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From Copper to Fiber, From Wired to Wireless

OSP Playbook

Technity Solutions Inc.
2025

01

PART ONE

Fiber Distribution Hub



Item Number	FDH-144F	FDH-288F	FDH-432F
FDH Cabinet	144 Cores	288 Cores	432 Cores
Dimensions	1350×450×430mm	1350×450×430mm	1320×550×450mm
Weight	54kg	57kg	58kg
Port Density	144	288	432
Feeder/Express Ports	48	48	48
Cable Entrances	6	6	6
Mounting Options	Vault mount	Vault mount	Vault mount
Splitter Slots	9	9	14
Cassette Types Supported	12 cores Splice Cassette	12 cores Splice Cassette	12 cores Splice Cassette
Connector Types	SC/UPC, SC/APC, LC/UPC, LC/APC		
Cable Types	Indoor/Outdoor, Outdoor (Riser/Non-Rated), Outdoor Armored (Riser/Non-Rated)		
Splice Capacity	12 splices in each Splice Cassette		
Ground Locate Box	Yes - Optional		
Material	Galvanized steel plate with powder coating		

KEY PRODUCT BENEFITS

- 432 Fiber distribution and PON splitting
- Modular patch & splice cassettes for added flexibility
- Available with feeder and distributions factory stubs
- Additional splicing capacity for express cables
- Side door distribution access
- Removable doors with padlock hasp
- Pole, wall and pad mount options
- Pad skirt options for extra slack storage

INDUSTRY STANDARDS COMPLIANCE
GR-3125, GR-1209, GR-1221, GR-326, GR-20

- Mount FDH to 30x48 Vault (P/N: HDV-3048).
- Dual lid provides mounting and access to fiber

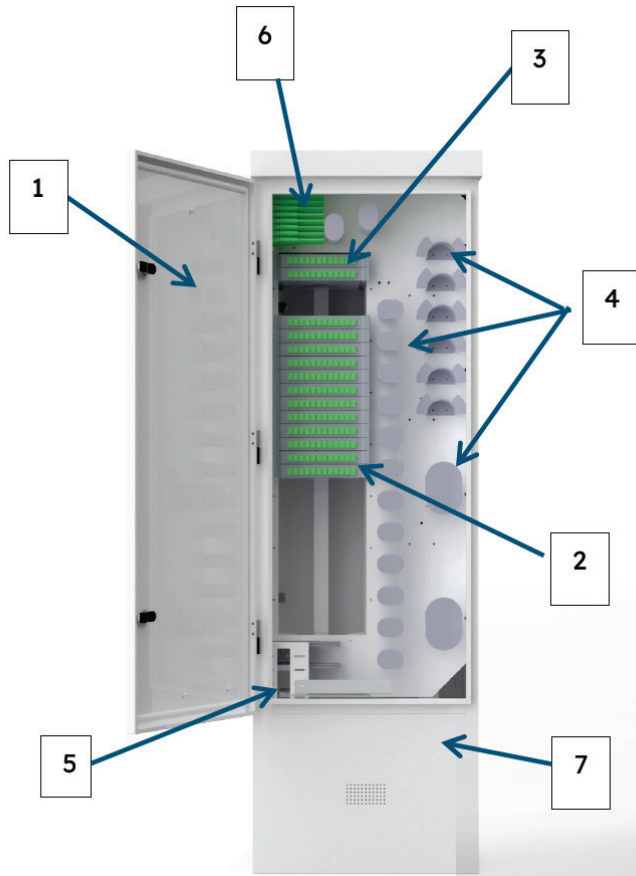
FDH series

Fiber Distribution Hub

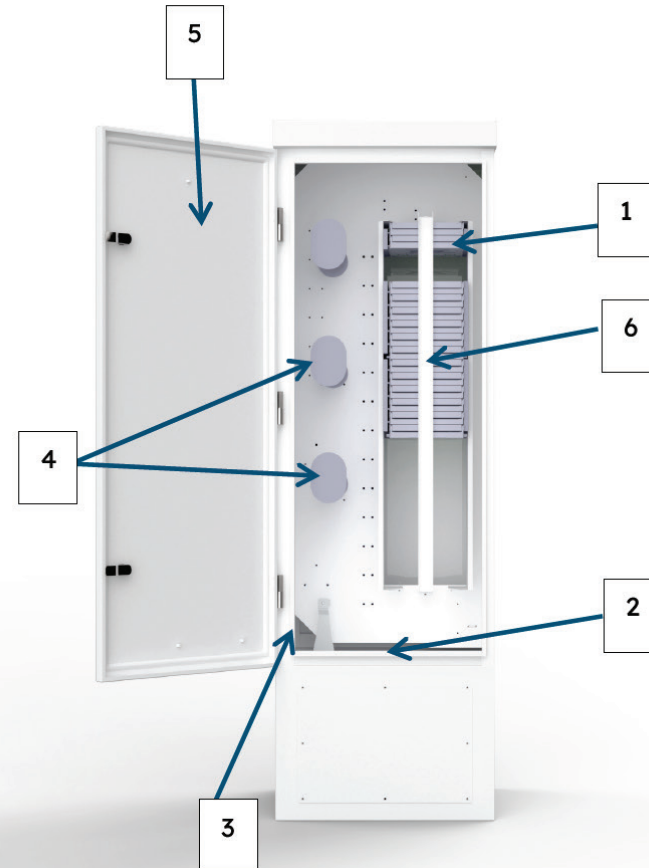
Modular FDH
Pole/Pad Mount
Enclosure

Usage For
PON
FTTX
MDU

144/288 Core FDH with Full Mount Splice Tray

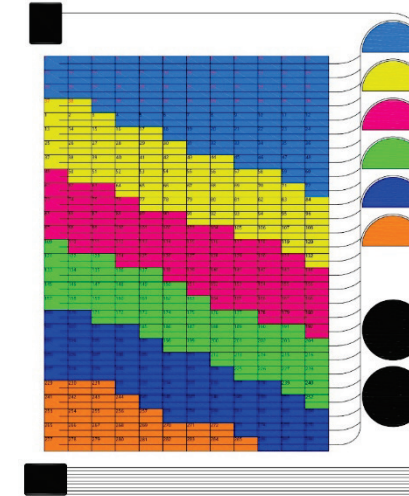


1. Fiber Route Label
2. Distribution Cassettes
3. Feeder Cassettes
4. Fiber Management Rods and Spools
5. Fiber Splitter Storage
6. Connector Parking Plate
7. Riser



1. Distribution and Feeder Cassettes
2. Distribution and Feeder Cable Ports
3. Grounding wire
4. Fiber Management Rods and Spools
5. Tools storage pocket
6. Splice Cassettes magnetic fixing bar

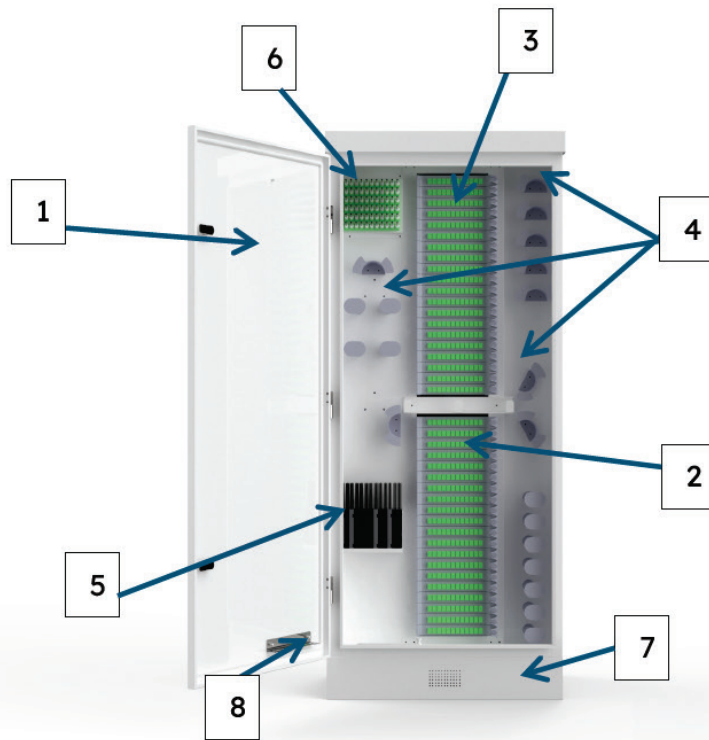
Fiber Route for FDH-144/288F



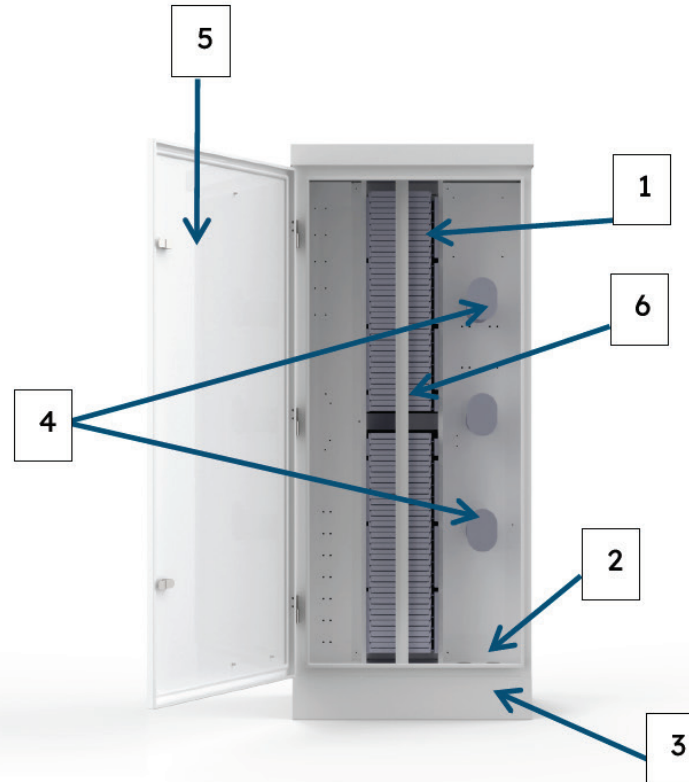
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432 Core FDH with Full Mount Splice Tray

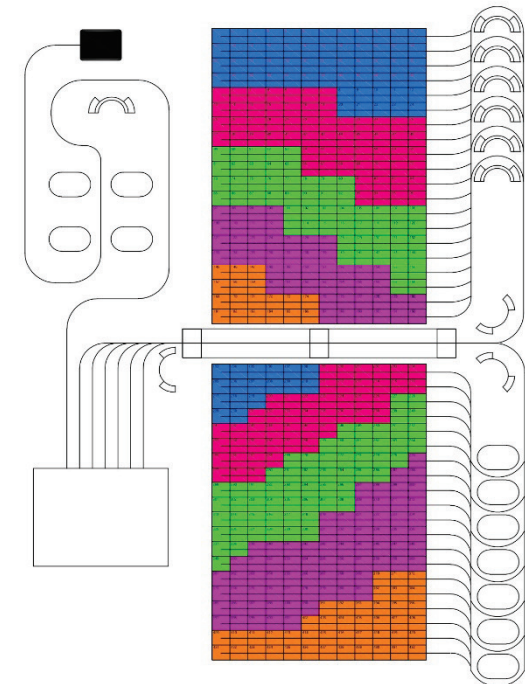


1. Fiber Route Label
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3. Feeder Cassettes
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1. Distribution and Feeder Cassettes
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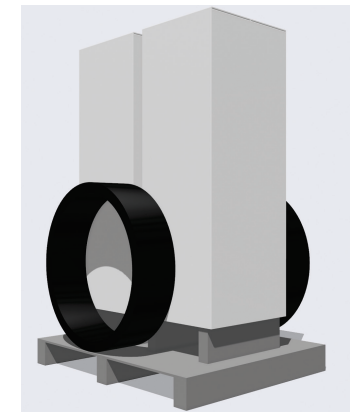
Fiber Route for FDH-432F



FDH Standard Ordering Information

Item Number	Description
FDH-144F	144 cores FDH full loaded with 14 pcs 12F single fusion fiber splice trays with 0.9mm G657A1 pigtails.
FDH-144FR	144 cores FDH full loaded with 14 pcs 12F ribbon fiber splice trays with 0.9mm G657A1 pigtails.
FDH-288F	288 cores FDH full loaded with 28 pcs 12F single fusion fiber splice trays with 0.9mm G657A1 pigtails.
FDH-288FR	288 cores FDH full loaded with 28 pcs 12F ribbon fiber splice trays with 0.9mm G657A1 pigtails.
FDH-432F	432 cores FDH full loaded with 40 pcs 12F single fusion fiber splice trays with 0.9mm G657A1 pigtails.
FDH-432FR	432 cores FDH full loaded with 40 pcs 12F ribbon fiber splice trays with 0.9mm G657A1 pigtails.

We support fully customization on FDH
 E.g. with 30 meters long pre-spliced fiber pigtail that easy for you to splice in truck on site!
 Not needed to splice at FDH.



Accessories - 12 Fiber Splice Tray

Item Number		Description
CST-12F		SC/APC 12 Fiber On Pigtail G657A1 PVC 0.9mm 1.5M 14 trays in 144F FDH 28 trays in 288F FDH 40 trays in 432F FDH Standard number of splice trays shown per cabinet Additional splice trays can be ordered
CST-12FR		SC/APC 12 Fiber Splice On Ribbon Fanout Pigtail 1.5M 14 trays in 144F FDH 28 trays in 288F FDH 40 trays in 432F FDH Standard number of splice trays shown per cabinet Additional splice trays can be ordered

- Splice tray can be customized based on need

Accessories – Box PLC Splitter



Technical details

Order splitters separately

Box PLC SPECIFICATION										
Wavelength (nm)	1260-1650									
Fiber Type	Single mode (G657.A2)									
Optical Fiber Length	1500mm, can be customized									
Jacket O.D.	2.0mm, can be customized									
Splitter Ratio	1×4	1×8	1×16	1×32	1×64	2×4	2×8	2×16	2×32	2x64
Insertion Loss (with connector) (dB)	≤7.4	≤10.5	≤13.8	≤17.1	≤20.4	≤7.5	≤10.8	≤14.1	≤17.4	≤21
Uniformity (dB)	≤0.8	≤0.8	≤1.0	≤1.3	≤2.0	≤1.0	≤1.0	≤1.5	≤2.0	≤2.5
PDL (dB)	≤0.2	≤0.2	≤0.19	≤0.18	≤0.17	≤0.2	≤0.18	≤0.17	≤0.16	≤0.19
Size(H×W×L) (mm)	10×80×100		18×80×120		18x115x141		10×80×100		18×80×120 18x115x141	
Return Loss(dB)	UPC≥50 APC≥55									
Directivity(dB)	≥55									
ITEM NUMBER			DESCRIPTION							
BPLC-XXX-YYY			Box type PLC, with selection of different connector type and splitter ratio Cable O.D. is 2.0mm. Input and output length can be customized; default are 1.5 meter.							
XXX				Connector Type SCA - SC/APC SCU - SC/UPC LCA - LC/APC LCU - LC/UPC						
YYY				Splitter Ratio 104 - 1:4 type 108 - 1:8 type 116 - 1:16 type 132 - 1:32 type 164 - 1:64 type						

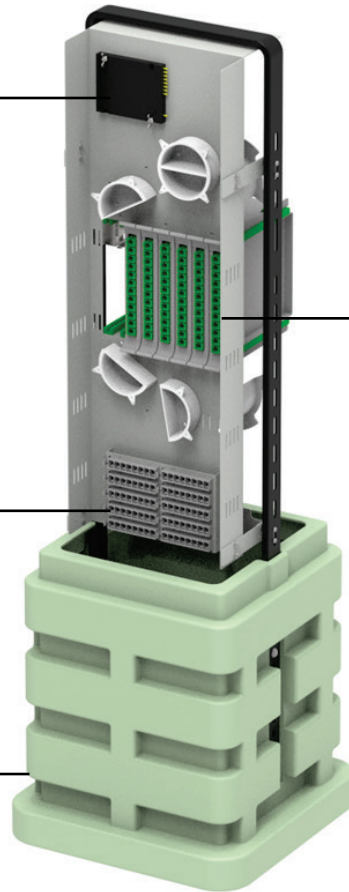
NEW SureAlign[®] Neighborhood FDH in Pedestal

1:32 box type
splitter

One-Piece Fiber Splice Tray,
12 ports.
Maximum install 7 trays.
(12F input/72F output)

Adapter berths
80 pcs

PD-141446
Pedestal



- **Network Expansion Option:**
 - MDU-Apartment
 - Subdivision
 - Retail Strip Center
- **Flexible Fiber Tray Setup:**
 - Ribbon or Single Fiber tray
 - 72 Fiber output downstream
 - 12 Fiber input to splitters
- **Optional Box Splitters:**
 - Maximum 3 pcs splitter up to 1:32

SureAlign® Neighborhood FDH in Pedestal



02

PART TWO

FSC: Fiber optic Splice Closure In-Line & Dome Style

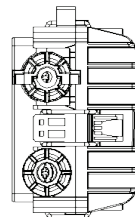
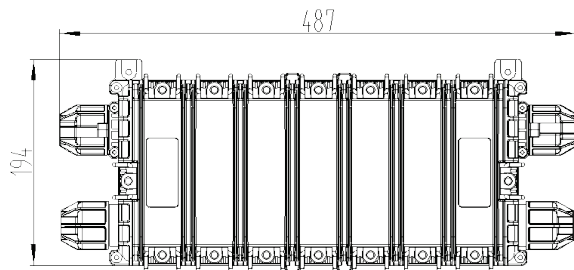
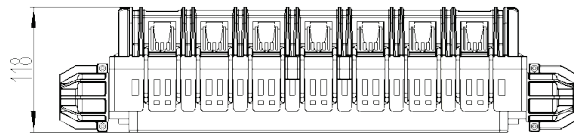
FSC Fiber Splice Closures Series

- Sealing: Mechanical & SureSeal
- Fiber Handling: Number of Splices or Fibers
- Type: Dome, In-Line
- Mounting: Aerial, Vault, Pole, Wall... IP68 grade
- Applications: Distribution, Feeder

SureAlign® Horizontal in-line FSC Summary

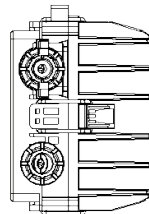
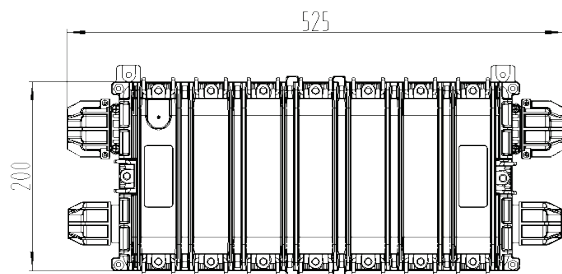
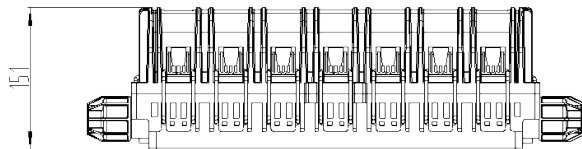
Item Number	Max Splice Capacity	Cabel Port	No. Of Splice Trays/Type	Max Splice Capacity
FSC-1142	72F	4 round ports for 10-18mm cable 2x2 Inline ports	3 pcs @ 24 ea.	72F
FSC-1343	288F	4 round ports for 10-18mm cable	6 pcs @ 48 ea.	288F

SureAlign® 72F FSC-1142 Details



Item Number	FSC-1142
Style	In-line/ Horizontal
Dimensions	487(L)×194(W)×118(H) mm
Weight (kg)	3.5 - 4.0
Material	PP+GF
Sealing Type	Mechanical Seal
Protection Grade	IP68
Cable ports	4
Cable diameter	Φ 10-18 mm
Fiber Splice Capacity	72
Tray Capacity	24
Tray Count	3
Application	Aerial mounting, Manhole mounting, Wall mounting and underground

SureAlign® 288F FSC-1344 Details



Item Number	FSC-1343
Style	In-line/ Horizontal
Dimensions	525(L) × 200(W) × 151(H) mm
Weight (kg)	3.5 - 4.0
Material	PP+GF
Sealing Type	Mechanical Seal
Protection Grade	IP68
Cable ports	4
Cable diameter	Φ 10-18 mm
Fiber Splice Capacity	288
Tray Capacity	48
Tray Count	6
Application	Aerial mounting, Manhole mounting, Wall mounting and underground

SureAlign® Horizontal FSC Ordering Info

Item Number	Description	Info
FSC-1142	Fiber Optic Splice Closure, IP68 grade, 2 in 2 out for 10-18mm cable, 72 Fiber splice capacity, with 3 trays @24F, with wall mount kit	MP. 6 per carton 96/pallet 2304/40HQ
FSC-1344	Fiber Optic Splice Closure, IP68 grade, 2 in 2 out for 10-18mm cable, 288 Fiber splice capacity, with 6 trays @48F, with wall mount kit	MP. 6 per carton 72/pallet 1440/HQ

SureAlign® Domed FSC Splice Closures Summary

Type	Closure Size	Item Number	Max Splice Capacity	Cable Port	No. Of Splice Trays/Type
Mechanical Seal	A	<u>FSC-2141</u>	48F	4 round ports for 8-16mm cable	4 pcs @ 12F
		<u>FSC-2151</u>	72F	1 oval port for 8-18mm cable 4 branch ports for 8-18mm cable	6 pcs @ 12F
		<u>FSC-2252</u>	144F	1 oval port for 8-18mm cable 4 branch ports for 8-18mm cable	6 pcs @ 24F
	B	<u>FSC-2372</u>	288F	1 oval port for 10-22mm cable 6 branch ports for 8-18mm cable	12 pcs @ 24F
	D	<u>FSC-2476</u>	576F	1 oval port for 10-22mm cable 6 round ports for 8-18mm cable	6 pcs @ 96F
	D	<u>FSC-2492</u>	648F	1 oval port for 10-22mm cable 7 branch ports for 8-18mm cable 2 drop ports for 2*3mm drop cable	27 pcs @ 24F
Gel Seal	B	<u>FSC-3382</u>	288F	8 Gel ports for 3-28mm cable	6 pcs @ 48F

FSC-2141 - 48 Fiber, Mechanical Seal



Key Specification			
Dimension	342×Φ183	Weight	1.5Kg
Material	PP+GF	Protection level	IP68
No. of entry cable	4 x Round port	Splice tray	12F
Cable diameter	Round port : Φ8mm~16mm	Max splicing capacity	48F
Sealing mode	Mechanical	Installation mode	Pole/Aerial/Wall/Manhole



FSC-2151 - 72 Fiber, Mechanical Seal



Key Specification			
Dimension	395×Φ225	Weight	3.0Kg
Material	PP+GF	Protection level	IP68
No. of entry cable	5 Round ports	Splice tray	12F
Cable diameter	Oval port: Φ8mm~18mm Branch port : Φ8mm~18mm	Max splicing capacity	72F
Sealing mode	Mechanical	Installation mode	Pole/Aerial/Manhole



FSC-2252 - 144 Fiber, Mechanical Seal

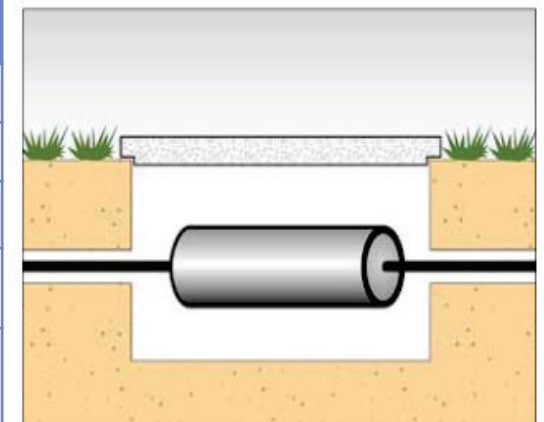


Key Specification			
Dimension	460×Φ225	Weight	3.5~4.5Kg
Material	PP+GF	Protection level	IP68
No. of entry cable	1*Oval+4*Round	Installation mode	Wall/Pole/Aerial/Manhole
Cable diameter	1*Oval port: Φ8mm~18mm 4*Round port : Φ8mm~18mm	Single tray/Ribbon tray	24F(Single) ; 72F/96F for 6f/12f (Ribbon)
		Max capacity	144F(Single) ; 432F/576F(Ribbon)

FSC-2372 - 288 Fiber, Mechanical Seal



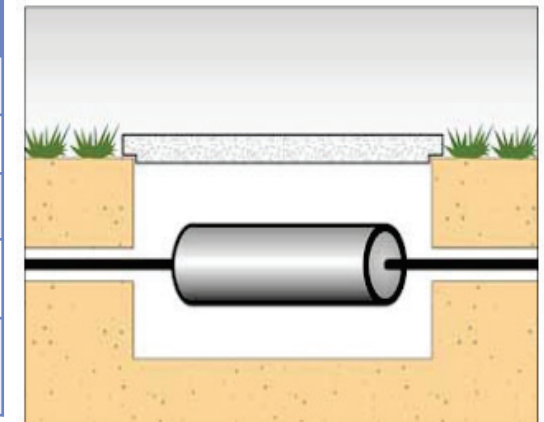
Key Specification			
Dimension	610×Φ260	Weight	4~4.5Kg
Material	PP+GF	Protection level	IP68
No of entry cable	1*Oval+6*Round	Installation mode	Pole/Aerial/Manhole
Cable diameter	Oval port: Φ10mm~22mm Round port : Φ8mm~18mm	Single tray	24F
		Max capacity	288F



