

OptiTect® Local Convergence Cabinet, LS Series

CORNING

Features and Benefits

Multiple pad- and pole-mount configurations

Provide operator with maximum deployment flexibility

Unique grounding system

Provides a single point outside the cabinet to isolate and tone cables in the cabinet

Field-replaceable shell

Allows operator to replace outer hardware without interrupting services

Factory-installed, removable brush guard

Provides additional back plane protection

Corning OptiTect® Local Convergence Cabinet, LS Series provides everything necessary to manage up to 864 fibers for an outside plant FTTx application. The OptiTect Local Convergence Cabinet, LS Series is an innovative solution that is the optimal balance between size, density and access. All cabinets share the same intuitive and efficient cable routing and splitter storage. Each cabinet provides superior ergonomics with full front access, resulting in minimal installation time, quick connections and ultimately increased profits.

The OptiTect LS Cabinet was developed with the field craft in mind. In this unique cabinet design, splitter parking and cable toning are simple, providing customers more flexibility and deployment options. All five cabinet sizes (144, 288, 432, 576, 864) offer “pass-through” capabilities for commercial services or other high-bandwidth applications, as well as multiple mounting options to accommodate exclusive below ground and aerial plant installations.

The OptiTect LS Cabinet utilizes quick field placement and parking of splitter modules for a 32-port connector parking clip. Splitters are also easily installed in front-access sliding trays. The best-in-class fiber routing design allows for quick subscriber turn-up and error-free long-term maintenance as the cabinet is loaded to capacity. The labeling scheme is also helpful in providing easy identification of connectors and modules.

One of the many features that the OptiTect Local Convergence Cabinet, LS Series offers is the field-re-



OptiTect Local Convergence Cabinet, 432-Fiber
| Photo HWPSS1794



OptiTect Local Convergence Cabinet, 864-Fiber
| Photo HWPSS1791

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Standards

Design and Test Criteria Cabinets meet applicable sections of Telcordia GR-3125-CORE, GR-63-CORE, GR-449-CORE

Modular splitters meet applicable sections of GR-1209-CORE, GR-1221-CORE

Connectors meet applicable sections of Telcordia GR-326-CORE

Approvals and Listings UL Listed
RDUP (RUS) Listed

placeable shell. This feature allows operators the ability to avoid interrupting service while installing a new cabinet should the shell become damaged or vandalized.



OptiTect Local Convergence Cabinet (swing-out panel and isolated grounding) | Photo FOH353



OptiTect Local Convergence Cabinet, LS Series, 432-Fiber (rear door removed) | Photo FOH354

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Specifications

Design				
	Configuration	Number of Doors Pad	Number of Doors Pole	Color
144 Fiber	Pole or Pad	2 (Front + Back)	1 (Front only)	Almond (Standard)
288 Fiber	Pole or Pad	2 (Front + Back)	1 (Front only)	Almond (Standard)
432 Fiber	Pole or Pad	2 (Front + Back)	1 (Front only)	Almond (Standard)
576 Fiber, Small	Pole or Pad	2 (Front + Back)	1 (Front only)	Almond (Standard)
576 Fiber, Large	Pad only	3 (Front + Back)	N/A	Almond (Standard)
864 Fiber	Pad only	3 (Front + Back)	N/A	Almond (Standard)

Also available in green and brown

Mechanical Characteristics							
	Pole-Mount Height	Pad-Mount Height Includes 6-in Skirt	Width	Depth	Empty Weight (Pole)	Empty Weight (Pad)	Cabinet Skin Weight
144 Fiber	64.8 cm (25.5 in)	80.01 cm (31.5 in)	63.5 cm (25.0 in)	50.5 cm (19.9 in)	29.5 kg (65 lb)	36.3 kg (80.0 lb)	18.0 kg (40.0 lb)
288 Fiber	64.8 cm (25.5 in)	80.01 cm (31.5 in)	63.5 cm (25.0 in)	50.5 cm (19.9 in)	29.5 kg (65.0 lb)	36.3 kg (80.0 lb)	18.0 kg (40.0 lb)
432 Fiber	87.6 cm (34.5 in)	102.87 cm (40.5 in)	63.5 cm (25.0 in)	50.5 cm (19.9 in)	43.1 kg (95.0 lb)	49.9 kg (110.0 lb)	22.6 kg (50.0 lb)
576 Fiber, Small	87.6 cm (34.5 in)	102.87 cm (40.5 in)	63.5 cm (25.0 in)	50.5 cm (19.9 in)	43.1 kg (95.0 lb)	49.9 kg (110.0 lb)	22.6 kg (50.0 lb)
576 Fiber, Large	N/A	102.87 cm (40.5 in)	108.6 cm (42.8 in)	50.5 cm (19.9 in)	N/A	86.6 kg (191.0 lb)	27.2 kg (60.0 lb)
864 Fiber	N/A	102.87 cm (40.5 in)	108.6 cm (42.8 in)	50.5 cm (19.9 in)	N/A	86.6 kg (191.0 lb)	27.2 kg (60.0 lb)

