

MDU - S5C

Fibre Optic Enclosure - Connectorised

Application Information

The S5 Multi-Dwelling Unit (MDU) Enclosure is the largest in the HellermannTyton family is designed for deploying within the last mile of an FTTH or business network. The S5 is available in numerous configurations of tray styles, connector counts, port types and optical functions depending on the particular requirements of the operator. The cornerstone of the enclosure is the modular fibre management system (FMS) which is present in many of HellermannTyton's fibre optic solutions. Numerous styles of both splice tray and splice holder are available for point-to-point (P2P) configurations as well as many options for splitter-based splice trays for more typical passive optical network (PON) or point-to-multi-point (P2MP) requirements.

The various applications of this style of enclosure have led to a number of aspects being adaptable depending on the specific requirements of the optical distribution network (ODN). Whilst several cable port options are available for the S5, the availability of a 24-position accessory for up to 7mm cables or ducts makes for a highly versatile enclosure, especially given that they can be installed in up to four positions along the base. Single cable and loop-thru port options further extend the choices available.

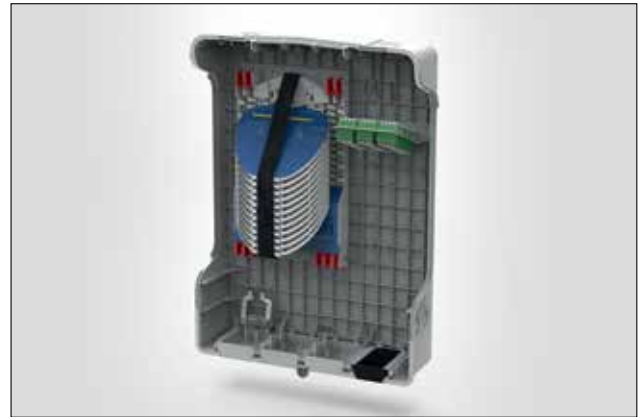
Connectivity within the last-mile, be that with LC or SC style connectors is often the operator's preferred presentation and makes day-one customer connection and day-two network trouble shooting and support more straightforward, especially where a PON solution requires bi-directional testing but needs to avoid testing the wrong way through the splitter. Connector counts from 8 to 96 are available with several styles of connector mounting options possible. Pre-connectorised splitters from 1x2 to 1x32 can be incorporated into the enclosure as well as bare-end splitter solutions and pigtailed for when a centralised PON but decentralised connection are the preferred design choice.

Easy-to-add and upgrade connectorised cassettes or fully functional connectorised splice trays with P2P or P2MP configurations are also options available to the S5, providing similarities between more traditional outside plant (OSP) and MDU components.

Customer separation can be as important in an MDU as any major metropolitan network and the S5 provides this functionality. With support for 24-splice single-element (SE) and 12-splice single-circuit (SC) splice trays, there are a few situations where the S5 fails to deliver. The final configuration makes quoting splice count a challenge, especially where most of the limitation is based on the number of drops that can be provided and precisely where in the network the S5 has been installed. Adding pre-connectorised fanout cables and the HellermannTyton corridor box to the overall MDU design allows for rapid and high-density deployments with the convenience of connectorisation and rapid testing and trouble shooting.

Loop storage basket solutions are also available in the S5 family of optical accessories where the enclosure is being deployed at various positions along a single length of fibre cable often where numerous floors or even buildings are being severed from a common fibre ring.

No two MDU environments are the same and consequently no two MDU fibre infrastructures have the same design, use the same components or follow the same routes. With this in mind HellermannTyton have created a highly customizable MDU eco-system which include a number of optional accessories and associated products that ensure we have a solution for every situation. These include UV and UL 94 VO materials for both inside and outside installations, B2ca compliant corridor cables for single dwelling drop-offs, face plates for connector presentation at the customer's optical network unit (ONU) and connectorised enclosures to ensure maximum flexibility within any deployment.



MDU-S5C with 18 x SE MKII trays and LC QD connector plate.



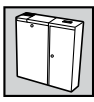
MDU-S5C shown with lid and optional lock.

