

OAsys® Equipment meets BT
OTIAN® Equipment Specifications

**OAsys® INTERNAL PLANT
GENERIC RACK 3A**
Part Number: XPFSC00020 BT Item Code: 076038

Description

OPTICAL CABLE TERMINATION & FLEXIBILITY RACK

Supplied in 'flat pack' format to ease handling.

Easily assembled near point of installation by one person, for subsequent positioning in suite.

M12 fixing points provided in Top Frame (Fixings NOT supplied).

Provision for bolting to suitable floor and/or wall surfaces.

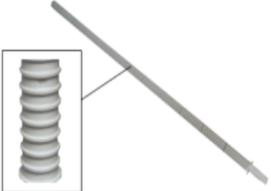
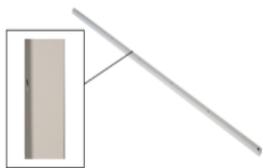
Provision for bolting to adjacent Generic Racks.

REQUIRED SPACE ENVELOPE: 900 mm x 300 mm x 2200 mm (W x D x H)

Tools & Additional Items Required

Tools:	Additional Items:	Prysmian Part No.	BT Item Code
19 mm A/F Spanner	Rack Splicing Module	XPFSC00001	076041
10 mm A/F Spanner	Restraint Kit 2A (Pack of 10)	XAPSC00417	075869
Pozi-Drive Screwdrivers 2 & 3	Splice Protectors (Pack of 50 - op)	XPESC00053	075110
7 mm Dia. Masonry Drill	MJ301 Support Shelf (optional)	XAPSC00576	075100
7 mm Dia. Drill			
Fixings:	Top Frame to suite ironwork fixing: M12 x 35mm hexagonal bolts - 2 required		

Component Parts (pictures not to scale)

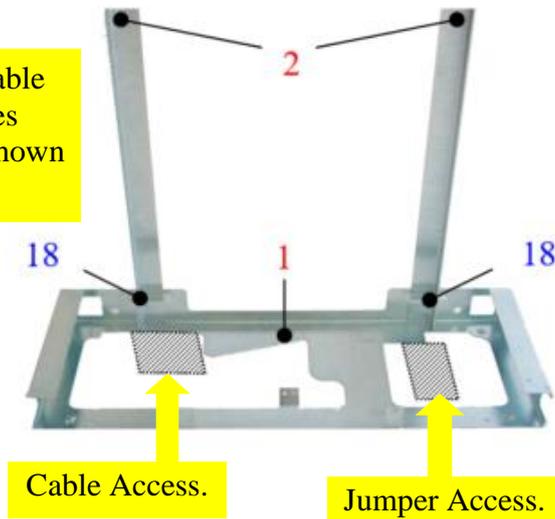
<p>1 Base Frame Qty 1</p> 	<p>2 Mounting Rail Qty 2</p> 	<p>3 Rear Bend Manager Qty 1</p> 	<p>4 Under Floor Bend Manager Qty 1</p> 
<p>5 Bend Manager Plate Qty 1</p> 	<p>6 Mandrel Qty 1</p> 	<p>7 Module Support Qty 1</p> 	<p>8 Bend Manager Guide Qty 1</p> 
<p>9 Top Frame Qty 1</p> 	<p>10 Rear Panel Qty 2</p> 	<p>11 Side Panel Qty 2</p> 	<p>12 Cable Bracket Qty 4</p> 
<p>13 Door Qty 2</p> 	<p>14 Base Frame Cover (Complete with push fit fasteners) Qty 1</p> 	<p>15 Support Pole Qty 1</p> 	<p>16 Splicing Shelf Support Pole (Complete with 2 off fixing screws) Qty 1</p> 
<p>17 Push Fit Rivets Qty 20</p>	<p>18 Screw M6 x 12mm Qty 5</p>	<p>19 Screw M4 x 8mm Qty 20</p>	<p>20 Screw M6 x 20mm Qty 2</p>
<p>21 Screw M6 x 30mm Qty 2</p>	<p>22 Nut M6 Flanged Qty 4</p>	<p>23 Screw No.12 x 25mm Qty 3</p>	<p>24 Raw plug No. 12 Qty 3</p>

Prysmian
Group
INSTALLATION INSTRUCTION

GENERIC RACK ASSEMBLY

Step 1

Note: For underfloor cable feed, first cut floor holes using the dimensions shown in step 9.