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Splitter Configurations

	Connector Type	Maximum Number of Splitter Modules, 1x64	Maximum Number of Splitter Modules, 1x32 or Dual 1x16	Maximum Number of Splitter Modules, 1x8	Maximum Number of Splitter Inputs	Splitter Output Parking Capacity	Pass Through Capacity
144 Fiber	SC APC or SC UPC	3	5	9	24	128	12
288 Fiber	SC APC or SC UPC	5	9	18	24	128	12
432 Fiber	SC APC or SC UPC	7	14	27	48	192	36
576 Fiber, Small	SC APC or SC UPC	9	18	36	72	192	N/A
576 Fiber, Large	SC APC or SC UPC	9	18	36	72	384	72
864 Fiber	SC APC or SC UPC	14	27	36	72	384	72

Note: Proper splitter module fit, design, and connector/cable integrity are critical to cabinet performance. All listings, approvals, and specifications are based on Corning LS Cabinets used exclusively with Corning LS Splitter modules. Use of any other splitter in the Corning LS Cabinet may result in physical damage to the Corning LS Cabinet. Failure to adhere to these guidelines and use of a splitter other than the Corning LS Splitter in the Corning LS Cabinet will void Corning's warranty on the LS Cabinet.

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Ordering Information

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>						
1	2	3		4	5	6	7		8	9	10	11	12	13	

1 Select cabinet color.
 V = Almond (standard)
 W = Green (special color – call a customer care representative for lead time)
 X = Brown (special color)

2 Select cabinet size.
 D = 144 fiber
 C = 288 fiber
 A = 432 fiber
 E = 576 fiber (large housing)
 F = 864 fiber
 U = 576 fiber (small housing)

3 Select mounting.
 P = Pole (144, 288, 432 and small 576 only)
 A = Pad with 6-in skirt (standard)
 B = Pad with 12-in skirt
See Note 1.

4 Defines connector type.
 S = SC APC (standard)

5 Select input cable size.
 1 = 12 fiber (144 cabinet)
 2 = 24 fiber (standard for 144 and 288)
 4 = 48 fiber (standard for 432)
 7 = 72 fiber (standard for small 576 and 864)

6 Select pass-through cable size.
 0 = No pass-through fiber
 1 = 12 pass-through fibers (144 and 288 only)
 3 = 36 pass-through fibers (432, 576 and 864 only)
 7 = 72 pass-through fibers (large 576 and 864 only)
See Note 2.

7 Select external toning option.
 - = No toning (standard)
 T = Toning box

8 Select feeder/pass-through cable type.
 C4 = SST-Ribbon Dielectric Cable
 U4 = ALTOS Loose Tube Dielectric Cable
 UC = ALTOS Loose Tube Single-Jacket, Single-Armored Cable

9 Select distribution cable configuration.
 1 = One cable (standard)
 2 = Two cables (must be same fiber count, standard for 576 and 864 cabinets)

10 Select feeder and distribution cable length.
 16 = 16 m (50 ft)
 31 = 31 m (100 ft, standard)
 50 = 50 m (164 ft)

11 Select distribution cable type.
 C4 = SST-Ribbon Cable (fiber count up to 216 F)
 U4 = ALTOS Loose Tube Cable (fiber count up to 432 F)
 Q4 = ALTOS Ribbon Dielectric Cable (fiber count 288-432 F)
 UC = ALTOS Loose Tube Single-Jacket, Single-Armored Cable (fiber count up to 432 F)
 Q5 = ALTOS Ribbon Loose Tube Armored Cable

12 Select splitter module quantity.
 0 = None (standard)
 1 = One
 2 = Two

13 Select module type.
 0 = No module (standard)
 A = 1x32
 D = Dual 1x16

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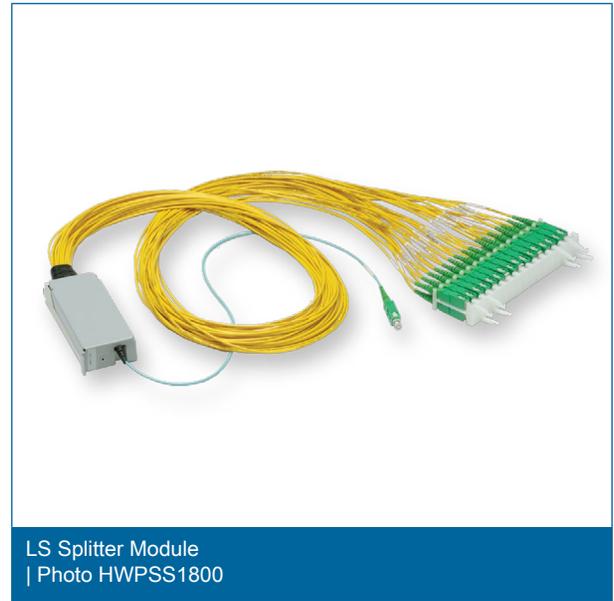
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LS Splitter Modules

The compact yet robust LS Series splitters are available in multiple configurations (1x32, dual 1x16). Each splitter module features small form connectorized inputs and outputs with simple one-step parking.