Technical Data

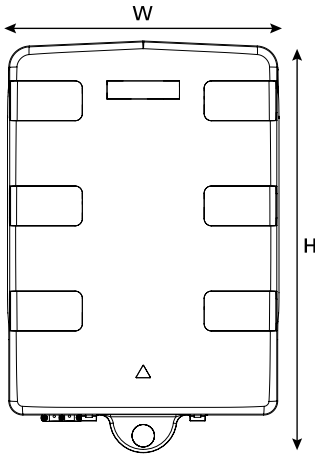
Dimensions (mm)	H	W	D
	568	375	165
IP Rating (Testing for Sealing)	IP54		
Mechanical IK protection	IK08		
Material	Acrylonitrile Butadiene Styrene (ABS)		
Material Properties	UV Stable / UL94 V0		
Colour	Light Grey RAL 7035		
Operating Temperatures	-20°C to +50°C		

Features and Benefits:

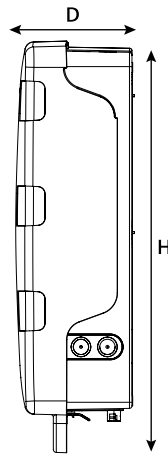
- Up to 96 connections
- Indoor/outdoor applications
- Maximum Splice Capacity: 512 (3A or ANT)
- FMS with 18 SE IR trays or 36 SC-B IR trays
- 6 modular cable entry/exit ports
- Loop Through Cable Kit with black rubber seals (Ø 3-14mm)
- Extensive range of accessories



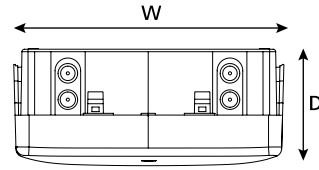
Technical Diagrams



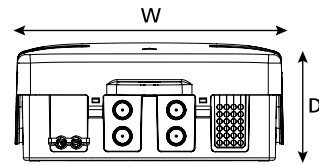
Front view.



Side view.



Top view.



Base view.

MDU-S5C Enclosure Accessories



Entry Seals



Single Cable Entry Kit



Loop Through Cable Kit



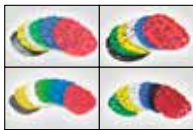
Multi Drop Cable Seals



Drop Cable Anchor Kit



Unique and Generic Lock Options



Fibre Splice Trays



Splitter / Splice Holders



Splitters



Pigtails

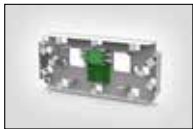


Internal Loop Storage Basket



Rear Mounting Loop Basket

Associated Products



Internal Corridor Box (ICB)



Fibre Wall Outlet (FWO)



FWO Extension Kit (FWOE)



Faint Fibre Outlet (FFO)



MDU Cable (Bare End)



Internal Duct



MDU S1XS



MDU S1



MDU S2



MDU S2 XL



MDU S3



MDU S4



Datasheets and product info

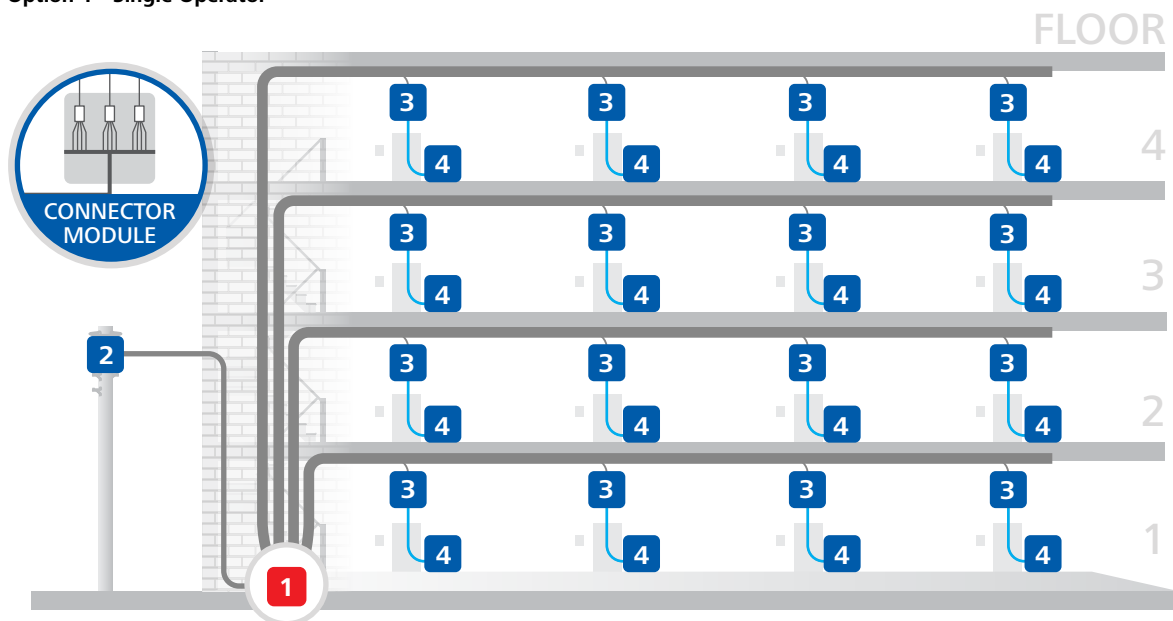
Information about these products can be found online via the QR code or link below.