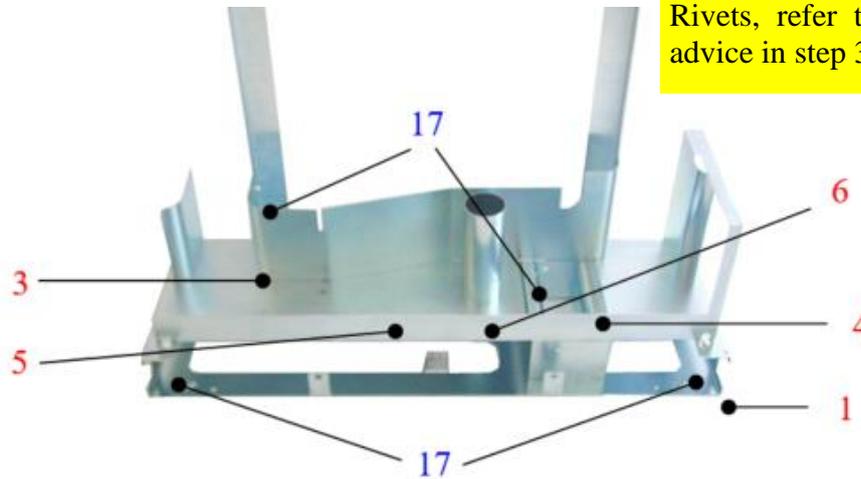
Identify a safe working position away from other operators. Where possible the Generic Rack 3A (GR3A) build should be started such that the rear of the rack is approximately ½ m away from a vertical surface.

- Position the Base Frame (1) on the floor.
- Insert the two Mounting Rails (2) into the slots in the Base Frame (Note: mounting rails can be inserted either way up).
- Secure the Rails to the Base using two M6 screws (18). Fit the screws from the front and fully tighten using a No.3 Pozidrive screwdriver.

NOTE: The screws will feel tight during installation but must be tightened until fully fitted.

GENERIC RACK ASSEMBLY

Step 2

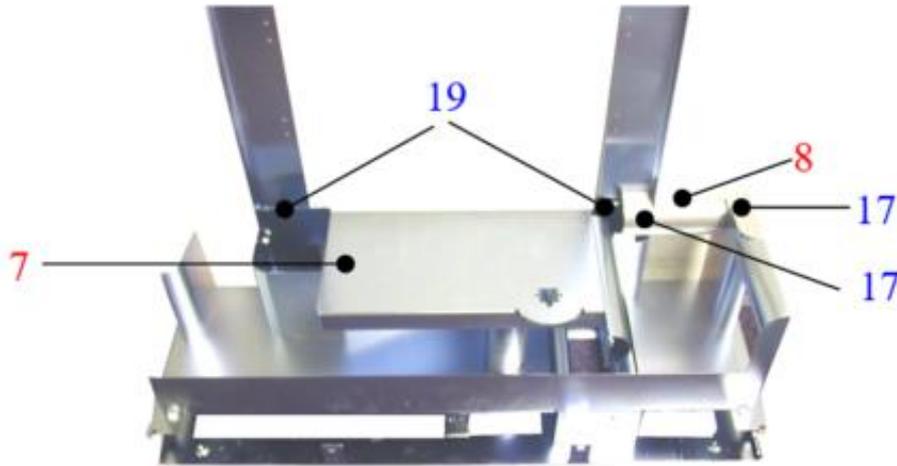


For easy fitting of Push Fit Rivets, refer to installation advice in step 3.

- Position the Rear Bend Manager (3) onto the Base so it rests against the outside edges of both Mounting Rails. Secure to the left-hand Mounting Rail using a Push Fit Rivet (17).
- Fit the Under-Floor Bend Manager (4) into the Base slots, and against the Rear Bend Manager (fit the Bend Manager in the orientation shown in the component parts picture). Secure with a Push Fit Rivet (17).
- Locate the Bend Manager Plate (5) onto the Base and slot the tabs into the Rear Bend Manager. Secure to the front of the Base using two Push Fit Rivets (17).
- Locate the Mandrel (6) into the Bend Manager Plate. The Mandrel can be fitted either way up.

GENERIC RACK ASSEMBLY

Step 3



For easy fitting of Push Fit Rivets, refer to installation advice in step 3.

