IR Single Element Splitter SE-B with PLC Fibre Splitter

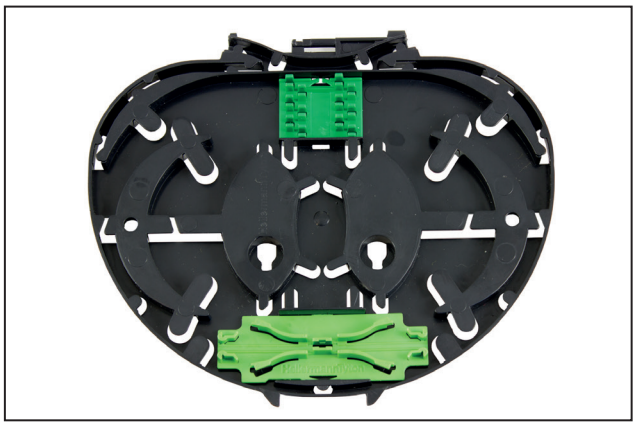
250µm Bare End Input to 250µm Bare End Output

Application/Product Description

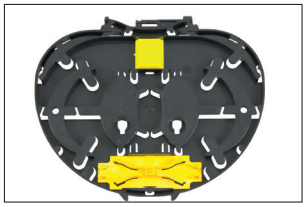
The Integrated Routing (IR) single element splitter tray is manufactured from black ABS and finished to a high specification to eliminate the risk of snagging or microbends. All retaining tabs on the tray have radius edges and rounded corners where fibre may pass. The overall dimensions of the tray are 148 x 125 x 7mm. The IR single element splitter tray is supplied with an optical splitter/3A or ANT splice bridge at the front, which will accommodate 2 x 60 x 7 x 4mm optical splitters, and a 3A or ANT bridge at the rear. The maximum splice capacity of the tray is 14 fibres based on 14 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.

The HellermannTyton Bare End to Bare End Planar Lightwave Circuit (PLC) Splitters are based on Plasma Chemical Vapour Disposition (P-CVD) technology and its patented fabrication process for providing stable optical characterisation.

The HellermannTyton splitter exceeds the performance requirements specified by Telcordia GR-1221-Core, GR-1209-Core and IEC 61753-031.



IR Single Element Splitter SE-B 3A Tray



IR Single Element Splitter SE-B ANT Tray

1 x 4 PLC Splitter

Fibre Splice Tray Characteristics

Mechanical Specification		
Dimensions (mm)	Height	125
	Width	148
	Depth	7
Material	Acrylonitrile Butadiene Styrene (ABS)	
Tray Type	IR Single Element Splitter SE-B	
Max. Splice Capacity	14 (double stacked)	

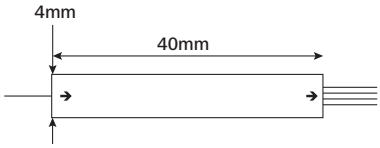
Subject to technical changes.

Splitter Performance Characteristics

Parameters		**1 x 4**	**1 x 8**	**1 x 16**	**1 x 32**
Operating Wavelength (nm)	1260 ~ 1650				
Insertion Loss (dB)	Specified (Max)	≤7.0	≤10.5	≤13.8	≤17.0
	Typical	6.83	9.72	13.21	16.14
Loss Uniformity (dB)	Specified (Max)	≤0.5	≤0.8	≤1.0	≤1.2
	Typical	0.05	0.14	0.55	0.88
Return Loss (dB)	Specified (Max)	≥55			
	Typical	≥55			
PDL (dB)	Specified (Max)	≤0.15	≤0.2	≤0.25	
	Typical	0.05	0.07	0.1	0.09
Directivity	Specified (Max)	≥55			
	Typical	≥55			
Operating Temperature ˚C	-40 to +85				
Storage Temperature ˚C	-40 to +85				
Operating Humidity %RH	≤93				
Storage Humidity %RH	≤93				

Diagram

Top view of 1 x 4



Splitter Standards

- IEC 61753-031
- GR-1221 Core
- GR-1209 Core

Mechanical Specification		1 x 4	1 x 8	1 x 16	1 x 32
Dimensions (mm)	Length	40		47	
	Width	4		7	
	Depth	4		4	
Case Material	Stainless Steel				
Fibre Type	G657 A1				
Input Fibre Type	250µm individual fibre				
Input Fibre Length (mm)	1500 (+50/-0)				
Output Fibre Type	250µm individual fibres				
Output Fibre Length (mm)	1500 (±50/-0)				
Connector Type In	None				
Connector Type Out	None				

*Note: Value of parameters shown at room temperature.

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