Features

- First with bend-improved fiber on input and output legs (ITU-T G.657.A compliant)
- Field-proven performance
- Robust housing protects module during installation and throughout product life
- Integrated parking clips installed on connectors
- GR-1209 and GR-1221 qualified
- GR-326 certified connectors



LS Splitter Module
| Photo HWPSS1800

Standard-Performance Devices

	Dimensions (HxWxD)	Insertion Loss, Typical	Insertion Loss, Maximum	Uniformity	Return Loss	Directivity	PDL
1x32 Splitter Module	43 mm x 23 mm x 107 mm (1.7 in x 0.9 in x 4.2 in)	15.7 dB	16.7 dB	1.3	≥ 55 dB	≥ 55 dB	0.3
Dual 1x16 Splitter Module	43 mm x 23 mm x 107 mm (1.7 in x 0.9 in x 4.2 in)	12.8 dB	13.4 dB	1.0	≥ 55 dB	≥ 55 dB	0.3

Insertion loss values provided do not include connectors.

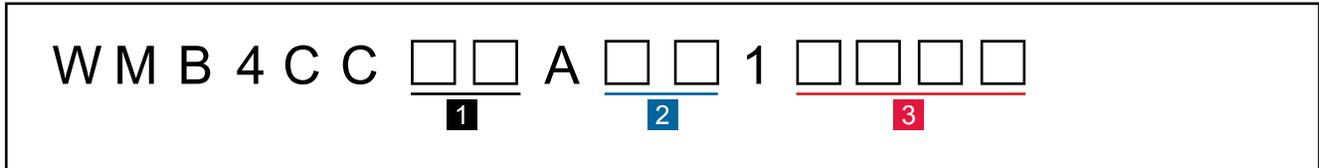
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LS Splitter Modules

Ordering Information



1 Select input connector code.
 6C = SC APC (standard)
 5C = SC UPC
 See Note 1.

2 Select output connector code.
 6C = SC APC (standard)
 5C = SC UPC
 See Note 1.

3 Select coupler/splitter configuration.
 1132 = 1x32 (standard)
 2116 = Dual 1x16 (standard) - two 1x16s in one module
 2018 = Dual 1 x 8 slim module - two 1x8s in one module
 1164 = 1x64

Note: Connector type on the input legs must match the connector type on the output legs.

Part Number Example

Part Number	Product Description	Units per Delivery
WMB4CC6CA6C11132	LS Splitter Module, 1x32	1/1
WMB4CC6CA6C12116	LS Splitter Module, dual 1x16	1/1

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Accessories

Cable Protection Kits		
Part Number	Description	Units per Delivery
FDH-LS-CBLPTPA-288	LS Pole Mount Cable Protection Kit for 288-Fiber LS Cabinets (pole-mount bracket included)	1/1
FDH-LS-CBLPTPA-432	LS Pole Mount Cable Protection Kit for 432-Fiber LS Cabinets (pole-mount bracket included)	1/1
FDH-LS-CBLPTSA-288	LS Side Pole Mount Cable Protection Kit for 144- and 288-Fiber LS Cabinets (side-mount bracket sold separately)	1/1
FDH-LS-CBLPTSA-432	LS Side Pole Mount Cable Protection Kit for 432-Fiber LS Cabinets (side-mount bracket sold separately)	1/1

Mounting Brackets		
Part Number	Description	Units per Delivery
LS-MTNG-KIT-POLE	LS Pole Mount Bracket, Almond	1/1
FDH-LS-POLKIT-SMA1	LS Side Pole Mount Bracket, 144 and 288 LS Cabinets, ALmond	1/1
FDH-LS-POLKIT-SMA2	LS Side Pole Mount Bracket, 432 LS Cabinets, Almond	1/1

LS Cabinet Extension Skirts		
Part Number	Description	Units per Delivery
FDH-LSSKRT-06-ALM	LS Extension Skirt, 6-inch, for 144, 288 and 432 LS Cabinets, Almond	1/1
FDH-LSSKRT-06L-ALM	LS Extension Skirt, 6-inch, for 576 and 864 LS Cabinets, Almond	1/1
FDH-LSSKRT-12-ALM	LS Extension Skirt, 12-inch, for 144, 288 and 432 LS Cabinets, Almond	1/1
FDH-LSSKRT-12L-ALM	LS Extension Skirt, 12-inch, for 576 and 864 LS Cabinets, Almond	1/1

LS Housing Template Kits		
Part Number	Description	Units per Delivery
FDH-LS-TMPLT-432	LS Metal Housing Template Kit for 144, 288 and 432 LS Cabinets	1/1
FDH-LS-TMPLT-864	LS Metal Housing Template Kit for 576 and 864 LS Cabinets	1/1

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Ladder Bracket Kits

Part Number	Description	Units per Delivery
FDH-G3-POLKIT-LMB1	FDH, Ladder Mount Bracket	1/1
FDH-G3-POLKIT-LMB3	FDH, Ladder Mount Bracket, Brown	1/1
FDH-G3-POLKIT-LMG1	FDH, Ladder Mount Bracket, Green	1/1

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