Opti-Guard Splice Enclosure

The Opti-Guard Splice Enclosure from AFL offers an impressive spectrum of features which makes it the best selection for your splice protection needs. Its unique and flexible design was created with the "real-world" technician in mind. The Opti-Guard combines optimized system performance with unparalleled ease of use. It is resistant to water, ultraviolet rays, temperature and ballistics. Opti-Guard installs easily without messy tapes or adhesives. It provides the flexibility needed to handle the most demanding installation scenarios.

Features

- Accommodates up to 168 single fusion splices using standard splice sleeves and 672 single fusion splices using slim splice sleeves
- Craft friendly design requires no specialized tools to install and minimizes required training
- Easy to maintain and re-enter; no re-entry kit required
- Unit is lightweight and mounts to many types of structures
- May be bolted or banded; no special adapters needed
- Specially designed non-metallic housing
- Environmentally sealed to protect fibers
- Accepts up to six individual cables
- Accommodates most cable types in most environments
- Versatile cable tie-off system resists up to 100 pounds of tension per cable

Ordering Information

Description	AFL No.
OG03 Opti-Guard Splice Enclosure without Splice Trays or Cable Connectors. Accommodates up to 7 OGST02 splice trays when used with the ASTROGUARD hardware system.	OG03
OGST02 Splice Tray	OGST02
Retro-fit hardware kit (includes brackets, screws, blue velcro strap, and foam blocks)	AGHWK
40 mm Splice Protection Sleeve (10 Per Pack)	SPS40
60 mm Splice Protection Sleeve (10 Per Pack)	SPS60
60 mm Slim Splice Protection Sleeve	S018263
40 mm Slim Splice Protection Sleeve	S018262

NOTE: Refer to page on Connector Kit for AFL number set-up.

continued

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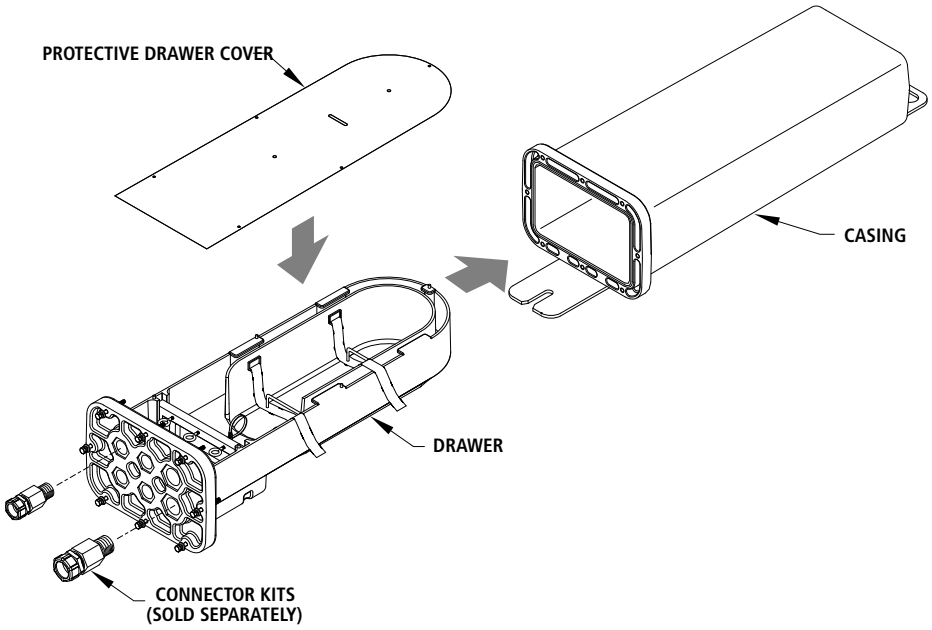
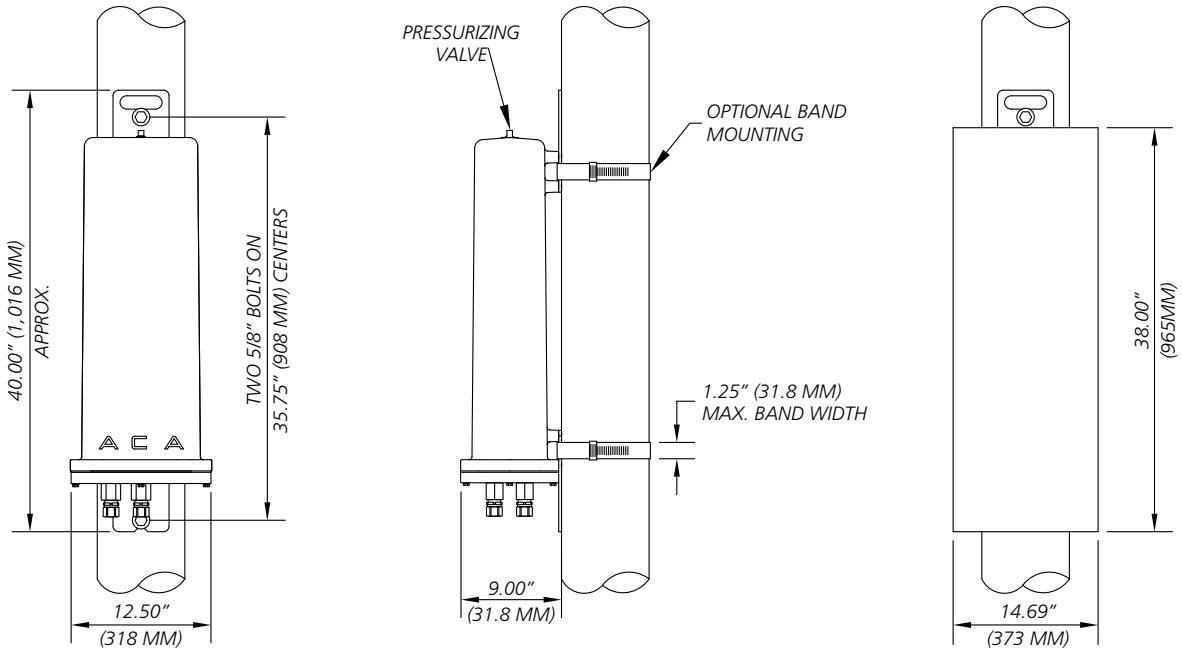
Sales & Support