FSC-2476 - 576 Fiber, Mechanical Seal



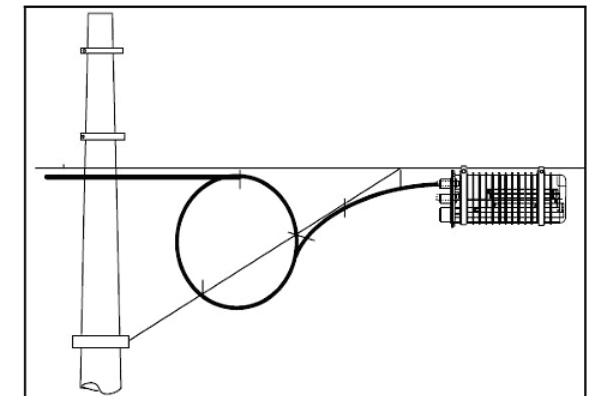
Key Specification			
Dimension	610×Φ260	Weight	4.5 ~ 4.5Kg
Material	PP+GF	Protection level	IP68
No. of entry cable	1*Oval+6*Round	Installation mode	Pole/Aerial/Manhole
Cable diameter	Oval port: Φ10mm~22mm Round port : Φ8mm~18mm	Single tray	96F
		Max capacity	576F



FSC-2492 - 648 Fiber, Mechanical Seal

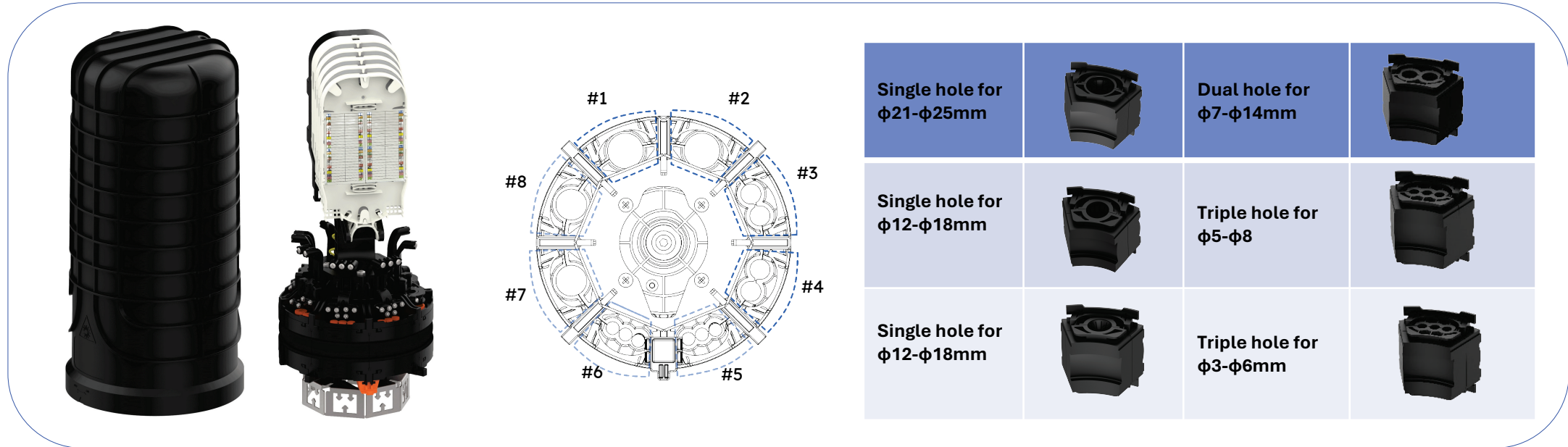


Key Specification			
Dimension	660×265mm	Weight	7.5~8.0Kg
Material	PP+GF	Protection level	IP68
No. of entry cable	1*Oval+7*Round +2*drop port	Installation mode	Pole/Aerial/Wall
Cable diameter	1*Oval port: $\Phi 10\text{mm} \sim 22\text{mm}$	Splice tray	24F/12F/6F
	7*Round port : $\Phi 8\text{mm} \sim 18\text{mm}$ 2*Drop port : $\Phi 2 \times 3\text{mm}$	Max capacity	648F



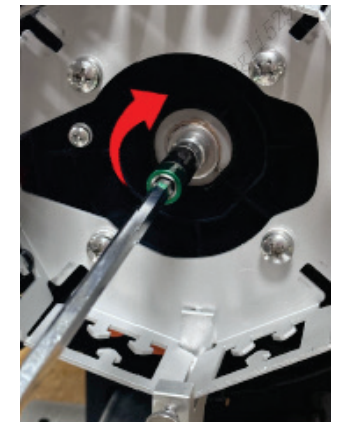
[Aerial Installation]

FSC-3382 - 144 & 288 Splices, SureSeal



Item	Details	
Dimensions	9.7" x 21.25" (246mm x 540mm)	
Sealing Type	Mechanical and gel seal	
Protection Grade	IP68	
Cable ports	8	Gel Seal Module Support $\phi 3 - \phi 25$ mm
Closure Max Capacity	Single fiber splicing	288f
Splice Tray Capacity	Single fiber splicing per tray	48f
Max No. tray installed	6 pcs	
Color	Black	
Installation	Aerial, wall, pole, manhole etc.	

- One Size For 144F Or 288F
- 6pcs 48F Fiber Splice Tray
- 8 Configurable Gel Modules, 6 Types
- No Clamps Or O-rings
- One Step Twist To Lock



Dome FSC Standard Configuration Ordering Info

Item Number	Description	Packaging
FSC-2141	Dome Type Fiber Optic Splice Closure, IP68 grade, 4 round port, 48 fiber capacity with 4 trays @12F with wall mount kit	1,944 EA/40HQ
FSC-2151	Dome Type Fiber Optic Splice Closure, IP68 grade, 1 oval port and 4 round ports. 72 fiber capacity with 6pcs trays @12F with wall mount kit	1,152 EA/40HQ
FSC-2252	Dome Type Fiber Optic Splice Closure, IP68 grade, 1 oval port and 4 round ports. 144 fiber capacity with 6pcs trays@24F with wall mount kit	1,344 EA/40HQ
FSC-2372	Dome Type Fiber Optic Splice Closure, IP68 grade, 1 oval port and 6 round ports. 288 fiber capacity with 12pcs trays @24F with wall mount kit	864 EA/40HQ
FSC-2476	Dome Type Fiber Optic Splice Closure, IP68 grade, 1 oval port and 6 round ports, 576 fiber capacity with 6pcs trays @96F with wall mount kit	864 EA/40HQ
FSC-2492	Dome Type Fiber Optic Splice Closure, IP68 grade, 1 oval port and 7 round ports and 2 drop ports, 648 fiber capacity with 27pcs trays @24F with wall mount kit	540 EA/40HQ
FSC-3382	Dome Type Fiber Optic Splice Closure, Gel sealed , IP68 grade, 288 fiber capacity with 1 pc 5-8mm gel module, 2 pcs 7-14mm gel modules, 1 pcs 16-22mm gel module and 4 pcs dummy gel modules with 6pcs trays @48F with wall mount kit	1,008 EA/40HQ

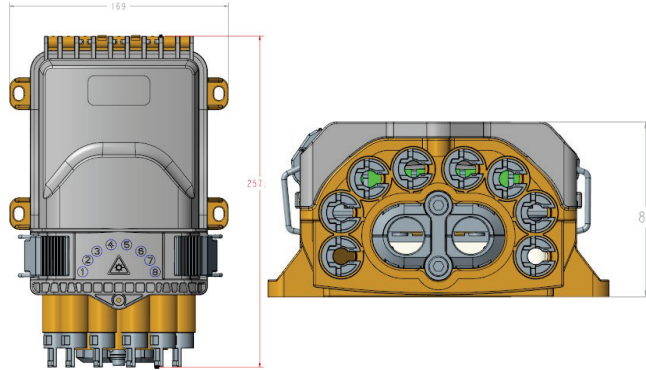
PART THREE

FSIC: Fiber Splice Closure with Internal Connector

SureAlign® FSIC Summary

Application	Item Number	IP Grade	Cable Port	Trays X Splices	Max Splice Capacity	Installation
Hybrid Feeder & Drop Network	FSIC-5412	IP68	1 Oval Port 8 Drop Ports	1 Tray @24F	24F	Aerial, Vault, Pole, Ped
Hybrid Feeder & Drop Network	FSIC-5624	IP68	1 Oval Port For 10-17.5mm 2 Branch Ports For 10-17.5mm 16 Drop Ports	4 Trays @24F	96F	Aerial, Vault, Pole, Ped

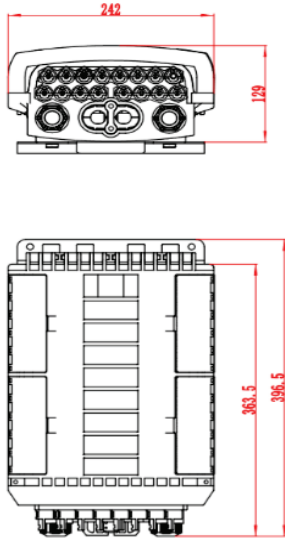
SureAlign® FSIC-5412 Standard Details



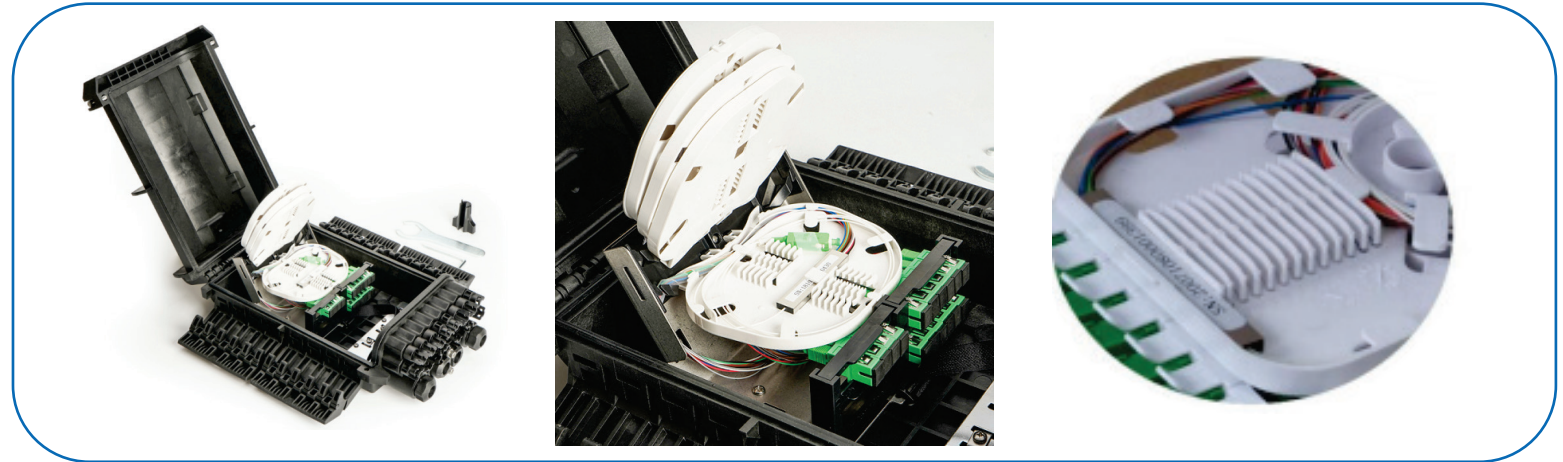
FSIC-5412 is used as a termination point for the feeder cable to connect with 8 drop cables in FTTH network system. It is designed to seal without screws. The compact size and flip-over cover bring easy operation as well as multi-purpose application. It could be installed in aerial, wall, pole, vault and ped mounted environments.

Item Number	FSIC-5412
Size (mm)	256x169x86
Gross Weight(kg)	1.4
No. of Cable Entry	1 un-cut cable, $\Phi 10\text{mm} \sim 17.5\text{mm}$
No. of Drop Cable	8 pcs drop cable, $\Phi 4 \times 7\text{mm}$ or $\Phi 3\text{-}8\text{mm}$ round cable
Adapter	8 pcs SC/APC
Splitter	1:8 Micro splitter
Splice Tray	24F
Max Capacity	24F
Waterproof Level	IP68
Installation Method	Pole/Wall/ Aerial mounted
Operation Temperature	- 45°C~85°C

SureAlign® FSIC-5624 Details



FSIC-5624 is used as a termination point for the feeder cable to connect with 16 drop cables in FTTH network system. It is designed to seal without screws. The compact size and flip-over cover bring easy operation as well as multi-purpose application. It could be installed in aerial, wall, pole, vault and ped environments.



Item Number		FSIC-5624	
Style		In-line/ Horizontal	
Dimensions		380(L)×245(W)×130(H) mm	
Weight (kg)		4.5 – 5.0	
Material		PP+GF	
Sealing Type		Mechanical Seal	
Protection Grade		IP68	
Cable ports		1 oval port(Φ 10-17.5 mm); 2 branch ports(Φ 10-17.5 mm) 16 drop cable ports(2x3mm, 4x7mm, 4x8mm flat drop cable, 3-8mm round cable)	
Fiber Splice Capacity		96F	
Tray Capacity		24F	
Tray Count		4 PCS	
Component	Splitter	Maximum 4* 1x8 PLC splitter, or 1:2/1:4/1:16 splitter	Adaptor 16pcs SC
Application		Pedestal/Wall /Pole Mounting	

SureAlign® Fiber Splice Closure with Internal Connectors

Standard Configuration Ordering Info

ITEM NUMBER	DESCRIPTION	INFO
FSIC-5412	Hybrid type fiber optic splice closure with 8 internal drop connectors, IP68 grade, 1 oval port (2-round prts,7.5-15mm cable), mechanical seal, 24 fiber splice capacity, With 1:8 PLC micro splitter With wall mount kit	5,632 EA/40HQ
FISC-5624	Hybrid type fiber optic splice closure with 16 internal drop connectors, IP68 grade, 1 oval port (2-round prts,7.5-15mm cable) and 2 round ports, mechanical seal, 96 fiber splice capacity, With 1:16 PLC micro splitter With 4 trays @24F With wall mount kit	2,160 EA/40HQ

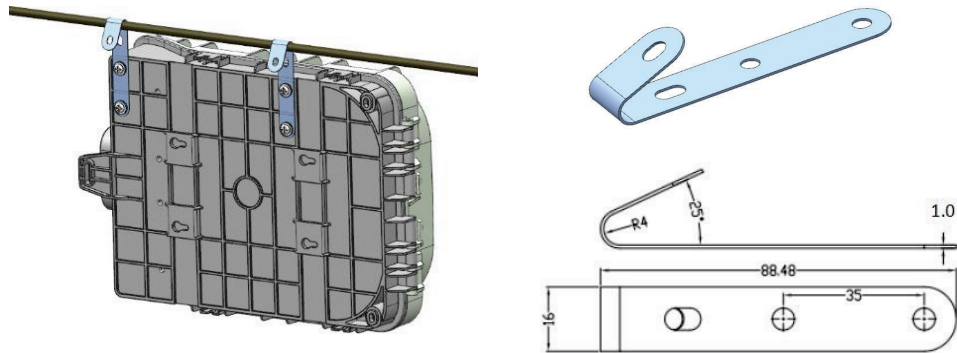
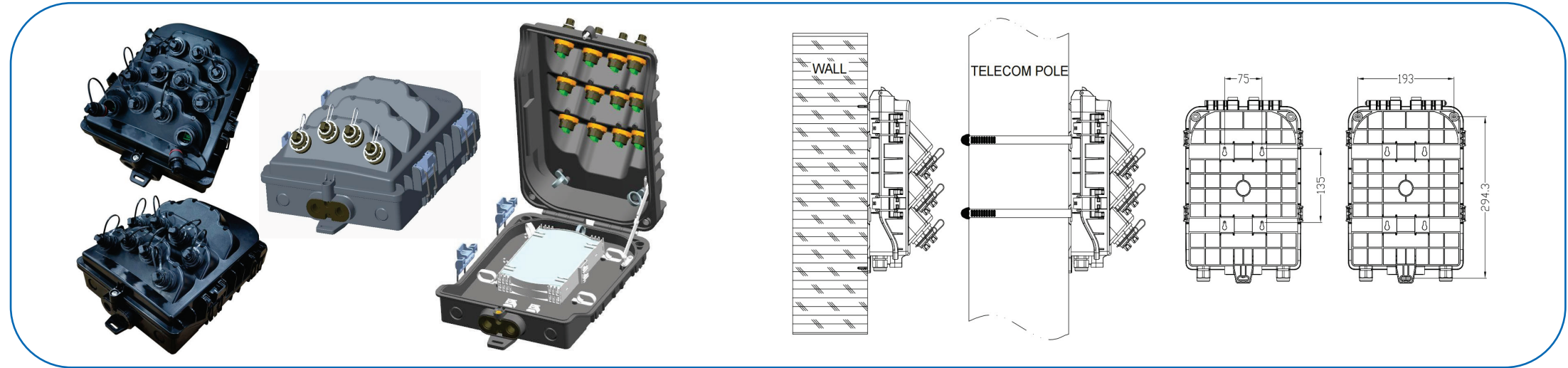
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FSHC: Fiber Splice Closure with Hardened Connector

FSHC: Fiber Splice Closure w/ Hardened Drops Summary

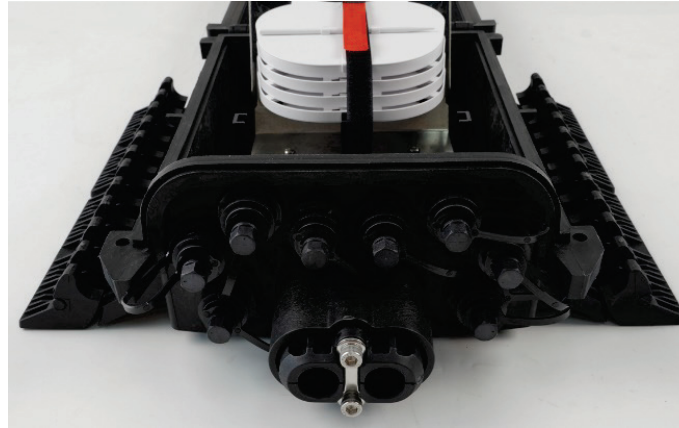
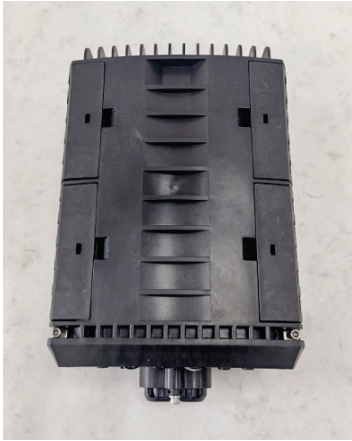
Application	Item Number	Cable Port	Trays X Splices	Max Splice Capacity	Installation
Hybrid Feeder & Drop Network	FSHC-4717	1 oval port for 3-15 mm cable 4/8/12 Mini-IP (Optitap compatible) drop ports mechanical seal	2 Trays @24F	48F	Aerial, Vault, Pole, Ped
Hybrid Feeder & Drop Network	FSHC-4613	1 oval port for 8-18mm cable 8 Mini-IP (Optitap compatible) hardened drop ports mechanical seal	4 Trays @24F	96F	Aerial, Vault, Pole, Ped
Hybrid Feeder & Drop Network	FSHC-4544	6 round ports for 3-16mm cable 16 Mini-IP (Optitap compatible) hardened drop ports mechanical seal	3 Trays @24F	72F	Aerial, Vault, Pole, Ped
Hybrid Feeder & Drop Network	FSHC-4625	1 oval port for 8-18mm cable 2 round ports for 8-18mm cable 8 Mini-SC drop ports mechanical seal	4 Trays @24F	96F	Aerial, Vault, Pole, Ped
Hybrid Feeder & Drop Network	FSHC-4636	1 oval port for 8-18mm cable 2 round ports for 8-18mm cable 16 Mini-SC drop ports mechanical seal	4 Trays @24F	96F	Aerial, Vault, Pole, Ped

SureAlign® FSHC-4717 Details



Item Number	FSHC-4717
Dimensions	330x232x127 mm (13 x 9 x 5 in.)
Color	Black
Material	PC/ABS
Splitter in the Tray	Micro PLC Splitter 1:4, 1:8, 1:12
Splice Capacity	2 trays @ 12F/24F
Main Cable	2 x Ø15 mm
Drop Ports	4/8/12 Mini-IP (Optitap Compatible)
Cable	0.9 mm LC or 1.5 mm SC pigtail length
Mounting	Wall mount, pole mount or aerial mount
Protection Level	IP67

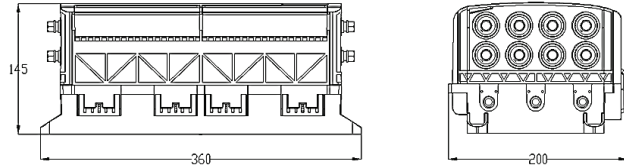
SureAlign® FSHC-4613 Details



FSHC-4613 is an 8-port terminal box providing Mini-IP hardened adaptor(Optitap compatible) to connect with end user in FTTH network system. It is designed to seal without screws. The compact size and flip-up cover is easy to use in multiple applications. Install in aerial, wall, pole and underground environments

Item	Details
Dimensions (mm)	380(L)×245(W)×130(H) mm
Weight (kg)	3.2-3.5
Material	PP+G
Sealing Type	Mechanical Seal
Protection Grade	IP68
Cable ports	1 Oval port
Cable diameter	Φ8-14mm, Φ14-18mm
Fiber Splice Capacity	96F
Tray Capacity	24F
Max Tray No.	4 pcs
Splitter (optional, not equipped by default)	Each tray can install 1* 1:8 mini-PLC
Hardened Adaptors	8 pcs Mini-IP (Optitap compatible)
Application	Aerial, wall/vault, pole mount

SureAlign® FSHC-4544 Details



Features

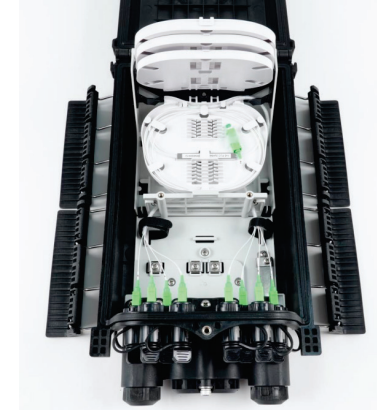
- Structure: Easy open hinge structure, IP68-watertight and user friendly
- Capacity: maximum 72F.
- 3 ports on each side, suitable for $\Phi 3-7\text{mm}$, $\Phi 8-12\text{mm}$, $\Phi 12-16\text{mm}$ cables.
- Sealing: the closure sealed by buckles, meet or exceeds IP68.
- Compatible with different hardened adapters by changing insert

Item	Details
Style	Hinge
Dimensions(mm)	360(L) $\times$ 200(W) $\times$ 145(H) mm
Weight (kg)	3.0-3.5
Material	PP+G
Sealing Type	Mechanical Seal
Protection Grade	IP68
Cable ports	Inlet: 3 ports; Outlet: 3 ports
Cable diameter	$\Phi 3-7\text{mm}$, $\Phi 8-12\text{mm}$, $\Phi 12-16\text{mm}$
Fiber Splice Capacity	72F
Tray Capacity	24F
Max Tray Qty	3 pcs
Splitter (optional, not equipped by default)	Support 2pc 1:8 splitters or 1pc 1:16 splitter

Mini IP-C Opti Port Only



SureAlign® FSHC-4625 Details

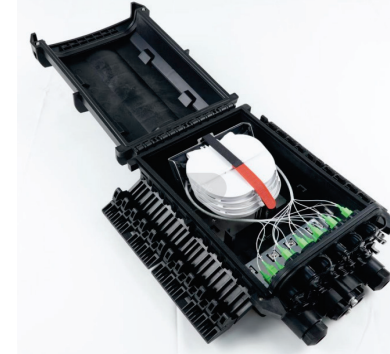
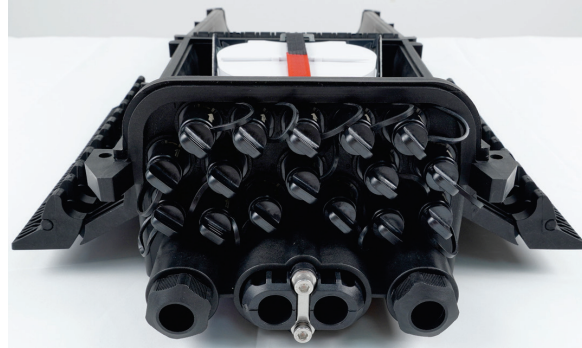


Features

- Structure: Easy open hinge structure, IP68-watertight and user friendly
- Capacity: maximum 96F.
- 1 oval port, 2 branch ports
- Suitable for $\Phi 8$ -18mm cables.
- Sealing: the closure sealed by buckles, meet or exceeds IP68.
- 8 Mini-SC hardened connectors

Item Number	FSHC-4625
Size (mm)	370(L)*210(W)*124(H)mm
Gross Weight (kg)	3.3
No of Cable Entry	1 oval port: $\Phi 8$ mm~18mm; 2 branch port: $\Phi 8$ mm~18mm
Adapter	8 pcs Mini-SC hardened SC/APC adaptors
Splitter	1:8 PLC splitter
Splice Tray	24F
Max Capacity	96F
Waterproof level	IP68
Installation Method	Wall/ Aerial /Pedestal mounted
Operation temperature	-45°C~85°C

