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12.1 Fibre Optic Splice Trays

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Introduction

HellermannTyton offer a wide selection of fibre optic splice trays which are compatible with the variety of closures and enclosures available.

Splice trays from the Hellipse and Integrated Routing (IR) ranges are supplied in packs of six, this excludes the IR-SC trays, which are supplied in a pack of 12. Trays from the Hellapon and Hellamass ranges are supplied in singular units.

All fibre optic splice trays from HellermannTyton (apart from IR-SC and Hellipse NZDF SC-1) can accept a range of fibre optic splice inserts (or splice bridges) which can house different numbers and different types of splice protectors on the trays.

The table below illustrates which splice protector inserts are compatible with which splice trays and also the maximum number of splices each tray can accommodate using that insert.

Tray Type	Heat Shrinkable 2.4mm* (3A)	Crimp (ANT)	Heat Shrinkable 1.6mm* (6A)	4 Fibre Ribbon	12 Fibre Ribbon	Mechanical Splice 40x4x4mm	Maximum Splitter/PON Device Size (mm)
IR Single Element	12	24	18	Please Contact HellermannTyton Sales Desk For Fibre Capacity		8	70 x 20 x 6
IR Single Circuit SC	4	4	-			-	70 x 20 x 6
IR Single Circuit SC-B	12	12	-			-	70 x 20 x 6
Hellapon - Small	12	24	18			8	70 x 20 x 6
Hellapon - Medium	16	24	-			-	
Hellipse NZDF SE-A	12	24	18			8	70 x 20 x 6
Hellipse NZDF SE-B	12	24	18			8	70 x 20 x 6
Hellipse SC-1	8	8	-			-	
Hellipse SMF SE-A	24	-	-			-	
Hellipse SMF SE-B	24	-	-			-	
Hellamass Large	144	288	216			96	70 x 20 x 6

The above fibre splice capacities are calculated on a single stack basis. *Recovered diameter of heat shrinkable splice protectors

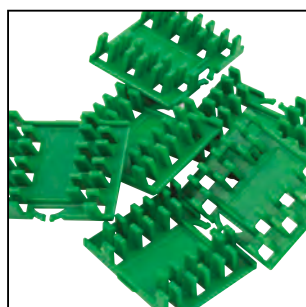
Moulded Splice Fins

3A/PON Insert

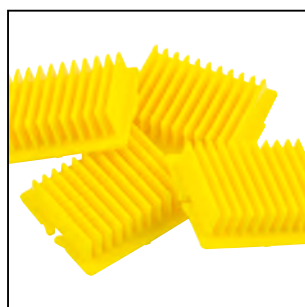
6A Insert

ANT Insert

Ribbon Insert



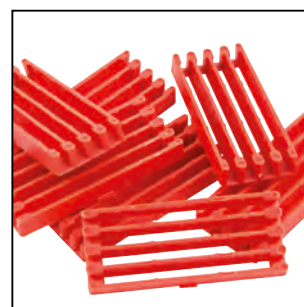
6 Way 3A/PON Insert



12 Way ANT Insert



9 Way 6A Insert



4 Way Ribbon Insert



Integrated Routing Single Element Splice Trays

Features and Benefits

- Positive fibre management minimum bend radius 30mm
- 2 fibre entry ports
- 2 mounting positions for splice inserts
- Optical splitter accommodation up to a maximum of 70 x 20 x 6mm
- Maximum splice capacity of 24 fibres
- Different splice bridge options allow for a splice type of up to 60mm



Single Element IR Tray (6 pk)

Technical Description

The Integrated Routing (IR) single element tray is manufactured from ABS and finished to a high specification to eliminate the risk of snagging or microbends. All retaining tabs on the tray have radius edges and rounded corners where fibre may pass. The overall dimensions of the tray are 148 x 125 x 7mm. The IR single element tray accepts a wide range of splice protector inserts and the maximum splice capacity of the tray is based on 24 double stacked heatshrink (3A) splice protectors up to 60mm long.