URL link: bit.ly/4pirCQQ



S5 Connectorised - Topology

Option 1 - Single Operator



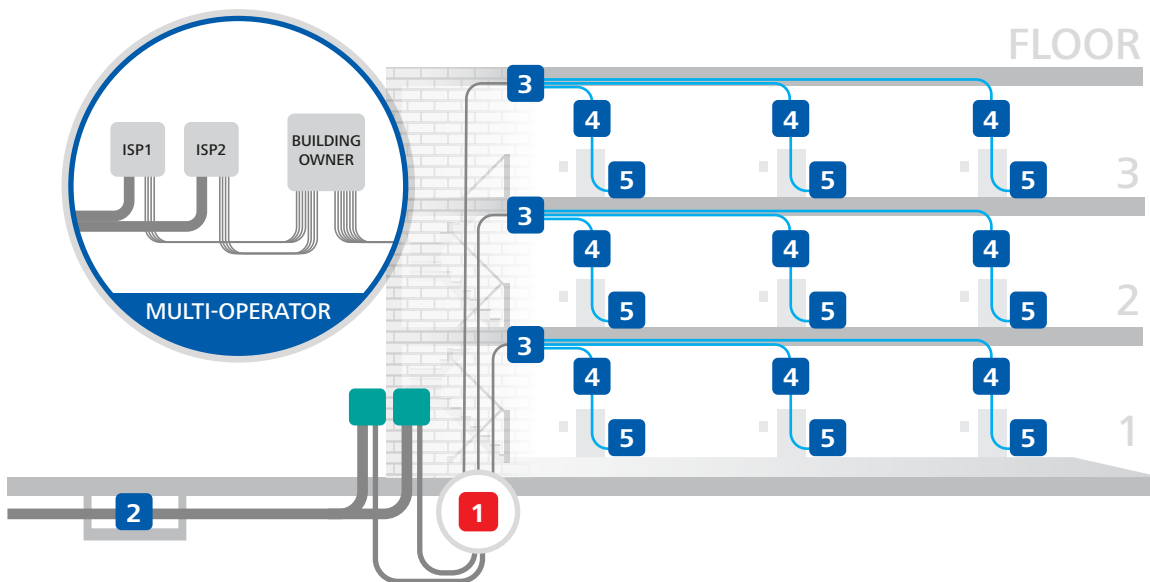
ENCLOSURES

- | | |
|---|---|
| 1 MDU-S5C with connector module | 3 ICB
Internal corridor box |
| 2 AFN / FFE
Aerial distribution box | 4 FWOA / FWOE / FFO / FFO2.0
Customer wall outlet |

CABLE / DUCT

- | |
|--|
| 4F Incoming cable (bare end) |
| 8F Corridor drop cable (fanout) |
| 1F Fibre cable |

Option 2 - Multi Operator (outside UK)



ENCLOSURES

- | | |
|---|---|
| 1 MDU-S5C with connector module | 4 ICB
Internal corridor box |
| 2 CFN / FDN / FRBU / FST
Underground dome closure | 5 FWOA / FWOE / FFO / FFO2.0
Customer wall outlet |
| 3 MDU-S1XS
Multi customer connection point | ISPs
Service Providers / Operators |

CABLING / DUCT

- | |
|---|
| 48F Incoming with External Duct (SP-G) |
| 24F Internal Duct (SP-I) |
| 12F Internal Duct (SP-I) |
| 1F Fibre Cable |