OptiTect® Compact Local Convergence Point (cLCP) Housing

Features and Benefits

Industry-leading compact housing size
Easy handling, low visual impact

Fully configurable internal architecture
Scalable capacity (cost), minimum components for multiple configurations

Multiple mounting options
Mounts aerially (on strand), in pedestals (low-profile and vertical), on poles and walls

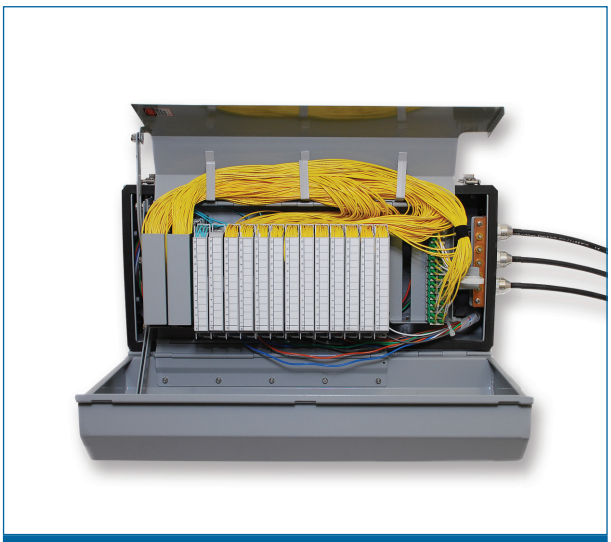
Internal splicing
Cassettes serve as connector panels/splice trays and eliminate external closure and prep costs

Through-splicing
Passes fibers directly to downstream cLCPs and other applications

CWDM platform
Added product versatility

Standards

Telcordia - Meets	Applicable sections of Telcordia GR-3125-CORE and GR-771-CORE
Design and Test Criteria	Splitter modules qualified to Telcordia GR-1209-CORE and GR-1221-CORE



OptiTect Compact Local Convergence Point Housing | Photo TRCLS194

The OptiTect® Compact Local Convergence Point (cLCP) Housing provides optical splitting and fiber management for all-fiber access network (AFAN) applications such as GPON, EPON and RFoG where central and/or distributed splitting architectures are used.

The small size of the cLCP supports single-technician handling for aerial/strand mounting as well as for low-profile and vertical pedestals. In central split architectures, up to 144 subscribers can be supported, while up to 384 subscribers can be supported in distributed split architectures.

The key features of traditional LCP cabinets have been transformed into a smaller and highly versatile package offering many cost-saving features. Internal splicing and connectivity is scalable in increments of 12 fibers to match cost with small and large opportunities. Elements such as optical splitters can be added as the subscriber base grows. For the designer, four basic elements (housing, cassettes, entry and mounting hardware, splitters) create most any configuration. For purchasing and construction, only a few key components need to be stocked and managed.

For the field technician, its small size makes this unit as easy to handle as a closure. Splitter outputs are parked until needed, when intuitive routing makes subscriber connection fast and easy. Everything needed to manage, connect and test subscriber connections face the technician as soon as the cover is opened. While the cLCP is designed for field configuration and capacity

scaling, prestubbed versions are also available. In this approach, the cLCP is fully configured with the desired fiber count and internal connectivity. One or more stub cables are then spliced to feeder and distribution cables to complete the installation.

Specifications

Basic Housing Contents	
Color	Gray or Almond
Housing Width	274 mm with standard latch, 282 mm with padlock latch (10.8 in with standard latch, 11.1 in with padlock latch)
Housing Depth	241.3 mm (9.5 in)
Housing Height	559 mm, 601 mm with cable fittings (22 in, 24 in with cable fittings)
Empty Weight	10 kg (22 lb)
Maximum Number of Splitter Modules 1x32 or dual 1x16	Six (three modules per holder/two module holders included). Splitter holder is compatible with all splitter types offered
Field-configurable Housing	One cLCP housing shell, two splitter module holders, grounding as specified in part number, latch type as specified in part number, and labels for identifying ports/addresses when recording notes. Order cable entry mounting hardware, brackets, cassettes and splitter module separately.
Prestubbed Housing Option	Prestubbed includes everything from the field-configurable housing plus cassettes appropriate for the configuration, choice of SC APC or SC UPC connectors, feeder and distribution cable types and fiber counts, and cable stub length.

