

Optical Cross-Connect Family

OCC-080-G, OCC-051, OCC-051-G, OCC-031, OCC-031-G

An Evolant® Solutions Product

Corning
Cable Systems

Description

Corning Cable Systems' family of Optical Cross-Connects (OCCs) are versatile, fully enclosed cabinets designed for fiber optic rack-mountable hardware. All products in this family offer modular design for incremental growth and are ideal as outdoor protected environments for cross-connect installations.

Compatible with Corning Cable Systems Rack-Mountable Hardware, these cabinets can accommodate many combinations of connector, splice and coupler housings.

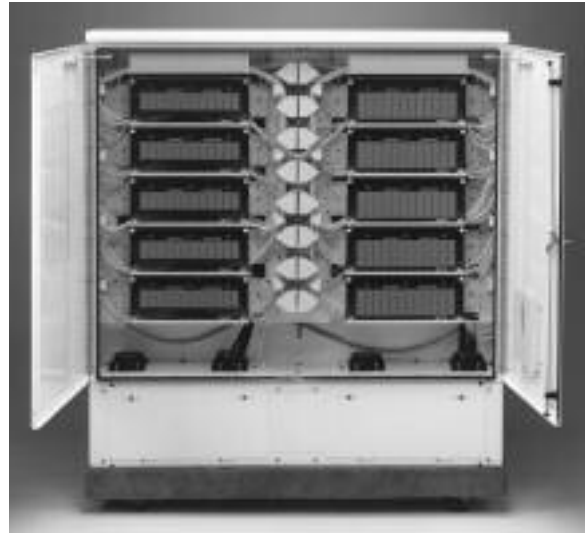
This modular system makes it possible to create fiber optic configurations for outdoor applications. All OCC cabinets accept Eclipse®, FDC® and LDC Connector Module Housing Units for installations using field connectorization or factory-stubbed housings.

Stubbed housings with outdoor cable are available and can be spliced into the network using one of the many Corning Cable Systems Splice Closures. Furcation kits for field installation of connectors in an outdoor environment are also available to protect the fibers. In addition, splice housings can be used for pigtail splicing inside the cabinet.

The pad-mountable version (-G) requires the PAD-OCC-01 for the 31-G and 51-G or the PAD-OCC-02 for the 80-G. The pad-mountable frame aids in construction of the pad and installation of cables. The galvanized steel frame provides a properly sized opening in the pad for cable entry and contains threaded inserts for accurately mounting the cabinet during installation.

Features / Benefits

- Modular design for incremental growth
- Stainless steel mounting and assembly hardware for corrosion protection
- Accepts Corning Cable Systems standard Rack-Mountable Hardware for flexibility of equipment styles
- Full-size front doors provide easy access and tight sealing
- Front- and rear-access panels (rear on G models only) offer 216B tool security
- Cabinet and door construction from 0.125-in aluminum alloy for light weight and durability
- Doors automatically secure in open position for protection of worker



OCC-080-G Open | Photo CAP5516

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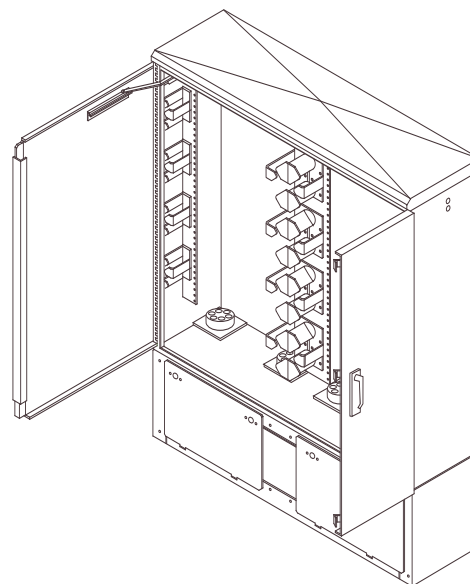
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Features / Benefits

OCC-080 G

- OCC-080-G pad-mountable version allows for increased cable storage with the addition of buried and above ground extension accessories
- Double door entry with three-point latching system
- Designed to fully enclose up to 80 in of rack-mountable hardware EIA 44U
- Two 23-in equipment racks, each 40 in tall, separated by an inter-bay jumper storage spacer
- Accepts up to 10 LDC or Eclipse® or eight FDC® Connector Module Housings
- Sealed cable entry points for expressed or cut cables (24 cable entries) in standard bottom



OCC-080-G | Drawing ZA-1070

Ordering Information

Basic Unit

Part Number	Description	Weight kg (lb)	Dimensions (H x W x D) cm (in)	Installation Instructions
OCC-080-G	Pad-mountable version*	83.9 (185)	157.5 x 152.4 x 41.9 (62 x 60 x 16.5)	003-401

* See optional hardware for pad-mountable frame.