The IR single element tray can accommodate an optical splitter up to a maximum of 70 x 20 x 6mm and is suitable for use in the UFC-IR, FDN-IR or FML-IR closures as well as the IR enclosure range.

Technical Data Table

Article-No.	Type	Tray Type	Splice Protector Type	Tray Quantity
857-40258	TRAY-SE-IR-06	IR SE	-	6
857-40257	TRAY-SE-IR-2X3A-06	IR SE	3A	6
857-40255	TRAY-SE-IR-2X4 WAY RIBBON-06	IR SE	Mechanical/Ribbon	6
857-40251	TRAY-SE-IR-2X6A-06	IR SE	6A	6
857-40253	TRAY-SE-IR-2XANT-06	IR SE	Crimp (ANT)	6

Products listed are for standard configurations, other configurations and splice insert types are available - see Page 141



IR Single Circuit

Features and Benefits

- Positive fibre management minimum bend radius 30mm
- 2 fibre entry ports
- Moulded splice holder fins for heatshrink (3A) or Crimp (ANT) splice protectors
- Maximum splice capacity of 4 fibres



Single Circuit IR Tray (12 pk)

Technical Description

The IR single circuit tray is manufactured from ABS and finished to a high specification to eliminate the risk of snagging or microbends. All retaining tabs on the tray have radius edges and rounded corners where fibre may pass. The overall dimensions of the tray are 148 x 126 x 3.5mm.

The IR single circuit tray is suitable for use in the UFC-IR, FDNIR and FML-IR closures as well as the IR enclosure range.

Technical Data Table

Article-No.	Type	Tray Type	Tray Quantity
857-40244	TRAY-SC-IR-12	IR SC	12

Products listed are for standard configurations, other configurations and splice insert types are available - see Page 141



Hellapon Medium Splice Trays

Features and Benefits

- Bend radius 30mm
- 4 fibre entry ports
- Choice of fixed or pivot point mounting available
- Moulded splice fin options for 3A (heatshrink) or Crimp (ANT) splice protectors
- Available without fins for mounting other holder types
- Maximum splice capacity of 16 fibres (3A) or 24 fibres (ANT)



Medium Hellapon Splice Tray - Style A



Medium Hellapon Splice Tray - Style B

Technical Description

The Hellapon medium is a rectangular tray designed for single element applications which is manufactured from ABS and finished to a high specification to eliminate the risk of snagging or microbends. All retaining tabs on the tray have radius edges and rounded corners where fibre may pass. The overall dimensions of the tray are 235 x 96 x 7mm and the maximum splice capacity of 16 fibres is based on heatshrink 3A splice protectors up to 45mm long.

The tray is available in two styles, Style A can be mounted on a fixed support or flexible side hinges for FRBU closures and Style B has side mounted pivots for FML closures. Style A trays are colour coded, white for 3A and yellow for crimp inserts.

Technical Data Table

Article-No.	Type	Tray Type	Splice Protector Type	Tray Quantity
857-40267	TRAY-HMA-3A-01	Hellapon Medium	3A	1
857-40268	TRAY-HMA-ANT-01	Hellapon Medium	Crimp (ANT)	1
857-40269	TRAY-HMB-3A-01	Hellapon Medium	3A	1

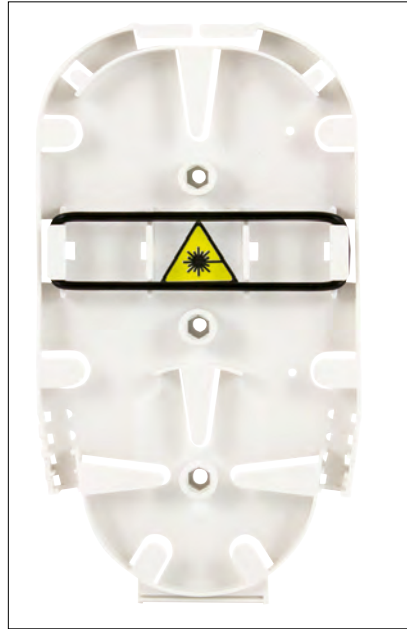
Products listed are for standard configurations, other configurations and splice insert types are available - see Page 141



