HellermannTyton



12.0 Fibre Optic Splice Trays

12.1 Fibre Optic Splice Trays

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12.0 Fibre Optic Splice Trays

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 packs of 12. Trays from the Hellapon and Hellamass ranges are supplied in singular units. Multi-Ribbon trays are supplied in a packs of 3.

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.

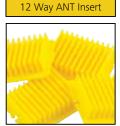
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	Sinale E	Element	Sinale	Circuit	u	Hellamass		Hellapon				Hellipse		
ΙΛΡΕ	. 5				Multi-Ribbon	Hell	Med	lium		SM	ЛF		NZDF	
TRAY TYPE	SE-B	SE	SC-B	SC	IInM	Large	Style C	Style A & Style B	Small	SE-B	SE-A	SC-1	SE-B	SE-A
Heat Shrinkable 2.4mm* (3A)	6	12	12	4	36	144	12/24**	16	12	24	24	8	12	12
Crimp (ANT)	-	24	12	4	-	288	24	24	24	-	-	8	24	24
Heat Shrinkable 1.6mm* (6A)	-	18	-	-	-	216	-	-	18	-	-	-	18	18
8 Fibre Ribbon	-	-	-	-	12	-	-	-	-	-	-	-	-	-
12 Fibre Ribbon	-	-	1	1	12	-	-	-	-	-	-	-	-	-
Splitter/ Ribbon	4	8		_	_	96		_	8		_	_	8	8
Maximum Splitter/PON Device Size (mm)	70 x 20 x 6	70 x 20 x 6	_	_	-	70 x 20 x 6		-	70 x 20 x 6	-	_	-	70 x 20 x 6	70 x 20 x 6

The above fibre splice capacities are calculated on a single stack basis. *Recovered diameter of heat shrinkable splice protectors. ** Hellapon Medium Style C splice capacity achieved when double stacking on a tray.











IR Single Element SE

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 with no inserts



Single Element IR Trays with 3A splice bridges (6 pk)



Single Element IR Trays with ANT splice bridges (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 and IR enclosures.

ТҮРЕ	Tray Type	Splice Protector Type	Tray Quantity	Article-No.
TRAY-SE-IR-2X3A-06	IR SE	3A	6	857-40257
TRAY-SE-IR-2X6A-06	IR SE	6A	6	857-40251
TRAY-SE-IR-2XANT-06	IR SE	Crimp (ANT)	6	857-40253
TRAY-SE-IR-2X4 WAY RIBBON-06	IR SE	Splitter/Ribbon	6	857-40255
TRAY-SE-IR-06	IR SE	Not supplied	6	857-40258

IR Single Circuit SC

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



Single Circuit IR Splice Trays (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 148×126

x 3.5mm.

The IR single circuit tray is suitable for use in the UFC-IR, FDN-IR and FML-IR closures and IR enclosures.

ТҮРЕ	Tray Type	Splice Protector Type	Tray Quantity	Article-No.
TRAY-SC-IR-12	IR SC	3A, Crimp (ANT)	12	857-40244



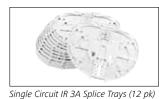
IR Single Circuit SC-B

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 12 fibres



Single Circuit IR 3A Splice Tray







Technical Description

The Integrated Routing (IR) single circuit SC-B trays 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 x3.5mm. The tray is available in two styles which accept either 3A or ANT/Crimp splice protectors.

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

ТҮРЕ	Tray Type	Splice Protector Type	Tray Quantity	Article-No.
TRAY-SC-B-IR-2X3A-12	IR SC-B	3A	12	857-40335
TRAY-SC-B-IR-2XANT-12	IR SC-B	Crimp (ANT)	12	857-40336

IR Single Element Splitter SE-B

Features and Benefits

- Positive fibre management minimum bend radius 30mm
- · 2 fibre entry ports
- Supplied with heatshrink (3A) and splitter (mechanical/ribbon) bridge inserts
- Black tray colour provides high contrast to standard fibre management trays
- Maximum splice capacity of 12 fibres (heatshrink/3A)



Single Element Black Splice Tray



Single Element Black Splice Trays (6 pk)

Technical Description

The Integrated Routing (IR) single element splitter tray is manufactured from black 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 splitter tray is supplied with a 4 way mechanical/ribbon fibre bridge at

the front and a 3A heatshrink (3A) bridge at the rear. The maximum splice capacity of the tray is 12 fibres based on 12 double stacked heatshrink (3A) splice protectors up to 60mm long. The IR single element splitter trays is suitable for use in the UFC-IR, FDN-IR and FML-IR closures and IR enclosures.