Optional Hardware OCC-080-G (ground unit only)

Part Number	Description	Installation Instructions
PAD-OCC-02	Pad-Mountable Frame, 6-in buried	003-395
PAD-OCC-CSS-02	Pad-Mountable Frame with cable storage area, 18-in buried (includes PAD-OCC-02)	003-463
PAD-OCC-EXT-02	Base Extension; 12-in above ground, no door	209-207
OCC-PORT-KIT	Bottom Entry Panel equipped with six watertight cable ports (080-G can accommodate up to two port kits)	003-375

Note: Standard bottom supplied with all OCCs allows six cable positions (cut or uncut) to be placed into a foam support and encapsulated (12 cables in the OCC-080-G unit). Strain-relief is done at the housing.

If liquid-tight compression fittings (for cut fibers only, cable range 0.2 to 0.82 in) are preferred, order the OCC-PORT-KIT.

When using the OCC-PORT-KIT, remove the standard bottom and replace with the OCC-PORT-KIT bottom

(OCC-080-G may use the Standard and one OCC-PORT-KIT or two OCC-PORT-KITs). For other size cables, please see OSE-CBL-XX kits.

Strain-relief may be done at the entry point or at the housing.

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Features / Benefits

OCC-031

- Wall-mounting (pole and T-slot mounting kits also available)
- Dimensions (H x W x D):
102.9 x 72.4 x 41.9 cm (40.5 x 28.5 x 16.5 in)

OCC-031-G

- Pad-mountable version allows for increased cable storage with the addition of buried and above ground extension accessories; rear access doors on G models; required PAD-OCC-01
- Dimensions (H x W x D):
133.4 x 72.4 x 41.9 cm (52.5 x 28.5 x 16.5 in)
- Designed to fully enclose up to 31 in of rack-mountable hardware EIA 17U
- Accepts up to three connector module housings
- Includes jumper trough and six routing guides for fiber management
- Sealed cable entry points for expressed or cut cables (up to 12 cables) in standard bottom

OCC-051

- Wall-mounting (pole and T-slot mounting kits also available)
- Dimensions (H x W x D):
153.7 x 72.4 x 41.9 cm (60.5 x 28.5 x 16.5 in)

OCC-051-G

- Pad-mountable version allows for increased cable storage with the addition of buried and above ground extension accessories; rear access doors on G models
- Dimensions (H x W x D):
184.2 x 72.4 x 41.9 cm (72.5 x 28.5 x 16.5 in)
- Designed to fully enclose up to six LDCs in 51-in space of rack-mountable hardware EIA 29U
- Accepts up to six LDC or Eclipse® or five FDC® Connector Module Housings
- Includes two jumper troughs and 12 routing guides for fiber management
- Sealed cable entry points for expressed or cut cables (up to 12 cables) in standard bottom



OCC-031-G Open (shown with LDC-CMH-072 housings)
| Photo ICH102



OCC-031-G Closed | Photo ICH101



OCC-051 Open (shown with LDC-CMH-072 housings)
| Photo HWPSS1619

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Ordering Information

Basic Unit

Part Number	Description	Weight kg (lb)	Dimensions (H x W x D) cm (in)	Installation Instructions
OCC-031	Wall-, pole- and T-slot-mountable version*	36.3 (80)	102.9 x 72.4 x 41.9 (40.5 x 28.5 x 16.5)	003-375
OCC-031-G	Pad-mount version**	38.6 (85)	133.4 x 72.4 x 41.9 (52.5 x 28.5 x 16.5)	003-375
OCC-051	Wall-, pole- and T-slot-mountable version*	45.4 (100)	153.7 x 72.4 x 41.9 (60.5 x 28.5 x 16.5)	003-375
OCC-051-G	Pad-mountable version**	47.6 (105)	184.2 x 72.4 x 41.9 (72.5 x 28.5 x 16.5)	003-375

Note: Order housings for connectors, couplers and splices separately.