Opti-Guard Splice Enclosure

Exploded View



Mounting Details and Options



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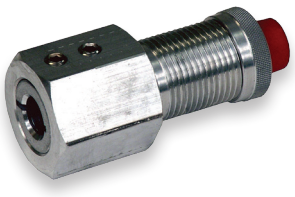
Connector Kits for Opti-Guard Splice Enclosures—OPGW Cable

Connector Kit: Optical Ground Wire

SLCK — OPGW Connector Kit Cable Type
SLCK = Slotted Core
SCK = MiniCore, HexaCore or PentaCore
APCK = CentraCore, AlumaCore

Y — Range Code in Decimal Inches (see Table 1)

XXX/XXX — Range Code in Decimal Inches (see Table 2)



Optical Ground Wire Connector Kit

Ordering Example: For 0.571" diameter SX-67/49/571, which has a layer 1 total diameter of 0.358", the AFL number is SCKB569/583.

Table 1

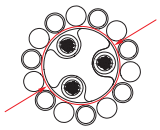
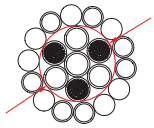
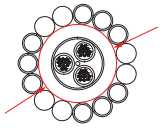
Range Code	 Slotted Core Diameter	 Minicore, Hexacore Or Pentacore Layer 1 Diameter	 Centracore Or Alumacore Pipe Diameter
A	.185 - .227	.000 - .230	.185 - .227
B	.228 - .264	.231 - .500	.228 - .264
C	.265 - .300	.501 - .636	.265 - .300
D	.301 - .374	—	.301 - .374
E	.375 - .479	—	.375 - .479
F	.480 - .550	—	.480 - .550
G	.551 - .630	—	.551 - .630
H	.631 - .700	—	.631 - .700

Table 2

Range Code	Cable Diameter Range	
	Min.	Max.
225/240	.225	.240
241/255	.241	.255
256/271	.256	.271
272/286	.272	.286
287/302	.287	.302
303/318	.303	.318
319/333	.319	.333
334/349	.334	.349
350/365	.350	.365
366/380	.366	.380
381/396	.381	.396
397/412	.397	.412
413/427	.413	.427
428/443	.428	.443
444/459	.444	.459
460/474	.460	.474
475/490	.475	.490