SureAlign® FSHC-4636 Details



Features

- Structure: Easy open hinge structure, IP68-watertight and user friendly
- Capacity: maximum 96F.
- 1 oval port, 2 branch ports
- Suitable for $\Phi 8$ -18mm cables.
- Sealing: the closure sealed by buckles, meet or exceeds IP68.
- 16 Mini-SC hardened connectors

Item Number	FSHC-4636
Size (mm)	380(L)x245(W)x130(H)
Gross Weight (kg)	3.5
No. of Cable Entry	1 oval port: $\Phi 8\text{mm} \sim 18\text{mm}$;
	2 branch ports: $\Phi 8\text{mm} \sim 18\text{mm}$
Adapter	16 pcs Mini-SC hardened SC/APC adaptors
Splitter	1:16 PLC splitter
Splice Tray	24F
Max Capacity	96F
Waterproof Level	IP68
Installation Method	Wall/ Aerial /Pedestal mounted

SureAlign® FSHC Standard Configuration Ordering Info

Item Number	Description
FSHC-4717	Fiber Splice Closure with Hardened Connector, IP67 grade, 1 oval port 12 Mini-IP hardened connectors. 48 fiber capacity. With 2 trays @24F With wall mount kit
FSHC-4613	Fiber Splice Closure with Hardened Connector, IP68 grade, 1 oval port 8 Mini-IP hardened connectors. 94 fiber capacity With 4 trays @24F With wall mount kit
FSHC-4544	Fiber Splice Closure with Hardened Connector, IP68 grade, 3 in 3 out round ports 16 Mini-IP hardened connectors. 72 fiber capacity With 3 trays @24F With wall mount kit
FSHC-4625	Fiber Splice Closure with Hardened Connector, IP68 grade, 1 oval port and 2 round ports 8 Mini-SC hardened connectors, 96 fiber capacity With 4 trays @24F With wall mount kit
FSHC-4636	Fiber Splice Closure with Hardened Connector, IP68 grade, 1 oval port and 2 round ports 16 Mini-SC hardened connectors, 96 fiber capacity With 4 trays @24F With wall mount kit

05

PART FIVE

Drop Network Fast Access Terminal (FAT)

SureAlign® Fast Access Terminal (FAT)

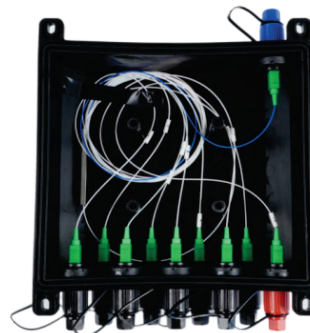
- Pre-configured small form factor... saves space and mounts anywhere, IP-68 @ 8"x8"x3"
- Cost effective for product and construction
- KISS... keep it simple with colorized connectors... red for input and blue for pass through
- Flexible Applications:
 - FAT-108: 1 Red input + 8 Drops... has 1:8 micro splitter
 - FAT-109: 1 Red input + 8 Drops + 1 Blue throughput... has 1:9 micro splitter (70% Blue/30% Black)
 - FAT-116: 1 Red input + 16 Drops... has 1x16 micro splitter
 - FAT-117: 1 Red input + 16 Drops + 1 Blue throughput... has balanced 1:2 and 1:16 micro splitters
 - Unbalanced splitters available, standard is 1:9 & 1:17 with splits of 70% on 1 fiber, 30% on rest of fibers
 - Customizable 8 port can be a 4 port per configuration tool (a 16 port can be a 12)
- Drop connectors are Mini-SC or SureAlign
- Drop Fiber configurations...
 - Mini-SC + Ballistic with push/pull bullet over a factory installed SC-APC connector (round fiber only)
 - Mini-SC + Non-connector-ized drop fiber and install a FC mechanical fiber connector
 - Mini-SC Dual hardened connector both ends

FAT 9/10/17/18 Total Ports Details

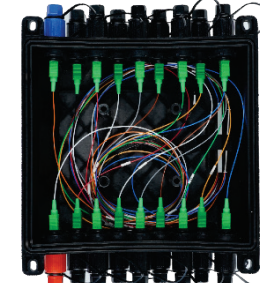
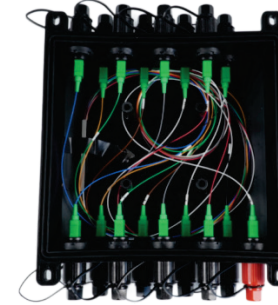
Red = Input, Blue = Output

FAT-108 can remove ports for a FAT-104

Item Number	FAT-108/109 (9/10 ports)
Size	8(L)x8(W)x3(H) inches 209(L)x205.4(W)x80(H) mm
Weight (kg)	2.6 – 3 lbs. 1.2-1.4 kg
Material	PP+GF
Sealing Type	Mechanical sealing
IP degree	IP68
Splitter	1:8 micro splitter / 1:9 micro splitter
Installation	Wall/Pole/Aerial mounting



Item Number	FAT-116/117 (17/18 ports)
Size	8(L)x8(W)x3(H) inches 209(L)x205.4(W)x80(H) mm
Weight (kg)	2.6 – 3 lbs. 1.2-1.4 kg
Material	PP+GF
Sealing Type	Mechanical sealing
IP degree	IP68
Splitter	1:16 micro splitter / 1:2+1:16 micro splitter
Installation	Wall/Pole/Aerial mounting



A large, white, stylized logo consisting of two interlocking 'C' shapes that form a larger '3C' or '3C' shape. The text 'PART SIX' is centered within the negative space of the logo.

PART SIX

Drop Network, Multi-Port Terminal (MPT)

Multi-Port Terminals MPT's (MST)

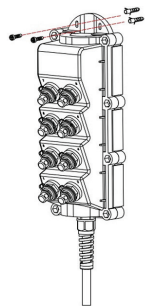


Key Points:

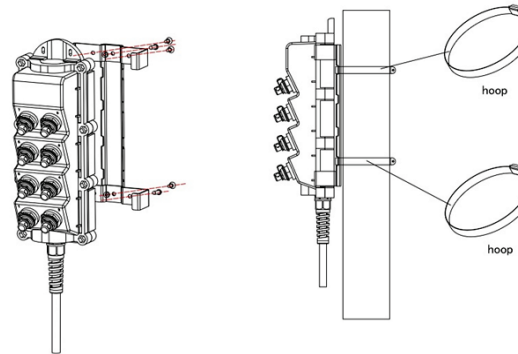
- Slim design so can drop in Pedestal, Handhole or wall applications. 4,6,8,12 ports available
- Mount anywhere due to IP-68 environment rating... Wall, Aerial, Pole, Vault will not leak
- Fiber Inputs:
 - Ribbon or bundle fiber to provide homerun or direct connect for each port (CY-DCT)
 - Single Drop Fiber to connect to an internal 1:4, 1:6, 1:8, 1:12 PLC Splitter (CY-SPT)
- Drops:
 - Mini-IP Hardened Connector, OptiTap compatible or Mini-SC
 - Mini-IP to: Bullet push/pull w/ SC-APC armored round or Flatdrop with FC or fusion splice

Specifications

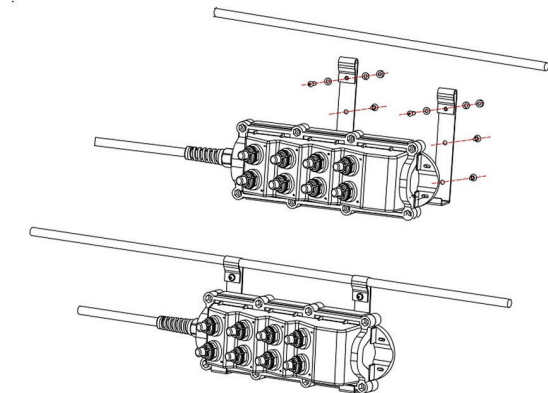
Dimensions (LxWxH)	225x120x85mm (2/4core)	305x120x85mm (6/8core)	416x120x85mm (12core)
Materials	PC		
Waterproof Grade	IP68 (3M,72hour).		
Temperature Range	-40 ~ +80°C		
Cable Strength Member	Armored or Non-armoured		
Cable Type	Hybrid or non-hybrid		
Round Cable OD	6.0mmto12.0mm		
Flat Cable Dimension	4.0x7.0mm,4.0x8.0mm		
Cable Jacket Material	LSZH,PE or TPU		
Bending Radius	20D		
Cable Crush Resistance	500N/cm long term		
Tensile Strength	1200Nlongterm		
UV Resistance	ISO4892-3		
Fire Protection Rating	UL94-V0		
Number of PLC	1pc (SC 1*4 PLC)	1pc (SC 1*8 PLC)	1pc (SC 1*12 PLC)
	1pc (LC 1*8 PLC)	1pc (LC 1*16 PLC)	1pc (LC 1*24 PLC)
Number of Fusion Protection Tube	≤ 24 pcs		



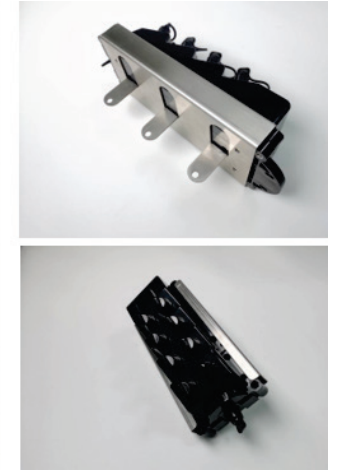
Wall-Mount Installation



Pole Mount Installation



Aerial Installation



Special Aerial Installation Kits for Resistance to wind, snow and freezing

Multi-Port Terminal Ordering Information

FTTx Terminal Box with PLC splitter:

Input and output are all Hardened connectors; (Mini-IP, OptiTap compatible)

Item Number	Product Description
MPT-SPT-104I	SureAlign® Multi-Port Terminal box with 1:4 splitter, with 1 Mini-IP input and 4 Mini-IP output hardened connectors.
MPT-SPT-106I	SureAlign® Multi-Port Terminal box with 1:12 splitter, with 1 Mini-IP input and 12 Mini-IP output hardened connectors.
MPT-SPT-108M	SureAlign® Multi-Port Terminal box with 1:4 splitter, with 1 Mini-SC input and 8 Mini-SC output hardened connectors.
MPT-SPT-112M	SureAlign® Multi-Port Terminal box with 1:12 splitter, with 1 Mini-SC input and 12 Mini-SC output hardened connectors.

Multi-Port Terminal Ordering Information

Input is flat cable and output are hardened connectors.

Item Number	Product Description
MPT-SPT-104I-1F-100FT	SureAlign® Multi-Port Terminal box with 1:4 splitter, with 100 feet (31 meters) of non-toneable 4*7mm flat drop cable as input. 4 Mini-IP output hardened connectors.
MPT-SPT-106I-1F-100FT	SureAlign® Multi-Port Terminal box with 1:6 splitter, with 100 feet (31 meters) of non-toneable 4*7mm flat drop cable as input. 6 Mini-IP output hardened connectors.
MPT-SPT-108I-1F-100FT	SureAlign® Multi-Port Terminal box with 1:8 splitter, with 100 feet (31 meters) of non-toneable 4*7mm flat drop cable as input. 8 Mini-IP output hardened connectors.
MPT-SPT-112I-1F-100FT	SureAlign® Multi-Port Terminal box with 1:12 splitter, with 100 feet (31 meters) of non-toneable 4*7mm flat drop cable as input. 12 Mini-IP output hardened connectors.

Multi-Port Terminal Ordering Information

FTTx Terminal Box with 2~12 Ct flat cable input and 2~12 connector as output

Item Number	Product Description
MPT-DCT-104I-4F-100FT	SureAlign® Multi-Port Terminal box with Direct Cable Connection. 100 feet (31 meters) of non-toneable 4*7mm flat drop tail with 250um fiber gel tube as input. 4 Mini-IP output hardened connectors.
MPT-DCT-112I-12F-100FT	SureAlign® Multi-Port Terminal box with Direct Cable Connection. 100 feet (31 meters) of non-toneable 4*7mm flat drop tail with 250um fiber gel tube as input. 12 Mini-IP output hardened connectors.
MPT-DCT-104I-4F-T-100FT	SureAlign® Multi-Port Terminal box with Direct Cable Connection. 100 feet (31 meters) of toneable 4*7mm flat drop tail with 250um fiber gel tube as input. 4 Mini-IP output hardened connectors.
MPT-DCT-112I-12F-T-100FT	SureAlign® Multi-Port Terminal box with Direct Cable Connection. 100 feet (31 meters) of toneable 4*7mm flat drop tail with 250um fiber gel tube as input. 12 Mini-IP output hardened connectors.

Multi-Port Terminal Ordering Information

Generic Installation Kits used for Aerial installation, Holding Pole and Wall-Mounting Installation

Item Number	Product Description
MPT-ACC-XIK-24	2/4 Ports Terminal Box Generic Installation Kits used for Aerial installation, Holding Pole or Wall-Mounting Installation, X can be A, P or W for Aerial installation, Holding Pole or Wall-Mounting Installation
MPT-ACC-XIK-68	6/8 Ports Terminal Box Generic Installation Kits used for Aerial installation, Holding Pole or Wall-Mounting Installation, X can be A, P or W for Aerial installation, Holding Pole or Wall-Mounting Installation
MPT- ACC-XIK-12	12 Ports Terminal Box Generic Installation Kits used for Aerial installation, Holding Pole or Wall-Mounting Installation, X can be A, P or W for Aerial installation, Holding Pole or Wall-Mounting Installation

Special Aerial Installation Kits for Resistance to wind, snow and freezing

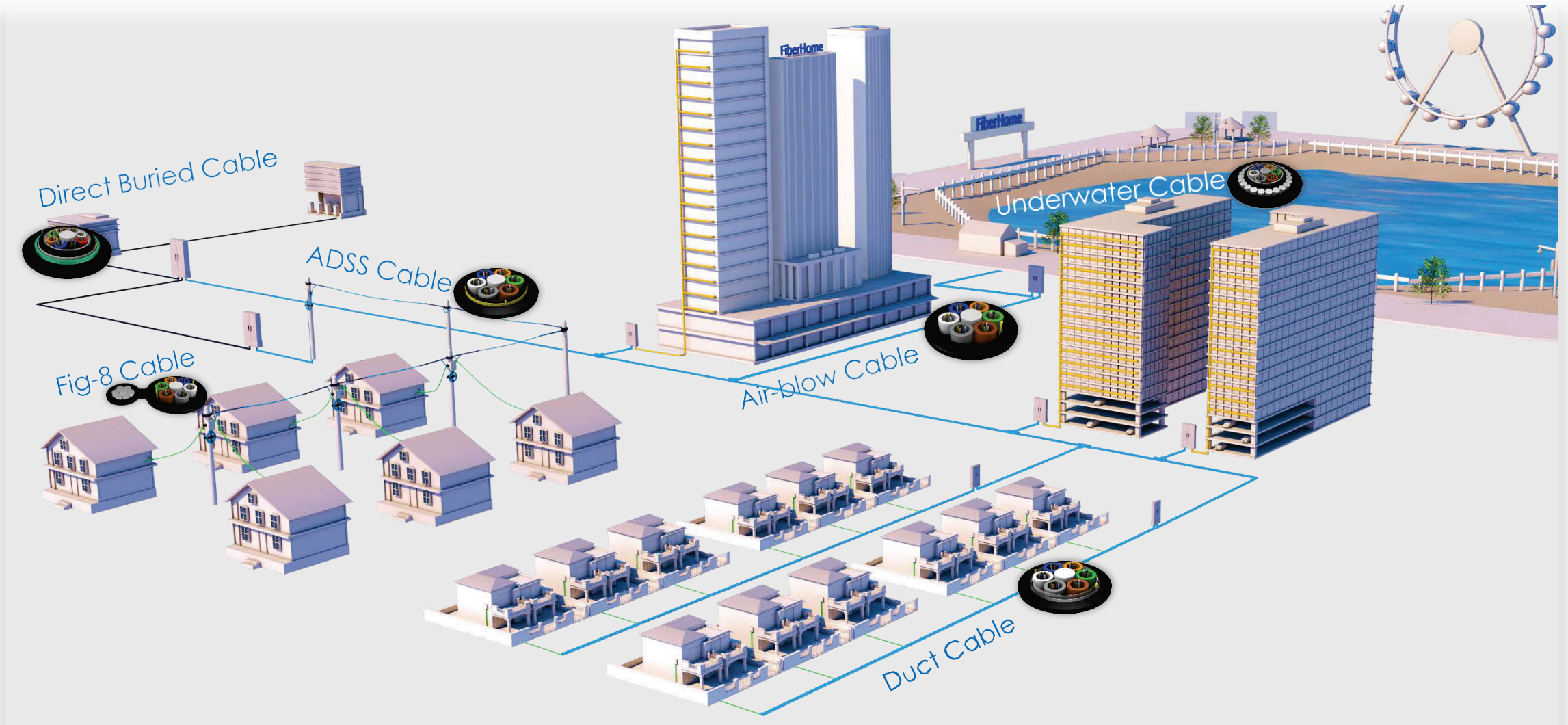
Item Number	Product Description
MPT-ACC-SAIK-24	2/4 Ports Terminal Box Special Heavy Duty Aerial Installation Kits for Resistance to wind, snow and freezing
MPT-ACC-SAIK-68	6/8 Ports Terminal Box Special Heavy Duty Aerial Installation Kits for Resistance to wind, snow and freezing
MPT-ACC-SAIK-12	12 Ports Terminal Box Special Heavy Duty Aerial Installation Kits for Resistance to wind, snow and freezing

07

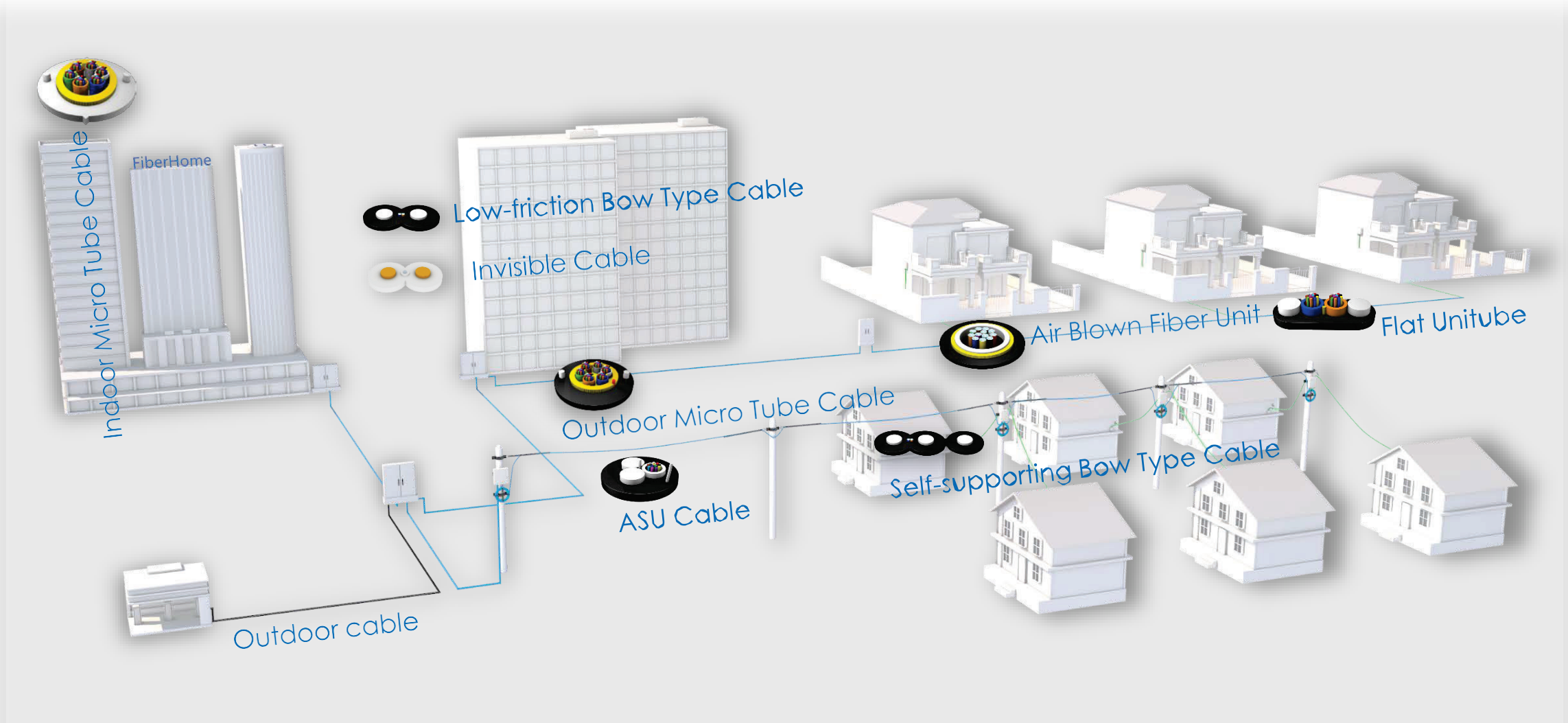
PART SEVEN

Optical Fiber Cable (OFC)

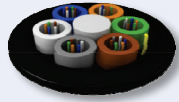
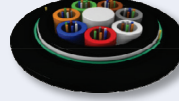
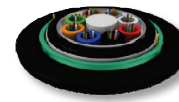
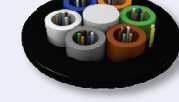
Outdoor Cable Solution



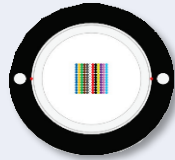
FTTH Cable Solution



Optic Fiber Cable Summary

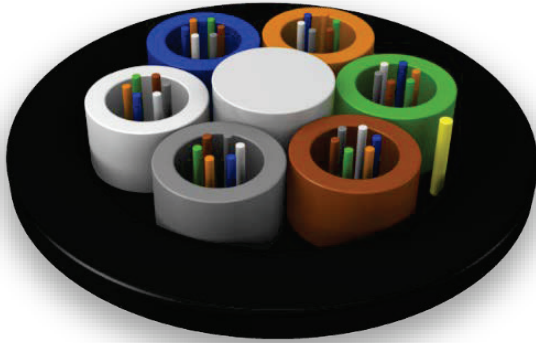
Sub Category	Fiber Type	Water-blocking Type	Fiber Count	Standard Reel Sizes	Installation Method	Application Temperature	Image	Item Number
Loose Tube	Single Jacket (SJ)	Gel/ Totally Dry	12-864	4K/6K	Conduit/ Lash Aerial	-60°C ~ +70°C		OFC-GYFY
Loose Tube	Single Armor Single Jacket (SASJ)	Gel/ Totally Dry	12-864	4K/6K	Conduit/ Lash Aerial	-60°C ~ +70°C		OFC-GYFS
Loose Tube	Single Armor Double Jacket (SADJ)	Gel/ Totally Dry	12-864	4K/6K	Direct Buried/ Lash Aerial	-60°C ~ +70°C		OFC-GYFY53
Loose Tube	Double Armor Double Jacket (DADJ)	Gel/ Totally Dry	12-864	4K/6K	Direct Buried/ Lash Aerial	-60°C ~ +70°C		OFC-GYFS53
ADSS	All Dielectric Self-Supporting	Gel/ Totally Dry	12-864	4K/6K	Aerial	-60°C ~ +70°C		OFC-ADSS
Loose Tube	Figure-8 Cable	Gel/ Totally Dry	12-432	4K/6K	Aerial	-40°C ~ +70°C		OFC-GYFC8Y
Loose Tube	Micro Cable	Gel	12-432	2K	Air-blown	-40°C ~ +70°C		OFC-GCYFY
Unitube	Central Tube	Gel	2-24	2K	Air-blown	-40°C ~ +70°C		OFC-GCYFXTY

Optic Fiber Cable Summary

Sub Category	Fiber Type	Water-blocking Type	Fiber Count	Standard Reel Sizes	Installation Method	Application Temperature	Image	Item Number
Central Tube Ribbon	Single Jacket (SJ)	Totally Dry	12 - 432	4K/6K	Conduit/ Lash Aerial/ Direct Buried	-40°C ~ +70°C		OFC-GYDXY
Central Tube Ribbon	Single Armor Single Jacket (SASJ)	Totally Dry	12 - 432	4K/6K	Conduit/ Lash Aerial/ Direct Buried	-40°C ~ +70°C		OFC-GYDXW
Loose Tube Ribbon	Single Jacket (SJ)	Gel	12 - 864	4K/6K	Conduit/ Lash Aerial/ Direct Buried	-40°C ~ +70°C		OFC-GYFDY
Loose Tube Ribbon	Single Armor Single Jacket (SASJ)	Gel	12 - 864	4K/6K	Conduit/ Lash Aerial/ Direct Buried	-40°C ~ +70°C		OFC-GYFDS

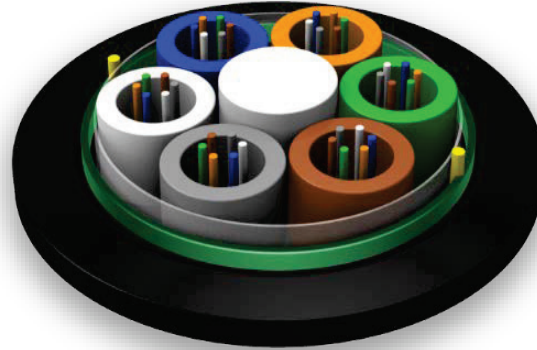
Duct Cables

GYFY (SJ)



- no armor
- **gel-free** or gel-filled
- 12-864 cores

GYFS (SASJ)