* See optional hardware for pole-mounting and T-slot mounting hardware.

** See optional hardware for pad-mountable frame.

Optional Hardware for OCC-031 and OCC-051 (-G Ground Unit)

Part Number	Description	Installation Instructions
CEN-BK2*	Pole-Mount Kit	003-375
15-195-63*	T-Slot Mounting Kit	003-375
PAD-OCC-01	Pad-Mountable Frame, 6-in buried	003-384
PAD-OCC-CSS-01	Pad-Mountable Frame with cable storage area, 18-in buried (includes PAD OCC-01)	003-462
PAD-OCC-EXT-01	Base Extension, 12-in above ground, no door	209-207
OCC-PORT-KIT	Bottom Entry Panel (six liquid-tight compression fittings included)	003-375

Note: Standard bottom supplied with all OCCs allows six cable positions (cut or uncut) to be placed into a foam support and encapsulated.

Strain-relief is done at the housing. If liquid-tight compression fittings (for cut fibers only, cable range 0.2 to 0.82 in) are preferred, order the OCC-PORT-KIT. When using the OCC-PORT-KIT, remove the standard bottom and replace with the OCC-PORT-KIT bottom.

For other size cables, please see OSE-CBL-XX kits. Strain-relief may be done at the entry point or at the housing.

Cable Entry Kit Part Number	Compression Fitting Only Part Number	Cable Diameter Range mm (in)	Compression Fitting Color Code	Installation Instructions
OSE-CBL-34	15-182-34	9.5 to 12.7 (0.375 to 0.500)	Blue	003-354
OSE-CBL-35	15-182-35	12.7 to 15.9 (0.500 to 0.625)	Brown	003-354
OSE-CBL-36	15-182-36	15.9 to 19.0 (0.625 to 0.750)	Yellow	003-354
OSE-CBL-37	15-182-37	19.0 to 22.2 (0.750 to 0.875)	Purple	003-354
OSE-CBL-38	15-182-38	22.2 to 25.4 (0.875 to 1.000)	Gray	003-354

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Description

Corning Cable Systems offers the space-saving High-Density Coupler Shelf that can be mounted in a single rack space within the OCC. This shelf can accommodate up to 22 inputs and outputs using standard simplex connectors and is also available in a double-high (2RU) configuration for even greater coupler density. Additional capacity can also be gained through the use of duplex adapters. The shelf also provides shielded jumper protection and a slide-forward design for easy access to optical jumpers and pigtails.



Eclipse® Hardware Coupler Shelf | Photo ICH208

Specifications

Letter Code	Product Family	Shelves	Maximum Port Count	Package Size H x W x D (in)	Shelf Color
FS	FDC	1U HSF	34 ports total with SC duplex adapters (2 x 32). Pigtail inputs and outputs also available.	1.70 x 16.91 x 12	Beige
LS	LDC/HDF	1U HSL		1.70 x 16.91 x 12	Platinum
ES	Eclipse	1U ECS		1.70 x 16.91 x 12	Black
FH	FDC	2U HSF	68 ports total with SC duplex adapters (two 2 x 32). Pigtail inputs and outputs also available.	3.40 x 16.91 x 12	Beige
LH	LDC/HDF	2U HSL		3.40 x 16.91 x 12	Platinum
EH	Eclipse	2U ECS		3.40 x 16.91 x 12	Black

Maximum Port Count								
Letter Code	Product Family	Module	Inputs	Adapter Outputs*	Pigtail Outputs	Package Size H x W x D (in)	Part Number	Module Color
FM	FDC	FDC	1	5	5	6.00 x 1.38 x 6.41	FDC-CMH-072	Beige
FL	FDC	FD8	2	6	6	7.50 x 1.38 x 6.16	FDC-CMH-096	Beige
LM	LDC	Single-Wide Module	1	5	4	5.10 x 1.14 x 5.75	LDC-CMH-072	Platinum
LD	LDC	Double-Wide Module	2	16	16	5.10 x 2.28 x 5.76	LDC-CMH-072	Platinum
EM	Eclipse	Single-Wide Module	1	5	8	5.10 x 1.37 x 6.70	ECL-C4U	Black
ED	Eclipse	Double-Wide Module	4	8	16	5.10 x 2.76 x 6.69	ECL-C4U	Black

Note: FDC = FDC® Hardware Family, Eclipse = Eclipse® Hardware Family®

* Based on SC simplex adapters unless noted; use of small-form-factor connectors/adapters will increase capacity

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Description

Corning Cable Systems also offers a wide selection of coupler housings and modules which are compatible with our full line of fiber optic hardware including: Eclipse®, LDC and FDC® Product Families. The use of coupler housings and modules provides modularity in a small footprint for your network, allowing expansion as needed by adding couplers via single- or double-wide modules. Modules can be configured with either adapter or pigtail inputs and outputs in a variety of high-performance connector options.