Range Code	Cable Diameter Range	
	Min.	Max.
491/506	.491	.506
507/521	.507	.521
522/537	.522	.537
538/553	.538	.553
554/568	.554	.568
569/583	.569	.583
584/599	.584	.599
600/615	.600	.615
616/630	.616	.630
631/646	.631	.646
647/662	.647	.662
663/677	.663	.677
678/693	.678	.693
694/708	.694	.708
709/727	.709	.727
728/740	.728	.740

Range Code	Cable Diameter Range	
	Min.	Max.
741/756	0.741	0.756
757/771	0.757	0.771
772/787	0.772	0.787
788/803	0.788	0.803
804/818	0.804	0.818
819/829	0.819	0.829
830/849	0.830	0.849
850/865	0.850	0.865
866/881	0.866	0.881
882/894	0.882	0.894
895/910	0.895	0.910
911/926	0.911	0.926
927/937	0.927	0.937
938/950	0.938	0.950
951/964	0.951	0.964
965/979	0.965	0.979

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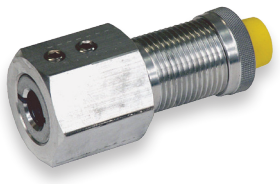
Connector Kits for Opti-Guard Splice Enclosures—Black Jacket Cable

Connector Kit: All-Dielectric Self-Supporting Fiber Optic Cable

BCK
Black Jacket Cable Connector Kit

XXX/XXX
Range Code in Decimal Inches (see Table 1 below)

F
Blank = No Additional Connector Assembly Required
F = 1" Flex Conduit Connector Required



All-Dielectric Self-Supporting Connector Kit

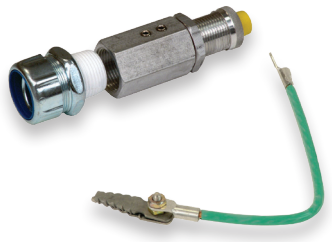
Ordering Example: For 0.528" diameter ADSS, the AFL number is BCK522/537.

Connector Kit: Loose Tube Fiber Optic Cable

BCK
Black Jacket Cable Connector Kit

XXX/XXX
Range Code in Decimal Inches (see Table 1 below)

B
Options
Blank = No Additional Connector Assembly Required
F = 1" Flexible Conduit Connector Required
A = Armor Ground Assembly Required
B = Armor Ground Assembly and 1" Flexible Conduit Connector Required



Armored Loose Tube Connector Kit

Ordering Example: For 0.510" armored loose tube (duct) cable with flexible conduit and armor ground connections, the AFL number is BCK507/521B.

Table 1

Range Code	Cable Diameter Range	
	Min.	Max.
225/240	.225	.240
241/255	.241	.255
256/271	.256	.271
272/286	.272	.286
287/302	.287	.302
303/318	.303	.318
319/333	.319	.333
334/349	.334	.349
350/365	.350	.365
366/380	.366	.380
381/396	.381	.396
397/412	.397	.412
413/427	.413	.427
428/443	.428	.443
444/459	.444	.459
460/474	.460	.474
475/490	.475	.490

Range Code	Cable Diameter Range	
	Min.	Max.
491/506	.491	.506
507/521	.507	.521
522/537	.522	.537
538/553	.538	.553
554/568	.554	.568
569/583	.569	.583
584/599	.584	.599
600/615	.600	.615
616/630	.616	.630
631/646	.631	.646
647/662	.647	.662
663/677	.663	.677
678/693	.678	.693
694/708	.694	.708
709/727	.709	.727
728/740	.728	.740

Range Code	Cable Diameter Range	
	Min.	Max.
741/756	0.741	0.756
757/771	0.757	0.771
772/787	0.772	0.787
788/803	0.788	0.803
804/818	0.804	0.818
819/829	0.819	0.829
830/849	0.830	0.849
850/865	0.850	0.865
866/881	0.866	0.881
882/894	0.882	0.894
895/910	0.895	0.910
911/926	0.911	0.926
927/937	0.927	0.937
938/950	0.938	0.950
951/964	0.951	0.964
965/979	0.965	0.979

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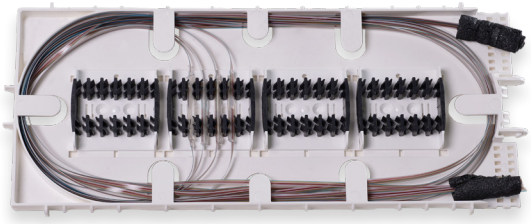
Opti-Guard Splice Tray – OGST02

The OGST02 splice tray is the new standard splice tray for the Opti-Guard OG03 enclosure. The tray utilizes four modular splice holders and supports multiple splice configurations. Splice capacity varies depending on splice type, splice protection sleeve, fiber type, and whether splices are single- or double-stacked.