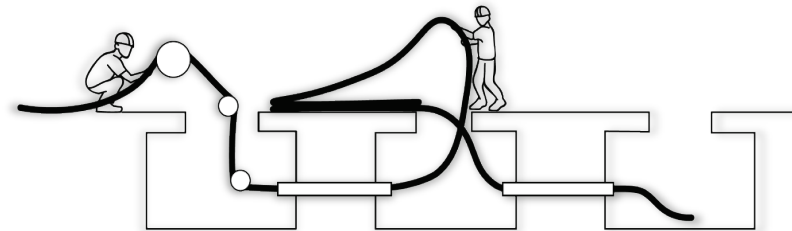
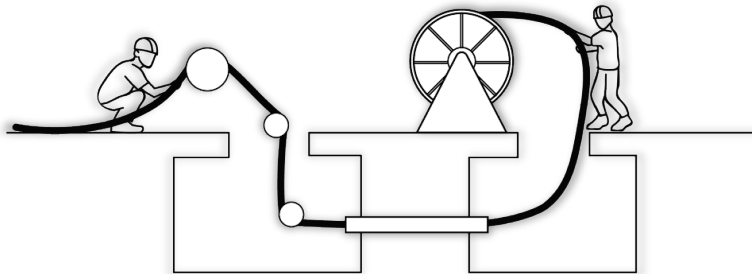


- Steel/aluminum tape armored
- **gel-free** or gel-filled
- 12-864 cores

GYFDS (SASJ-ribbon)

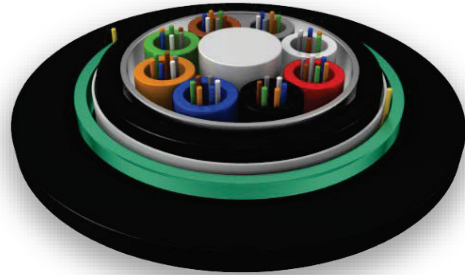


- Steel/aluminum tape armored
- **gel-free** or gel-filled
- 12-864 cores



Direct Buried Cables

GYFA53 (DADJ)



GYFY53 (SADJ)



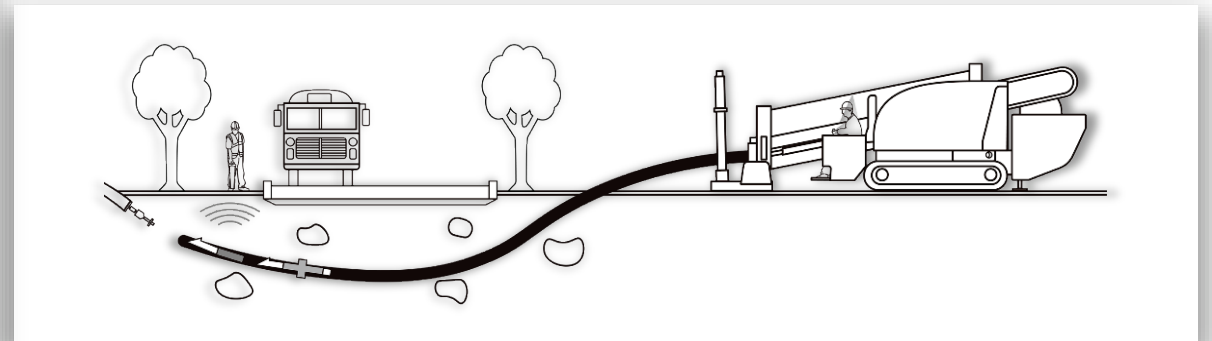
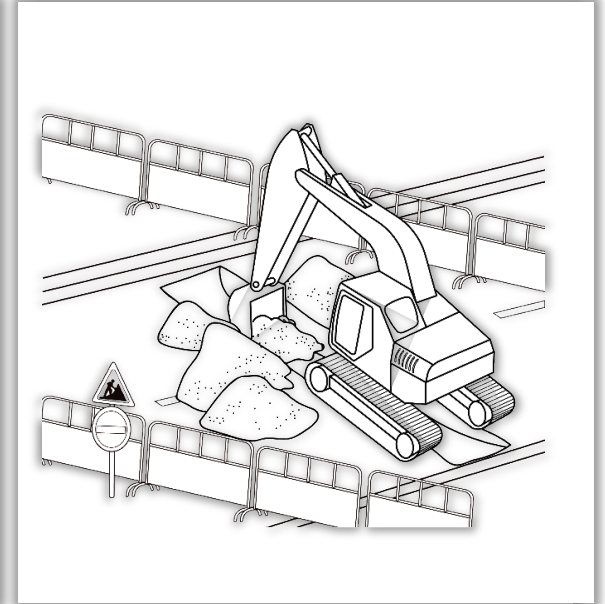
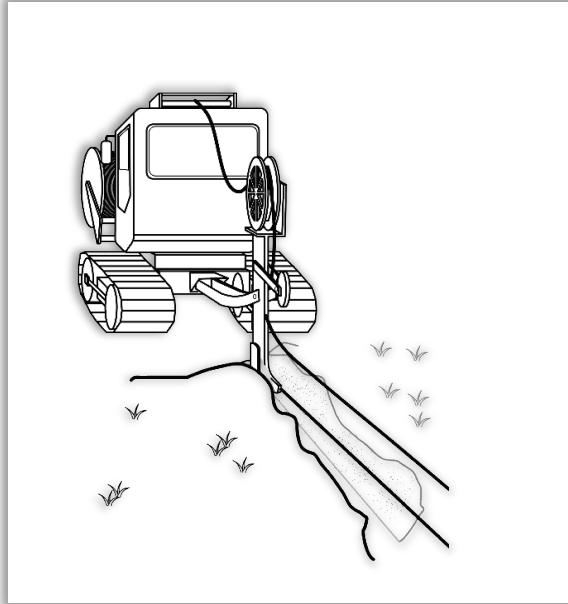
GYFA33 (DADJ)
(one layer steel wire)



GYFA333 (DADJ)
(two layers steel wire)



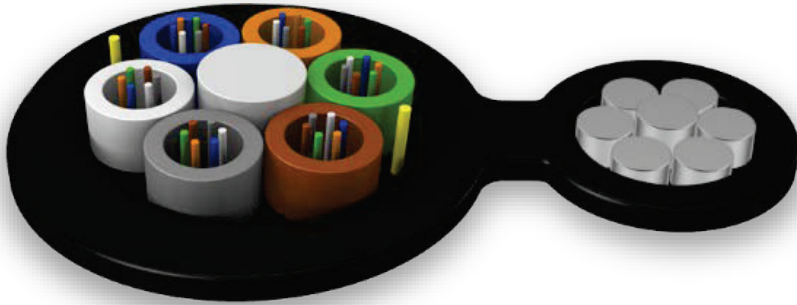
- **gel-free** or gel-filled
- 12-864 cores



Aerial Cables – Figure 8

GYFC8Y

SJ - Figure 8 self-supporting Cable

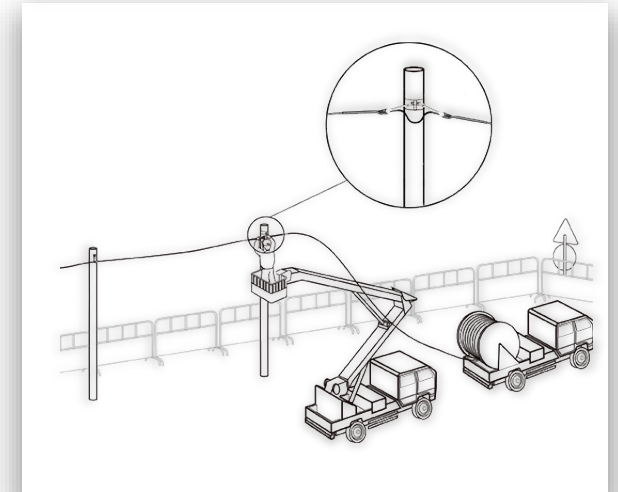
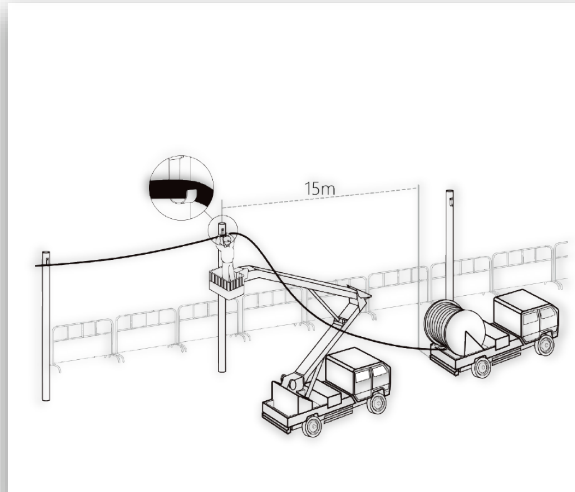
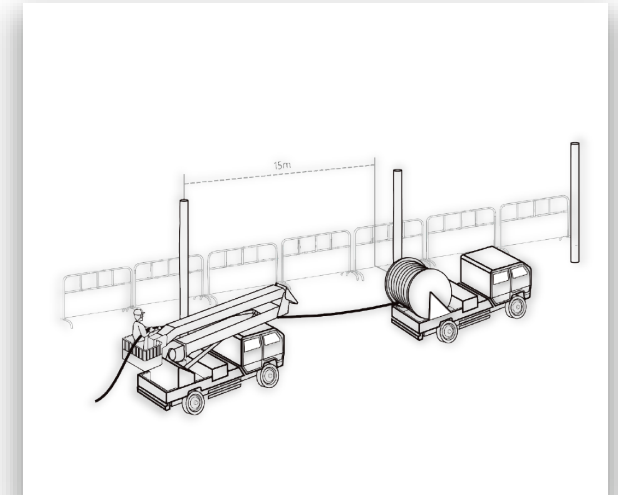
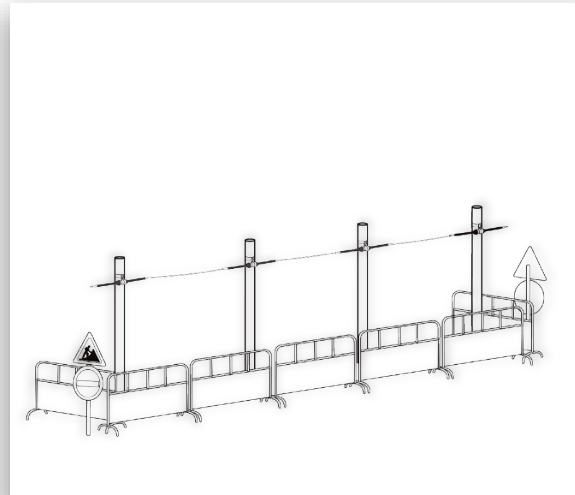


GYFC8S

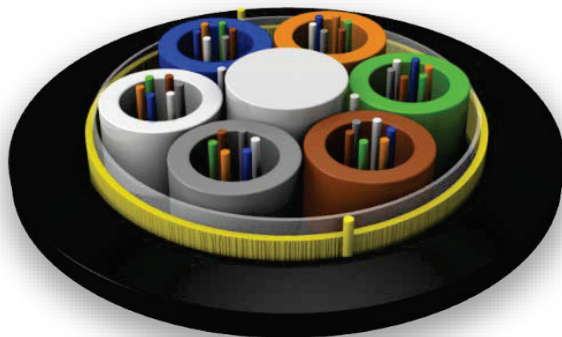
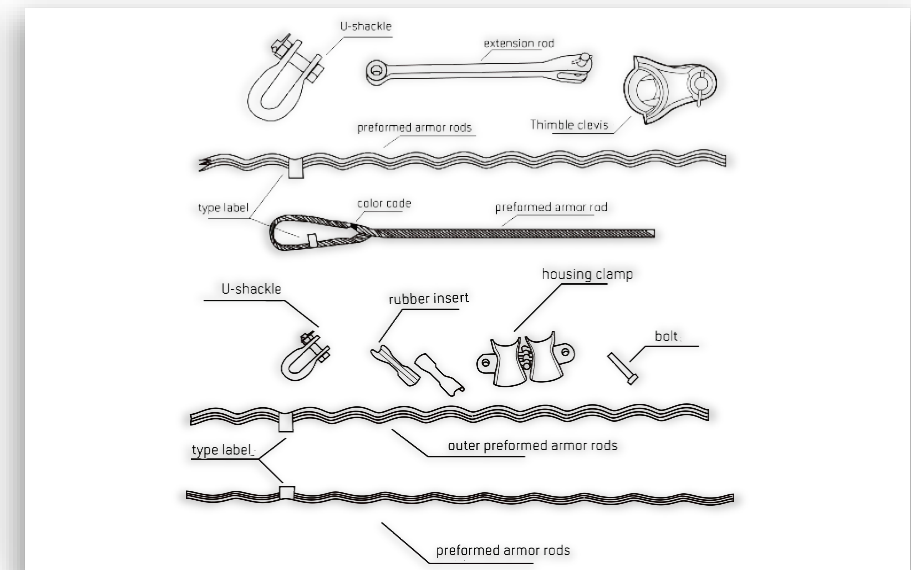
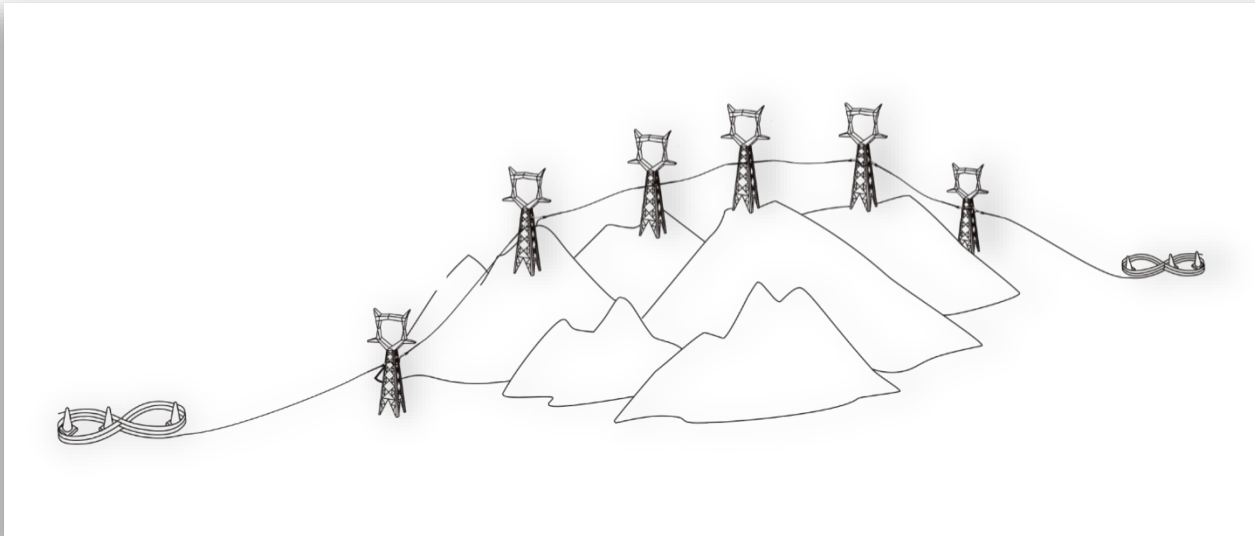
SADJ - Figure 8 self-supporting Cable



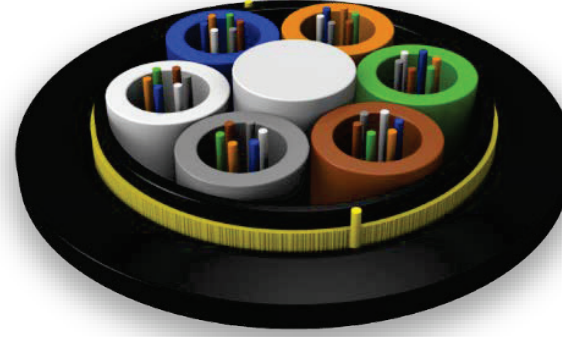
Span $\leq$ 200m



Aerial - Adss (All Dielectric Self-supporting)



ADSS Cable Short Span

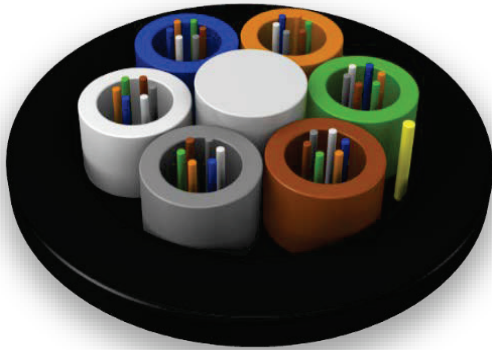


ADSS Cable Long Span

- Span: 80 - **1600** m
- Fiber counts: 12 – 864
- **Gel-free** or gel-filled
- **-60°C** low temperature application

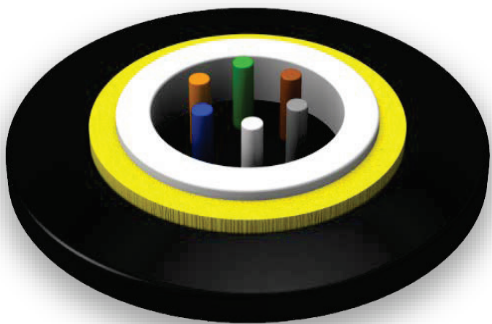
Air Blown Cable

Outdoor Cable



GCYFY

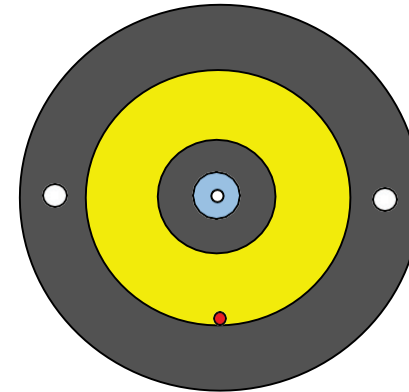
- Stranded loose tube
- Fiber counts: 12-432
- Gel-filled
- OD: 5-12 mm



GCYFXTY

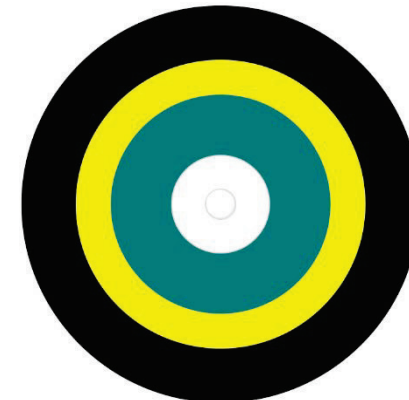
- Central tube
- Fiber counts: 2-24
- Gel filled
- OD: 2.5-10 mm

Drop Cable



GJYFJH03

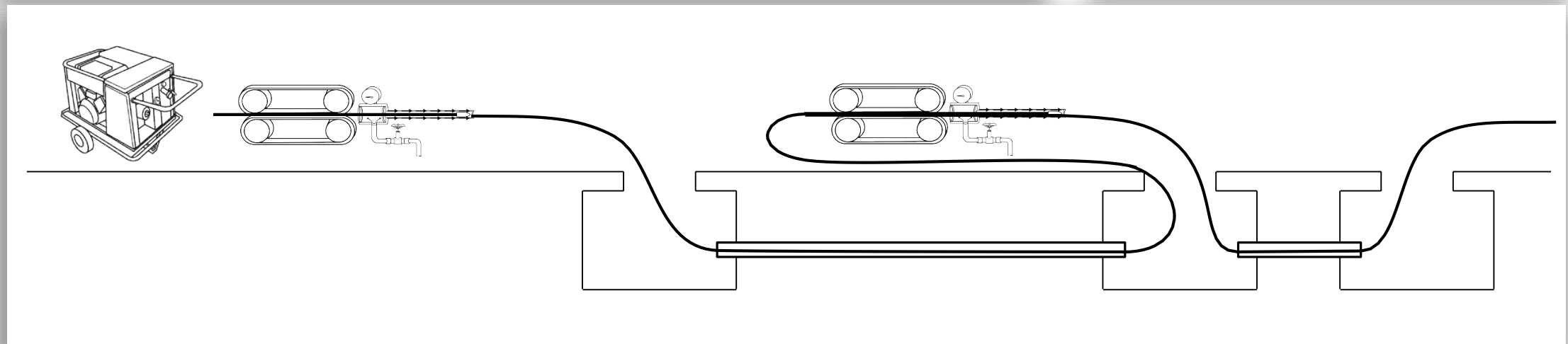
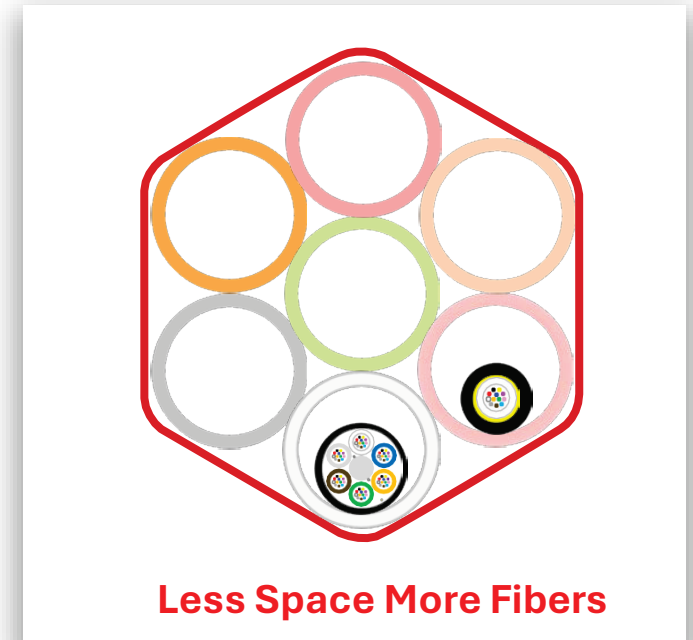
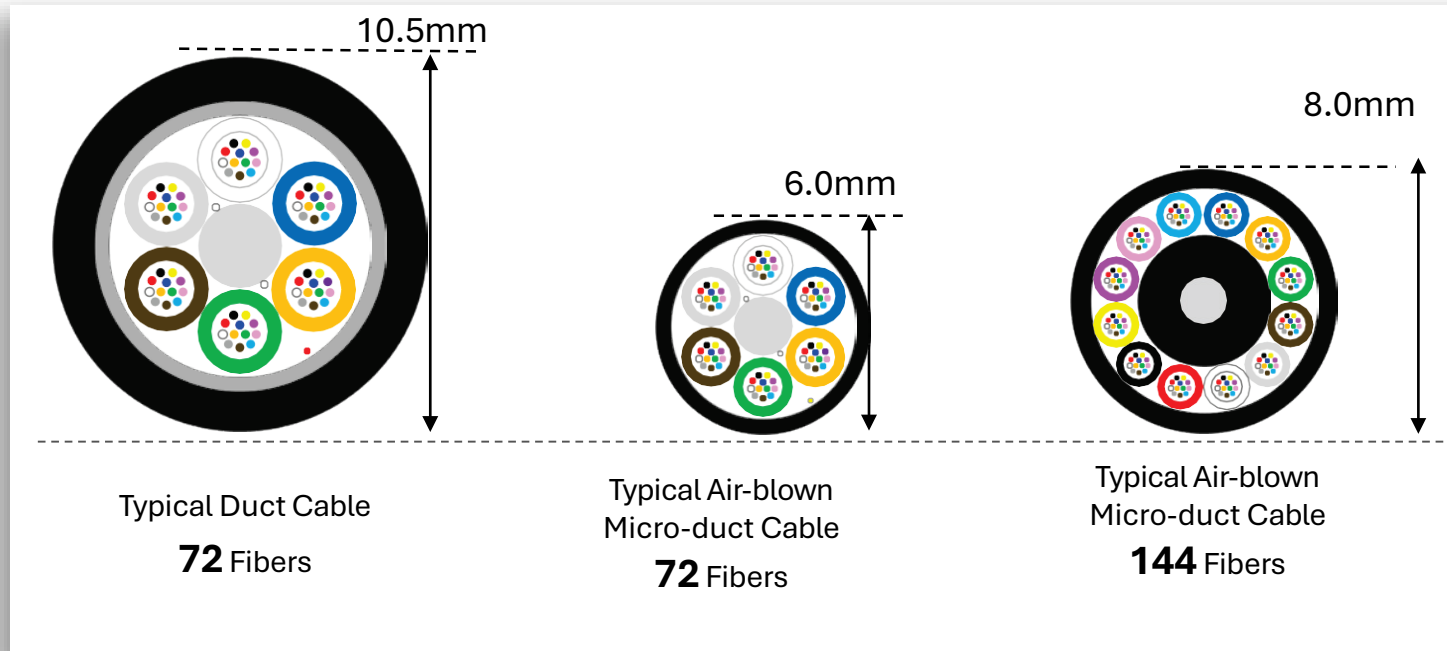
- Tight buffered
- Fiber counts: 1
- Gel-free
- OD: 5 mm