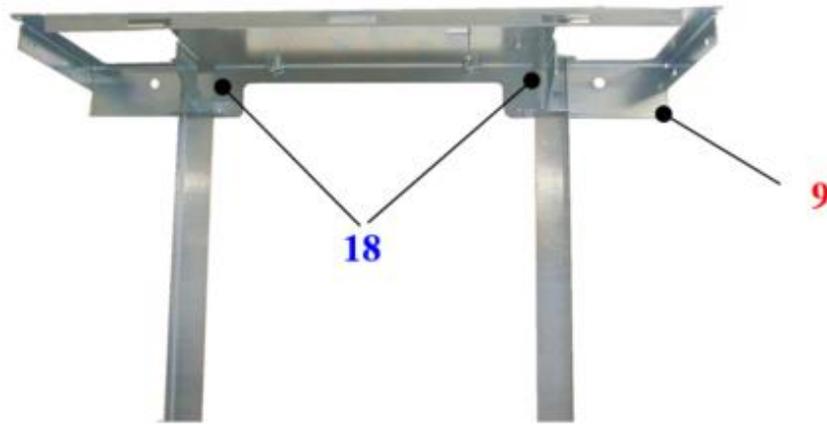
- Rest the Module Support (7) onto the top edge of the Rear Bend Manager and Mandrel. Secure to the Mounting Rails using two M4 screws (19). Move mounting rails sideways to align holes if necessary.
- Position the Bend Manager Guide (8) between the Rear Bend manager, Module Support and Bend Manager Plate.
- Secure the Bend Manager Guide to the Bend Manager Plate using two Push Fit Rivets (17).

INSTALLATION ADVICE

When fitting Push Fit Rivets, separate the 2 parts before fitting. Assemble the rivet body into the parts to be secured, and lock into position by inserting the button head rivet into the body.

GENERIC RACK ASSEMBLY

Step 4



The following operation may require the user to work approx. 2m from the floor. Ensure that safe working practices are followed. Ensure that no persons are standing behind the rack during the following operations. Secure the rack to prevent it from falling over if necessary.

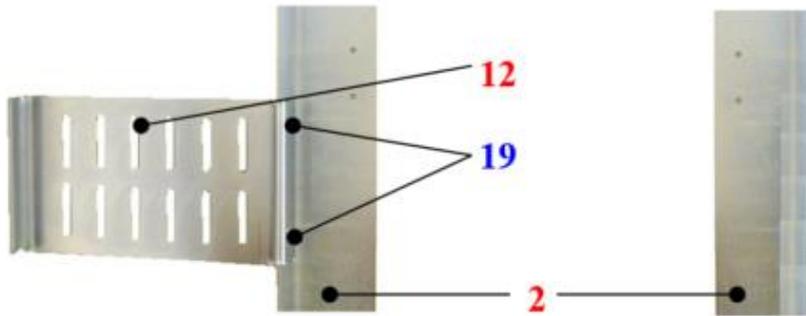
- Locate the Top Frame (9) over the Mounting Rails and secure using two M6 screws (18). Fit the screws from the front and fully tighten using a No.3 Pozidrive screwdriver.

NOTE: The screws will feel tight during installation but must be tightened until fully fitted.

GENERIC RACK ASSEMBLY

Step 5

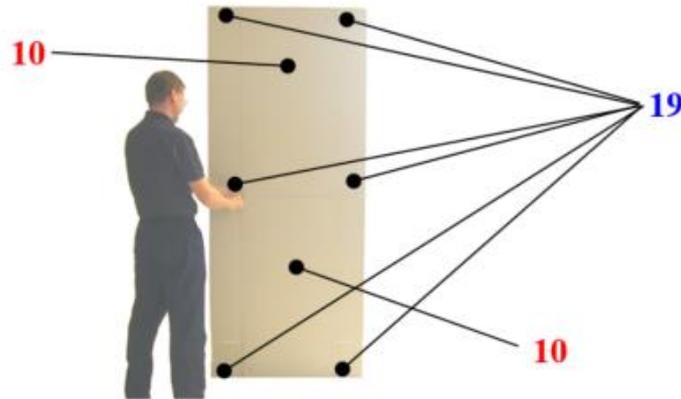
Fit Cable Brackets to left hand Mounting Rail.



- Fit Cable Brackets (12) to the left-hand Mounting Rail using the pre-tapped holes with two M4 screws (19). The recommended fixing positions (working from the base of the rack) are:
 - For cable entry through the base: - positions 1, 3 & 5 (Leaves 1 spare bracket).
 - For cable entry through the top: - positions 2, 4 & 6. (Leaves 1 spare bracket).
 - Dual entry: - positions 1, 3, 5 & 6. (Uses all 4 brackets).

