|-----|
| Dimensions (mm) | D | W | H |
| | 90 | 177 | 342 |
| Maximum number customer connections | 32 | | |
| Maximum number of splices | 48 | | |
| Colour | Black | | |
| Maximum Fibre Storage | 144 Fibres | | |
| Number of Ports | 4 feeder ports and 24 distribution ports | | |
| Maximum cable dimensions | Feeder | 7mm | |
| | Distribution | 8mm | |
| IP Rating | IP55 | | |
| Mechanical IK protection | IK08 | | |

Technical Diagrams