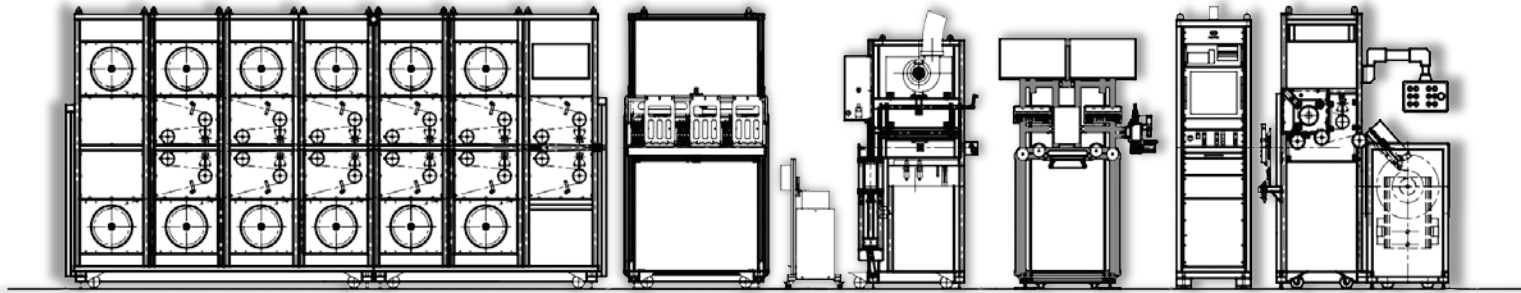
GJFJK

- **Armored**
- Fiber counts: 1
- Gel-free
- OD: 3.2 mm

Air Blown Cable



Ribbon Cable



12 Core Ribbon Production Line

Features

- High Density
- Small Diameter
- Fast Splicing



All Dielectric, Gel-free
Center Tube Cable with
Aramid Yarn



Corrugated Aluminum Tape Armored,
Stranded Loose Tube Ribbon Cable

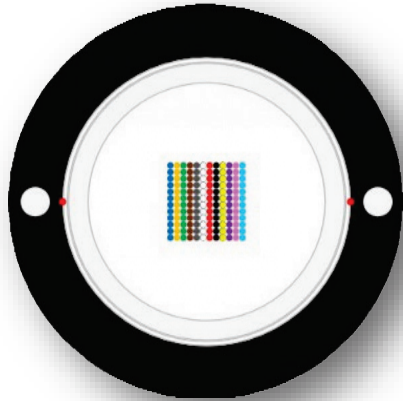


Corrugated Steel Tape Armored,
Center Tube
Ribbon Cable

Ribbon Cable

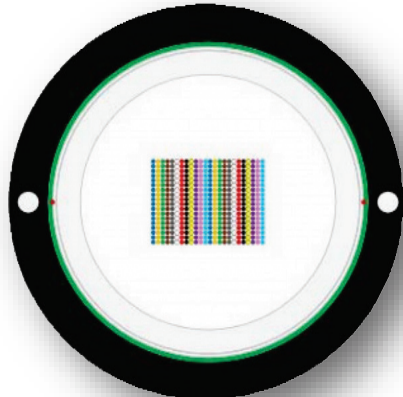
Gel-free product

GYDXY



Gel-free Single Jacket
Central Tube Ribbon

GYDXW

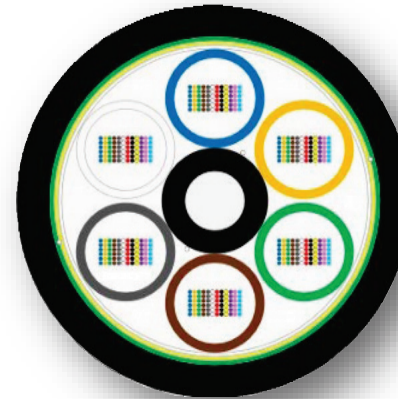


Gel-free Single Jacket
Single Armor Central
Tube Ribbon

Maximum fiber core: **432**

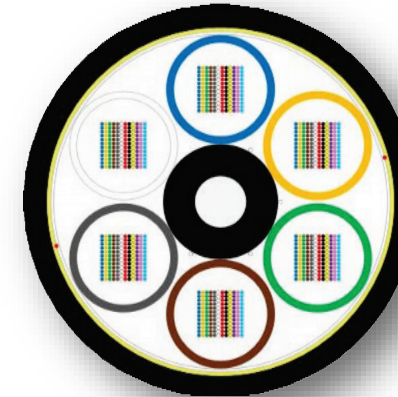
Gel-filled product

GYFDS



Gel-filled Single Jacket
Single Armor Stranded
Loose Tube Ribbon

GYFDY



Gel-filled Single Jacket
Stranded Loose Tube Ribbon

Maximum fiber core: **864**

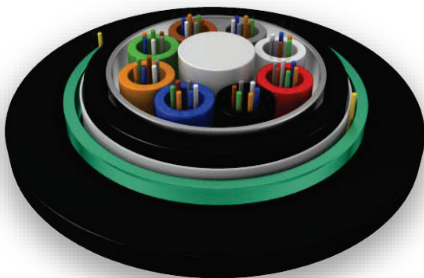
Anti Rodent Series

Outdoor - metal armored

Steel wire armored

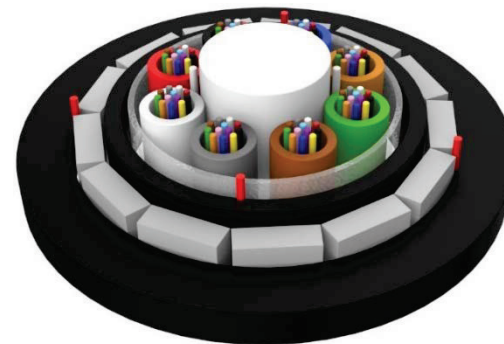


Steel tape armored



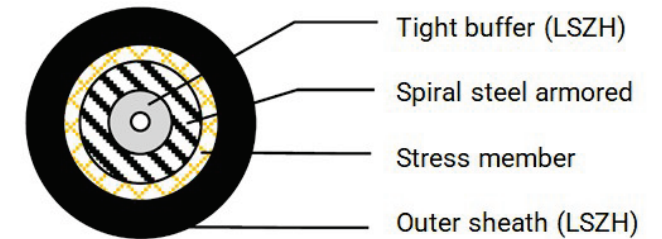
Outdoor - all-dielectric

Flat FRP armored

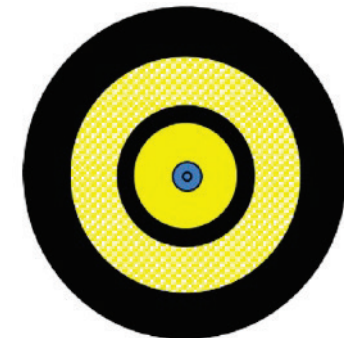


Indoor (drop)

Spiral steel armored



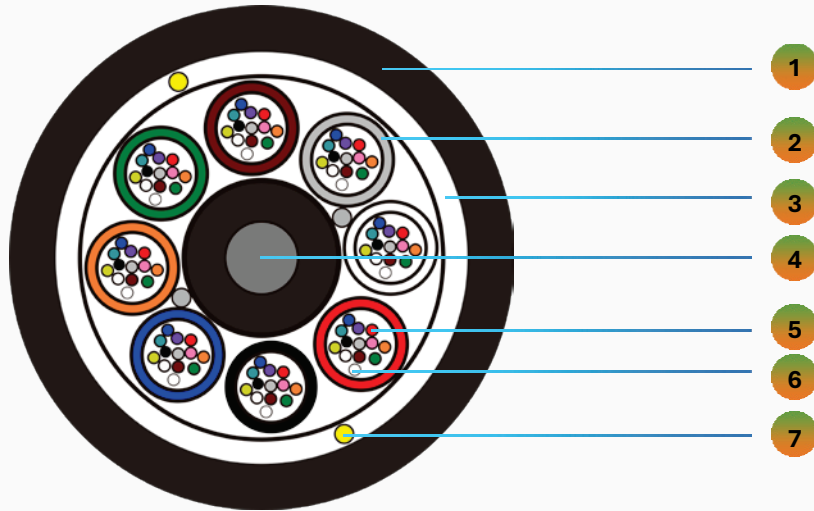
Steel mesh armored



Specialized Products For North America Market

- Gel free (totally dry) cable
- Flexible loose tube cable
- Ultra low-temperature cable
- User-friendly (soft jacket and easy to peel)

Gel Free (Totally Dry) Cable



- | | |
|-----------------------|-----------------------|
| 1 PE sheath | 5 Fiber |
| 2 Loose tube | 6 Water blocking yarn |
| 3 Water-blocking tape | 7 Rip cord |
| 4 FRP strength member | |

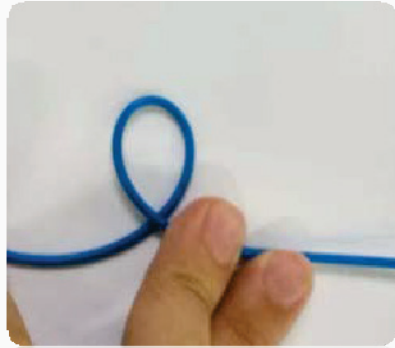


- NO GEL
- Greatly **reduces the time** required for fiber cleaning and improves construction efficiency
- **Environmentally friendly**, reducing cleaning gel, chemical fluxes and other materials

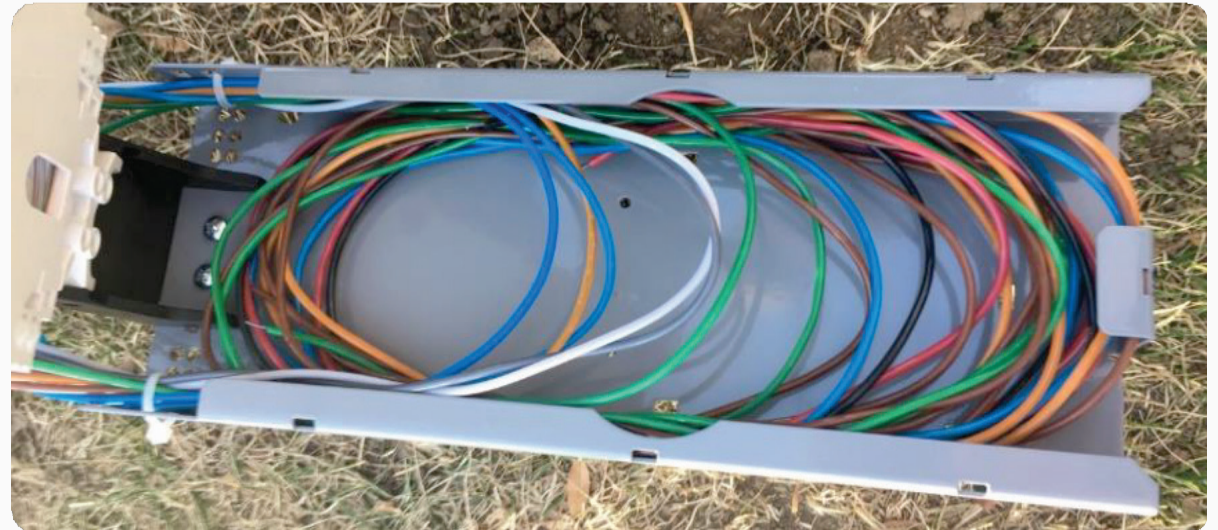
Flexible Tube



PBT loose tube



Soft loose tube



Great bending performance and softness of the loose tube

Diameter: 2-4cm

User-friendly (Soft Jacket And Easy To Peel)

- Jacket material: HDPE → MDPE/LLDPE



PART EIGHT

Fiber Drop Solutions

- Fiber Drop Cable
- Fiber Drop Connectors
- Field Installable
- Pigtail & Patch Cord
- Fiber Tools

Drop Cable Order Information

FCD - _ - _ - _ - _ - _
 1 2 3 4 5 6

1 Connector type

The connector at front means that connector is outside in reels and been installed first

Use one letter only for pigtail.

I: Mini-IP SC/APC

M: Mini-SC SC/APC

B: Ballistic SC/APC

S: Standard SC/APC

2 Cable Type

C1: 3mm Indoor Riser Cable

C2: 4.8mm Indoor Riser Cable

C3: 3.2mm Armored Cable

C4: 3mm Air-blown/Pushable Cable

C5: 5mm Outdoor Cable

C6: 6mm Direct-Buried Cable

C7: 8mm Direct-Buried Cable

C8: Non Toneable Flat Cable

C9: Toneable Flat Cable

CA: Mini Figure 8 Drop Cable with Galvanized steel wire

CB: Toneable Mini Figure 8 Drop Cable with copper wire

3 Fiber Core Qty

xF: x represent fiber Qty, default is 1F

4 Fiber type

F1:G657A1

F2:G657A2

F3:G657B3

FD:G652D

5 Cable length with unit

xxxM: xxx Meters

xxxF: xxx Feet

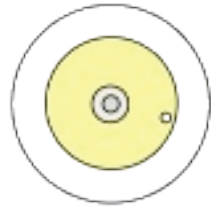
6 Packaging

B: Bulk Package

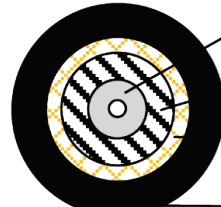
S: Individual Package

R: Reel Pack

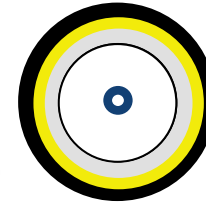
Drop Cable Types



- **Sub-unit:** module containing 1 fiber inside
- **Aramid yarns:** reinforcement members
- **Longitudinal Water Tightness:** dry core with water swellable elements
- **Outer Sheath:** Flame-Retardant, White



- Tight buffer(LSZH)
- Spiral steel armored
- Stress member
- Outer sheath (LSZH)



- **Central loose tube:** high modulus loose tube filled with Tight buffer, containing water block yarns.
- **Reinforcement members:** aramid yarns.
- **Outer Sheath:** HDPE



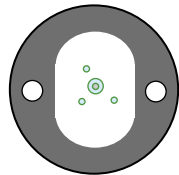
- **Tight buffer:** LSZH material, containing 1 fiber.
- **Inner jacket:** LSZH material, OFNR.
- **Reinforcement members:** aramid yarns, FRP.
- **Ripcord:** 1 polyester ripcord under sheath.
- **Water penetration members:** water blocking yarns.
- **Outer Sheath:** Black HDPE.

C1/C2: 3mm/4.8mm Indoor OFNR/FT-4/OFNP/FT-6 Flame-retardant Cable

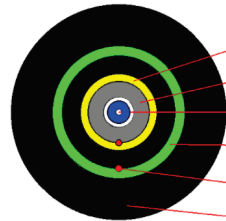
C3: 3.2mm Armored Air-blown Cable

C4: 3mm Air-blown/Pushable Cable

C5: 5mm Outdoor Cable



- Fiber:** tight buffer
- Strength Member:** GFRP
- Water penetration members:** water blocking yarns.
- Outer Sheath:** HDPE



- Aramid yarns
- Spiral armor
- Tight tube fiber
- Corrugated steel tape
- Ripcord
- PE Sheath



- Strength member
- Inner jacket
- Tight buffer
- Fiber
- Water blocking yarn
- HDPE outer sheath



- Strength member
- Inner jacket
- Tight buffer
- Fiber
- Water blocking yarn
- HDPE outer sheath
- Tracing wire



- **Messenger Wire:** Galvanized steel wire / Copper wire
- **Strength Member:** GFRP
- **Outer Sheath:** Black LSZH

C6: 6mm Direct Burial Cable

C7: 8mm Direct Burial Cable

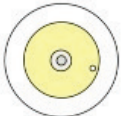
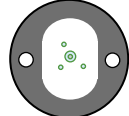
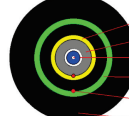
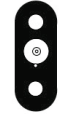
C8: Non Toneable Flat Cable

C9: Toneable Flat Cable

CA: Mini-Figure-8 Cable with Galvanized Steel Messenger Wire for Aerial Application

CB: Toneable Mini-Figure-8 Drop Cable with Copper Messenger Wire for Duct Application

Drop Cable Information

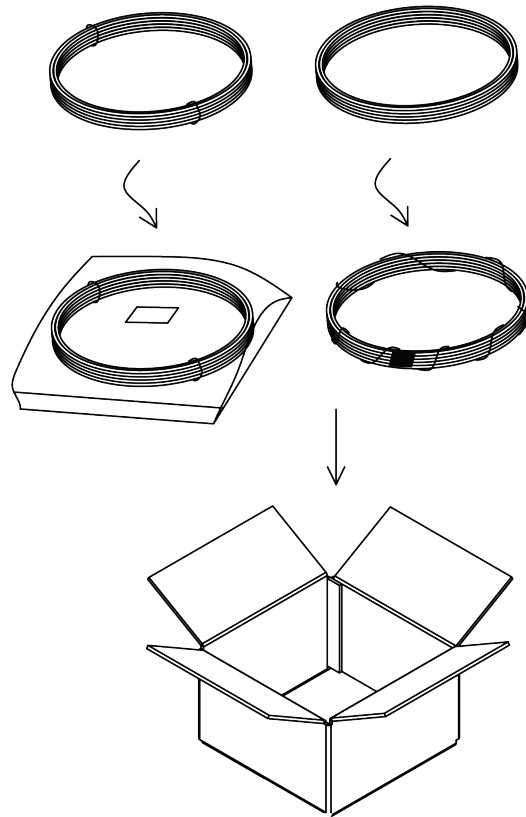
Item	C1/C2	C3	C4	C5	C6	C7	C8	C9	CA/CB
Cable Diameter (mm)	3.0/4.8	3.2	3.0	5.0	6.0	8.0	4.5*8.5	4.5*10.0	5.2*2.0
Cable Weight (Kg/Km)	10	16	9.5	30	30	TBD	35	37	20
Tension MAX(N)	220	200	50	800	900	TBD	1200	1200	600
Operating temperature (°C)	-20~+70	-40~+70	-25~+70	-40~+70	-30~+70	TBD	-40~ +70	-40~ +70	-40~+65
Color	White	Black	Black	Black	Black	Black	Black	Black	Black
Material	Flame-Retardant	LSZH	HDPE	HDPE	HDPE	HDPE	HDPE	HDPE	HDPE
Armor	N/A	One layer	N/A	N/A	N/A	One layer	N/A	N/A	N/A
Pre-Connectorized Connector option	SC	Ballistic Mini-IP Mini-SC SC	Ballistic Mini-IP Mini-SC SC	Mini-IP Mini-SC SC	Mini-IP Mini-SC	Mini-IP Mini-SC	Mini-IP Mini-SC SC	Mini-IP Mini-SC SC	Mini-IP Mini-SC SC
Application	Duct/ Indoor	Aerial/ Duct/ Air-Blown	Duct/Air-Blown & Pushable	Aerial/ Duct/ Indoor	Direct-Buried	Direct-Buried	Aerial/ Direct-Buried	Aerial/ Direct-Buried	Aerial/ Duct/ Indoor
Structure									

Fiber Type Information

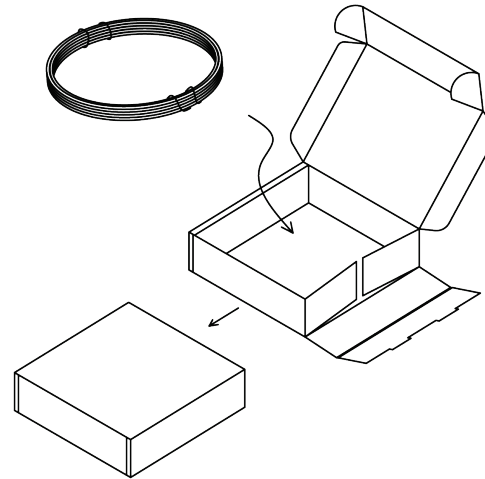
Item	G.657A1		G.657A2		G.657B3	
Attenuation (dB/km)	1310nm	≤0.40	1310nm	≤0.40	1310nm	≤0.40
	1383nm	≤0.34	1383nm	≤0.34	1550nm	≤0.21
	1550nm	≤0.30	1550nm	≤0.30	1625nm	≤0.25
	1625nm	≤0.24	1625nm	≤0.24		
Mode Field Diameter (μm)	1310nm	8.6±0.4	1310nm	9.2±0.4	1310nm	8.6±0.5
Zero dispersion wavelength(nm)	1300~1324		1300~1324		1300~1324	
Zero dispersion slope ps/(nm2.km)	≤0.092		≤0.092		≤0.1	
Cable cut-off wavelength (λcc) (nm)	≤1260		≤1260		≤1260	
PMD Link Design Value Typical Value ps/√km	≤0.2 ≤0.06 0.04		≤0.2 ≤0.06 0.04		/	
Cladding diameter (μm)	125±0.7		125±0.7		125±0.7	
Cladding non-circularity	≤0.7%		≤0.7%		≤0.7%	
Core-cladding concentricity error(μm)	≤0.5		≤0.5		≤0.5	
Proof test(N)	≥9.0		≥9.0		≥9.0	

Cable Packaging Information

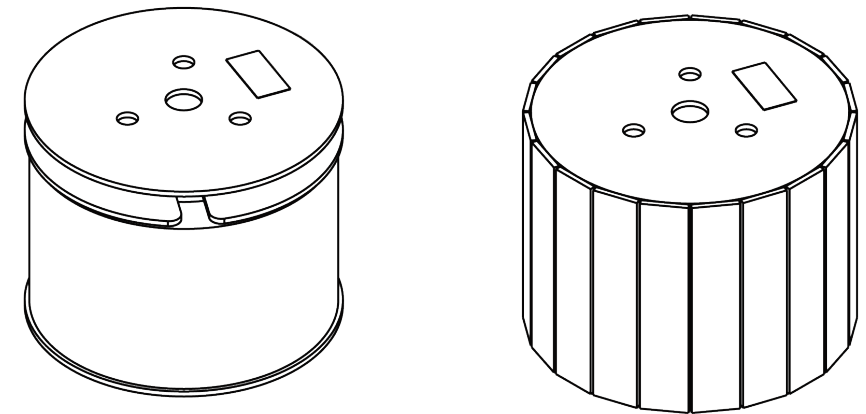
Bulk Package



Individual Package

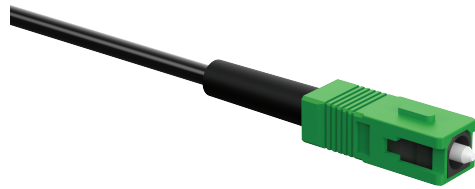


Reel Package

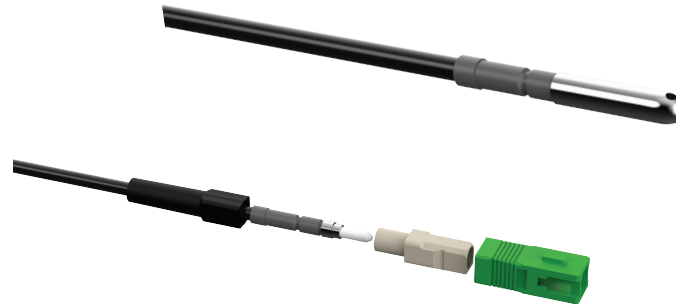


Fiber Drop Connectors & Field Installable Fiber Connector Solutions

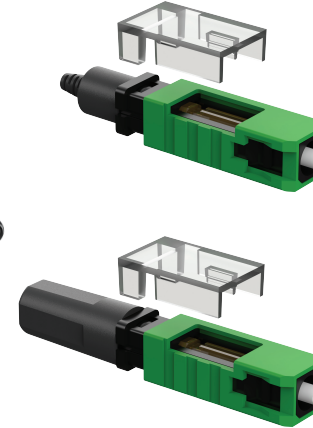
Drop Fiber Connectors (SC)



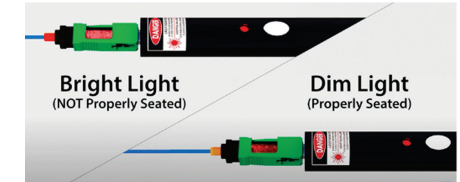
Ordinary SC



Ballistic SC (for pushable/air-blown, field assemble)



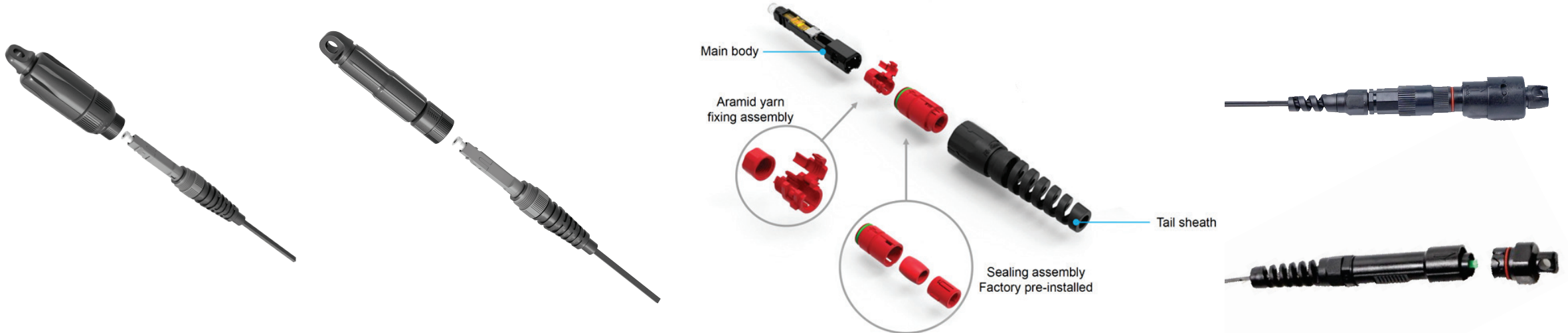
Fast Connector (Field Assemble)



Key advantage: visible window to ensure successful connection

Item	SC	BSCA (Ballistic SC)	FC-SCA/FCL-SCA (Fast Connector SC)
Dimension (mm)	Φ9×48	Φ4.2	Φ9×44.9/Φ9×51
Insertion loss	≤0.3dB		≤0.25dB
Return loss	≥60dB (APC) 、 ≥50dB (UPC)		≥55dB (APC) 、 ≥50dB (UPC)
Adapter cable type	3.0/5.0mm round, flat, figure-8	3.0/3.2mm round	0.25/0.9mm bare fiber, 2.0/3.0mm round fiber
Tensile load (N)	/	150N	30N
Working temperature (°C)		-25~+70	-40~+70
Storage temperature(°C)		-25~+70	-40~+70

Drop Fiber Connectors (Hardened)



Pre-Connectorized Mini-IP

Pre-Connectorized Mini-SC

**Field Fast Connector Mini-SC/Mini-IP
for 5.0mm and Mini Figure 8 Fiber**

**Field Fast Connector Mini-SC/Mini-IP
for 3.0mm Fiber**

Item	Pre-Connectorized Mini-SC	Pre-Connectorized Mini-IP	FC-HSCA	FC-MSCA	FC-ISCA
Dimension (mm)	Φ21×108	Φ21×106			
Insertion loss		≤0.3dB	Average ≤ 0.1dB Maximum ≤ 0.3dB	≤0.35dB	≤0.5dB
Return loss		≥60dB (APC)	≥60dB (APC)	≥55dB (APC)	≥55dB (APC)
Adapter cable type		All types	5.0mm/ Mini Figure 8		3.0mm
Tensile load	227N	300N	100N	30N	30N
Working temperature (°C)		-40°C~+70°C		-20°C~+70°C	
Storage temperature(°C)		-40°C~+70°C		-40°C~+70°C	
IP protect level			IP68		

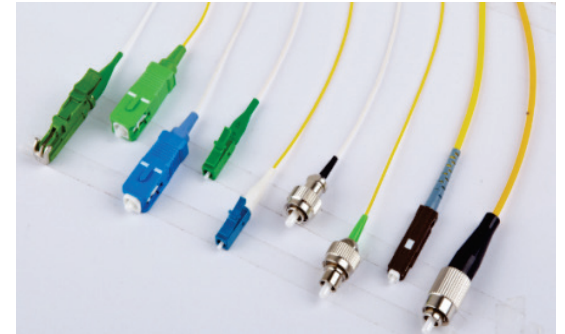
Pigtail & Patch Cord Solutions

Pigtail and Patch Cord

Pigtail and patch-cord are single fiber cable or duplex fiber cable used in the connection of different equipment. Various connectors such as FC, SC and LC are available. Strict manufacturing process ensures the reliable quality of the pre-connectorized connectors. All connectors have good environmental and mechanical performance.