Hellapon Small Splice Trays

Features and Benefits

- Bend radius 30mm
- 2 fibre entry ports
- 2 mounting positions for splice protector inserts
- Optical splitter accommodation up to a maximum of 70 x 20 x 6mm
- Back to back mounting capability allows routing of fibre between trays
- Maximum splice capacity of 24 fibres
- Splice retaining strap



Hellapon Small Tray

Technical Description

The Hellapon small tray is manufactured from ABS and finished to a high specification to eliminate the risk of snagging or microbends. All retaining tabs on the tray have radius edges and rounded corners where fibre may pass. The overall dimensions of the tray are 158 x 85 x 9mm and the maximum splice capacity of 24 fibres is based on 24 double stacked heatshrink 3A splice protectors up to 60mm long.

The Hellapon small tray accepts a wide range of splice protectors and can accommodate an optical splitter up to a maximum of 70 x 20 x 6mm. The tray can be mounted either on a fixed support or flexible end mounted hinge and is suitable for use in the FST and FRBU closures.

Technical Data Table

Article-No.	Type	Tray Type	Splice Protector Type	Tray Quantity
857-40277	TRAY-HS-01	Hellapon Small	-	1
857-40278	TRAY-HS-3A-01	Hellapon Small	3A	1
857-40279	TRAY-HS-ANT-01	Hellapon Small	Crimp (ANT)	1

Products listed are for standard configurations, other configurations and splice insert types are available - see Page 141



Hellipse NZDF SE-A Splice Trays

Features and Benefits

- Positive fibre management minimum bend radius 37.5mm
- 10 fibre entry ports
- 2 mounting positions for splice protector inserts
- Optical splitter accommodation up to a maximum of 70 x 20 x 6mm
- Back to back mounting capability allows routing of fibre between trays
- Maximum splice capacity of 24 fibres (double stacked)



Hellipse NZDF SE-A Tray

Technical Description

The Hellipse NZDF SE-A is an elliptical tray designed for single element and single circuit applications which is manufactured from ABS and finished to a high specification to eliminate the risk of snagging or microbends. All retaining tabs on the tray have radius edges and rounded corners where fibre may pass. The overall dimensions of the tray are 202 x 148 x 7mm. The Hellipse NZDF SE-A tray accepts a wide range of splice protectors and can accommodate an optical splitter up to a maximum of 70 x 20 x 6mm.

The tray has 2 pivot points to allow for mounting into a 6 tray module and is suitable for use in the FDN or UFC closures. The maximum splice capacity of the Hellipse NZDF SE-A tray is based on 24 double stacked heatshrink (3A) splice protectors upto 60mm long.

Technical Data Table

Article-No.	Type	Tray Type	Splice Protector Type	Tray Quantity
857-40270	TRAY-NZDF-SE-A-06	Hellipse NZDF SE-A	-	6
857-40271	TRAY-NZDF-SE-A-3A-06	Hellipse NZDF SE-A	3A	6
857-40272	TRAY-NZDF-SE-A-ANT-06	Hellipse NZDF SE-A	Crimp (ANT)	6

Products listed are for standard configurations, other configurations and splice insert types are available - see Page 141



Hellipse NZDF SE-B Splice Tray

Features and Benefits

- Positive fibre management minimum bend radius 37.5mm
- 8 fibre entry ports
- 2 mounting positions for splice protector inserts
- Optical splitter accommodation up to a maximum of 70 x 20 x 6mm
- Back to back mounting capability allows routing of fibre between trays
- Maximum splice capacity of 24 fibres



Hellipse NZDF SE-B Tray

Technical Description

The Hellipse NZDF SE-B is an elliptical tray designed for single element and single circuit applications which is manufactured from ABS and finished to a high specification to eliminate the risk of snagging or microbends. All retaining tabs on the tray have radius edges and rounded corners where fibre may pass. The overall dimensions of the tray are 184 x 148 x 7mm and the maximum splice capacity of 24 fibres is based on 24 double stacked heatshrink 3A splice protectors up to 60mm long.