GENERIC RACK ASSEMBLY

Step 6



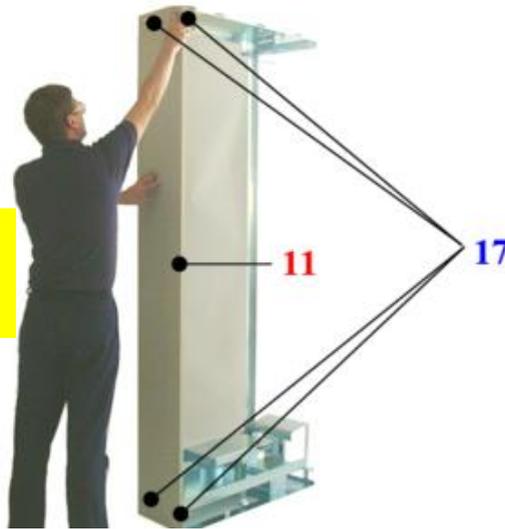
Working behind the rack:

- Insert two M4 screws (19) into the threaded holes in the Top Frame. **Do not tighten.**
- Select the Rear Panel (10) containing the installation instructions. With the keyholes at the top and the installation instructions facing the inside of the rack, hang the panel onto the two M4 screws (19) previously inserted into the Top Frame.
- Insert two M4 screws (19) through the fitted Rear Panel into the threaded holes in the Rear Mounting Rails. **Do not tighten.**
- Select the remaining Rear Panel (10), and with the keyholes at the top, locate the panel over the two M4 screws (19) in the upper panel.
- This panel will overlap with the first panel.
- Secure with a further two M4 screws (19) through lower panel into the Base Frame.
- Fully tighten all **six** screws.

GENERIC RACK ASSEMBLY

Step 7

For easy fitting of Push Fit Rivets, refer to installation advice in step 3.



Ensure that the rack is secure from falling.

- Select the left-hand Side Panel (11) denoted by the L label.
- Hang the left-hand Side Panel onto the plastic bushes located on the Base and the Top Frame.
- Secure the Panel to the Base and the Top Frames using two Push Fit Rivets (17) in each.
- Repeat this procedure for the right-hand side panel (11).

INSTALLATION ADVICE

Side/Rear Panel Knockouts

The Rear and Side Panels are provided with knockouts to allow access to the cable raceway and for the installation of electrical accessories and should only be removed as required.

Protective gloves and safety glasses should be worn for the following operation.



To remove the knockout, gently strike the centre of the knockout panel using a hammer.

GENERIC RACK ASSEMBLY

Step 8



It is recommended that two persons carry out the following operation.

- Manoeuvre the assembled GR3A into its final resting position.
- Adjust the position of the rack to line up with the overhead gantry mountings (if applicable) and the rear of the GR3A to the suite centre line or a wall. Alignment with any floor cut-outs must be carried out at this stage.
- Adjust the level of the rack as required using the four hexagonal bolts located in the Base.

Overhead gantry fixing:

- Secure the rack to the overhead gantry mountings using two M12 bolts (Not supplied).

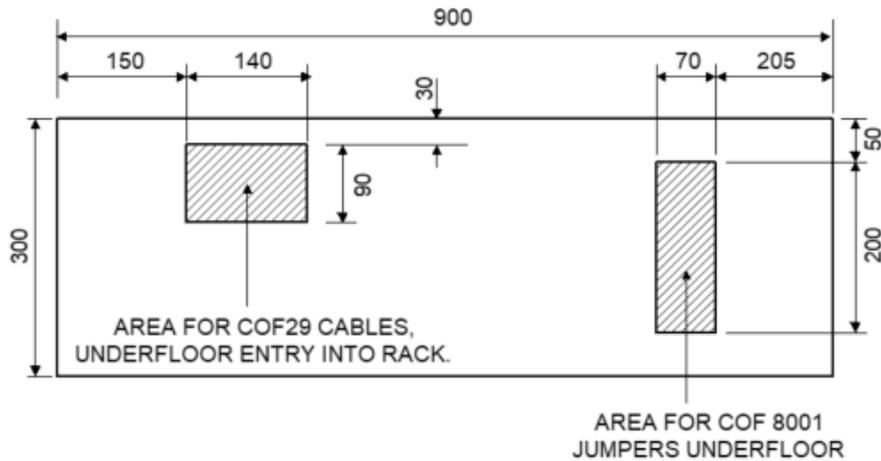
For fixing two Generic Racks side by side or back to back:

- For side fixing, secure at the top using 2 x M6 screws (20) and 2 x M6 nuts (22) through the plastic bushes.
- For rear fixing, secure at the top using 2 x M6 screws (21) and 2 x M6 nuts (22) through the plastic bushes.

