

# WaveSmart®

## HD Splitter



### Application

High density splitter for the FieldSmart® Makwa Fiber Distribution Hub (FDH) and FieldSmart Fiber Deliver Point (FDP) 144 Port PON in Pedestal.

### Description

The WaveSmart High Density (HD) Splitter is designed to work with the FieldSmart Makwa platform. Consistent with a simple yet innovative design methodology, the WaveSmart High Density (HD) Splitter utilizes a 75% smaller package over earlier designed splitter packages.

The WaveSmart High Density Splitter uses 900  $\mu\text{m}$  jacketed legs and offers superb fiber management. Clearfield® utilizes a special outdoor rated material that not only helps control thermal expansion and contraction, but goes one step further and remains flexible at extreme temperatures down to  $-40^{\circ}\text{F}$ . By making it easier to handle, there is less chance that the fiber will be routed incorrectly or that damage will occur during this process.

The Optical Staging Plate, the industry's highest density product supporting ruggedized splitters in hardened environments, maximizes space for placing the optical fiber splitter legs of cabinet splitters where real estate is at a premium. Designed with performance in mind, the highly dense WaveSmart Optical Staging Plate allows for quick install and removal of splitter legs using adapters that support quick "Red Light" port testing or identification.



### Features and Benefits

#### Integrity

- RUS listed
- Terminations are designed and tested to Telcordia GR-326
- 100% performance tested for insertion loss/return loss and final mechanical inspection
- Optical component configuration use devices that are compliant to Telcordia GR-1221/1209

#### Protection

- WaveSmart's High Density Splitter package protects the Planar Lightwave Circuit in all environments
- Inputs and outputs protected using high quality 900  $\mu\text{m}$  up-jacket

#### Access

- Individual splitters come preloaded in staging plate for easy access and turn-up
- Each leg is 27" (685.80 mm) to reach anywhere in the Makwa
- Each leg labeled for easy identification
- Red jacket on input leg

#### Investment

- Splitter package supports one 1 x 32, two 1 x 16 or four 1 x 8 configurations without penalty in real estate or port counts
- "Grow-as-you-go" - only buy splitters as customer take rates increase
- SC/UPC or SC/APC connectors

### Technical Specifications

WaveSmart HD Splitters	
Dimensions	85 mm L x 35 mm W x 6 mm H
Core Size and Type	Singlemode (G.657.A)
Leg Length	27" (685.80 mm)
Jacket O.D.	900um
Connector Types	SC/UPC, SC/APC
Splitter Types	1 x 32, 1 x 16, 1 x 8, 1 x 4
Operating / Storage Temp	-40°C to 85 (-40°F to 185°F)

### Performance Specifications

Splitter Type	1 x 32	1 x 16	1 x 8	1 x 4
Insertion Loss	< 16.8 dB	< 13.8 dB	< 10.8 dB	< 7.5 dB
Return Loss	> 50 dB	> 50 dB	> 50 dB	> 50 dB
PDL	< 0.3 dB	< 0.3 dB	< 0.3 dB	< 0.3 dB
Uniformity	< 1.7 dB	< 1.2 dB	< 0.8 dB	< 0.3 dB
Directivity	> 55 dB	> 55 dB	> 55 dB	> 55 dB
Wavelength Range (nm)	1260 – 1650	1260 - 1650	1260 - 1650	1260 - 1650

### Configured Part Numbers

K E \_\_\_\_ - \_\_\_\_ A A

Select (qty)/Split Ratio

1 = (1) 1x32      7 = (4) 1x8  
 2 = (2) 1x16      8 = (1) 1x4  
 3 = (2) 1x8      9 = (2) 1x4  
 4 = (1) 1x16      A = (4) 1x4  
 5 = (1) 1x8      G = (8) 1x4  
 6 = (3) 1x8

Select Connector Style

A = SC/UPC  
 C = SC/APC