Sapphire™ Dome Splice Closure, M2 & L2 Series

A BELDEN BRAND

Features & Benefits

- Independent cable retention blocks allow insertion and removal of individual cables
- Split end plate design enables repairs without cutting fibers
- Innovative, flexible hinge design supporting multiple splice tray types
- Up to eight thin splice trays supported
- Up to six Cable Entry Points, each port capable of one to four cables
- Strand or pole mountable



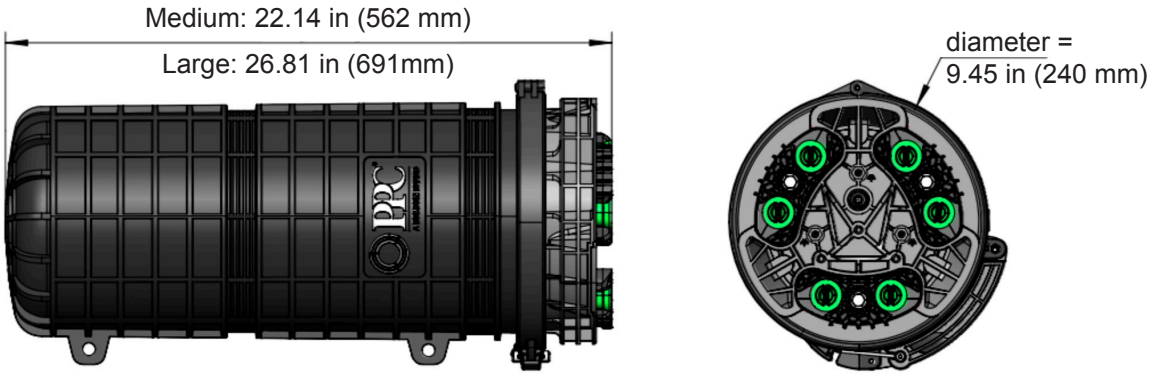
Applications

- Outdoor Fiber Optic Cable Splicing and Cable Management
- Aerial, Underground or Direct Bury
- Mid-span Cable and Cut-end Cable Entry
- Single Fusion and Mass Fusion (Ribbon) Fiber Splicing
- Cable Purpose(s): Back-bone, Lateral, and Drop
- Cable Type(s): Armored, ADSS, Loose Tube, Ribbon, Micro Cable, Flat or Round Drop Cable
- Optical Splitters and/or Multiplexers Integration
- PON and DAA environments

Overview

The PPC M2 and L2 Series of Sapphire™ Dome Splice Closures are designed to provide long-lasting protection of fibers, splices and passive devices in rugged outside plant environments. The closures bring a range of innovative features to make installation and maintenance tasks simpler for field technicians. The independent gel seals are faster and easier to assemble than other solutions available on the market. Multiple tray types may be installed into the closures and their flexible hinge systems allow fitting of PPC trays into other dome closures available on the market.

Technical Drawing



These products may be protected by one or more patents. For further information, please visit: www.ppc-online.com/patents

6176 E. Molloy Rd. East Syracuse, NY 13057
bbs.cs@belden.com
1-800-800-6652 • +1 315-431-7200

Sapphire™ Dome Splice Closure, M2 & L2 Series

A BELDEN BRAND

Technical Data

Specification	Value
Performance Specifications	Designed and Tested to GR-771
Cable Ports	Up to three compression seal gel blocks
	Standard Gel Block: 2 cable entry points each for 1-4 cables Gel seals for 0.23 in to 0.9 in (5.8mm to 22.9mm) fiber cable diameters
	Drop Gel Block: 8 cable entry points Gel seals for 0.12 in to 0.5 in (3mm to 12.7mm) cable diameters
Splice Trays	Thin trays (8 max per dome) or thick trays (6 max per dome) **Single fiber:** 24 (single stacked) - 48 (double stacked) MAX splices per medium tray 36 (single stacked) - 72 (double stacked) MAX splices per large tray **Ribbon fiber:** 288 MAX splices per medium tray 432 MAX splices per large tray
	Optional hinge adapters to install trays in alternative closures
Operating Temperature	-40ºF to 185ºF / -40ºC to 85ºC
Storage Temperature	-40ºF to 185ºF / -40ºC to 85ºC

