

Universal Optical Splice Enclosures (OSE)

CORNING

Features and Benefits

Optical Splice Enclosure, Low Density

1296 single fiber/1728 mass fusion splice with 12 OSE splice tray positions, standard cable entry top & bottom

Optical Splice Enclosure, High Density

3240 single fiber/4320 mass fusion splice with 30 OSE splice tray positions, standard cable entry top & bottom

Compact size

Preserves space in crowded vaults

Wall, 23-in rack and T-slot mountable

Flexibility

Corning universal optical splice enclosures (OSE) are designed to manage the transition between outside plant cables and fire-retardant indoor riser cables in fiber optic networks. These rugged and versatile enclosures are ideal for use in equipment rooms, splicing vaults or building entrance terminals in carrier or enterprise environments.

The universal OSEs were designed with flexibility in mind. An adjustable interior backplate and removable cable entry plates accommodate top-only, bottom-only or top and bottom cable entries. The removable cable entry plates also enable custom-entry options, including midspan and combination entry configurations.

The universal OSE was also designed to provide excellent fiber management. Throughout the cabinet, routing guide plates and fiber management organize and separate stored fiber and fiber entering the splice trays. In addition, fiber may be routed through the four horizontal pass-through ports located near the top and bottom of the cabinet sides.

Each universal OSE features a full range of capabilities for wall 23-in rack and T-slot mounting. The T-slot mounting hardware allows for both horizontal and vertical mounting and enables tight, side-by-side mounting arrangements. In addition, universal OSEs are especially well-suited for installations that require preconnectorized cable assemblies or stubbed optical patch panels. In these installations, the Universal OSE can actually replace the rack-mounted splice unit typically required.



Optical Splice Enclosure OSE-HD0
| Photo CRR3457



Optical Splice Enclosure OSE-HD0
Lower Splice Organizer | Photo CRR3455

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Corning offers two versions of the universal OSE. The high-density universal OSE (OSE-HD0) was designed for today's higher density fiber distribution systems. Optical Splice Enclosure, High Density, 3240 single fiber/4320 mass fusion splice from as many as 46 cables.

Optical Splice Enclosure, Low Density, 1296 single fiber / 1728 mass fusion splice, from as many as 28 cables.

To achieve each unit's maximum fiber density, Corning recommends using the splice trays designed for the universal OSE.

Refer to the splice tray options listed below:

Specifications

Single-Fiber Splice										
Single-Fiber Splice Tray Information					OSE-LD			OSE-HD		
Stacker size	Tray Options	Splice Slots	Fiber Capacity		Splice Tray Capacity	Fiber Capacity		Splice Tray Capacity	Fiber Capacity	
LD0/HD0	OSE-ST-1 (HS)	36	36		12	432		30	1080	
LD0/HD0	OSE-ST-6 (HS)	48	48		12	576		30	1440	
LD0/HD0	OSE-ST-7 (Q-Pack)	48	48		12	576		30	1440	
LDO/LDO	OSE-ST-9 (HS)	48	108		12	1296		30	3240	
LD2/HD2	0.2-in Trays (SCF-ST-112)	24	24		21	504		42	1008	
LD4/HD4	0.4-in Trays (SCF-ST-077)	48	48		14	672		28	1344	

Multifiber Splice										
Multifiber Splice Tray Information					OSE-LD			OSE-HD		
Stacker size	Tray Options	Splice Slots	6 F Ribbon Capacity	12 F Ribbon Capacity	Splice Tray Capacity	6 F Ribbon Capacity	12 F Ribbon Capacity	Splice Tray Capacity	6 F Ribbon Capacity	12 F Ribbon Capacity
LD0/HD0	OSE-ST-3 (RBN)	6	36	72	12	432	864	30	1080	2160
LD0/HD0	OSE-ST-3-TQ (RBN)	12	72	144	12	864	1728	30	2160	4320
LD4/HD4	0.4-in Trays (SCF-ST-077)	6	36	72	14	504	1008	28	1008	2016

Note: Reference splice off frame application where an OSE cabinet will be required:

- Fully configured Eclipse stubbed frame = 1440 fibers
- Fully configured EMF stubbed frame = 1728 fibers
- Fully configured CTX stubbed frame with SC's = 2880 fibers
- Fully configured CTX stubbed frame with LC's = 4320 fibers

Ordering Information

Part Number	Dimensions (HxWxD)	Shipping Weight
OSE-HD	114.3 cm x 55.9 cm x 33 cm (45 in x 22 in x 13 in)	40.8 kg (90 lb)
OSE-LD	81.3 cm x 55.9 cm x 25.4 cm (32 in x 22 in x 10 in)	34 kg (75 lb)
OSE Splice Trays	33.0 cm x 15.2 cm x 1.3 cm (13 in x 6 in x 0.5 in)	0.4 kg (0.8 lb)

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Ordering Information

O S E - - - - -

1 2 3 4 5 6 7

1 Select Optical Splice Enclosure (OSE).
HD = High-density
LD = Low-density

2 Select splice tray stacker type.
0 = Stacker for OSE splice trays (default)
2 = Stacker for 0.2-in tall splice trays
4 = Stacker for 0.4-in tall splice trays

See Note 1.

3 Select workshelf.
W = With workshelf
0 = Without workshelf

4 Select T-slot mounting.
T = With T-slot mounting kit
0 = Without T-slot mounting kit

5 Select top cable entry plate.
1 = Standard cable entry
2 = Mid-span access plate
See Note 2.

6 Select bottom cable entry plate (not required if same as top plate).
1 = Standard cable entry
2 = Mid-span access plate

7 Select locking option.
L = Lockable (keyed lock)
Blank = No lock

Note:

1) Splice trays ordered separately. Contact a Customer Care Representative for ordering information.