The Hellipse NZDF SE-B tray accepts a wide range of splice protectors and can accommodate an optical splitter up to a maximum of 70 x 20 x 6mm. The tray has 2 pivot points to allow for mounting into a 6 tray module and is suitable for use in the FML closure.

Technical Data Table

Article-No.	Type	Tray Type	Splice Protector Type	Tray Quantity
857-40274	TRAY-NZDF-SE-B-06	Hellipse NZDF SE-B	-	6
857-40275	TRAY-NZDF-SE-B-3A-06	Hellipse NZDF SE-B	3A	6
857-40276	TRAY-NZDF-SE-B-ANT-06	Hellipse NZDF SE-B	Crimp (ANT)	6

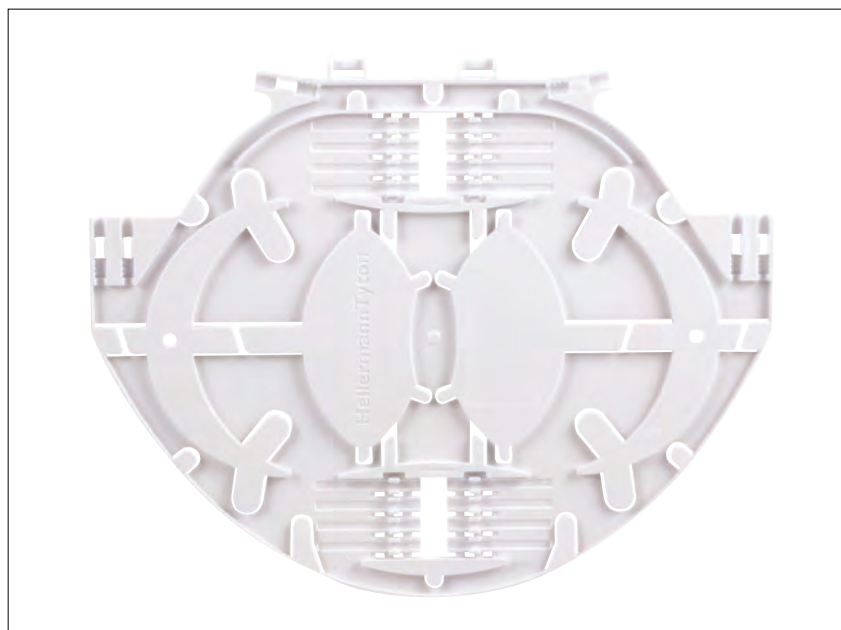
Products listed are for standard configurations, other configurations and splice insert types are available - see Page 141



Hellipse NZDF SC-1 Splice Trays

Features and Benefits

- Positive fibre management minimum bend radius 37.5mm
- 6 fibre entry ports
- Increased tray capacity compared to Hellipse NZDF SE trays
- 2 mounting positions for splice inserts
- Accepts 8 3A (heatshrink) or Crimp (ANT) splice protectors
- Integrally moulded retention feature secures protection tubes
- Maximum splice capacity of 8 fibres



Hellipse Single Circuit Tray (6 pk)

Technical Description

The Hellipse NZDF SC-1 pack consists of the 3 x NZDF SC-1A (white) and 3 x NZDF SC-1B (grey) which are elliptical trays designed for single circuit applications. Both trays are manufactured from ABS and finished to a high specification to eliminate the risk of snagging or microbends. All retaining tabs on the trays have radius edges and rounded corners where fibre may pass. The overall dimensions of the trays are 184 x148 x 3.5mm.