Standard Dome Configurations

Part Number	Description
SED-L030101000	Large dome[1], 3 two-port gel blocks, 1 ground lug[2], 1 thin tray, 4 standard SMB[4], 2 large SMB[5]
SED-L030103000	Large dome[1], 3 two-port gel blocks, 3 ground lugs[3], 1 thin tray, 4 standard SMB[4], 2 large SMB[5]
SED-L120101000	Large dome[1], 1 drop gel block, 2 two-port gel blocks, 1 ground lug[2], 1 thin tray , 2 std SMB[4], 2 large SMB[5], 8 small SMB[6]
SED-L120103000	Large dome[1], 1 drop gel block, 2 two-port gel blocks, 3 ground lugs[3], 1 thin tray, 2 std SMB[4], 2 large SMB[5], 8 small SMB[6]
SED-M030101000	Medium dome[1], 3 two-port gel blocks, 1 ground lug[2], 1 thin tray, 4 standard SMB[4], 2 large SMB[5]
SED-M030103000	Medium dome[1], 3 two-port gel blocks, 3 ground lugs[3], 1 thin tray, 4 standard SMB[4], 2 large SMB[5]
SED-M120101000	Medium dome[1], 1 drop gel block, 2 two-port gel blocks, 1 ground lug[2], 1 thin tray, 2 std SMB[4], 2 large SMB[5], 8 small SMB[6]
SED-M120103000	Medium dome[1], 1 drop gel block, 2 two-port gel blocks, 3 ground lugs[3], 1 thin tray, 2 std SMB[4], 2 large SMB[5], 8 small SMB[6]

[1] All domes come with 1 four-cable insert, 3 cable insert sticks and cable securing provisions
[2] Domes with 1 installed ground lug include 2 ground wires
[3] Domes with 3 installed ground lugs include 6 ground wires
[4] Standard SMB (strength member bracket) accommodates a recommended maximum SM diameter of .250”
[5] Large SMB accommodates a recommended maximum SM diameter of .315”
[6] Small SMB designed to function with most standard drop cables.



Sapphire Small (coming soon) *Sapphire Medium* *Sapphire Large*

Scan or Click for the Sapphire Dome Closure Installation Instructions

Standard Dome Accessories on following pages

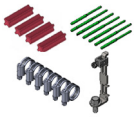
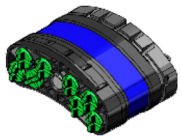
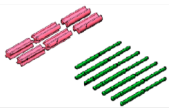
These products may be protected by one or more patents. For further information, please visit: www.ppc-online.com/patents

6176 E. Molloy Rd. East Syracuse, NY 13057
bbs.cs@belden.com
1-800-800-6652 • +1 315-431-7200

Sapphire™ Dome Splice Closure, M2 & L2 Series

A BELDEN BRAND

Dome Accessories *(See tray kits for additional components included with trays.)*