* Order optical splitters separately.
* Note: The prestubbed option requires the use of external splice closures (not included) to join the stub cables with network feeder and distribution cables.

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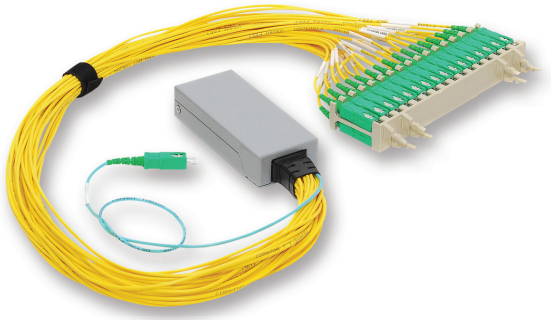
Compact LCP Splitter Modules

Features

- Bend-improved fiber on input/output legs minimize attenuation
- GR-1209 and GR-1221 qualified
- GR-326 certified connectors
- Robust housing protects modules during installation and throughout product life
- **Integrated parking clips installed on connectors** Ready for mounting
- Range of splitter ratios support both central and distributed split architectures from one LCP platform



Compact LCP Splitter Module
| Photo FOH113

Base Housing (configure in the field)

Includes: two splitter holders, grounding and latch as specified.
Order mounting brackets, cable entry hardware, cassettes, splitters, splice tray and accessories separately.

Ordering Information

C □ 0 - 0 0 □ □
1 2 3

1 Select color.
G = Gray
A = Almond
See Note 1.

2 Select isolated grounding.
T = Toning
- = No toning

3 Select latch type.
S = Standard
L = Padlock capable
See Notes 2 and 3.

Notes:
1) Color for shell only. Internal components are all gray.
2) "S" fits vertical 10-in pedestal and "L" requires 12-in vertical pedestal.
3) "L" not available for strand mount.

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Feeder and Distribution Cassettes

Kit contains: One cassette with 12 adapters and pigtails
(6-fiber version available)

Ordering Information

C P □ - □ □ □ □
1 2 3

1 Select cassette type.
D = Distribution
F = Feeder

2 Select connector type.
6C = SC APC (standard)
3C = SC UPC

3 Select adapter count.
06 = Six adapters
12 = 12 adapters

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Splitter Module

Includes: One splitter module, parking clip and packaging

Ordering Information

C M B 1 C C ☐☐ E ☐☐ E ☐☐☐☐

1 2 3

1 Select input connector code.
- 6C = SC APC
- 3C = SC UPC

2 Select output connector code.
- 6C = SC APC
- 3C = SC UPC

See Notes 1 and 2.

3 Select coupler/splitter configuration.
- 1164 = Single 1x64 (standard)
- 1132 = Single 1x32 (standard)
- 2116 = Dual 1x16 (standard)
- 1116 = Single 1x16 (slim)
- 2018 = Dual 1x8 (slim)
- 1018 = Single 1x8 (slim)
- 2014 = Dual 1x4 (slim)
- 1014 = Single 1x4 (slim)
- 2012 = Dual 1x2 (slim)

Note: 1) See splitter module holder sizes and capacities.
Note: 2) Connector type on the input legs must match the connector type on the output legs

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Prestubbed Housing

Built-in feeder and distribution cables, two splitter holders and connector cassettes. Order mounting brackets, splitters and accessories separately.

Ordering Information

C □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □

1 2 3 4 5 6 7 8 9 10 11 12 13 14

1 Select color.
A = Almond
G = Gray

2 Select distribution port count.
0 = No Distribution
R = 12
Q = 24
P = 36
N = 48
M = 72
K = 96
D = 144

3 Select connector type.
– = Stubless
S = SC APC
U = SC UPC

4 Select feeder port count.
0 = No Feeder Port
1 = 12 Feeder Ports
See Note 1.

5 Select splice-through count.
0 = No Splice-Through
1 = 12-fiber splice-through
2 = 24-fiber splice-through
3 = 36-fiber splice-through
4 = 48-fiber splice-through
6 = 60-fiber splice-through
7 = 72-fiber splice-through
See Notes 2 and 3.

