

Optical Consolidation Rack (OCR)

Prysmian Part Number: XCRSC00040



The Optical Consolidation Rack (OCR) is designed for use in the exchange for the splicing of network fibres to pre-connectorised cables, for direct connection to the active equipment. Its main application is for FTTH PON networks where churn is no longer required due to multiple customers being on the same fibre, the OCR rack offers a cost competitive splice only solution, that removes the need for single fibre jumper cables, which cause congestion, and issues with over-length storage in conventional ODF's.

The OCR is supplied in a flat pack format and can be built by one person. The rack can accommodate up to eight OCR sub-racks, which each contain twelve pull out modules, with six splice trays. The total capacity of the rack is 1152 fibres on a dual fibre per tray basis. The rack contains a unique fibre storage system so that all network cables can be installed and stored on day one, without the need for installing any sub-racks. The rack is pre-tubed such that when a sub-rack is installed and connected to the rack via a multi-way tube connector block, the previously stored fibres can simply be routed into the pre-installed tubes directly to the required splice tray.

Features and Benefits

- Eliminates the need for single fibre jumper cables, removing the issues of over-length storage and congestion.
- Supplied in 'flat pack' format to minimise transport costs and ease handling.
- The OCR accommodates up to 8 OCR sub-racks (see next page).
- Each OCR sub-rack has a capacity of 144 fibres, managed on a single circuit basis, providing a total capacity within the rack of 1152 fibres.
- The rack is pre-tubed from the cable breakout organiser to the sub-rack positions. A sub-rack is simply located in place, connected to the tube connection panel and fibres can be routed directly to the sub-rack.
- Cable entry to the rack is from overhead. All cables can be installed on day one without the need for any sub-racks installed, as cable fibres are broken out and stored in the Cable Breakout Organiser for later use.
- Pre-connectorised cables exit the rack from the top right hand side. The cables are routed and stored in segregated Cable Guides.
- Reels are used to store spare fibres of pre-connectorised cables for later use.
- Rack can be secured to the floor through four fixing holes (four levelling bolts are also provided). Two M12 fixing points are provided in the top face for securing to suitable suite ironwork.
- Supplied with an integral high level storage shelf.

Kit Contents

- Skeleton rack.
- Cable Breakout Organiser.
- Pre-Connectorised Cable Guides.
- 1 pair of doors.
- 1 rear panel.
- 1 pair of side panels.

Additional Items Required

- OCR Sub-Racks.
- Splice Protectors

Technical Data

- Spliced fibre capacity: 576 fibres on a single fibre basis
1152 fibres on a single circuit basis
- Cable capacity: 36
- Required space envelope (mm): (w) 900 x (d) 300 x (h) 2200
- Operating temperature: -20°C to + 50°C (5 to 95% RH)
- Materials:-
 - Internal Metalwork: Mild Steel
 - External Metalwork: Mild Steel
 - Plastics: High Impact Polystyrene (Fire Retardant)
- Finish:-
 - Internal Metalwork: Zinc passivate (Clear)
 - External Metalwork: Painted Light Grey (RAL 7035)
 - Plastic: Light Grey (RAL 7035)
- Testing:-
 - Optical: Tested at 1310nm, 1550nm and 1625nm
 - Dry heat: BS EN 60068-2-2 Test Bb
 - Damp heat: IEC 68-2-3
 - Change of temperature: IEC 68-2-14
 - Vibration: IEC 68-2-6
 - Shock: IEC 68-2-27

Logistics

- Packing Dimensions (mm): (w) 2280 x (d) 650 x (h) 480
- Packed Weight (kg): 130.00
- Net weight (kg): 110.00

Additional Items

OCR Sub-Rack

The OCR sub-rack is used in the OCR Rack to facilitate the splicing of fibres. The OCR sub-rack simply slots into the rack and is connected to the pre-installed tubes in the rack via a multi way connector block. Each OCR sub-rack consists of 12 'pull out' Splice Modules, with each Splice Module housing 6 Splice Trays. The splicing capacity of the sub-rack is 72 fibres on a single fibre per tray basis or 144 fibres on a dual fibre per tray basis. Output multi fibre pre-connectorised cables are connected to the side of the sub-rack using tube connectors (supplied separately. See below), where the fibres can be routed directly onto the splice modules. Spare fibre storage reels are supplied to store unused output cable fibres for later use.



Prysmian Part No. – XCRSC00041

5mm Straight Connectors

5mm Straight Connectors are used to terminate the output Hydra cables onto the OCR sub-rack.



Prysmian Part No. – XBFSC00075 (pack of 10)

Splice Protectors

Splice protectors are used to protect the fibre splice. They are 2.2mm in diameter and 45mm in length.



Prysmian Part No. - XPESC00053 (pack of 50)
- XKTSC00050 (pack of 12)

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