The NZDF SC-1 trays accept 8 x 3A (heatshrink) or 8 x ANT splice protectors. The NZDF SC-1 tray pack is suitable for use in the UFC, FDN or FML closures.

Technical Data Table

Article-No.	Type	Tray Type	Splice Protector Type	Tray Quantity
857-40280	TRAY-NZDF-SC-1-06	Hellipse NZDF SC-1	3A, Crimp (ANT)	6

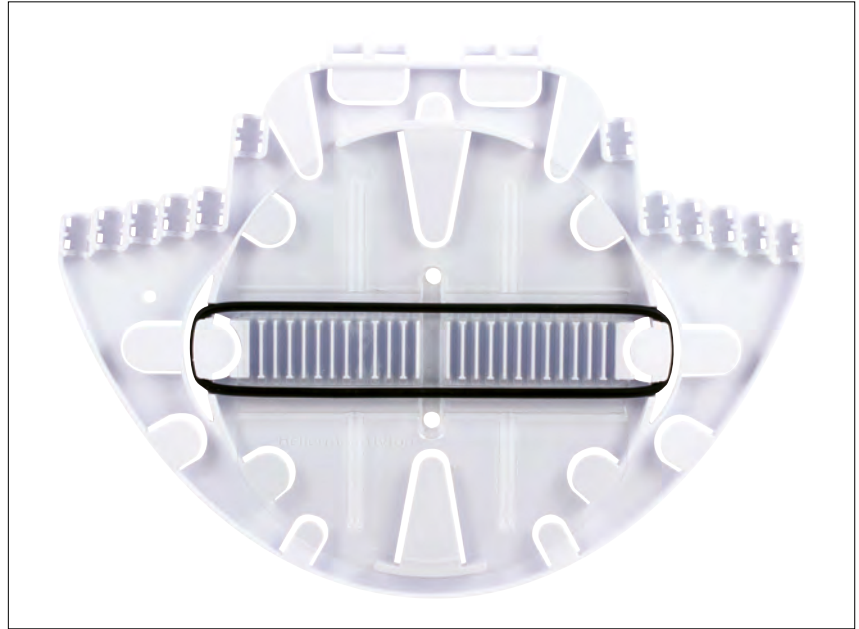
Products listed are for standard configurations, other configurations and splice insert types are available - see Page 141



Hellipse SMF SE-A Splice Tray

Features and Benefits

- Bend radius 30mm
- 12 fibre entry ports
- Moulded splice protector holder which accepts 3A (heatshrink) splice inserts
- Splice retaining strap
- Maximum splice capacity of 24 fibres



Hellipse SMF SE-A Splice Tray

Technical Description

The Hellipse NZDF SMF SE-A is an elliptical tray designed for single element applications which is manufactured from ABS and finished to a high specification to eliminate the risk of snagging or microbends. All retaining tabs on the tray have radius edges and rounded corners where fibre may pass. The overall dimensions of the tray are 195 x 148 x 7mm and the maximum splice capacity of 24 fibres is based on 24 heatshrink 3A splice protectors up to 45mm long.

The Hellipse NZDF SMF SE-A tray has moulded splice protector holders which accept a 3A (heatshrink) splice insert and is suitable for use in the FDN or UFC closures.