Part Number	Description	Included	Image
SED-AMOUNT	Aerial Mount, Universal	• 1X Aerial mount bracket kit	
SED-BCLAMP	Bench Clamp, Universal	• 1X Bench clamp including necessary hardware • 1X Vise mount adapter*	
SED-CLAMP6	Strength Member Clamp Kit, Universal	• 6X Standard strength member brackets • 6X Hose clamps • 4X Four-cable inserts • 12X Cable insert sticks	
SED-DRGBLOCK	Drop Gel Block, Universal	• 1X Drop gel block • 8X Drop port plugs • 8X Three-cable drop inserts* • 12X Cable insert sticks* • 8X Small strength member brackets* • 8X Hose clamps*	
SED-ENTRYKIT	Cable Entry Accessory Kit	• 2X Four-cable inserts • 2X Three-cable inserts • 2X Two-cable inserts • 12X Cable insert sticks	
SED•GBLOCK	2 Port Gel Block, Universal	• 1X Two-port gel block • 2X Port plugs • 2X Four-cable inserts* • 2X Three-cable inserts* • 2X Two-cable inserts* • 6X Cable insert sticks* • 2X Standard strength member brackets* • 2X Hose clamps*	
SED-GK1	Grounding Kit, Universal	• 1X Ground lug • 2X Ground wires	
SED-GK2	Grounding Kit, Universal	• 2X Ground lugs • 4X Ground wires	
SED-GK3	Grounding Kit, Universal	• 3X Ground lugs • 6X Ground wires	
SED-HINGEB	Tray Hinge Adapter Kit - Fiber Optic Splice Closure B	•1X Yellow adapter Fiber Optic Splice Closure B to Sapphire Med/Large •1X Orange adapter Sapphire med tray to Fiber Optic Splice Closure B	

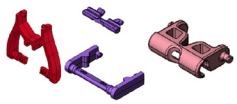
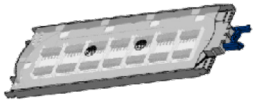
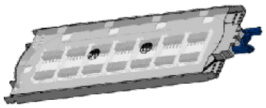
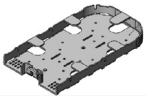
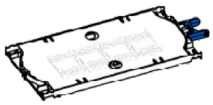
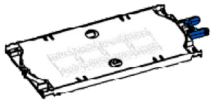
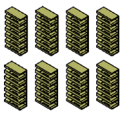
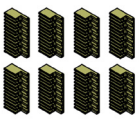
**Component not pictured*

Consult manufacturer for additional product configurations.

Sapphire™ Dome Splice Closure, M2 & L2 Series

A BELDEN BRAND

Dome Accessories *(See tray kits for additional components included with trays.)*

Part Number	Description	Included	Image
SED-HINGED	Tray Hinge Adapter Kit - Fiber Optic Splice Closure D	•1X Red adapter Sapphire Med to Fiber Optic Splice Closure D •1X Rose adapter Fiber Optic Splice Closure D to Sapphire Large •1X Violet adapter Sapphire large tray to Fiber Optic Splice Closure D •1X Violet hingekick stand	
SED-LFB	Flex Basket Kit, Large Dome Closure	• 1X Flex basket and required hardware Sapphire Large	
SED-LSTRAY-1	Thin Splice Tray, Large Dome Closure	• 1X Sapphire Large thin tray with hinge • 12X Single splice holders • 16X Cable ties* • 8X Ribbon splice holders* • 1X Buffer felt*	
SED-LTHTRAY	Thick Splice Tray, Large Dome Closure	• 1X Sapphire Large thick tray with hinge • 12X Ribbon splice holders • 16X Cable ties* • 8X Single splice holders* • 1X Buffer felt*	
SED-MFB	Flex Basket Kit, Medium Dome Closure	• 1X Flex basket and required hardware Sapphire Medium	
SED-MSTRAY-1	Thin Splice Tray, Medium Dome Closure	• 1X Sapphire Medium thin tray with hinge • 8X Single splice holders • 16X Cable ties* • 4X Ribbon splice holders* • 1X Buffer felt*	
SED-MTHTRAY	Thick Splice Tray, Medium Dome Closure	• 1X Sapphire Medium thick tray with hinge • 8X Ribbon splice holders • 16X Cable ties* • 4X Single splice holders* • 1X Buffer felt*	
SED-PMOUNT	Pole Mount Kit, Universal	• 1X Pole mount bracket kit	
SED-RIBBONH	Ribbon Splice Holders For 1 Thin Tray, Universal	• 8X Ribbon splice holders	
SED-SINGLEH	Stranded Fiber Splice Holders For 1 Thin Tray, Universal	• 8X Single splice holders	

**Component not pictured*

Consult manufacturer for additional product configurations.

r5_02232026