6 Select external toning option.
T = Toning
– = No toning

7 Select latch type.
S = No locking latch
L = Padlock latch
See Note 4.

8 Select feeder configuration.
0 = No feeder cable
1 = One feeder cable
X = Cross-connect, no feeder cable
See Note 5.

9 Select input cable type.
00 = No Feeder
C4 = SST-Ribbon Cable
CF = FREEDM Ribbon Cable
U4 = Loose tube, dielectric Cable
U5 = Loose tube, armored Cable
UC = Loose tube armor Lite Cable
UF = FREEDM Loose tube Cable

10 Select number of distribution cables.
0 = No Distribution
1 = 1 cable
2 = 2 cables
See Note 6.

11 Select stub length.
00 = Stubless
08 = 8 m / 25 ft
16 = 16 m / 50 ft
31 = 31 m / 100 ft
61 = 61 m / 200 ft

12 Select distribution cable type.
00 = No Distribution
C4 = SST-Ribbon Cable
C7 = Indoor Ribbon Cable
CF = FREEDM Ribbon Cable
Q5 = ALTOS Ribbon Loose Tube Armored Cable
U4 = Loose tube, dielectric Cable
U5 = Loose tube, armored Cable
U7 = Indoor LT Ribbon Riser Cable
UC = Loose Tube Armor Lite Cable
UF = FREEDM Loose tube Cable

13 Select number of splitters.
0 = No splitters
1 = 1 splitter
2 = 2 splitters

14 Select splitter type.
0 = No splitter
A = 1x32
D = Dual 1x16
E = Dual 1x8

Notes:
1) Splice-through not available for “no feeder port.”.
2) “No splice-through” is the standard for no feeder ports. Ribbon only for “60-fiber splice-through” and “72-fiber splice-through”.
3) Splice tray included only when splice-through is selected.
4) 12-in vertical pedestal only for “padlock latch.”
5) “One feeder cable” is the standard.
6) “Two cable” must be an even split..

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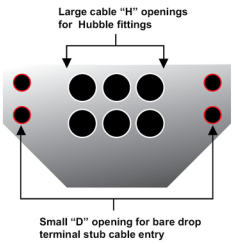
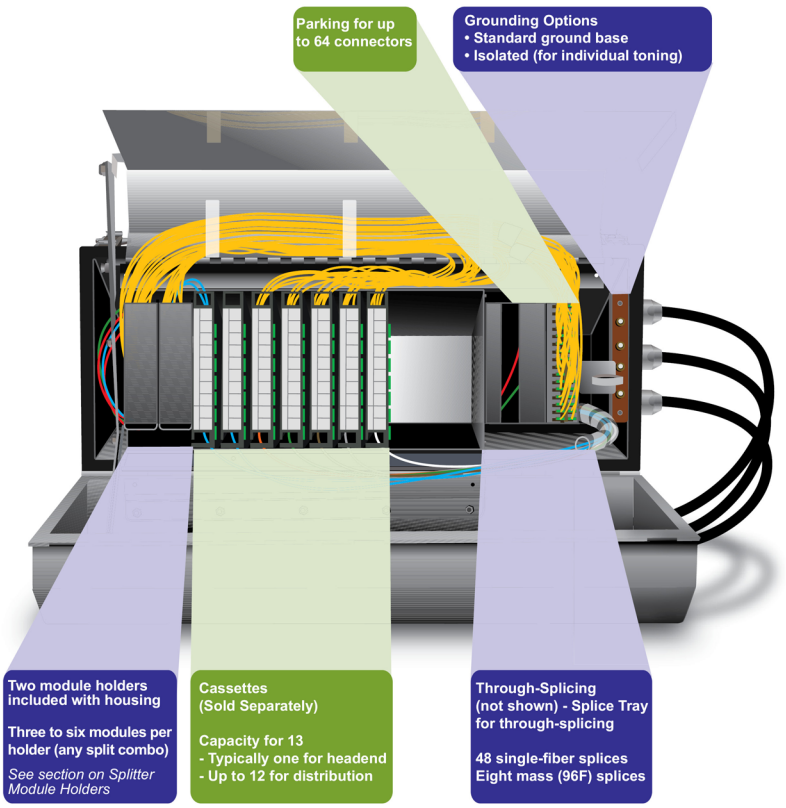
Cable Entry