Technical Data Table

Article-No.	Type	Tray Type	Splice Protector Type	Tray Quantity
857-40273	TRAY-SMF-SE-A-06	Hellipse SMF SE-A	3A	6

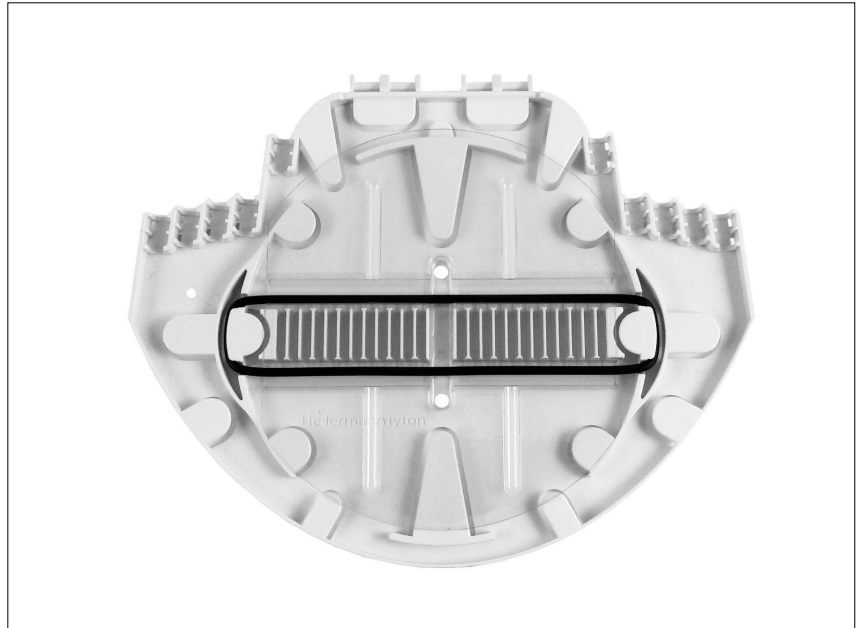
Products listed are for standard configurations, other configurations and splice insert types are available - see Page 141



Hellipse SMF SE-B Splice Tray

Features and Benefits

- Bend radius 30mm
- 10 fibre entry ports
- Moulded splice protector holder which accepts 3A (heatshrink) splice inserts
- Splice retaining strap
- Maximum splice capacity of 24 fibres



Hellipse SMF SE-B Splice Tray

Technical Description

The Hellipse NZDF SMF SE-B is an elliptical tray designed for single element applications which is manufactured from ABS and finished to a high specification to eliminate the risk of snagging or microbends. All retaining tabs on the tray have radius edges and rounded corners where fibre may pass. The overall dimensions of the tray are 182 x 148 x 7mm and the maximum splice capacity of 24 fibres is based on 24 heatshrink 3A splice protectors up to 45mm long.

The Hellipse NZDF SMF SE-B tray has moulded splice protector holders which accept a 3A (heatshrink) splice insert and is suitable for use in the FML closure.

Technical Data Table

Article-No.	Type	Tray Type	Splice Protector Type	Tray Quantity
857-40281	TRAY-SMF-SE-B-06	Hellipse SMF SE-B	3A	6

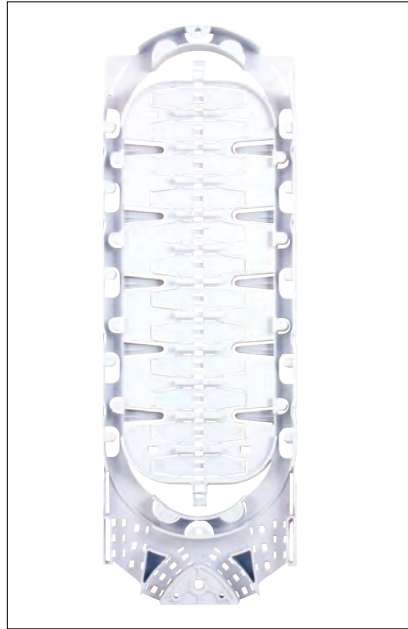
Products listed are for standard configurations, other configurations and splice insert types are available - see Page 141



