

Ordering Guide of the Fiber-Optic Flexibility Cabinet (FIST-CAB5)

This document provides assistance with the selection of street cabinets for use in FIST cable termination applications. It includes the following sections:

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1 Product description

The FIST Street Cabinet, FIST-CAB5, is an all-purpose metal outdoor cabinet designed to accommodate the FIST generic shelf family (19").

It offers dust-proof, environmental and mechanical protection for the fiber management functions of splicing, patching and passive component integration.

The inside can be configured in a flexible way to serve customer-specific needs.

A few examples :

- Splitter cabinet configuration connectorized
- Splitter cabinet configuration direct spliced
- Cross-connect cabinet
- Interconnect configuration
- Any combination of the above

FIST-CAB5 is designed for outdoor applications and needs to be placed on an in-ground root or concrete socle.





2 Ordering information - cabinet & accessories

2.1 Order quantity / lead time

Products and accessories are grouped in three classes.

<u>Class A</u> standard products, small MOQ <u>Class B</u> standard products, standard MOQ

Class C special products, higher MOQ, longer lead times, due to the lead time of the

specific components in those products

The class of a component or accessory provides additional information on:

MOQ Minimum Order Quantity
SPQ Standard Packaging Quantity

Table 1 Component classification overview

	В		
	MOQ	SPQ	
FIST-CAB5-01-0	3	3	
FIST-CAB5-01-6	3	3	
Accessories	See accessories list		

MOQ and SPQ are used to calculate the correct order quantity of the desired component and/or accessory:

Order quantity = $MOQ + n \times SPQ (n \ge 0)$

2.2 The cabinet

Standard cabinet kit content

- Outer Housing including 2 side doors
- Front/top door with swivel (no lock) and 3 point actuated locking system
- Mounting profiles (19"wide ETSI pitch)
- 1 blank cable inlet plate
- 1 cable inlet plate with 6 holes and PG21 blind plugs
- 1 cable attachment plate
- Base (300mm height) with front, rear and side covers
- Optional 600mm in-ground root for direct buried applications (depending on configuration)

MOQ (Minimum Ordering Quantity) = 3 pieces Order in multiples of 3.



01 Standard cabinet

0 : No in-ground root

6: 600mm deep in-ground root



2.3 The accessories

2.3.1 Cable Entry & Fixation

Name	Qty/Pk	Description
FIST-GS-FLEX-17-50-S5027	50 m	Flexible tubing (ID 17 mm)
FIST-CAB5-CIP6-01	1 pc	Cable inlet plate with 6 holes and 6 PG21 blind plugs
FIST-CAB5-OSK-LTS01	1 pc	Cable inlet plate with 1 oval hole, 1 oval port seal kit
		(heatshrink) and 2 PG21 blind plugs
FIST-CAB5-OSKG-LTS01	1 pc	Cable inlet plate with 1 oval hole, 1 oval port seal kit (gel
		sealing) and 2 PG21 blind plugs
FISTV-TW-NN-188	100 pc	TIE-WRAP 188 mm long (not re-openable)
FIST-GB-GLD21-01	10 pc	Cable seal PG21 to seal one cable with a diameter of 9-
		18mm
FIST-GB-GLD21-4X6MM	10 pc	Cable seal PG21 to seal up to 4 cables with a diameter of
		max. 6 mm.
FIST-GB-GLD21-4X7MM	10 pc	Cable seal PG21 to seal up to 4 cables with a diameter of
		max. 7 mm.
FIST-GB-GLD21-6X5MM	10 pc	Cable seal PG21 to seal up to 6 cables with a diameter of
		max. 5 mm.
FIST-GB-GLD21-8X4MM-10	10 pc	Cable seal PG21 to seal up to 8 cables with a diameter of
		max. 4 mm.
FIST-CAB5-CAP-01	1 pc	Cable attachment plate
FIST-GR2-UCT-08	8 pc	Cable strength member fixation

2.3.2 In-ground root

The cabinet needs to be placed on a socle (Constructed in concrete or bricks).

For direct buried applications, an in-ground root can be ordered with the cabinet.

Furthermore the in-ground root can be ordered as a separate item.