Features

- Ultra-polished (UPC) and Angle-polished (APC) connectors with good performance
- Simplex and duplex are optional
- G.657A1/A2/B3 single-mode fiber are optional
- OM3/OM4 multi-mode fiber are optional
- Flame retardant grade FT4/FT6
- 2mm, 3mm, 4.8mm round drop cable and figure-8 drop cable are available
- Fiber lengths are in the range of 1~999 meters
- Various colors of cable sheath



Connector type

• Single-mode connector

Connector type	Insertion loss	Return loss	Repeatability (500 matings, additional IL)	Exchangeability (additional IL)
SC/UPC	< 0.3dB	≥50dB	< 0.2dB	< 0.2dB
SC/APC	< 0.3dB	≥60dB	< 0.2dB	< 0.2dB
FC/UPC	< 0.3dB	≥50dB	< 0.2dB	< 0.2dB
FC/APC	< 0.3dB	≥60dB	< 0.2dB	< 0.2dB
LC/UPC	< 0.3dB	≥50dB	< 0.2dB	< 0.2dB
LC/APC	< 0.3dB	≥60dB	< 0.2dB	< 0.2dB

• Multi-mode connector

Connector type	Insertion loss (50/125μm and 62.5/125μm)	Repeatability (500 matings, additional IL)	Exchangeability (additional IL)
SC/UPC	≤ 0.3dB	≤ 0.2dB	≤ 0.2dB
FC/UPC	≤ 0.3dB	≤ 0.2dB	≤ 0.2dB
LC/UPC	≤ 0.3dB	≤ 0.2dB	≤ 0.2dB

Multi-mode loss: 850nm wavelength

1. When the length is less than or equal to 50m, $IL \leq 0.3dB$;
2. When the length is greater than 50m, $IL = 0.3dB + L \times 3.5dB/1000m$

Pigtail and Patch Cord

Single fiber cable

• Cable specification

Item	2mm		3mm		4.8mm	
Outer sheath material	LSZH	PVC	LSZH	PVC	LSZH	PVC
Tight buffer material	LSZH	PVC	LSZH	PVC	LSZH	PVC
Flame retardant grade	FT4	FT6	FT4	FT6	FT4	FT6
Tight buffer diameter	900μm ± 50μm					
Reinforcing element	Aramid yarn					
Fiber core	G.657A1/A2/B3, OM3/OM4					
Outer cable diameter	2.0±0.2mm		3.0±0.3mm		4.8±0.3mm	
Cable weight	5.0±1.5 kg/km		8.0±2.0 kg/km		20±5kg/km	

• Cable operating parameters

Item	2mm	3mm	4.8mm
Tensile performance	100N	200N	350N
Crush	50N/10cm	100N/10cm	150N/10cm
Operation temperature	-40°C ~ +70°C		
Installation temperature	-30°C ~ +60°C		
Storage/shipping temperature	-40°C ~ +70°C		
Static bending radius	10D (D is the outer diameter of cable)		
Dynamic bending radius	20D (D is the outer diameter of cable)		

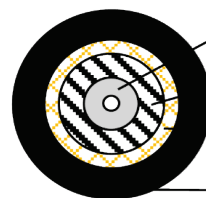
• Cable structure



Aramid yarns: reinforcing element

Tight buffer: containing 1 fiber

Outer Sheath: LSZH/PVC material



Tight buffer(LSZH)

Spiral steel armored

Stress member

Outer sheath (LSZH)



Pigtail and Patch Cord

Duplex fiber cable

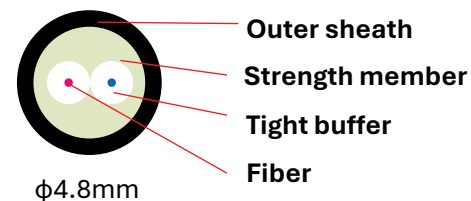
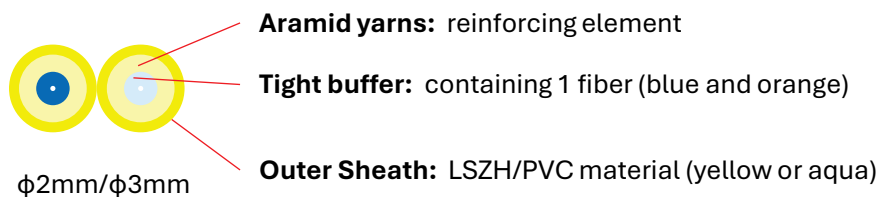
• Cable Specification

Item	2mm		3mm		4.8mm
Outer sheath material	LSZH	PVC	LSZH	PVC	LSZH
Tight buffer material	LSZH	PVC	LSZH	PVC	Nylon
Flame retardant grade	FT4	FT6	FT4	FT6	FT4
Tight buffer diameter	900μm±50μm				
Reinforcing element	Aramid yarn			Water blocking glass yarn	
Fiber core	G.657A1/A2/B3, OM3/OM4				
Outer cable diameter	(4.0×2.0) ±0.3mm		(6.0×3.0) ±0.3mm		4.8±0.2mm
Cable weight	10.0±3.0 kg/km		17.0±3.0 kg/km		27.4±5kg/km

• Cable operating parameters

Item	2mm	3mm	4.8mm
Tensile performance	100N	400N	450N
Crush	50N/10cm	200N/10cm	2000N/10cm
Operation temperature	-40°C ~ +70°C		
Installation temperature	-30°C ~ +60°C		
Storage/shipping temperature	-40°C ~ +70°C		
Static bending radius	10D (D is the outer diameter of cable)		
Dynamic bending radius	20D (D is the outer diameter of cable)		

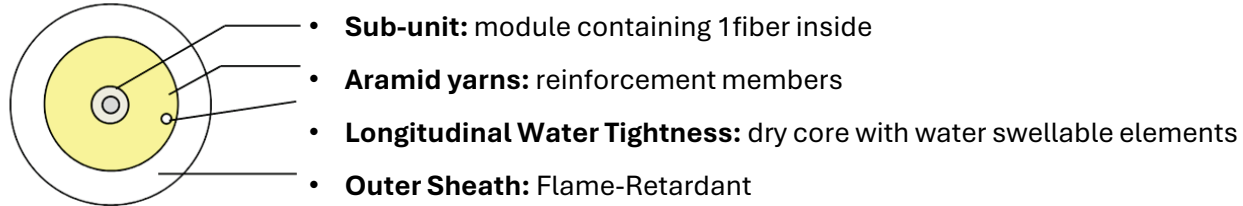
• Cable structure



Indoor Flame-Retardant Patch Cord

CSA FT-4/FT-6 Certified Cable 3.0/4.8mm

Cable Structure



Specification

Type of cable	Riser Compact	Riser Ruggedized	Riser Ruggedized	Plenum Compact	Plenum Ruggedized	Plenum Ruggedized
Application scenarios	Indoor		Outdoor	Indoor		Outdoor
Number of fiber	1			1		
Tight buffer Diameter (μm)	900±50			900±50		
Nominal Cable Diameter (mm)	3.0	4.8	4.8	3.0	4.8	4.8
Cable Weight (kg/km)	10.0±1.0	28.1±2.0	28.1±2.0	10.0±3.0	28.1±5.0	28.1±5.0
Tension MAX (N)	220	450	450	220	450	450
Crush resistance (N/cm)	35	100	100	35	100	100
Color of jacket	Ivory, White, Yellow, Black		Black	Ivory, White, Yellow, Black		Black

Application

Temperature Range	Indoor rated	Outdoor rated
Operation	-20°C~ +70°C	-40°C~ +70°C
Installation	0°C~ +60°C	-30°C~ +60°C
Storage/Shipping	-40°C~ +70°C	-40°C~ +70°C

Fiber Tech Go Kit

Fiber Tech Go-Kit

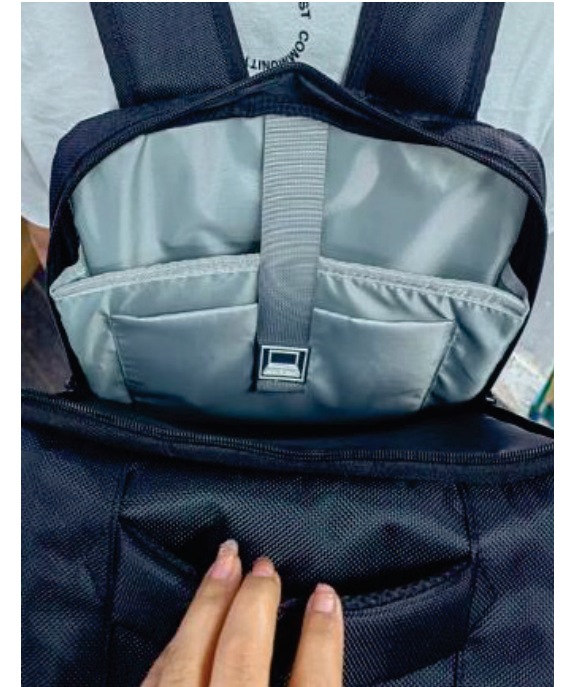
- Capacity of 21L, with 15.5L in the tool layer and 5.5L in the laptop layer, which can easily fit in a 17-inch laptop as well as additional tools.
- Switchable double shoulder carry and single shoulder crossbody carry ensuring Tech safety.
- Heavy duty wear-resistant, padding, and waterproof fabric to protect sensitive electronics.



for Tools



USB Port



for Laptop

Fiber Tech Go-Kit - Tools

	Standard configuration	Reference picture	Premium configuration	Reference picture	Item Number
1	3 Hole Fiber Optic Stripper		3 Hole Fiber Optic Stripper		STR
2	Cable Slit		Cable Slit		CAS
3	Kevlar scissors		Kevlar scissors		KSC
4	420 SUS Scissors		420 SUS Scissors		SCI
5	Pen-type fiber cleaner 2.5mm		Pen-type fiber cleaner 2.5mm		FOCP-25-BE
6	Fiber Optic Flat Drop Cable Slitter		Fiber Optic Flat Drop Cable Slitter		SLI
7a	FB-1688C Cleaver				FB-1688C
7b			Fujikura CT08 Cleaver		FU-CT08

Fiber Tech Go-Kit – Tools (cont'd)

	Standard configuration	Reference picture	Premium configuration	Reference picture	Item Number
8a	Visual Fault Locator (1mW)				VFL301-01
8b			Visual Fault Locator (10mW)		VFL301-10
9	Fiber Wipes		Fiber Wipes		WIP
10	Fiber peeling tool		Fiber peeling tool		FPT
11	Fiber Tweezers		Fiber Tweezers		TWE
12			Optical power meter		OPM101
13			Crimp Tool		CRT

Fiber Tech Go-Kit – Additional Tools

Basic Version

Item Number	Catalog	Description
FLHA-01	Adaptor	Optional accessory, FC-LC Hybrid adaptor from 2.5mm FC to 1.25mm LC. Use with Power Meter/Light Source
OLS201-35-LD9-FOA22	Light Source	Optic Light Source 1310/1550nm, SM LD 9/125um, FC and SC/APC connector
VFL301-50	VFL	Visual Fault Locator, metal body design with Rubber protection on connector part, ESD protection design; Re-changeable ceramic tube; Up to 50mw Power
VFL301N-01	VFL	Mini Visual Fault Locator, Both CW and Pulse(2Hz) available; up to 40 hours with AAA batteries; 1mw Power
VFL301N-10	VFL	Mini Visual Fault Locator, Both CW and Pulse(2Hz) available; up to 25 hours with AAA batteries; 10mw Power
FC101A	Cleaner	Fiber Connector Cleaner Cassette (dual-core cleaning), Cleaning Times Over 500 times per reel (dual-core); Replaceable cleaning tape;
FOCP-25-BE	Cleaner	Pen-type Fiber Cleaner for 2.5mm SC/FC/ST, designed to clean both the male connector ends and female bulkhead adapters, 500+ times; Effectively clean all kinds of dust, oil and debris;
FOCP-125-BE	Cleaner	Pen-type Fiber Cleaner for 1.25mm LC/MU, designed to clean both the male connector ends and female bulkhead adapters, 500+ times; Effectively clean all kinds of dust, oil and debris;



Mini VFL



VFL



Fiber Cleaner Cassette



FOCP-25-BE



FOCP-125-BE

Fiber Tech Go-Kit – Additional Tools

Premium Version

Item Number	Catalog	Description	Remarks
OLS201-8335-LED50-FOA11	Light Source	Optic Light Source 850/1300/1310/1550nm, SM LD 9/125um, MM LED 50/125um, FC and SC/APC connector	Support OM2/3/4 MM and SM Both
PON106AP-FOA22	XGS PON Power Meter	10Gb PON Power Meter(XGS-PON), Auto detected EPON,GPON mixed with new generation 10G-EPON or XGS-PON; Supports tests in GPON, EPON, and XGS-PON/10G-EPON networks with RF Overlay feature, SC/APC FC/APC(UPC optional), Alkaline Battery(3 AA 1.5V batteries),with FC/SC APC connector	
iOPM101A-L+ iOLS201A	Premium Power Meter	Intelligent Optical Loss Test Kit; 1310/1490/1550/1625nm±20nm optic source, 850,1300,1310,1490,1550,1625nm Auto Detected Power meter; Support other wavelength customization. Optic Power Meter with measure range from -70dBm to +6dBm	
OMT105-85-LED50-H-OP10-FOA11	Light Source	Optical Multi Tester, 850/1300nm light source, MM LED 50/125um, VFL=10mW, FC/UPC and SC/UPC Connector, Power Meter range -50~+26dBm	
OFI401	OFI	Optical Fiber Identifier, Identified Wavelength Range 800-1700 nm, Identified Signal Type CW, 270Hz±5%, 1kHz±5%, 2kHz±5%; Alkaline Battery(2 AA 1.5V batteries)	
OTDR801HN-356-FOA22	OTDR	Portable Modalized OTDR with 10mw Power VFL and optional OPM module, Wavelength 1310/1550nm/1625nm wavelength; Dynamic Range 35/33/32dB; with default SC/APC connector and replaceable FC/APC Connector	



XGS-PON Power Meter



Intelligent OTDR



Optical Fiber Identifier TS-OFI401

Fiber Tech Go-Kit – Additional Tools

Premium Version (cont'd)

Item Number	Catalog	Description	Remarks
OTDR801ACB	OTDR Accessories	OTDR Launch Cable Box only	
OTDRC-500	OTDR Accessories	OTDR Launch Drop Cable, 500Meter SM Fiber, G.652.D	At least one drop cable needed for OTDR
OTDRC-1000	OTDR Accessories	OTDR Launch Drop Cable, 1000Meter SM Fiber, G.652.D	At least one drop cable needed for OTDR
FM4021P+	Connector Inspection Microscope	Intelligent WIFI Inspection Microscope, with WI-FI or USB connection support software install on PC or App install on smart phone; with UPC tool kits	
FM4021P+-001	Microscope Accessories	2.5MM/APC-M TIP	APC Adaptor for Microscope
FM4021P+-002	Microscope Accessories	1.25MM/APC-M TIP	APC Adaptor for Microscope
FM4021P+-003	Microscope Accessories	FC/APC-F TIP	APC Adaptor for Microscope
FM4021P+-004	Microscope Accessories	SC/APC-F TIP	APC Adaptor for Microscope
FM4021P+-005	Microscope Accessories	LC/APC-F TIP	APC Adaptor for Microscope

09

PART NINE

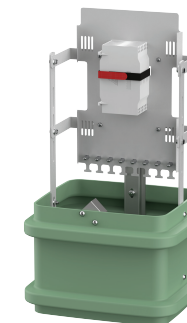
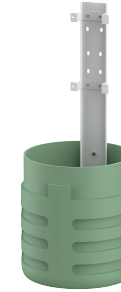
Pedestals

Fiber Pedestals

- Can customize any type pedestal (need volume to make it worth the effort)
- Local inventory is possible, but we must make quarterly turns.
 - We can sell in pallet quantity if needed.
 - If a new customer is trying us out... exceptions can be made
- Peds can be pre-configured with Splice Tray, FAT/MPT, FSC
 - Model A = Splice Tray
 - Model B = FAT/MPT
 - Model C = FSC

Pedestals - Small

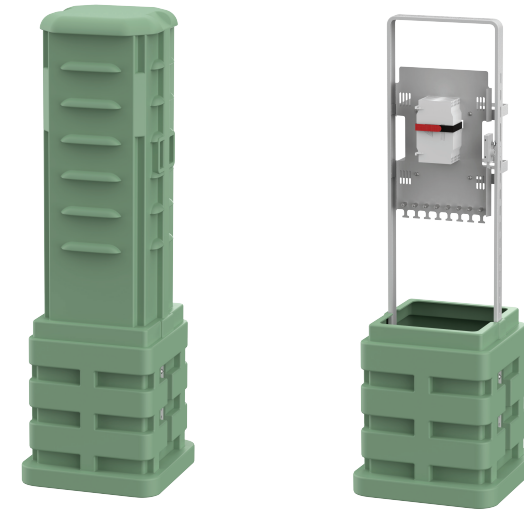
- **PD-925** 9" diameter, 25" height, good for pop ups
 - 40ft Container: 768
 - 20ft Container: 384
 - Pallet Qty: 24
- **PD-141226** 14"*12"*26"(W*D*H), with bracket frame.
 - Optional anchor stake for direct bury
 - HDPE, IP54 grade
 - 4.2kg
 - 40ft Container: 576
 - 20ft Container: 288
 - Pallet Qty: 18
- **PD-141226-A** 14"*12"*26"(W*D*H)
 - 4.7kg
 - with six splice trays for maximum 144f splice capacity.



Pedestals - Large



- **PD-141446** 14.56'' x 14.56'' x 46.85'' Pedestal, empty, with metal bracket only.



- **PD-141446-A** 14.56'' x 14.56'' x 46.85'' Pedestal, hex lock
• with six splice trays for max 144f splice capacity.

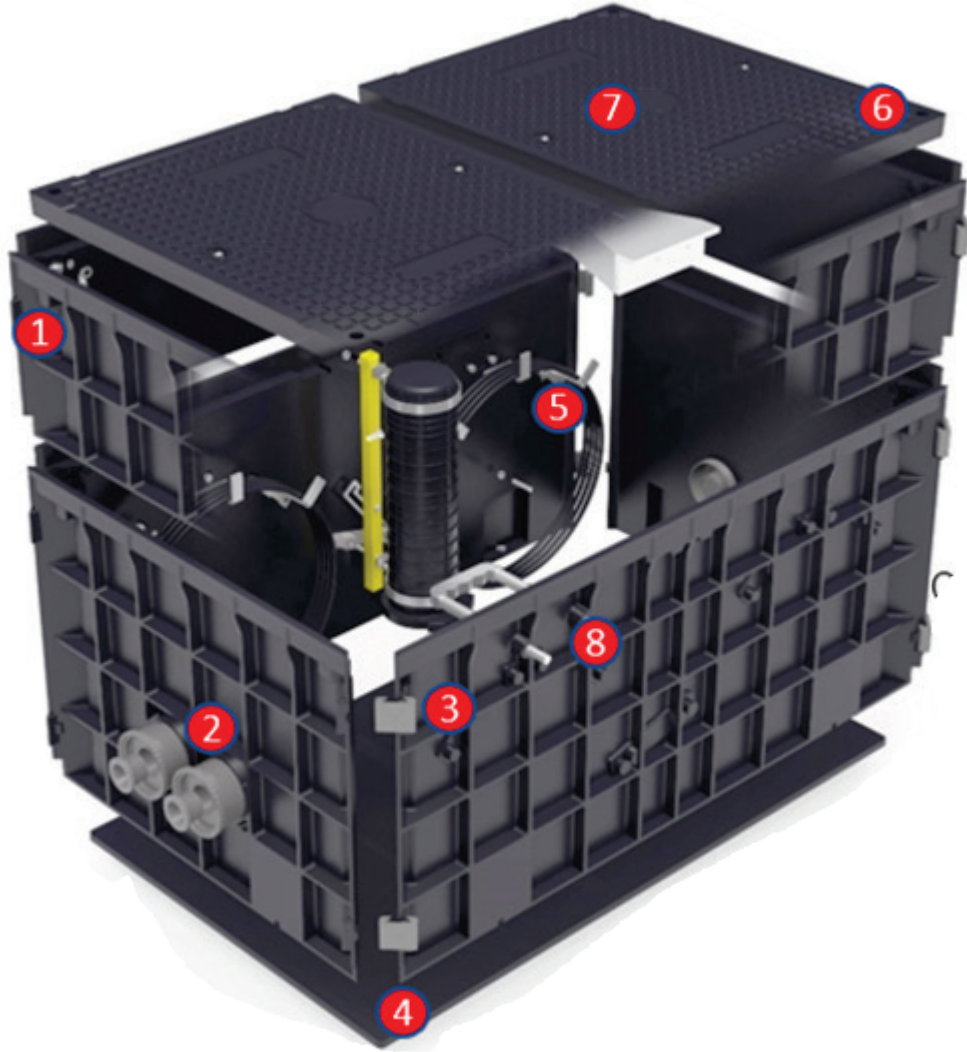
Item	Details
Material Quality	HDPE
Resist UV	1000h
Installation Hole Distance	220mm
Sealing Method	Contact Seal
Buried	200mm / 7.9''
Levels Of Protection	IP 54
Environmental Requirements	ROHS
Logo	Die Printing / Laser Marking
Box Body Color	Green
Outline Dimension	370×370×1190mm(±3.0) / 14.56'' X 14.56'' X 46.85''
Weight	5.5 Kg
Operating Temperature	-40°C ~ + 65°C;
Storage Temperature	-40°C ~ + 70°C;
Relative Humidity	93% (+ 40°C);
Atmospheric Pressure	70 ~ 106 Kpa

10

PART TEN

Handholes & Vaults

Modular Vaults Tech Feature

- 
- 1 Modular**
Panels in 12" & 24" height
Stack to increase height
Field replaceable
 - 2 Optional Sealed Entry**
Fast knock out
Mechanical reducer/seal
 - 3 Quick Clip**
No bolts, nuts, or tools
Installs in less than half the time
 - 4 Optional Floor**
Clean environment
Prevents vegetation
Anti-slip
 - 5 Storage & Mounting Options**
Clean access & max storage
Application customizable
 - 6 Covers**
Stainless hex bolt or custom locking
Cabinet mountable
 - 7 Customer Logo**
Customer logo on metal plate
Easy install and customization
 - 8 Knock Down = ships flat on pallet**
Low transport cost.
70% faster install vs. concrete