Hellamass Large Splice Tray

Features and Benefits

- Bend radius of 37.5mm
- 4 large fibre entry ports
- Ports allow fibre entry and exit from the same side
- Facilitates fibre route reversal
- Optical splitter accommodation up to a maximum of 70 x 20 x 60mm
- Fibre storage area on reverse side
- Different splice protector holder options allow for a splice type of up to 60mm in length
- Maximum splice capacity of 144 fibres



Hellamass Large Splice Tray

Technical Description

The Hellamass large is a rectangular double sided tray designed for high fibre count multiple applications which is manufactured from ABS and finished to a high specification to eliminate the risk of snagging or microbends. All retaining tabs on the tray have radius edges and rounded corners where fibre may pass. The tray is supplied with 2 clear plastic cover plates and is mounted using a single pivot point on to a flexible hinge. The overall dimensions of the tray are 440 x 145 x 19mm and the maximum splice capacity of 144 fibres is based on 12 heatshrink 3A splice protector holders fitted to each side of the tray.

The Hellamass large tray it is suitable for use in the FML and UFC closures as well as rack mounted applications.

Technical Data Table

Article-No.	Type	Tray Type	Splice Protector Type	Tray Quantity
857-40304	TRAY-HL-01	Hellamass Large	-	1
857-40302	TRAY-HL-3A-01	Hellamass Large	3A	1
857-40303	TRAY-HL-ANT-01	Hellamass Large	Crimp (ANT)	1

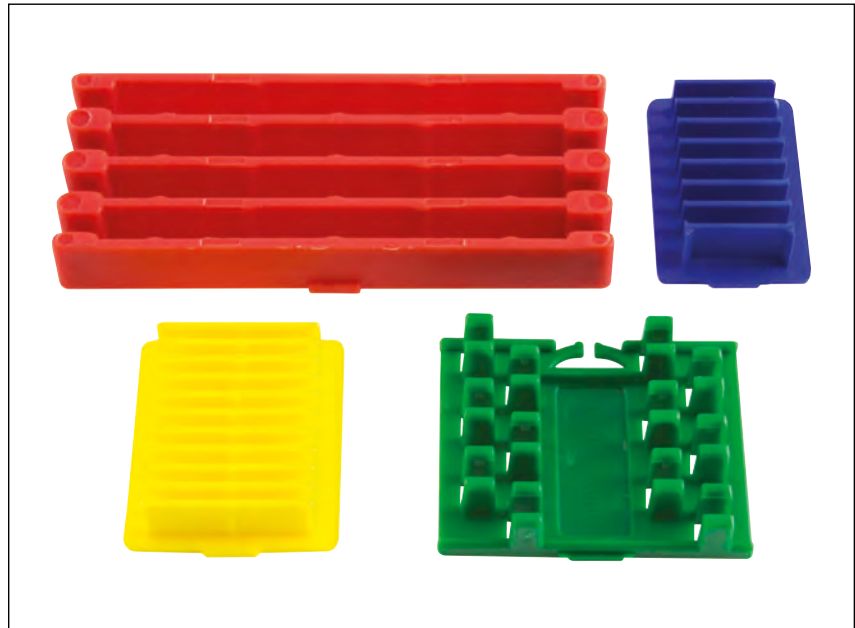
Products listed are for standard configurations, other configurations and splice insert types are available - see Page 141



Splice Protector Holders

Features and Benefits

- Used to secure different types of splice protectors within the splice tray
- 4 options available for the most common applications



Splice Protector Holders

Technical Description

The Splice Protector Holders (Splice Bridges) are colour coded for easy identification and allow for different types of splice protectors in the tray. Inserts are suitable for use with HellermannTyton Hellipse NZDF-SE-A/SE-B, IR SE, Hellapon small and Hellamass large trays. All trays accept 2 splice protector holders excluding the Hellamass large which accepts 12 inserts.