Cable Entry Grommet Guide

Cable Type	Part Number	Diameter	Port Type
Flat Drop	CLCP-KT-DPRT-F	8.1 x 4.4 mm	D
Round Drop	CLCP-KT-DPRT-R	5 mm	D
Round Cable	CLCP-KT-DPRT4-54	0.40-0.54 in	H
Round Cable	CLCP-KT-DPRT4-67	0.40-0.67 in	H
Round Cable	CLCP-KT-DPRT5-78	0.60-0.78 in	H



Subscriber Management



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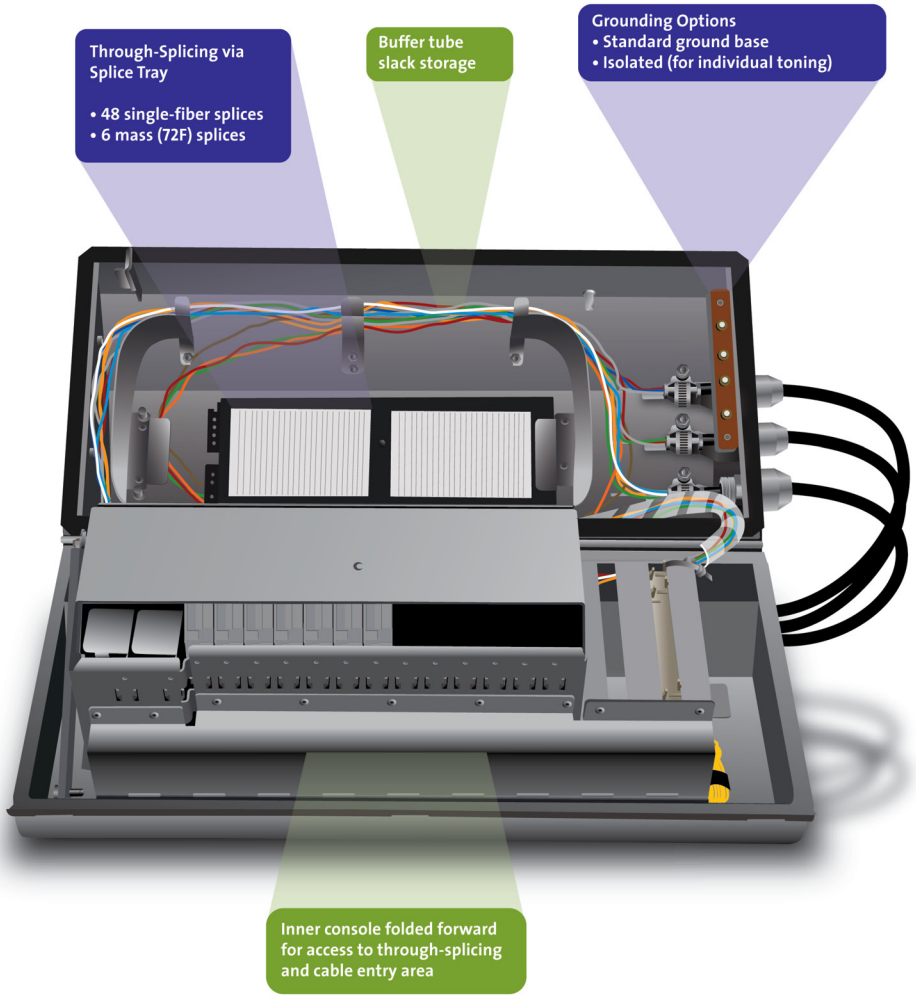
Interior Fiber Routing and Through-Splice Tray