Name	Qty/Pk	Description
FIST-CAB5-IGR-600	1 pc	In-ground root for the street cabinet, 600 mm high
FIST-CAB5-IGR-300	1 pc	In-ground root extension, 300 mm high
FIST-CAB5-IGR-BOT	1 pc	Bottom plate for in-ground root
FIST-CAB5-IGR-SIDE	2 pc	Side plate for in-ground root
FIST-CAB5-IGR-FRONT	2 pc	Front/Rear plate for in-ground root
FIST-CAB5-IGR-CFIX	2 pc	Additional cable fixation bars

2.3.3 Fiber Management

Name	Qty/Pk	Description
FIST-CAB5-DRM-4	1 pc	Kit of 4 drums to mount on the drum plate to create a vertical pigtail management unit for interconnection or cross connection configuration
FISTV-E7187-6316	25 m	Velcro roll



2.3.4 Locks

Name	Qty/Pk	Description
FIST-CAB5-01-KEYXX	1 pc	Half cylinder lock with 2 keys XX : 0199 key number 00=standard key number

2.4 Tools

In addition to all the standard installation tools required to install FIST products, the following tools are needed for an easy installation of the FIST cabinet:

Name	Qty/Pk	Description
FACC-ALLEN-KEY-5-350	1 pc	Allen key, diameter 5 mm, length 350 mm for back- mounting of shelves in the cabinet and to mount the drums onto the drum plate
FACC-CAGE-NUT-TOOL	1 pc	Tool to install cage nuts



3 Product guide

3.1 Cabinet description

The FIST-CAB5 cabinet has been designed specifically for passive fiber optic applications.

The cabinet has an IP55 sealing rate. This allows designing a wide variety of connectorized and spliced optical configurations inside the cabinet.

The 'motorhood' design and side doors offer excellent accessibility to the fiber management shelves inside the cabinet. Making reconfigurations, adding cables or passive optical components becomes an easy task.

The hood can be opened in two positions (under two different angles) and creates a comfortable working area with limited weather protection

The 19" profiles inside the cabinet allow for maximum flexibility and future technology upgrades. Any architecture or cable construction can be supported.

Optional drums can be provided to further enhance the fiber management.

The cabinet comes standard with a 300mm high base to allow for easy entry, fixation, identification and sealing of the cables. A cable termination plate has been provided inside the cabinet to ensure the cable strain-relief that is required in outside plant applications.

A swivel with half cylinder lock and 3 point latch system prevents unauthorized access.

The cabinet has a powder coated finish (RAL7035)



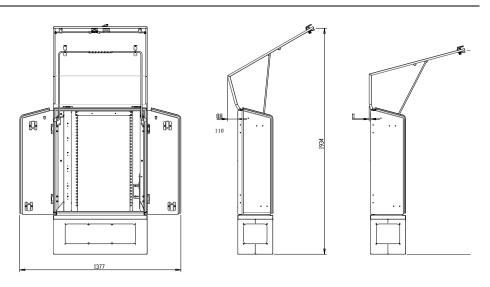


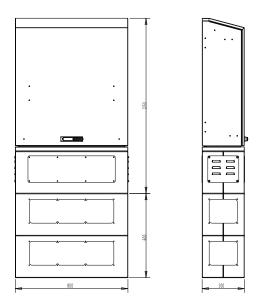
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3.2 Cabinet characteristics

Property	Part	Characteristic(s)
Dimensions	Overall (WxHxD) (including roof)	800x1250x300mm
	With in-ground root	800x1850x300mm
	Useful depth	280 mm
	Vertical ETSI mounting profiles (H)	30 ETSI HU useful
Weight	Empty cabinet (no in-ground root)	57 kg
	600 mm in-ground root	14 kg
Mounting styles	Width	19"
	Height	30 ETSI HU
Material		Zinc plated steel
Finish		Polyester powder coating
Construction		Single wall
Color		(RAL 7035)
Sealing		IP55
Locking mechanism		Swivel with half cylinder lock (EURO
		DIN) and 3-point-latch system







3.3 FIST-CAB5 accessories

3.3.1 Cable Entry & Fixation



Flextube

FIST-GS-FLEX-17-50-S5027

Flexible tubing to route and protect the loose tubes from the cable termination to the splicing

Roll of 50 m.

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Cable inlet plates

The FIST-CAB5 has a bottom cover with 2 cut-outs (1 on the left and 1 on the right side). Depending on the **type** and **quantity** of **cables** used, different cable inlet plates can be selected:

FIST-CAB5-CIP6-01

Cable inlet plate with 6 holes, 6 blind plugs (PG21)



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FIST-CAB5-OSK-LTS01

Cable inlet plate with:

1 oval hole and 1 oval port seal kit (heat shrink)

2 holes and 2 PG 21 blind plugs.



