



### MDU - S3C

#### Fibre Optic Enclosure - Connectorised

#### Application Information

The HellermannTyton S3 Multi-Dwelling Unit (MDU) Enclosure is designed for deploying within the last mile of an FTTX network. The S3 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 S3, the availability of a 24-position accessory for up to 3mm cables makes for a highly versatile enclosure, especially given that they can be installed in up to three 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 64 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 pigtails for when a centralised PON but decentralised connection are the preferred design choice.

Customer separation can be as important in an MDU as any major metropolitan network and the S3 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 S3 fails to deliver.

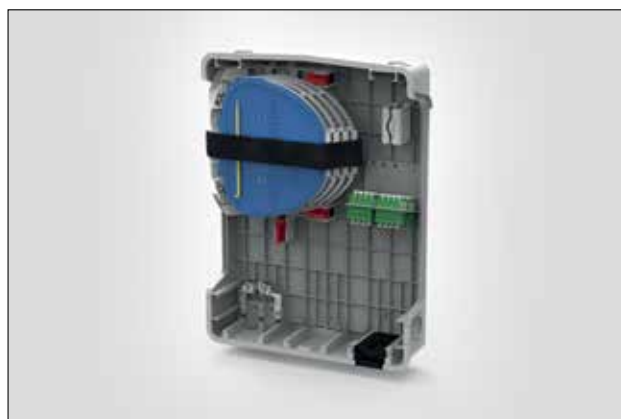
No two MDU environments are the same, and consequently, no two MDU fibre infrastructures have the same design, use the same components or follow the same routes. With this in mind HellermannTyton have created a highly customisable MDU eco-system which include a number of optional accessories and associated products that ensure we have a solution for every situation. These include UV and UL 94 V0 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.

#### Features and Benefits:

- Up to 64 connections
- Indoor/outdoor applications
- Maximum Splice Capacity: 96 (3A or ANT)
- FMS with 4 SE IR trays or 8 SC-B IR trays
- Multi tray orientation configurations (horizontal/vertical)
- 2 or 3 FMS entry points
- 3 modular cable entry/exit ports
- Loop Through Cable Kit with black rubber seals (Ø 3-14mm)
- Extensive range of accessories



MDU-S3C closure with SE-IR MKII splice trays and LC QD ICU connector plate.



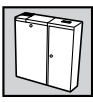
MDU-S3C closure with vertical SE MKII trays and LC QD connector plate.



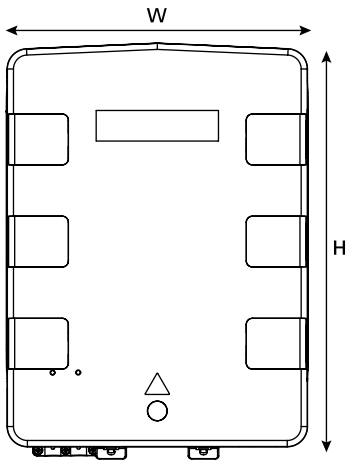
MDU-S3C shown with lid and optional lock.

#### Technical Data

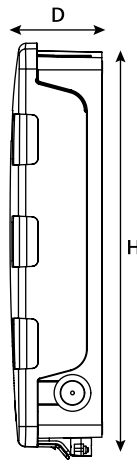
Dimensions (mm)	H	W	D
	340	247	76
IP Rating (Testing for Sealing)	IP54		
Mechanical IK protection	IK08		
Material	Acrylonitrile Butadiene Styrene (ABS)		
Material Properties	UV Stable / UL94 V0		
Colour	Light Grey RAL 7035		
Operating Temperatures	-20°C to +50°C		



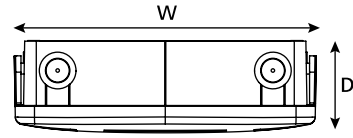
### Technical Diagrams



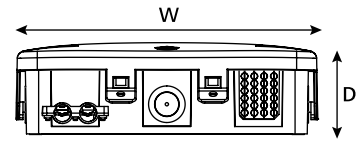
Front view.



Side view.



Top view.



Base view including loop through cable gland kit.

### MDU-S3C Enclosure Accessories



Entry Seals



Single Cable Entry Kit



Loop Through Cable Kit



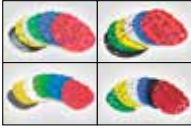
Multi Drop Cable Seals



Drop Cable Anchor Kit



Unique and Generic Lock Options



Fibre Splice Trays



Splitter / Splice Holders



Splitters



Pigtails

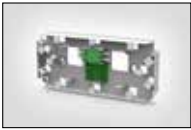


Internal Loop Storage Basket



Rear Mounting Loop Basket

### Associated Products



Internal Corridor Box (ICB)



Fibre Wall Outlet (FWO)



FWO Extension Kit (FWOE)



MDU Cable (Fan Out)



MDU Cable (Bare End)