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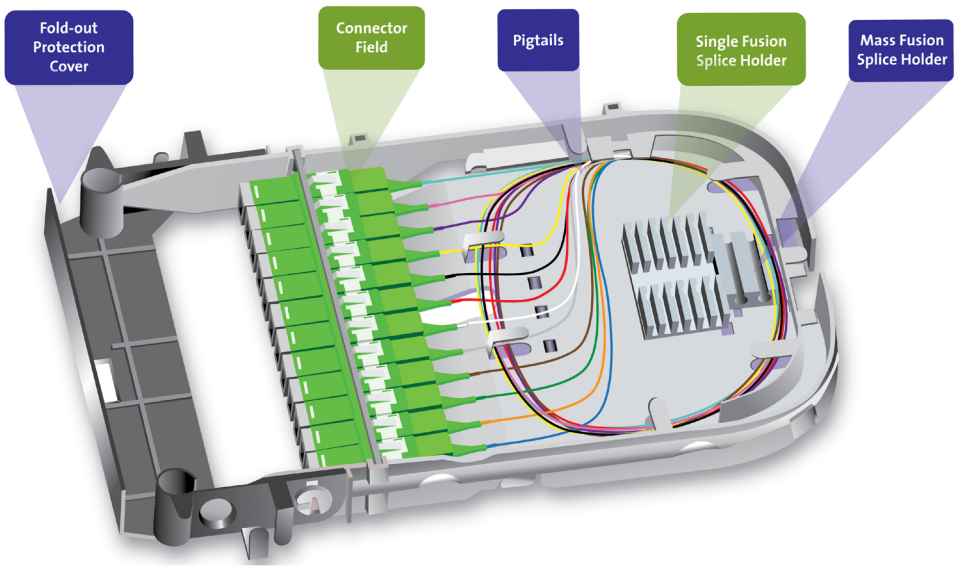
Feeder and Distribution Cassettes

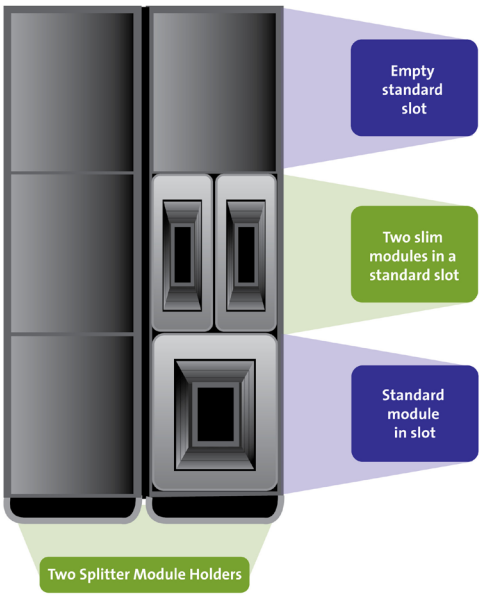


Splitter Module Holders: Sizes and Capacities

There are two splitter module size formats for the cLCP: standard and slim. The standard module contains 1x64, 1x32 and dual 1x16 configurations. All other configurations, including 1x16, dual 1x8, single 1x8 down to dual 1x2 modules are housed in slim modules. Slim modules are half as thick as standard modules.

The cLCP comes with two splitter module holders. Each module holder contains three standard modules or six slim modules. Combinations of the two may be used in the same cLCP and in the same module holder.

Please note that not all combinations of splitter modules are practical. For example, there is not enough connectivity for six 1x32 modules in the cLCP. The additional module space is provided to facilitate use of the lower ratios, as in long-reach or distributed splitting applications.



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Miscellaneous Accessories

Part Number	Product Description	Units per Delivery	
UCN-GNDCBL-20	Ground Leads, 8 in, 6-gauge, 20 per pack	20/1	
UCN-GND-S20	Ground Bonds, small, 3 m, 20 per pack	20/1	
CLCP-KT-SPLTRSHLF	Replacement Splitter Module Holder	1/1	
CLCP-KT-12FRPTUPC	12-Fiber Ribbon Pigtail, SC UPC kit	1/1	
CLCP-KT-12FRPTAPC	12-Fiber Ribbon Pigtail, SC APC kit	1/1	
CLCP-KT-12F2PTUPC	12-Fiber, 250 µm Pigtail, SC UPC kit	1/1	
CLCP-KT-12F2PTAPC	12-Fiber, 250 µm Pigtail, SC APC kit	1/1	
SCF-KT-6GND	SFC-6 Ground Kit, fits all SCF closures (two per kit)	2/1	
SCF-ST-077	Splice Closure Fiber (SCF) Tray, 0.4-in, 48 heat-shrink single-fiber splices or six mass fusion splices	1/1	

RoHS COMPLIANT

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