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FIST-CAB5-OSKG-LTS01

Cable inlet plate with:

1 oval hole and 1 oval port seal kit (Gel sealing)

2 holes and 2 PG21 blind plugs.



FISTV-TW-NN-188 (100 pcs)

TIE-WRAP 188 mm long (not re-openable)





FIST-GB-GLD21-01 (10 pcs)

Cable seal PG21 to seal one cable with a diameter of 9-18mm





FIST-GB-GLD-21-4X6MM (10 pcs)

Cable seal PG21 to seal up to 4 cables with a diameter of max. 6 mm.

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FIST-GB-GLD-21-4X7MM (10 pcs)

Cable seal PG21 to seal up to 4 cables with a diameter of max. 7 mm.



FIST-GB-GLD-21-6X5MM (10 pcs)

Cable seal PG21 to seal up to 6 cables with a diameter of max. 5 mm.



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FIST-GB-GLD-21-8X4MM-10 (10 pcs)

Cable seal PG21 to seal up to 8 cables with a diameter of max. 4 mm.



FIST-CAB5-CAP-01

Cable attachment plate



FIST-GR2-UCT-08 (8 pcs)

Cable strength member fixation.

Can be mounted on the cable attachment plate.





FIST-CAB5-IGR-600

Metal in-ground root, upon which the cabinet can be placed.

This 600 mm high in-ground root is typically used when no concrete base is available.

A U-shaped profile is available for cable fixation with tie-wraps.



FIST-CAB5-IGR-300

Metal in-ground root extension, upon which the cabinet can be placed.

This 300 mm high in-ground root can be used in combination with the standard 600mm high inground root to create a total underground depth of 900mm..



FIST-CAB5-IGR-BOT

Metal plate that can be mounted at the bottom of the in-ground root to improve stability



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FIST-CAB5-IGR-SIDE

Set of two metal plates that can be mounted at the side of the cabinet to improve stability



FIST-CAB5-IGR-FRONT

Set of two metal plates that can be mounted at the front of the cabinet to improve stability



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FIST-CAB5-IGR-CFIX

Additional cable bars to fix cables/tubes in the inground root

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Pigtail management drums FIST-CAB5-DRM-4

This kit of 4 drums with mounting screws, allows to create the vertical pigtail management function inside the cabinet for interconnect configuration or cross connection configuration.



FISTV-E7187-6316

Velcro to segment or secure trays, pigtails, ... Supplied on a roll 25m long (width 25 mm), to be cut on length as required.



3.3.4 Fiber Management



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Locks

Half cylinder lock with 2 keys.

3.3.5 Tools

In addition to all the standard installation tools required to install FIST products, the following tools are needed for the installation of the FIST cabinet:



FACC-ALLEN-KEY-5-350

Allen key, diameter 5 mm, length 350 mm for back-mounting of shelves in the cabinet and to mount the drums onto the drum plate.



FACC-CAGE-NUT-TOOL

Tool to install cage nuts in the rack.



4 Configuring the inside

4.1 Introduction

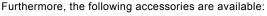
Depending on the configuration, the following Tyco products can be used inside the cabinets:

FIST-GSS2: Generic Splicing Shelf. FIST-GPS2: generic Patching Shelf. OCSH: Optical Component Shelf.

OCM5: splitter module.

FIST-FSASA2: field installable splitter module.

For detailed ordering information, refer to ordering guides and datasheets of these products.





Pigtail parking for unused splitter ports in case of connectorized splitter configurations.

Maximum capacity: 32 unused LC connectors.

Parking placed on a sliding rail for easy accessibility. The dust caps can stay on the connectors until the connector is being used.



FIST-CAB5-PARK-LC-64

Pigtail parking for unused splitter ports in case of connectorized splitter configurations.

Maximum capacity: 64 unused LC connectors.

Parking placed on a sliding rail for easy accessibility. The dust caps can stay on the connectors until the connector is being used.



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FIST-CAB5-STOR-01

1RU high shelf to store unused cable tubes. Tubes can be routed easily to a specific shelf in case service is required at a later stage.