FD8- and FDC-Style Modules | Photo HWPPP1323



LDC Coupler Module | Photo HWPPP1325

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Ordering Information

Equal Splits

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	2	3	4	5	6	7	8	9	10					

1 Select product code.

See charts for shelves or modules.

2 Select coupler optical specifications/test wavelength.

- 1 = Dual window (1310 and 1550 nm) narrowband
- S = Dual window (1310 and 1550 nm) wideband
- N = Other special bandpass requirements

3 Select input configuration.

- A = Adapter
- B = 3 mm jacketed fiber
- C = 2 mm jacketed fiber
- D = 1.6 mm jacketed fiber
- E = 900 μ m jacketed fiber

4 Select output configuration.

- A = Adapter
- B = 3 mm jacketed fiber – yellow (single-mode)
- C = 2 mm jacketed fiber
- D = 1.6 mm jacketed fiber
- E = 900 μ m jacketed fiber

Note: ST = ST® Compatible

5 Select input connector/adapter code.

- 5C = SC/UPC (single-mode, ceramic insert)
- 6C = SC/APC (single-mode, ceramic insert)
- 72 = SC/UPC duplex (single-mode, ceramic insert)
- 66 = SC/APC duplex (single-mode, ceramic insert)
- 54 = FC/UPC (single-mode, phosphor bronze)
- 21 = FC/APC (single-mode, phosphor bronze)
- 6T = ST/UPC (single-mode, threaded, ceramic insert)
- 61 = ST/UPC (single-mode, ceramic insert)
- 04 = LC/UPC duplex (single-mode)

6 Select input pigtail length (m).

- 0 = No pigtails (default for adapter input)
- 1 = 1
- 3 = 3
- 5 = 5
- 7 = 7
- A = 10
- L = 20

7 Select output connector/adapter code.

- 5C = SC/UPC (single-mode, ceramic insert)
- 6C = SC/APC (single-mode, ceramic insert)
- 72 = SC/UPC duplex (single-mode, ceramic insert)
- 66 = SC/APC duplex (single-mode, ceramic insert)
- 54 = FC/UPC (single-mode, phosphor bronze)
- 21 = FC/APC (single-mode, phosphor bronze)
- 6T = ST/UPC (single-mode, threaded, ceramic insert)
- 61 = ST/UPC (single-mode, ceramic insert)
- 04 = LC/UPC duplex (single-mode)

8 Select output pigtail length (m).

- 0 = No pigtails (default for adapter outputs)
- 1 = 1
- 3 = 3
- 5 = 5
- 7 = 7
- A = 10
- L = 20

continued

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Ordering Information (continued)

- 9** Select number of devices; see Table A.
(Ensure maximum number of ports not exceeded
for product code entered in Option 1.)

Examples:

1018 = One (1 x 8)
2014 = Two (1 x 4)
5012 = Five (1 x 2)
C012 = Twelve (1 x 2)

- 10** Select coupler configuration.

012 = 1 x 2
022 = 2 x 2
013 = 1 x 3
014 = 1 x 4
024 = 2 x 4
015 = 1 x 5
016 = 1 x 6
018 = 1 x 8
028 = 2 x 8
110 = 1 x 10
112 = 1 x 12
116 = 1 x 16
216 = 2 x 16
132 = 1 x 32
232 = 2 x 32

Table A
Codes for Quantities
(includes quantities less than 9)

1	=	1
2	=	2
3	=	3
4	=	4
5	=	5
6	=	6
7	=	7
8	=	8
9	=	9
A	=	10
B	=	11
C	=	12
D	=	13
E	=	14
F	=	15
G	=	16
H	=	17
J	=	18
K	=	19
L	=	20
M	=	21
N	=	22
P	=	23
Q	=	24
R	=	25
S	=	26
T	=	27
U	=	28
V	=	29
W	=	30
X	=	31
Y	=	32
Z	=	33



CORNING
Discovering Beyond Imagination

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