Internal Duct



MDU S1XS



MDU S1



MDU S2



MDU S2 XL



MDU S4



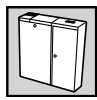
MDU S5



Datasheets and product info

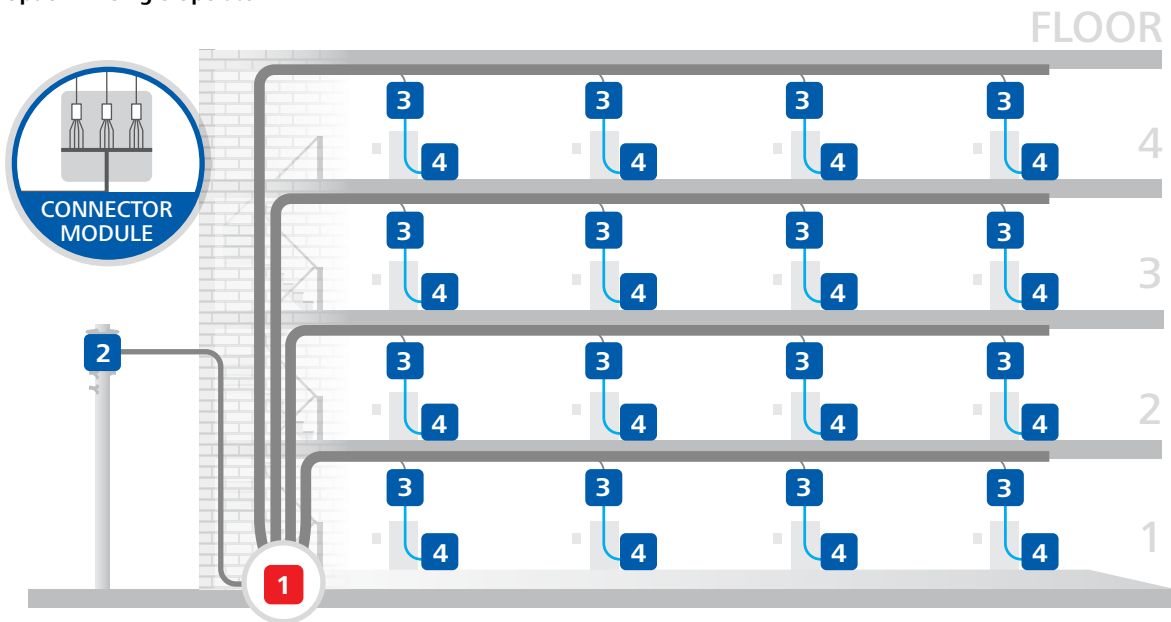
Information about these products can be found online via the QR code or link below.

URL link: [bit.ly/4fMPjMP](http://bit.ly/4fMPjMP)



## S3 Connectorised - Topology

### Option 1 - Single Operator



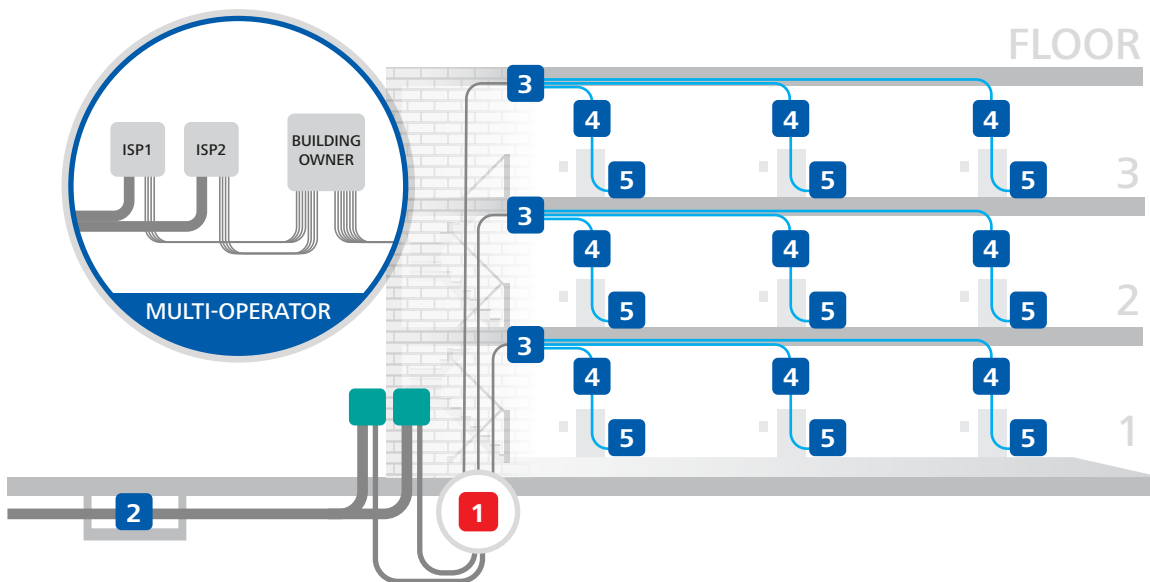
#### ENCLOSURES

<b>1</b> MDU-S3C with connector module	<b>3</b> ICB Internal corridor box
<b>2</b> AFN / FFE Aerial distribution box	<b>4</b> FWOA / FWOE / FFO / FFO2.0 Customer wall outlet

#### CABLE / DUCT

<b>4F</b> Incoming cable (bare end)
<b>8F</b> Corridor drop cable (fanout)
<b>1F</b> Fibre cable

### Option 2 - Multi Operator (outside UK)



#### ENCLOSURES

<b>1</b> MDU-S3C with connector module	<b>4</b> ICB Internal corridor box
<b>2</b> CFN / FDN / FRBU / FST Underground dome closure	<b>5</b> FWOA / FWOE / FFO / FFO2.0 Customer wall outlet
<b>3</b> MDU-S1XS Multi customer connection point	<b>ISPs</b> Service Providers / Operators

#### CABLING / DUCT

<b>48F</b> Incoming with External Duct (SP-G)
<b>24F</b> Internal Duct (SP-I)
<b>12F</b> Internal Duct (SP-I)
<b>1F</b> Fibre Cable