The OG03 accommodates up to seven OGST02 splice trays when used with the ASTROGUARD hardware system.

Tray dimensions: approximately 12.120 in. x 5.183 in. x 0.740 in.



OGST02 Splice Tray

NOTES

- New-production vs. retrofit: ASTROGUARD tray-retention hardware is standard in newly manufactured OG03 enclosures. Existing OG03 enclosures can be upgraded using the AGHWK retrofit hardware kit. This makes it immediately clear that someone buying a new OG03 does not also need to order AGHWK.
- Retrofit compatibility: The AGHWK retro-fit hardware kit allows existing OG03 enclosures to use the new OGST02 trays—up to 24 trays using standard sleeves and up to 96 trays using slim sleeves.

Ordering Information

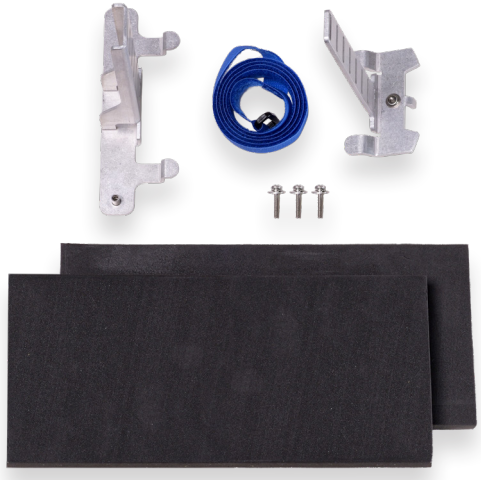
Model	AFL No.
OGST02 Splice Tray	OGST02
40 mm Splice Protection Sleeve (10 Per Pack)	SPS40
60 mm Splice Protection Sleeve (10 Per Pack)	SPS60
60 mm Slim Splice Protection Sleeve	S018263
40 mm Slim Splice Protection Sleeve	S018262

ASTROGUARD Hardware System

The ASTROGUARD tray-retention hardware is standard in newly manufactured Opti-Guard OG03 Enclosures. Existing OG03 enclosures can be upgraded using the AGHWK retrofit hardware kit.

Features

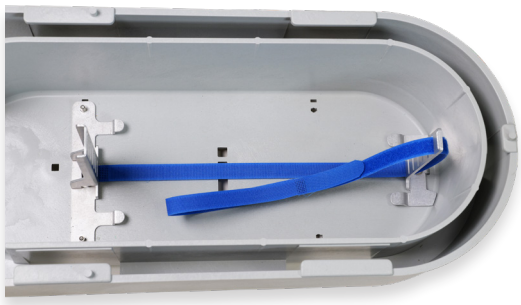
- Can be retrofitted onto existing installations without disturbing cables
- Only a standard flat-blade screwdriver required for installation



ASTROGUARD Hardware Kit includes: 2 brackets, 3 screws, Velcro® straps, and foam pads.

Ordering Information

Model	AFL No.
ASTROGUARD Retrofit Hardware Kit	AGHWK



ASTROGUARD Hardware Kit installed in empty Opti-Guard OG03 Enclosure.

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Opti-Guard Bullet Guard

The Opti-Guard Bullet Guard is designed to supplement the ballistic resistance of the Opti-Guard Splice Enclosure.

Opti-Guard Bullet Guard

Features

- Can be retrofitted onto existing installations without disturbing cables
- Only a standard flat-blade screwdriver required for installation

Ordering Information

Model	AFL No.
Opti-Guard Bullet Guard	OGBGS-01

Opti-Guard Fiber Routing Kit

The Opti-Guard Fiber Routing Kit provides all of the materials to properly route fibers from a stainless steel tube to the OGST01-72 splice tray inside the Opti-Guard splice enclosure.

Opti-Guard Fiber Routing Kit

Features

- Primary transition tubing leads fiber from stainless steel tube to splice tray
- Heat Shrink tubing guides fibers as they exit the stainless steel tube
- Cable ties provided to secure tubing to the tray and the end of the stainless steel tube

Ordering Information

Model	AFL No.
Opti-Guard Fiber Routing Kit	OGFK01

NOTE: Order one kit for each stainless steel tube.

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