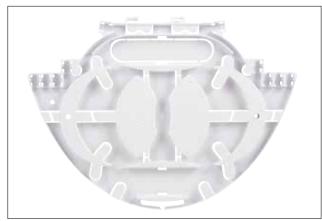
ТҮРЕ	Tray Type	Splice Protector Type	Tray Quantity	Article-No.
TRAY-BK-SE-B-IR-RB/3A-06	IR SE/BK	3A, Splitter/Ribbon	6	857-40342



Hellipse NZDF SE-A

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 Splice Tray with no inserts



Hellipse Tray with 3A splice bridges (6 pk)



Hellipse NZDF SE-A Tray with ANT splice bridges (6 pk)

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 $70 \times 20 \times 6$ mm.

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 tubed 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.

ТҮРЕ	Tray Type	Splice Protector Type	Tray Quantity	Article-No.
TRAY-NZDF-SE-A-3A-06	Hellipse NZDF SE-A	3A	6	857-40271
TRAY-NZDF-SE-A-ANT-06	Hellipse NZDF SE-A	Crimp (ANT)	6	857-40272
TRAY-NZDF-SE-A-06	Hellipse NZDF SE-A	Not supplied	6	857-40270

Hellipse NZDF SE-B

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 with no inserts



Hellipse Tray with 3A splice bridges (6 pk)



Hellipse NZDF-SE-B Tray with ANT splice bridges (6 pk)

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 tubed closures.

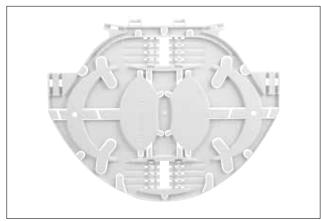
ТҮРЕ	Tray Type	Splice Protector Type	Tray Quantity	Article-No.
TRAY-NZDF-SE-B-3A-06	Hellipse NZDF SE-B	3A	6	857-40275
TRAY-NZDF-SE-B-ANT-06	Hellipse NZDF SE-B	Crimp (ANT)	6	857-40276
TRAY-NZDF-SE-B-06	Hellipse NZDF SE-B	Not supplied	6	857-40274



Hellipse NZDF SC-1

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 Splice Tray (White shown)





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Hellipse Single Circuit Splice Tray (Grey

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 tubed closures.

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

Broadband Connectivity Products

Splice Trays

Tubed Fibre Optic Splice Tray

Hellipse SMF SE-A

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



Hellipse SMF Tray (6 pk)

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 tubed closure.

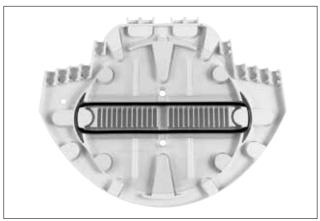
ТҮРЕ	Tray E Type		Tray Quantity	Article-No.
TRAY-SMF-SE-A-3A-06	Hellipse SMF SE-A	3A	6	857-40273



Hellipse SMF SE-B

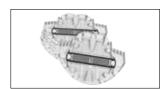
Features and Benefits

- 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

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Hellipse SMF SE-B Splice Tray (6 pk)

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 tubed closure.

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

Multi-Ribbon

Features and Benefits

- Positive fibre management minimum bend radius 35mm
- 4 fibre entry ports
- Moulded splice holder fins for 8 or 12 fibre ribbon cable or 3A (heatshrink) splice protectors
- Maximum splice capacity of 12 (8 or 12 fibre) ribbon cable or 36 fibres (3A)



Multi-Ribbon Splice Tray



Multi-Ribbon Splice Tray (3 pk)

Technical Description

The Multi-Ribbon tray is an elliptical 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 and microbends. All retaining tabs have radius edges and rounded corners where fibre may

pass. The overall dimensions of the tray are $182 \times 148 \times 14$ mm. Each Multi-Ribbon tray accepts 12×12 or 8 fibre ribbon cable or $36 \times 3A$ (heatshrink) splice protectors and is suitable for use with the UFC and FDN tubed closures.

ТҮРЕ	Tray Type	Splice Protector Type	Tray Quantity	Article-No.
TRAY-MR-TB-03	Multi-Ribbon	12 Fibre Ribbon, 8 Fibre Ribbon, 3A	3	857-40345



Hellamass Large

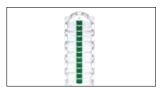
Features and Benefits

- 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



Large Hellamass Splice Tray with no inserts

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Large Hellamass Tray with 3A splice bridges



Large Hellamass Tray with ANT splice

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.

TYPE	Tray Type	Splice Protector Type	Tray Quantity	Article-No.
TRAY-HL-3A-01	Hellamas Large	3A	1	857-40302
TRAY-HL-ANT-01	Hellamas Large	Crimp (ANT)	1	857-40303
TRAY-HL-01	Hellamas Large	Not supplied	1	857-40304
TIGHT HE OT	Tienamas Large	I was supplied	<u>'</u>	037 40304

Hellapon Medium

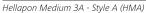
Features and Benefits

- Bend radius 30mm
- · 4 fibre entry ports
- Choice of fixed or pivot point mounting available
- Various styles of tray which accept 3A or ANT/Crimp splice protectors
- Option for optical splitter/3A or ANT splice bridge
- Available without fins for mounting other holder types



Hellapon Medium - Style C with 3A bridges and ANT bridges (HMC)







Hellapon Medium - Style B (HMB)

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 24 x 3A (double stacked) splice protectors up to 60mm long (Style C) or 16 x 3A splice protectors up to

45mm long (Style A).