Customizable, Space Saving, Light, Strong, *Grab-n-Go Modular Solution*

SCTE 77 Vault Ratings = Use Case

APPLICATION	LOADING REQUIREMENTS			
Light Duty Pedestrian Traffic Only	Vertical	Test Load	13.3kN	3000 pounds
TIER 5 Sidewalk applications with a safety factor for occasional non-deliberate vehicular traffic	Vertical	Design Load	22.2 kN	5000 pounds
	Lateral	Test Load	33.3 kN	7500 pounds
Design Load		28.7 kPa	600 pounds/sq.ft.	
	Test Load	43.1 kPa	900 pounds/sq.ft. (1800/2700 pounds/ lateral load plate)	
TIER 8 Sidewalk applications with a safety factor for non-deliberate vehicular traffic		Vertical	Design Load	35.6 kN
	Lateral	Test Load	53.4 kN	12000 pounds
Design Load		28.7 kPa	600 pounds/sq.ft.	
	Test Load	43.1 kPa	900 pounds/sq.ft. (1800/2700 pounds/ lateral load plate)	
TIER 15 Driveway, parking lot, and off-roadway applications subject to occasional non-deliberate heavy vehicular traffic		Vertical	Design Load	66.7 kN
	Lateral	Test Load	100.1 kN	22500 pounds
Design Load		38.3 kPa	800 pounds/sq.ft.	
	Test Load	57.5 kPa	1200 pounds/sq.ft. (2400/3600 pounds/ lateral load plate)	
TIER 22 Driveway, parking lot, and off-roadway applications subject to occasional non-deliberate heavy vehicular traffic		Vertical	Design Load	100.1 kN
	Lateral	Test Load	150.1 kN	33750 pounds
Design Load		38.3 kPa	800 pounds/sq.ft.	
	Test Load	57.5 kPa	1200 pounds/sq.ft. (2400/3600 pounds/ lateral load plate)	
AASHTO H-20 Deliberate vehicular traffic applications.		Certified precast concrete, cast iron, or AASHTO-recognized materials.		
Table 1 – Design / Test Loads				

Light Duty: Flowerpot & Handholes

- **10x14x10 Flowerpot**
- 12x12x12 Handhole
- **12x16x12 Handhole**
- Modular vaults available in 90 days

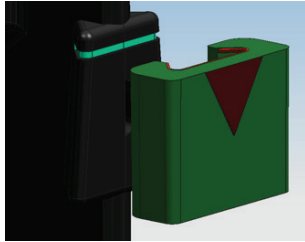
Tier 5: Need Opportunity

- Modular vaults available in 90 days
- Pads are Tier 5 for handling ease

Tier 15 & Tier 22 Modular Vaults

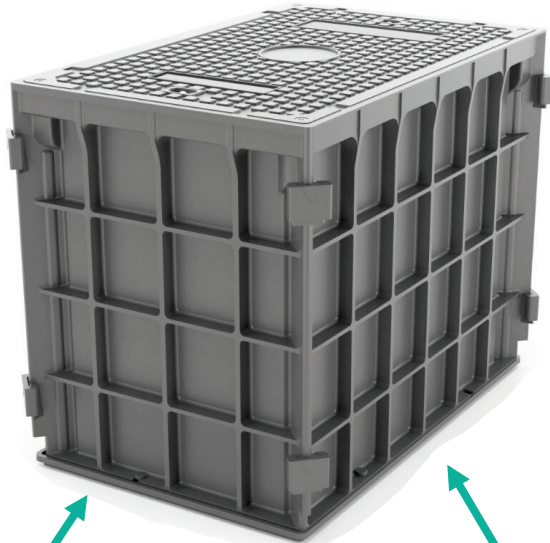
- **Available now & in stock**
- **12x12x12**
- **12x18x18**
- **17x30x24**
- **24x36x24**
- **30x48x36**

HDV-1730 17x30 Modular Vault Anatomy



Quick Clip Fastener

Base Height: 24"



24" Base

S: Short Side Wall

L: Long Side Wall

High Rise: 36"

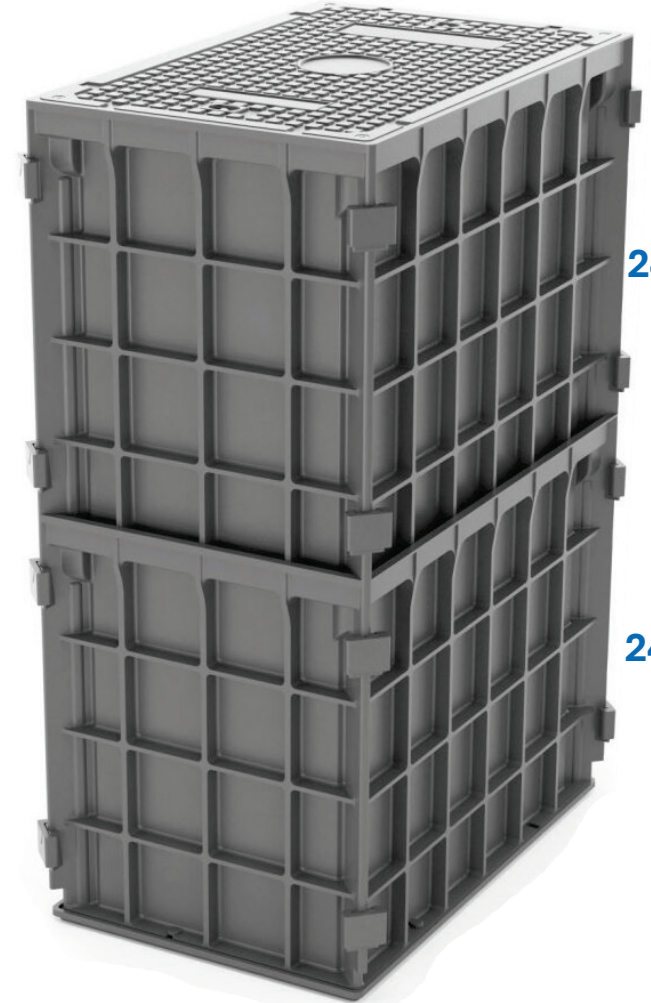


12" Riser

24" Base

RS: Riser Short Side Wall

Ultra High Rise: 48"



24" Base

24" Base

RL: Riser Long Side Wall

Vault Accessories

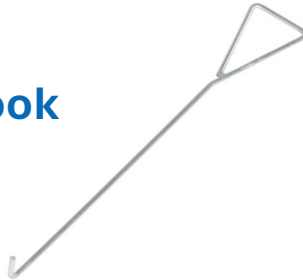
Name Plate

- Included per Lid



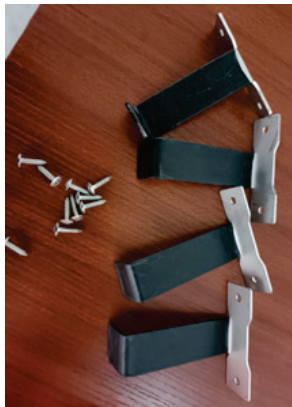
Cover Hook

- 2x Included



Fiber Hooks

- Included



Smart Ball ID Marker

- Read/Write @ 2'
- 360 Sense @ 5'
- 50yr. life
- Application colors



Smart Disc ID Marker

- Read/Write @ 1.5'
- 360 Sense @ 2'
- 50yr. life
- Application colors



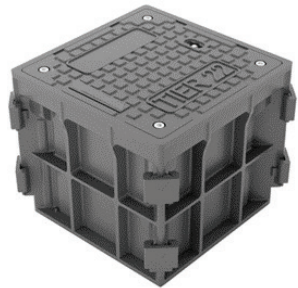
Grounding Plate

- Galvanized Steel
- With Connector

Released Handholes and Vaults

- *** Standard sizes**
- **Optional colors available**

Modular Handholes



12x12x12*



12x18x18*

**Modular Vaults &
Handholes Rated
Tier 15 & 22**

Light Duty Handholes



12x16x12*



**6x9x9
10x14x10***

Small Modular Vault



17x30x24*
17x30x36
17x30x48

Medium Modular Vault



24x36x24*
24x36x36
24x36x48

Large Vault



30x48x36*

Advantage of SureAlign Vaults Solution

Lightweight & stronger than steel: Maintains shape in all environments

Easy, Fast Install: No crane, no Tools, easy to use

Environmental resistant: Doesn't degrade, deteriorate or break if dropped

Modularity: Stack to add depth, ships flat, field replaceable parts

Easy transport and low logistics cost: 20 vaults per pallet, easy to lift

Radio Friendly: Allows location radio signals to be read

Vault-1730 Series Tier 22 Ordering Info

Order Assembly Part

Includes: Vault + Accessories

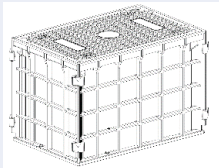
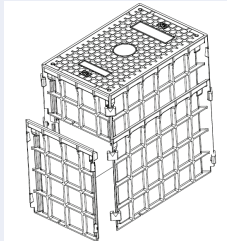
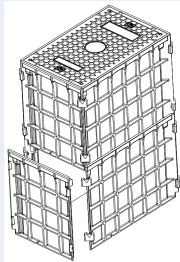
- S = short side
- L = long side
- C = cover
- RS = Riser short side
- RL = Riser long side

Includes Accessories:

- Clips for corner connections
- SS Bolts and Nuts for cover
- 4x Fiber J brackets w/ mount
- ID Marker bracket w/ mount
- 2x Cover lifting hooks

Order Spare Part

- Ala-carte ordering of individual vault walls
- See accessories page for ordering information

Item Number	HDV-1730A	HDV-1730B	HDV-1730C
Ships: 3 pallets • 40 Short Side • 40 Long Side • 20 Covers   			
Internal Size (inch) W x L x H	17x30x24	17x30x36	17x30x48
External Size (inch) W x L x H	21x33x24	21x33x36	21x33x48
Weight (lbs)	109.25	147.17	170.53
Side Wall parts included			
HDVP-1730S	2	2	4
HDVP-1730L	2	2	4
HDVP-1730C	1	1	1
HDVP-1730RS	0	2	0
HDVP-1730RL	0	2	0

Vault-2436 Series Tier 22 Ordering Info

Order Assembly Part

Includes: Vault + Accessories

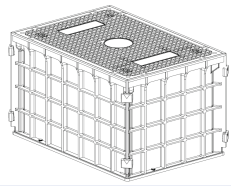
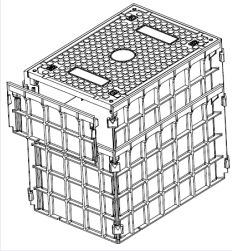
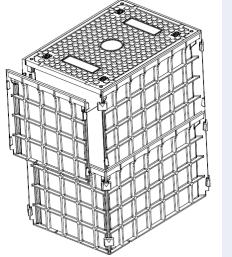
- S = short side
- L = long side
- C = cover
- RS = Riser short side
- RL = Riser long side

Includes Accessories:

- Clips for corner connections
- SS Bolts and Nuts for cover
- 4x Fiber J brackets w/ mount
- ID Marker bracket w/ mount
- 2x Cover lifting hooks

Order Spare Part

- Ala-carte ordering of individual vault walls
- See accessories page for ordering information

Item Number	HDV-2436A	HDV-2436B	HDV-2436C
Ships: 3 pallets • 40 Short Side • 40 Long Side • 20 Covers			
Internal Size (inch) W x L x H	24x36x24	24x36x36	24x36x48
External Size (inch) W x L x H	27x39x24	27x39x36	27x39x48
Weight (lbs)	158.15	204.89	244.65
Side Wall parts included			
HDVP-2436S	2	2	4
HDVP-2436L	2	2	4
HDVP-2436C	1	1	1
HDVP-2436RS	0	2	0
HDVP-2436RL	0	2	0

Vault-3048 Series Tier 22 Ordering Info

Order Assembly Part

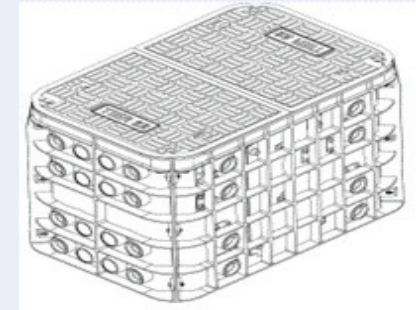
- **Includes: Vault + Accessories**
 - S = short side
 - L = long side
 - C = cover
 - RS = Riser short side
 - RL = Riser long side
- **Includes Accessories:**
 - SS Assembly hardware
 - SS Bolts and Nuts for cover
 - 4x Fiber J brackets w/ mount
 - ID Marker bracket w/ mount
 - 2x Cover lifting hooks

Order Item Number

HDV-3048

Ships: 3 pallets

- 20 Short Side
- 20 Long Side
- 20 Covers



Internal Size (inch) W x L x H

30x48x36

External Size (inch) W x L x H

32x50x36

Weight (lbs)

326.98

Side Wall parts included

HDVP-3048S

2

HDVP-3048L

2

HDVP-3048C

2

Order Spare Part

- Ala-carte ordering of individual vault walls
- See accessories page for ordering information

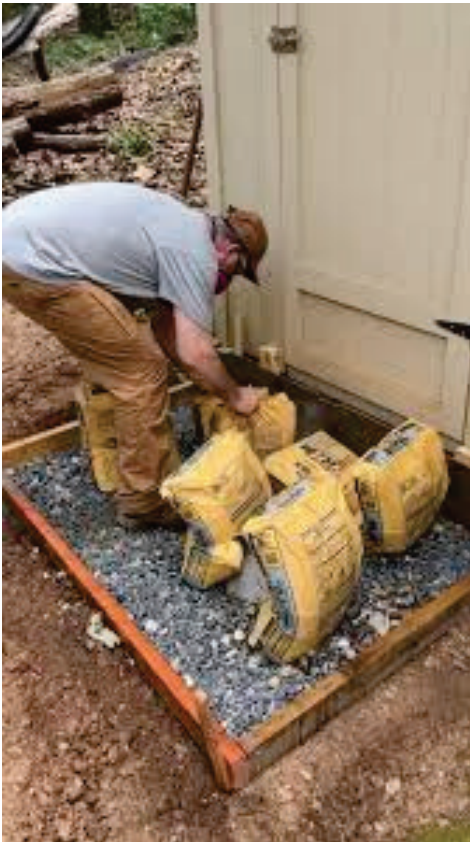
11

PART ELEVEN

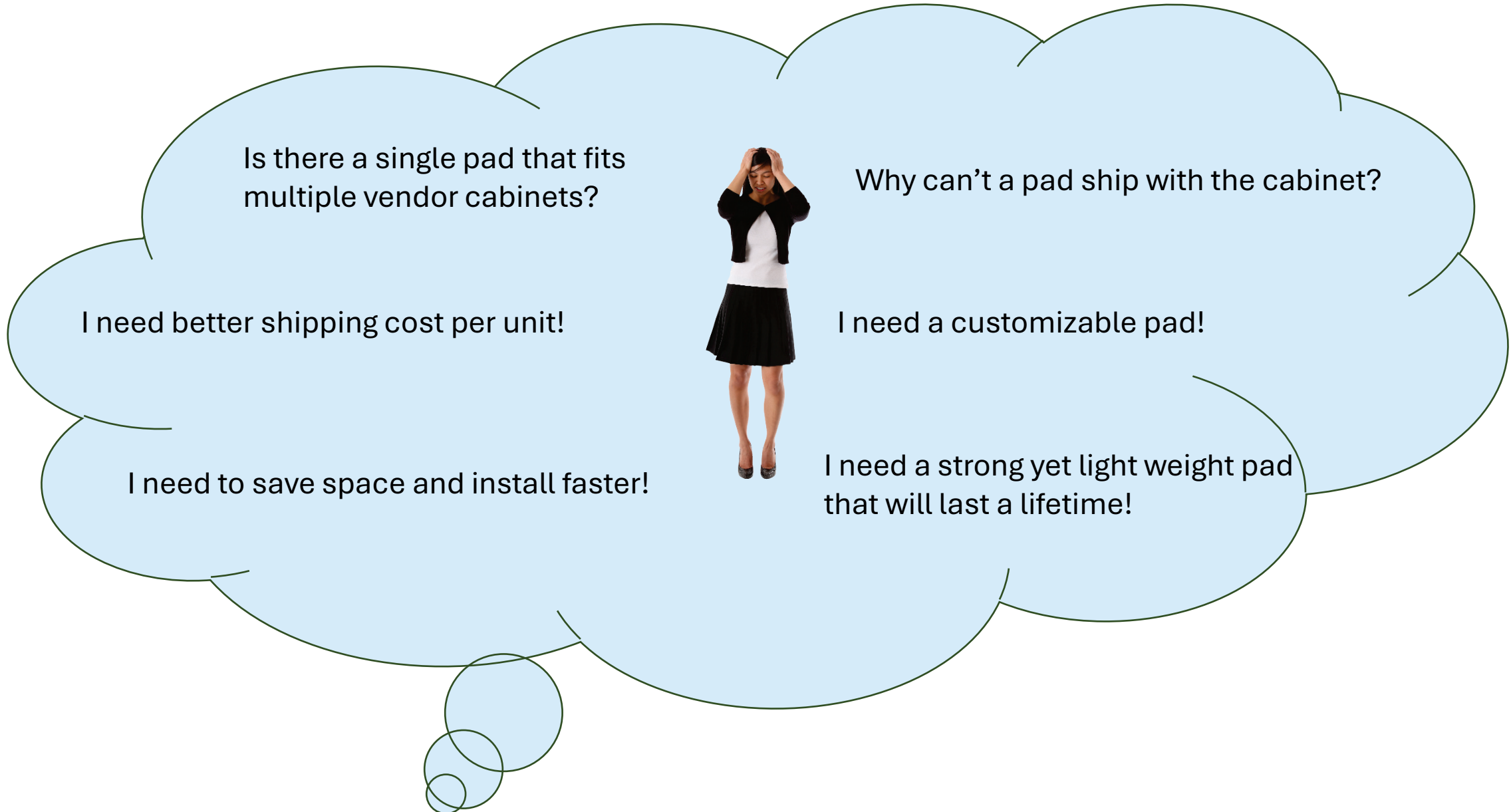
Drop In Place Pads

Current Market Solutions

- Pour in Place or Precast Cement Composite:
 - Long install/cure time, Long lead times, Requires lift, & Limited life



Market Needs... A Drop-In Solution



New “Drop-In” Solution!

Available

- Green & mass produced
- On-Hand availability

Strong

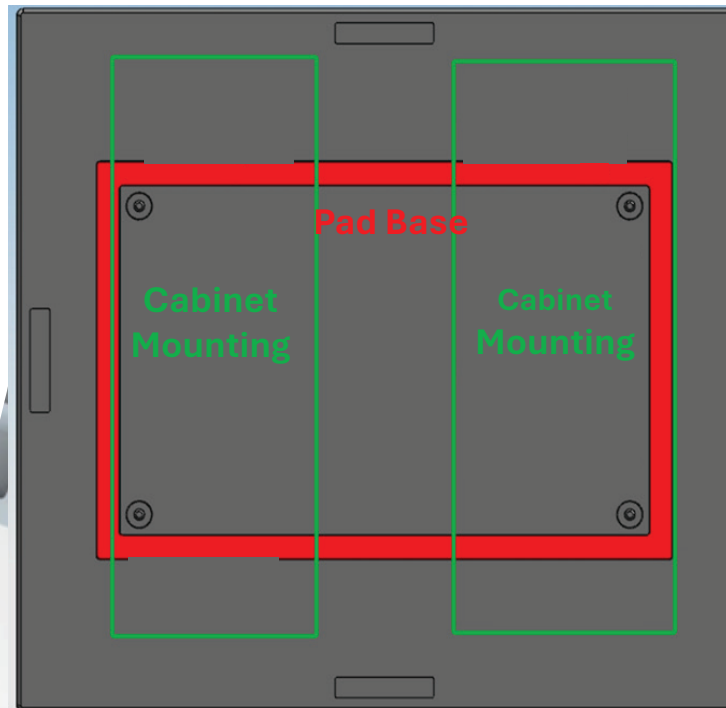
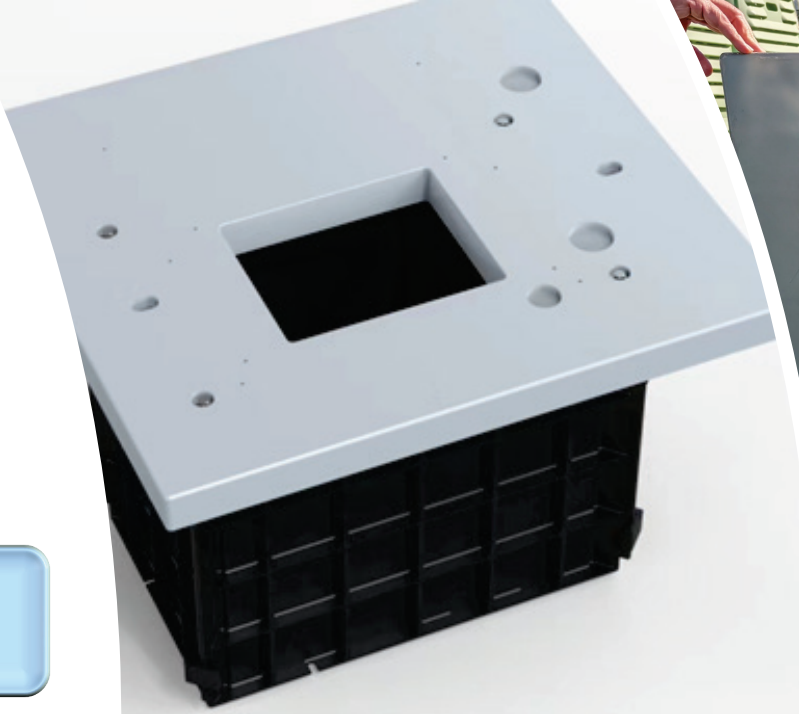
- Stronger than metal, last 50+ yrs.
- Will not degrade or deform

Light Weight

- Less shipping, space & weight
- Lower install cost, 1 person only

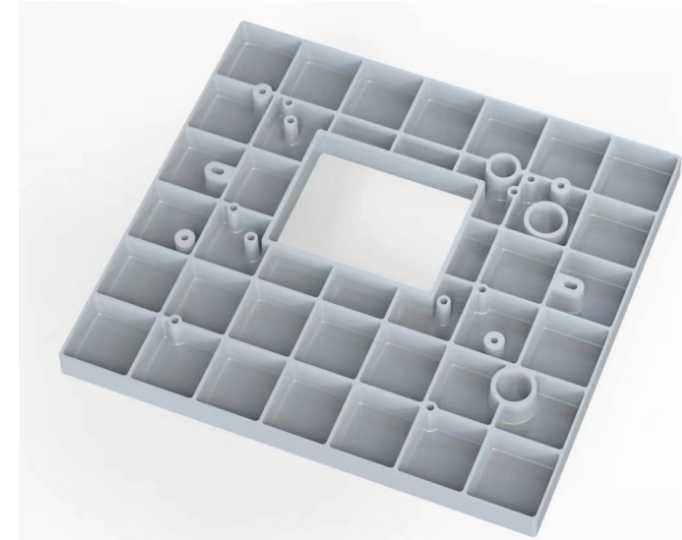
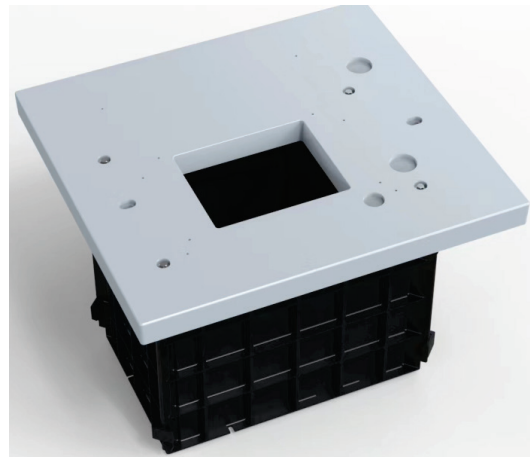
Customizable

- Tool specific or post-production
- Local contractor



Drop-In Place Pads with Base

- Off the shelf... ***no waiting for cure time, no erosion issues***
- Light & Robust... ***No lift, No eyelet grinding, 1/10th weight of cement comp.***
- Environmental resistant... ***will not degrade or crack, 50+ yr. life***
- Protect your power investment... ***lock your cabinet down & store cable***
- Modularity approach... ***Repair / Replace parts only as needed, store flat***



Vault modularity & Drop-In Pads = Low Cost, Low Touch, Long Life

Modular Handhole



3 Polymer Concrete
Vaults

VS.

20 Modular Bases

Save \$ in shipping
& storage space

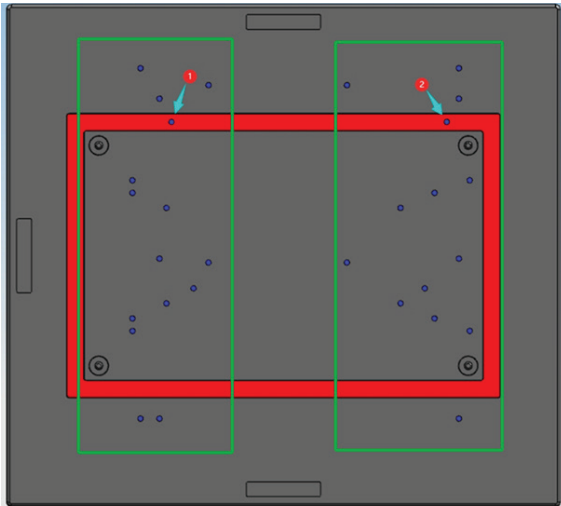


Easy to install a cabinet on this generic Pad

Drill pilot holes for cabinet mounting

Use hole saw for conduit access inside the vault pattern

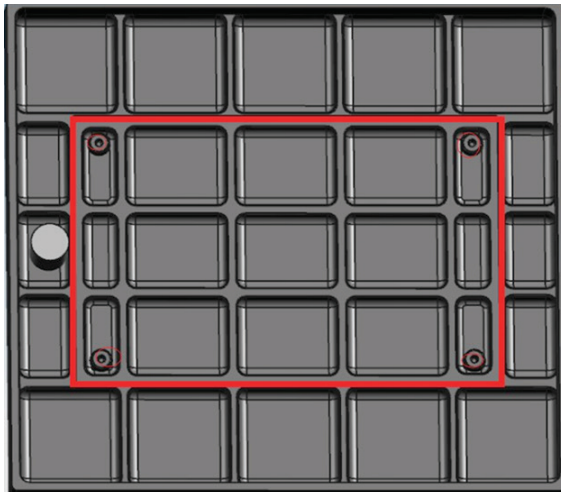
Use hole saw for power access if needed outside the vault



Top view of Pad

Red outline is the vault pattern.

