USC Splitter Module

Features & Benefits

- Designed for the PPC Optiscale Splitter Housing Chassis
- Low insertion loss
- Ultra-broadband performance (1260-1650nm)
- Low Polarization DependantLoss (PDL) and Polarization Mode Dispersion (PMD)
- 1 or 2 input channels and up to 16 output channels
- Available with all type of connectors
- Compact design
- Fast and easy front access to all splitter leads
- Solid steel module construction from powder coated CRCA
- Ultra-High Density
- Capacity of up to 96 PON connections with one 2:16 splitter (other combinations possible)
- Two splitters per MSH (Mini Splitter Housing) possible, maximum 12 splitters and max. 96 output channels per module

Overview

The 'pre-configured' and 'installation-ready' PPC USC Splitter Module can easily be inserted and fixed from the front with a snap mechanism (no tools required). This creates an extremely practical and tidy installation with fast and easy front access to all splitter leads and allows up to 96 PON connections. The modules are freely configurable with different splitter/connector combinations and tail lengths.

The PPC Planar Lightwave Circuit (PLC) Splitters are manufactured using silica glass waveguide circuits and extremely precise alignment of optic fibers in very small package. They split or combine light from incoming fibers to multiple numbers of outgoing fibers. They perform uniformly over a wide spectral range, with ultra-low losses.

Technical Data

Examples (freely configurable with different splitter/connector combinations and tail lengths):

Fiber capacity	USC splitter module type
12 PON connections	maximum 6 pieces 1:2 splitters
24 PON connections	maximum 6 pieces 1:4 or 12 pieces1:2 splitters
48 PON connections	maximum 6 pieces 1:8 or 12 pieces1:4 splitters
96 PON connections	maximum 6 pieces 2:16 or 12 pieces1:8 splitters

Mechnical Data

Operatin wavelength	Return loss	Directivity
nm	dB	dB
1260 ~ 1650	≥50	≥55

Operating / storage temp	Maximum input power	Fiber type
°C	mW	dB
-40 ~ + 85	500	SM G.652.D, G.657.A1, G.657.A2

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Insertion Loss	Uniformity	PDL
dB	*dB*	*dB*
1x2: 3,8; 1x4: 7,2; 1x8: 10,5; 1x16: 13,6	1x2: 0,6; 1x4: 0,8; 1x8: 0,8; 1x16: 1	1x2: 0,2; 1x4: 0,2; 1x8: 0,3; 1x16: 0,3

Wavelength Dependent Loss	Temperature Loss	Connector Loss
dB	*dB*	*dB*
1x2: 0,6; 1x4: 0,8; 1x8: 0,8; 1x16: 1	1x2: 0,5; 1x4: 0,5; 1x8: 0,5; 1x16: 0,5	1x2: 0,3; 1x4: 0,3; 1x8: 0,3; 1x16: 0,3

Environmental Data

Operating temperature	2011/65/EC RoHS	Environmental protection
°C		
-10 to +60	Fully compliant	IP20, indoor use only

Ordering Information

Example

UP	6	2	C	S	U	0	L	A	2	3 0 3 0	1	G Y
	1	2	3	4	5	6	7	8	9	10	11	12

1 Quantity Mini-Splitters

0 = none
1 = 1
6 = 6 (Standard)

2 Mini-Splitter Configuration

00 = None
1A = 1x1:2 Splitter
1B = 1x1:4 Splitter
1C = 1x1:8 Splitter
1D = 1x1:16 Splitter
2A = 2x1:2 Splitter
2B = 2x1:4 Splitter
2C = 2x1:8 Splitter
1G = 1x2:2 Splitter
1H = 1x2:4 Splitter
1I = 1x2:8 Splitter
1J = 1x2:16 Splitter
2G = 2x2:2 Splitter
2H = 2x2:4 Splitter
2I = 2x2:8 Splitter

3 Input Connector type

0 = None
S = SC
L = LC
E = E2000

4 Input Connector end face

0 = None
U = UPC
A = APC

5 Input Connector Tab

0 = Standard no Tab
2 = Push-Pull Tab Fitted

6 Output Connector type

nn = Please refer to 3.)

7 Output Connector end face

nn = Please refer to 4.)

8 Output Connector Tab

nn = Please refer to 5.)

9 Input fiber length

00 = none
...
50 = 5.0m

10 Output fiber length

nn = Please refer to 9.)

11 Fiber type

0 = none
1 = G.657.A1
2 = G.657.A2

12 Plate colour

BK = Black
GY = Grey RAL 7035

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