The tray is available in three styles, Style C which accepts either a standard HellermannTyon 3A, ANT/Crimp and the optical splitter/3A or ANT splice bridge and can accommodate 2 x 60mm x 7mm x 4mm optical splitters. Style A has moulded splice fins (3A or ANT/Crimp) both of which can be mounted on a fixed support or flexible side hinges for FRBU tubed 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.

ТҮРЕ	Tray Type	Splice Protector Type	Tray Quantity	Article-No.
TRAY-HMA-3A-01	Hellapon Medium	3A	1	857-40267
TRAY-HMB-3A-01	Hellapon Medium	3A	1	857-40269
TRAY-HMC-3A-01	Hellapon Medium	3A	1	857-40353
TRAY-HMA-ANT-01	Hellapon Medium	Crimp (ANT)	1	857-40268
TRAY-HMC-ANT-01	Hellapon Medium	Crimp (ANT)	1	857-40354



Broadband Connectivity Products Splice Trays

Tubed Fibre Optic Splice Tray

Hellapon Small

Features and Benefits

- Bend radius 30mm
- 2 fibre entry ports
- 2 mounting positions for splice protector inserts
- Option for optical splitter/3A or ANT splice bridge
- 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



Small Hellapon Splice Tray with no inserts



Small Hellapon Tray with 3a splice bridges



Small Hellapon Tray with ANT splice

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 2 x 60 x 70 x 4mm optical splitters when using the optional splitter/3A or ANT splice bridge. A single optical splitter up to a maximum of 70 x 20 x 6mm can be fitted into the tray in place of a splice bridge. 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 tubed closures.

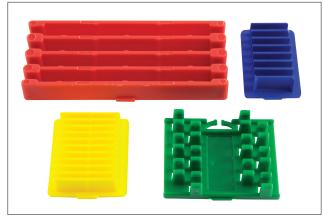
ТҮРЕ	Tray Type	Splice Protector Type	Tray Quantity	Article-No.
TRAY-HS-3A-01	Hellapon Small	3A	1	857-40278
TRAY-HS-ANT-01	Hellapon Small	Crimp (ANT)	1	857-40279
TRAY-HS-01	Hellapon Small	Not supplied	1	857-40277

Accessories

Splice Protector Holders

Features and Benefits

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



Splice Protector Holders (assortment shown)

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 and Hellapon Medium (Style C)/Small and Hellamass

Large trays. The optical splitter splice bridges will accept 2 x 60 x 7 x 4mm optical splitters plus 2 3A or ANT splices. All trays accept 2 splice protector holders excluding the Hellamass Large which accepts 12 inserts.

TYPE	Description	Colour	Pack Content	Recov. Ø d max.	Article-No.
BRIDGE-3A	Splice Protector Holder 3A Heatshrink	Green (GN)	10	2.4	857-40298
BRIDGE-6A	Splice Protector Holder 6A Heatshrink	Blue (BU)	10	1.6	857-40299
BRIDGE-CRIMP	Splice Protector Holder Crimp (ANT)	Yellow (YE)	10	-	857-40300
BRIDGE-MECH	Splice Protector Holder Splitter/Ribbon	Red (RD)	10	4.75	857-40301

All dimensions in mm. Subject to technical changes.



Accessories

Tray Markers

Features and Benefits

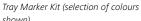
- · Aids tray identification
- · Quick and simple to fit
- 6 different colours per pack



Tray Marker Kit

Broadband Connectivity Products







Tray Marker Kit (shown on trays)

Technical Description

A set of 36 tray markers in 6 different colours - Black, Blue, Green, Orange, Violet and Yellow which are suitable for use with the HellermannTyton NZDF SE-A and SE-B trays. The coloured markers are made from silicone and fit onto the front of the tray to allow for easy identification.

TYPE	Description	Pack Content	Quantity per	Article-No.
TM-NZDF-SE-36	Tray Markers	36	bag	857-40355

All dimensions in mm. Subject to technical changes.

Accessories

Adhesive Tray Markers

Features and Benefits

- · Aids tray identification
- Suitable for use with the full range of HellermannTyton Trays
- Quick and simple to fit
- 6 different colours



Adhesive Tray Markers





Adhesive Tray Marker shown on tray

Adhesive Tray Markers

Technical Description

A set of 60 vinyl adhesive tray markers in 6 different colours - Black, Blue, Green, Orange, Red and Yellow. The $14 \text{mm} \times 4 \text{mm}$ coloured

markers are made from vinyl adhesive and are suitable for use with the full range of HellermannTyton trays.

TYPE	Pack Content	Quantity per	Article-No.
TM-14X4-60	60	bag	857-40363

All dimensions in mm. Subject to technical changes.