Small circles are template locations of multiple vendor power cabinets



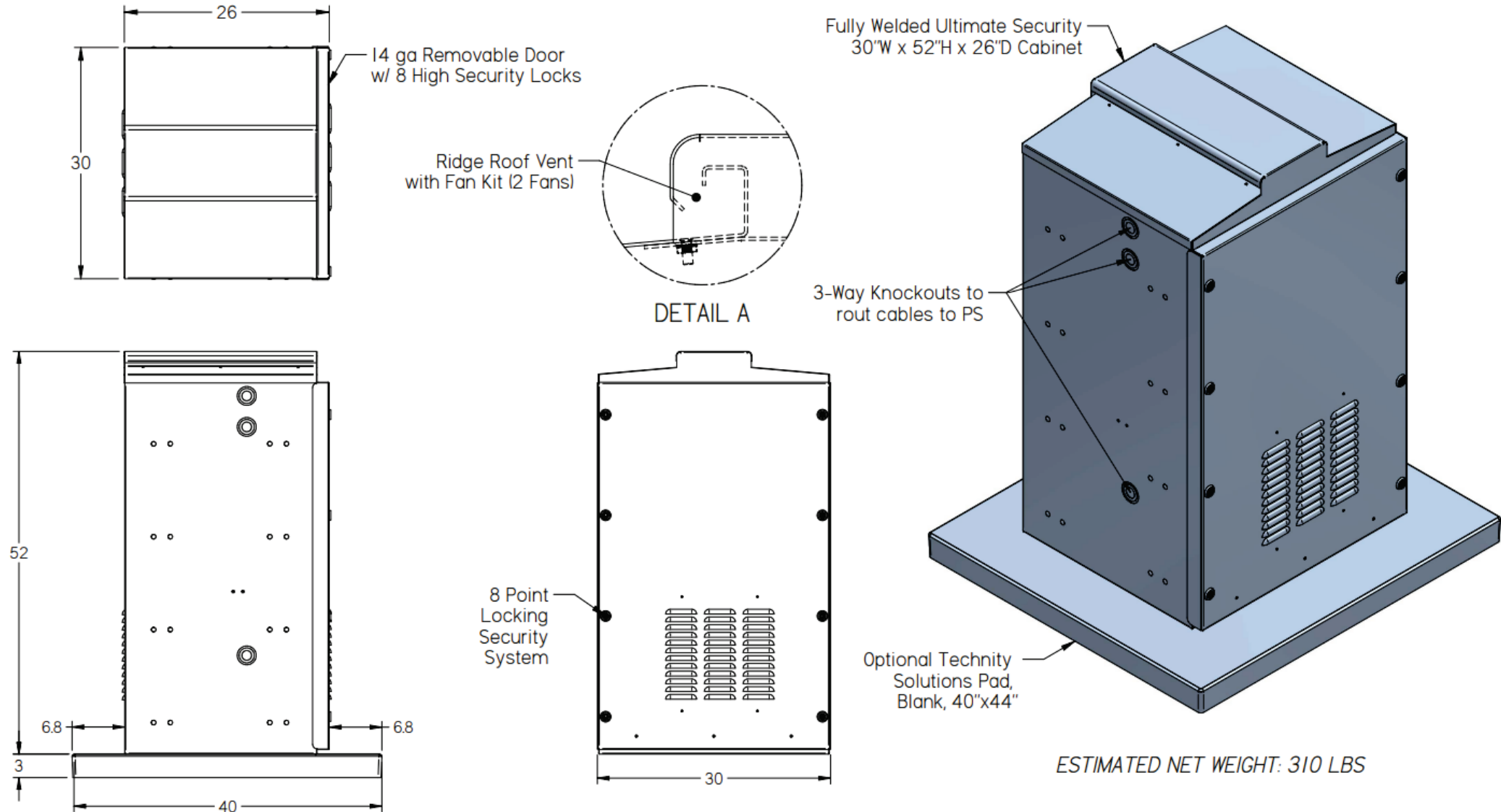
Bottom view of Pad

Red outline is the vault pattern.

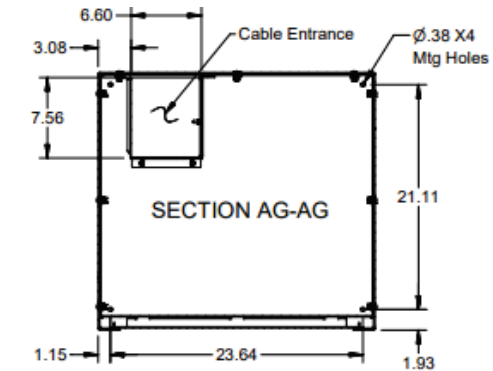
Note 3" power hole between vault and pad edge.



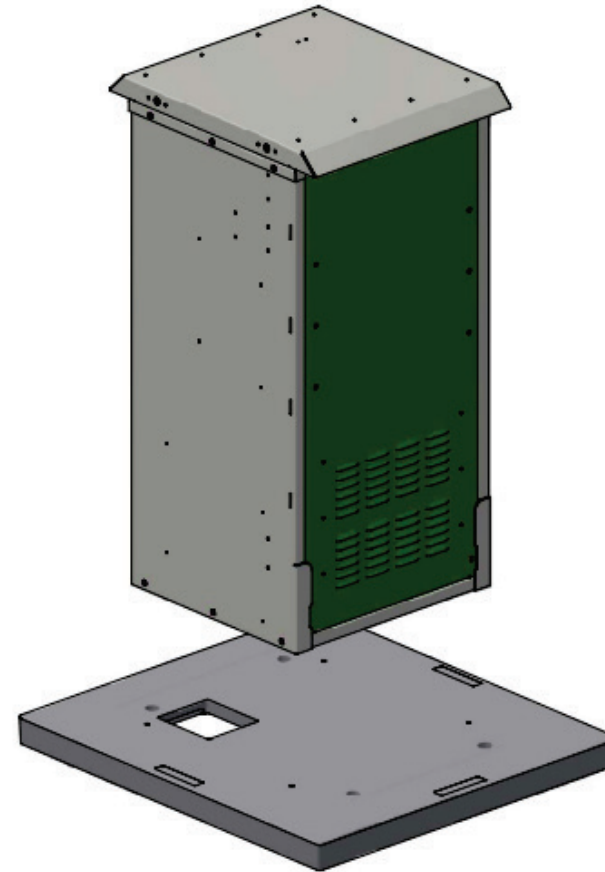
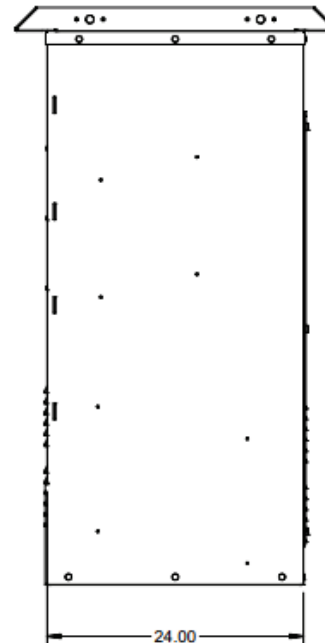
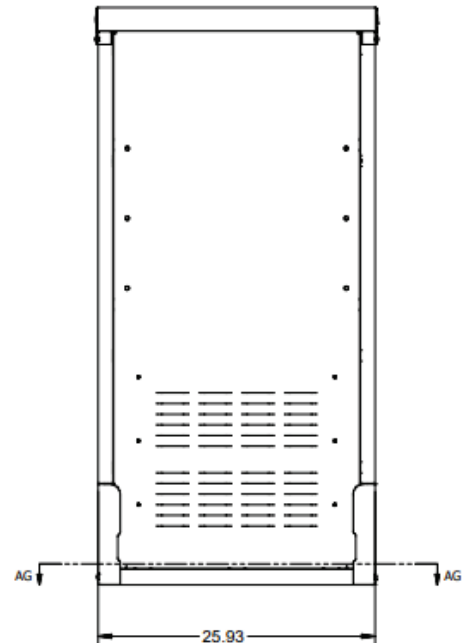
Moore CP Battery Cabinet-Pad



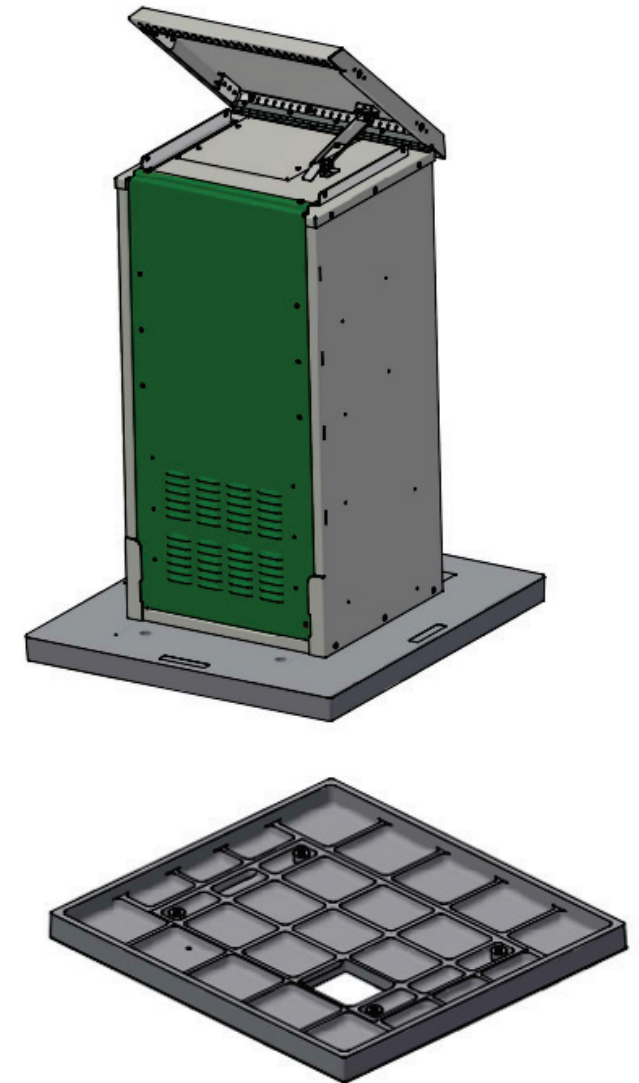
American Products Power & Pad



AM-522624-HSPN
Pad Layout



EXPLODED VIEW



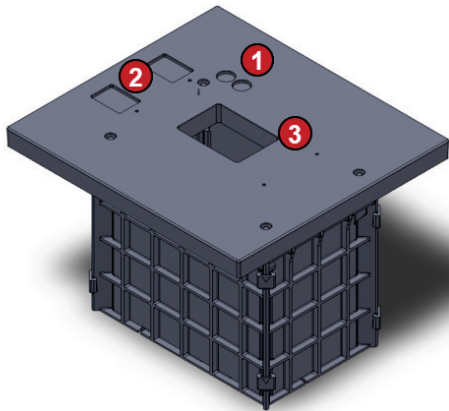
BOTTOM OF PAD VIEW

Generic Pad-Base or Custom Tools for Alpha

SKU 1

COMPATIBLE WITH UPE-3/6 AND UPE-4/8

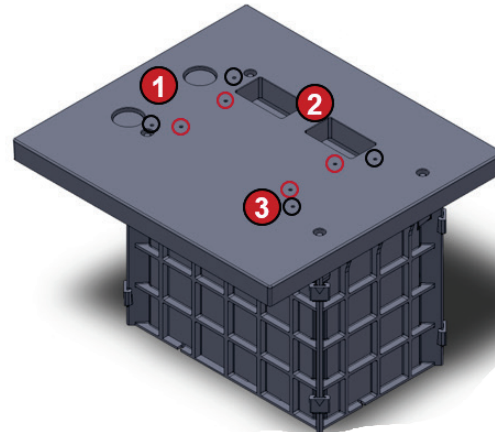
- ① Conduit knockouts for rear coax raceway
- ② Knockouts for meter assembly and service entrance
- ③ 8" x 11.5" cutout



SKU 2

COMPATIBLE WITH PN-3/4 AND UPE-M3/6

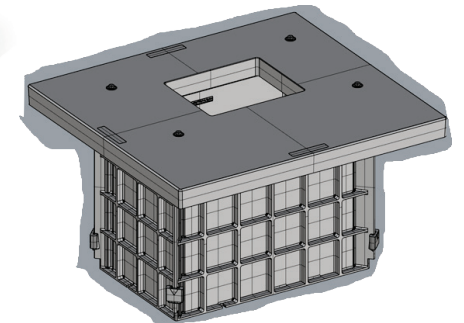
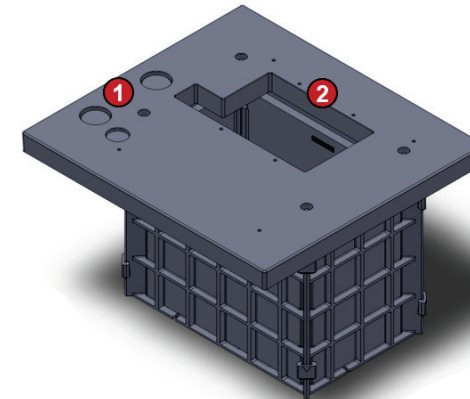
- ① Knockouts for meter assembly and service entrance
- ② (2) 8" x 4.5" for PN series access and rear UPE-M access
- ③ Mounting provisions for **PN** and UPE-M series



SKU 3

COMPATIBLE WITH FPE

- ① Knockouts for meter assembly and service entrance
- ② Cutout for access



SKU 4

COMPATIBLE WITH FBE, FAE, AND RMB. BLANK PAD FOR FIELD PREP.

- ① Blank pad on top of 17x30 base vault
- ② 40x44" Pad, 8.5" x 11" cutout or blank

Drop-In Pad Details

- Base: Released Generic Pad: Released
- MOQ Pad/Base: 20 units on 3 pallets, 340 units per 40ft. container
- Accessories: Pad/Base Bolts, Cabinet Lag Bolts, Base Chips, Template, Lid Tool
- Standard Leadtime: 8-10 weeks, expedite available.
- Additional tools can be provided in 45 days.
- Cabinet specific tools can be provided for high volume apps.
- Additional Vault with Lid solutions available

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PART TWELVE

MicroDuct

MDB (MicroDuct Bundle)

- We can provide full customization for MicroDuct

MDB - _ _ - _ _ - _ _ - _ _

Number of MicroDuct tubes

- 1: 1 way
- 2: 2 ways
- 3: 3 ways
- 4: 4 ways
- 5: 5 ways
- 6: 6 ways
- 7: 7 ways
- 12: 12 ways
- 19: 19 ways

Tracing Wire and Rip Cords option

T. With tracing wire AWG20

R. With 2 rip cords

TR. With both tracing wire and rip cords

Over Sheath Color:

OR. Orange

GY. Grey

GN. Green

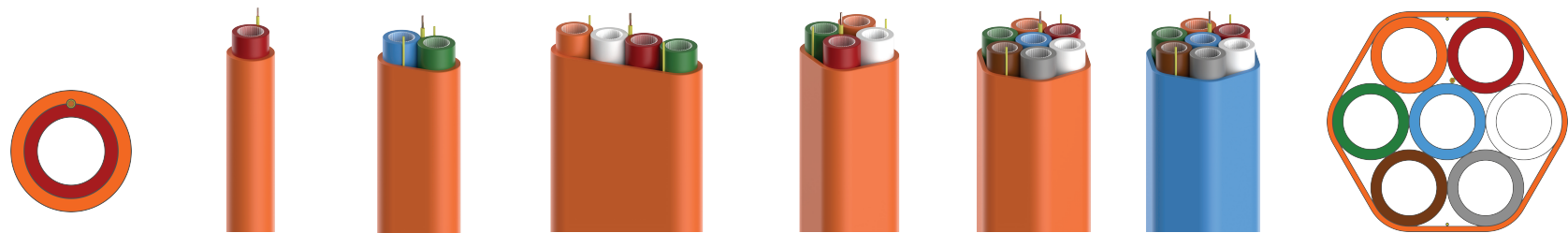
RD. Red

BL. Blue

Or any other customized color

MicroDuct OD/ID

- 0703: 7/3.5mm
- 8506: 8.5/6mm
- 1208: 12/8mm
- 1410: 14/10mm
- 1612: 16/12mm
- 2016: 20/16mm
- 2521: 25/21mm
- 3226: 32/26mm



MSC (MicroDuct Straight Coupler)

MSC - _ _ _ - _ _

MicroDuct OD

07: 7mm
85: 8.5mm
12: 12mm
14: 14mm
16: 16mm
20: 20mm
25: 25mm
32: 32mm

Color:

OR. Orange

GY. Grey

GN. Green

RD. Red

BL. Blue

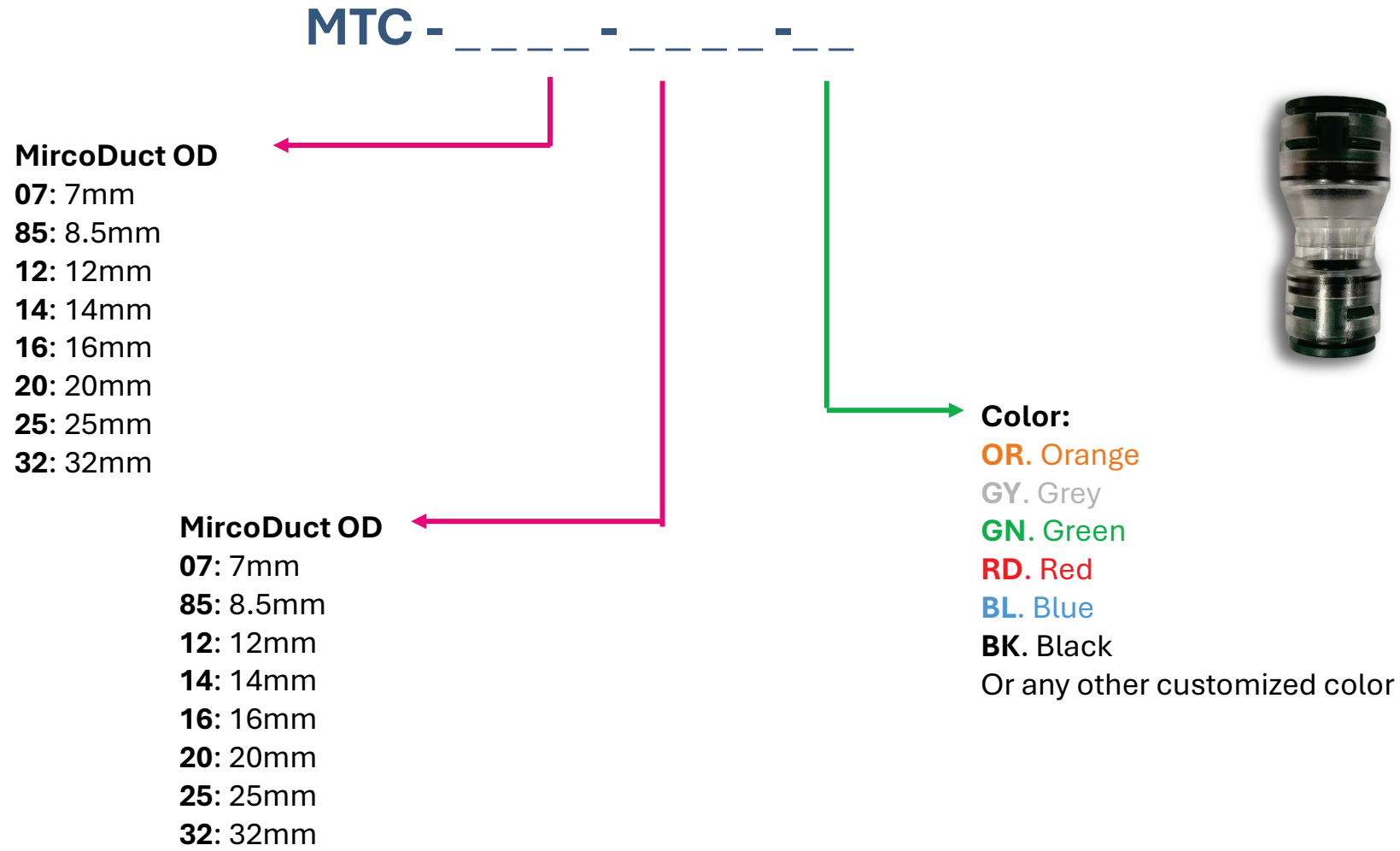
BK. Black

Or any other customized color



E.g. MSC-14-OR

MTC (MicroDuct Transition Coupler)



E.g. MTC-1410-0856-OR

MEC (MicroDuct End Cap)

MEC - _ _ _ _ - _ _ _

MicroDuct OD

07: 7mm
08: 8.5mm
12: 12mm
14: 14mm
16: 16mm
20: 20mm
25: 25mm
32: 32mm

Color:

OR. Orange
GY. Grey
GN. Green
RD. Red
BL. Blue
BK. Black

Or any other customized color



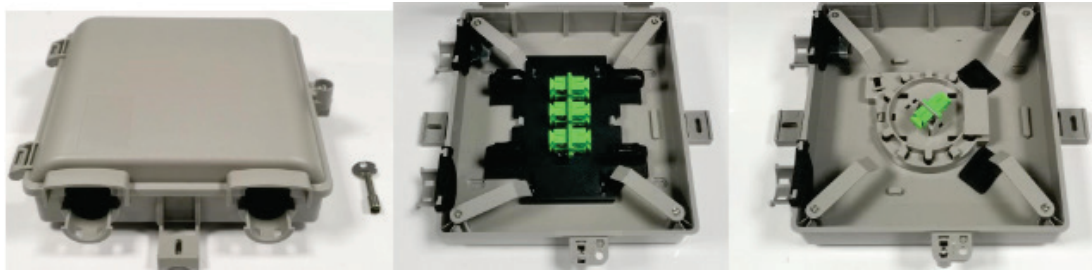
E.g. MEC-14-GR

13

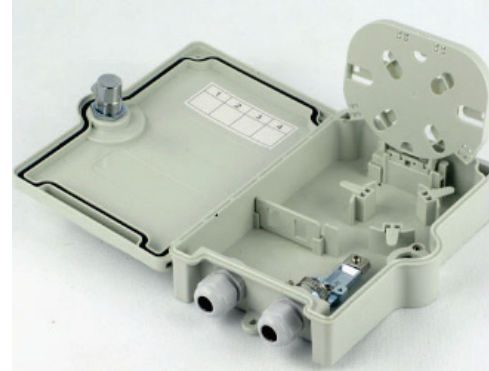
PART THIRTEEN

Network Interface Device House Box

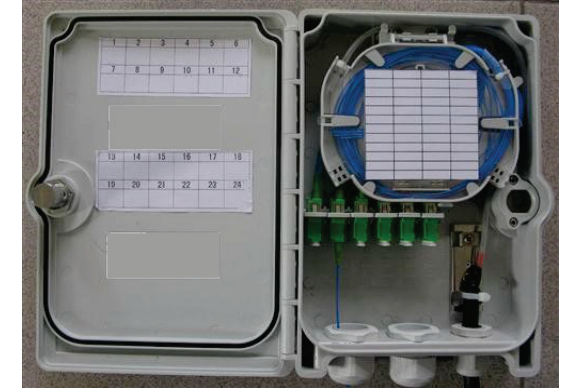
NID House Box Options Examples



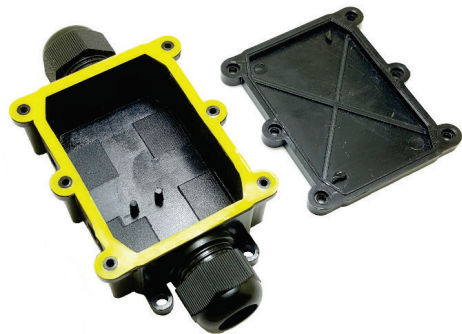
NID-240



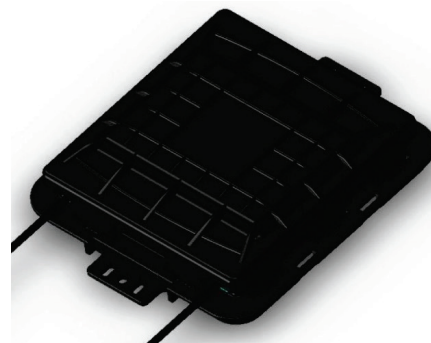
NID-520



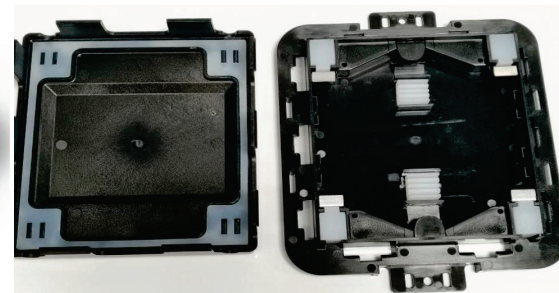
NID-530



NID-820



NID-840



NID-110A

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A blue-tinted background image showing three business professionals in a meeting. Two people are standing and shaking hands, while a third person stands nearby. In the foreground, a pair of glasses and some papers are visible on a table.

Thank You !