

# WaveSmart®

## Premium Ruggedized Splitter



### Application

Ruggedized Splitter for outside plant cabinet environments.

### Description

The Clearfield® WaveSmart Premium Ruggedized Splitter is the standard splitter component in its line of FieldSmart® FSC OSP Cabinets. The splitter addresses environmental and human handling issues that other standard splitters in the industry cannot combat. It provides improved fiber protection, management and maintenance in OSP FTtx deployments.

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 uses devices that are compliant to Telcordia GR 1221/1209

#### Protection

- Ruggedized jacket material of input and output legs provide superior flexibility in temperatures ranging from -55°C to 85°C (-67°F to 185°F)
- Legs will not sag or wilt at extreme temperatures or during extreme temperature cycles
- 20 year warranty

#### Access

- Splitters legs come preloaded in staging plate for easy access and turn-up
- Fiber separators every 17" (431.80 mm) to easily recognize and prevent twisting of fiber legs
- Each leg is 51" (1295.40 mm) long and able to reach any port
- Each leg labeled for easy identification
- Red boot on input leg

#### Investment

- Splitter package supports one 1 x 64, 1 x 32, two 1 x 16 or four 1 x 8 configurations without penalty in real estate or port counts
- Splitters can be used in:
  - FieldSmart 288, 432, 576 and 1,152 PON Cabinets
  - FieldSmart Wall Boxes
  - FieldSmart 96 port PON-in-Ped
  - FieldSmart Inside Plant PON Insert
- "Grow-as-you-go" - only buy splitters as customer take rates increase
- SC/UPC, SC/APC, LC/UPC or LC/APC connectors

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### Technical Specifications

WaveSmart Premium Ruggedized Splitters	
Dimensions	100 mm L x 80 mm W x 10 mm H
Core Size and Type	Singlemode (G.657.A)
Leg Length	51" (1295.40 mm)
Jacket O.D.	2.0mm
Connector Types	SC/UPC, SC/APC, LC/UPC, LC/APC
Splitter Types	1 x 64, 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 64	1 x 32	1 x 16	1 x 8	1 x 4
Insertion Loss	< 20.6dB	< 16.8 dB	< 13.8 dB	< 10.8 dB	< 7.5 dB
Return Loss	> 50 dB	> 50 dB	> 50 dB	> 50 dB	> 50 dB
PDL	< 0.3dB	< 0.3 dB	< 0.3 dB	< 0.3 dB	< 0.3 dB
Uniformity	< 1.8dB	< 1.7 dB	< 1.2 dB	< 0.8 dB	< 0.3 dB
Directivity	> 55dB	> 55 dB	> 55 dB	> 55 dB	> 55 dB
Wavelength Range (nm)	1260 – 1650	1260 – 1650	1260 - 1650	1260 - 1650	1260 - 1650

### Configured Part Numbers

K C      -      A A

**1**

**2**

**1** Select (Qty) / Split Ratio

- 1 = (1) 1 x 32      7 = (4) 1 x 8
- 2 = (2) 1 x 16      8 = (1) 1 x 4
- 3 = (2) 1 x 8        9 = (2) 1 x 4
- 4 = (1) 1 x 16      A = (4) 1 x 4
- 5 = (1) 1 x 8        D = (1) 1x64
- 6 = (3) 1 x 8

**2** Select Connector Style

- A = SC/UPC
- C = SC/APC
- E = LC/UPC
- G = LC/APC