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FIST-CAB5-STOR-02

2RU high shelf to store unused cable tubes. Tubes can be routed easily to a specific shelf in case service is required at a later stage. The shelf allows to store unused pigtails on top of the cover

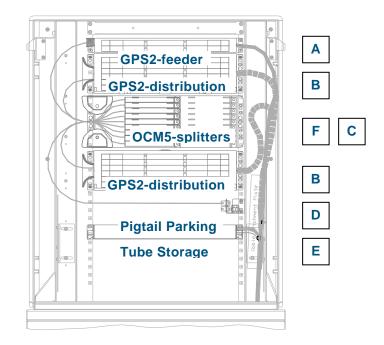


FIST-CAB5-STOR-DRUM

Optional drum that can be mounted on a 19" to allow for a cleaner routing towards the pigtail parking.

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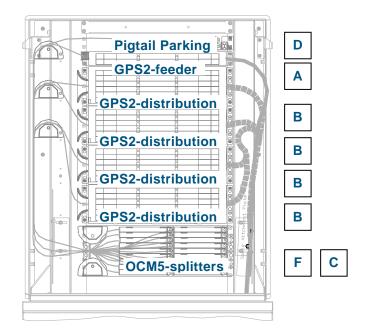
4.2 Configuration 1: 288 F LC splitter cabinet



	Qty	Product	Description
Α	1	FIST-GPS2-K-MAL2-2	44mm high patch/splice shelf for feeder cable
			Include 48 LC/APC pigtails and adaptors
В	2	FIST-GPS2-I-MAL2-6	125mm high patch/splice shelf for distribution cable
			Includes 144 LC/APC pigtails and adaptors
С	1	OCSH-L-S	Shelf to store up to 18 OCM5 modules
D	1	FIST-CAB5-PARK-LC-64	Parking for unused splitter ports
Е	1	FIST-CAB5-STOR-01	Shelf to store unused loose tubes
F	TBD	OCM5-SPXXXL2-12DASIA	OCM5 connectorized splitter module.
			Pigtail length: 1.2m

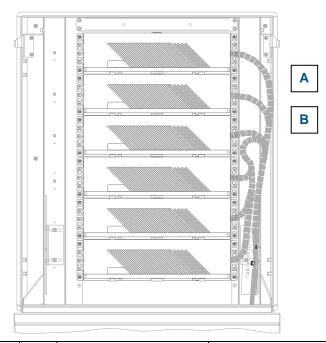


4.3 Configuration 2: 576 F LC splitter cabinet



	Qty	Product	Description
Α	1	FIST-GPS2-K-MAL2-2	44mm high patch/splice shelf for feeder cable
			Include 48 LC/APC pigtails and adaptors
В	4	FIST-GPS2-I-MAL2-6	125mm high patch/splice shelf for distribution cable
			Includes 144 LC/APC pigtails and adaptors
С	1	OCSH-L-S	Shelf to store up to 18 OCM5 modules
D	1	FIST-CAB5-PARK-LC-64	Parking for unused splitter ports
F	TBD	OCM5-SPXXXL2-18DASIA	OCM5 connectorized splitter module
			Pigtail length : 1.8m
G	1	FIST-CAB5-DRM-4	Set of 4 drums

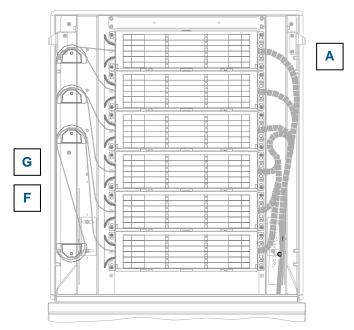
4.4 Configuration 3: 768F spliced splitter cabinet



	Qty	Product	Description
Α	5	FIST-GSS2-IA-SPLT	125mm high splice shelf
			Up to 128 customers - SC trays included
В	TBD	FIST-FSASA2-132-1P-R	Field-installable splitter 1x32 planar



4.5 Configuration 4: 432x432 LC cross-connect cabinet



	Qty	Product	Description
Α	6	FIST-GPS2-I-MAL2-6	125mm high patch/splice shelf for distribution cable
			Includes 144 LC/APC pigtails and adaptors
F	TBD	OCJ-L2-34DASIA-L2	Patchcord LC/APC to LC/APC.
			3.4m long
G	1	FIST-CAB5-DRM-4	Set of 4 drums

Tyco Electronics Raychem BVBA

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