GENERIC RACK ASSEMBLY

Step 9

UNDERFLOOR CUTOUT POSITIONING FOR A GENERIC RACK 3A



The following operation requires the user to drill the floor and/or wall. Check that it is permissible for these areas to be drilled.

Underfloor Cable Feed

- If underfloor cable feed is required cut the holes in the floor using the dimensions shown above.

Floor fixing

- Using a drill bit of 7mm-diameter max. drill the floor through the two 8mm diameter holes in the Base Frame **(1)**.
- Secure with the fixings supplied **(23 & 24)**.

Wall fixing

- Using a drill bit 7mm-diameter max. drill the wall in two places through the holes in the spacers in the Top Frame **(9)**. Fix to the floor by following the instructions above.
- Secure with suitable fixings.

GENERIC RACK ASSEMBLY

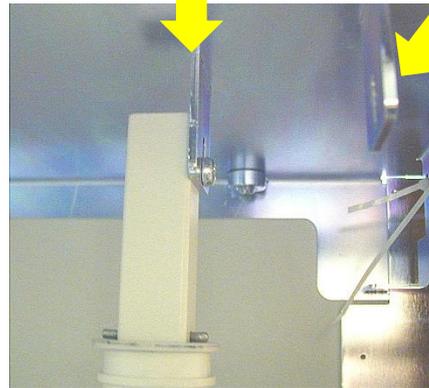
Step 10



Align the top of the pole with the left-hand side of the left tab in the Top Frame and secure with an M6 screw.

Left hand tab.

Right hand tab.



- Identify the base and orientation of the Support Pole (15) by standing it upright with the pin at the base and pointing away from the rack.
- Locate the Support Pole into the profile in the Module Support (7).
- Align the top of the pole with the left-hand side of the left tab in the Top Frame (9).
- Secure the Support Pole to the Top Frame with one M6 screw (18).

GENERIC RACK ASSEMBLY

Step 11

1. Locate top hinge pin into hole in the Top Frame and push up into place.

13 —————

2. Align the lower hinge with the hole in the Base Frame and drop door into place.



HINT

Hold the door in the folded position during handling.

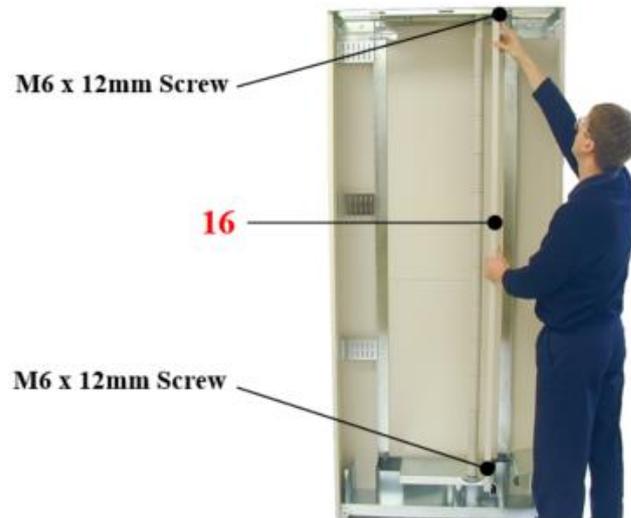


Fit Base Cover

- Select the Left-Hand Door **(13)** (with the Record Sheet).
- Fit the door by locating the hinge pin into the hole in the Top Frame **(9)**.
- Align the bottom hinge pin over the hole in the Base Frame **(1)**, and lower into place ensuring the pin is adequately located.
- Repeat for the Right-Hand Door.
- Fit the Base Cover **(14)** to the front of the Base Frame and secure using the two push fit fasteners. See picture in step 12.
- Check the alignment and correct operation of both doors.

GENERIC RACK ASSEMBLY

Step 12



Securing the Splicing Shelf Support Pole

- Stand the Shelf Support Pole (16) upright with the chamfered end at the bottom.
- Align the top of the pole with the left-hand side of the right-hand tab in the Top Frame (9) and secure using an M6 screw (supplied with the pole). Hand tightens only.
- Align the base of the pole with the front of the Module Support (7) and secure with a second M6 screw fitted through the hole in the chamfer section into the Module Support. Fully tighten both screws.