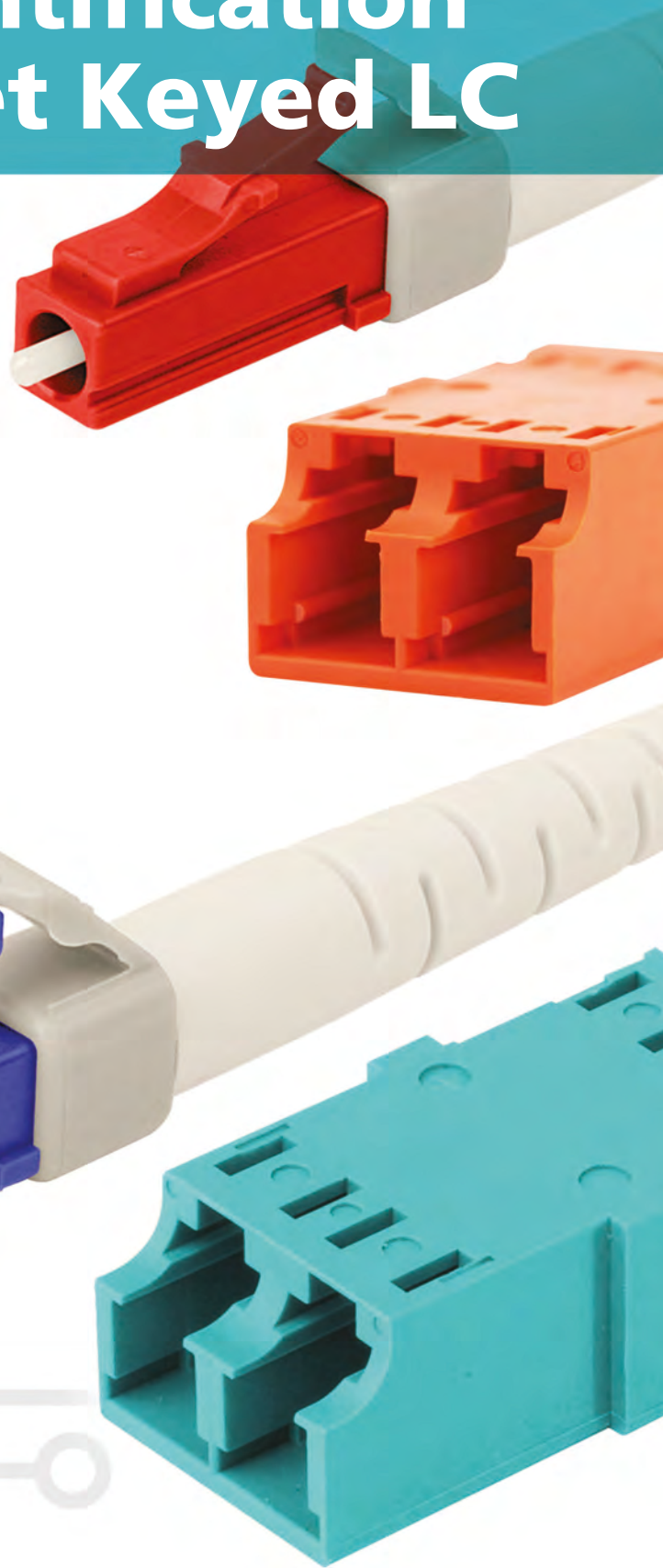
Technical Data Table

Article-No.	Type	Description	Colour	Pack Quantity	Recovered Ø max.
857-40299	BRIDGE-6A	Splice Protector Holder 6A Heatshrink	Blue (BU)	10	1.6
857-40298	BRIDGE-3A	Splice Protector Holder 3A Heatshrink	Green (GN)	10	2.4
857-40300	BRIDGE-CRIMP	Splice Protector Holder Crimp (ANT)	Yellow (YE)	10	-
857-40301	BRIDGE-MECH	Splice Protector Holder Mechanical (Fibre Ribbon)	Red (RD)	10	4.75

All dimensions in mm. Subject to technical changes.

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