2) Cable entry accessories ordered separately.

3) Some product combinations using this matrix are not available. Please verify specific product availability with a Corning Customer Care Representative. For more information on the availability of special configurations, please contact Corning Customer Care Representative.

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Splice Trays

OSE splice trays are designed to maximize density in the Universal OSE. Each tray accommodates up to 48 single-fiber splices or twelve 12-fiber ribbon mass fusion splices. The maximum number of trays for the LD0 and HD0 OSEs are 12 and 30, respectively.



OSE-ST-1
| Photo CRR3435



OSE-ST-3
| Photo CRR3427



OSE-ST-6
| Photo CRR3433



OSE-ST-7
| Photo CRR3432

Ordering Information

OSE - ST -

1

 -

- 1
- Select splice type.
- 1

=

36 per tray, single-fiber, heat-shrink fusion
- 2

=

RTV fusion
- 3

=

72 per tray, mass fusion (ribbon)
- 3-TQ

=

144 per tray, extended mass fusion (ribbon)
- 6

=

48 per tray, single-fiber, heat-shrink protectors
- 7

=

48 per tray, Q-pack protector
- 9

=

108 per tray, single fiber, heat-shrink protectors

Notes:
1) LD2 or HD2 requires use of SCF-ST-112.
2) LD4 or HD4 requires use of SCF-ST-077.



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Cable Entry Kits 1-in OSE-CBL Cable Compression Fittings

A watertight compression fitting is required for each cable. Corning recommends purchasing the OSE-CBL cable entry kit for all outside plant cables. Each kit includes a 1-in compression fitting as well as hardware for central member strain-relief and cable grounding.



Part Number	Cable Diameter Range	Compression Fitting Color Code	Recommended Hole Size
OSE-CBL-34	9.5 mm to 12.7 mm (0.375 in to 0.500 in)	Blue	35 mm (1.375 in)
OSE-CBL-35	12.7 mm to 15.9 mm (0.500 in to 0.625 in)	Brown	35 mm (1.375 in)
OSE-CBL-36	15.9 mm to 19.0 mm (0.625 in to 0.750 in)	Yellow	35 mm (1.375 in)
OSE-CBL-37	19.0 mm to 22.2 mm (0.750 in to 0.875 in)	Purple	35 mm (1.375 in)
OSE-CBL-38	22.2 mm to 25.4 mm (0.875 in to 1.000 in)	Gray	35 mm (1.375 in)
OSE-CBL-39	25.4 mm to 31.7 mm (1.000 in to 1.250 in)	N/A	44.5 mm (1.750 in)
OSE-CBL-40	31.7 mm to 34.9 mm (1.250 in to 1.375 in)	White	50.8 mm (2.000 in)
OSE-CBL-41	35.1 mm to 38.1 mm (1.380 in to 1.500 in)	Metal	50.8 mm (2.000 in)

Note: The OSE-HD can accommodate up to (30) 1-in compression fittings and (10) 0.75-in compression fittings. The OSE-LD can accommodate up to (28) 1-in compression fittings. See SRP-003-354 for installation procedures of compression fittings.

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Alternate Watertight Compression Fittings

These alternate fittings provide a single compression fitting and multiple grommets to accommodate a wide range of cable diameters. Cable grounding and strain-relief hardware are not included in these kits. The 1-in kits may be used with indoor cable stubs. The 0.75-in kit may be used for additional indoor fiber cables or bringing ground cables into the OSE-HD.



Watertight Connector Kit,
1 in | Photo CRR3437



Watertight Connector Kit,
0.75 in | Photo CRR3440

Part Number	Description	Cable Diameter Range
A0402799	Watertight Connector Kit, 1 in	0.437 in to 1.000 in
A0402798	Watertight Connector Kit, 0.75 in	0.187 in to 0.812 in

OSE Connector Kits 0.75 in

Color	Cable Diameter Range
Orange	0.187 - 0.250
Gray	0.250 - 0.375
Green	0.375 - 0.437
Black	0.437 - 0.562
Green	0.562 - 0.687
Yellow	0.687 - 0.812

OSE Connector Kits 1 in

Color	Cable Diameter Range
Black	0.437 - 0.562
Gray	0.500 - 0.625
Orange	0.625 - 0.750
Black	0.750 - 0.875
Green	0.875 - 1.000

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OSE Accessories

Part Number	Product Description	Units per Delivery	
OSE-LD-MSPN-KIT	OSE Low-Density Mid-span Entry Plate (see SRP-003-644)	1/1	
UCN-GND-S20	Ground Bonds, small, 3 m, 20 per pack	20/1	
OSE-HD-MSPN-KIT	OSE High-Density Mid-span Entry Plate (see SRP-003-644)	1/1	
HDWR-GRND-KIT	Hardware Grounding Kit, includes two wires, one sheath ground clip and one ground bus	1/1	
OSE-LD-HD-LOCK-KIT	Optional Locking Kit	1/1	
OSE-LD-HD-TSLT-KIT	Optional "T-slot" Mounting Kit	1/1	

Ribbon Cable Furcation Kits (one kit required per cable)

Part Number	Product Description	Units per Delivery	
RBN-TERM-KIT-FMS	Ribbon Cable Furcation Kit, 12F - 216F (see SRP-003-528)	1/1	
UNIV-RIB-FUR-KIT	Ribbon Cable Furcation Kit, > 216F (see SRP-000-257)	1/1	

* Note: Please see SRP-003-450 for OSE installation procedures.

SRP References

SRP Number	Description
003-450	Universal Optical Splice Enclosures (Low-Density and High-Density)
003-354	Cable Entry Kit
001-285	OSE Splice Trays
001-281	Hardware Ground Kit (HDWR-GRND-KIT)

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