Codecom high density splice Product Guide

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Codecom High Density Splice (CHDS)

Codecom have designed a new high density splicing solution to enable splicing of high density cables within our slim line 300 millimetre or 11.9 inch rack. Our focus has been to create solutions which enable 3,456 fibres to be spliced into this slim line rack. The design enables easy install, density within the rack, easy long term operation, low risk as we have no moving parts, and the ability to scale and add cables as needed.

1. The Rack

The Codecom slim line frame is 300 millimetres or 11.9 inches deep. We have different height and width options. Each option has vertical cable management for routing of fibers and this rack is also lockable.

Very simple Product to install. Simply take out of the package (wooden box) then stand into place. Make sure to mount into place by using threaded rod or bolt to the ground. The bolts are included with the rack.

2. Breakout Module

This slim line breakout module allows the 1728 fibre to break down into 12 tubes of 144 fibre. The module is mounted on the side cable management section. Each tube is then routed into the allocated splice tray.

3. Splice Enclosure

This unique splice enclosure accepts 12 wide splice tray. Each tray is individually secured so you have the option of adding 144 fiber at a time. This tray does 12 by 12 fibre ribbons splices, and has been designed for flexibility of routing, and to have the space for easy and fast install. The trays are then secured into the slot and secured with clips. The front door is also lockable for extra security.

4. Pre-Terminated Panel

This design was focused around making splicing easy and separating the incoming and outgoing cables. These panels have been designed with two options. 144 fibre which is a two Ru version and this has one by 144 tube out the back, and the 288 fiber three RU version, which has two by 144 fibre tubes out the back. Each panel has been designed for easy installation. This panel comes with pre-terminated 144 fibre tubes coming out of the back, and each tube has 12 by 12 fibre ribbon strands. These tubes are run down the back section of the Codecom ODF frame and into each splice tray.

The ability to install this panel with ease is essential. You can modularly grow the solution with the exact fibre count cable you would like to install. The panel has been designed with incorporated cable management, which enable easy management of the fibre and the ability to add and remove the jumpers with ease.

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4RU Ribbon Splice Panel

Codecom have developed a High-Density Solution which has been designed for a flexible approach to high fibre count fibre requirements.

The Codecom High-Density 4RU Splicing Enclosure has been designed for Mass Fusion Splicing. This slim line design allows this to fit in shallow depth rack of 300mm. This front access design allows for easy install and efficient space utilisation. It features 12 x individual sliding trays with 12 mass fusion splices. The panel is designed to splice up to 1728FO (ribbon) and 864F (standard).

Features & Applications

- ✓ Standard 19" size, can be rack-mounted
- ✓ Available in standard SM and MM options
- ✓ RoHS, Reach compliant
- ✓ Compliant with IEC, TIA/EIA standards Datacentre & Enterprise network
- ✓ Indoor application
- ✓ Telecommunication central office

General Specifications

Opening Type	Sliding Trays
Dimension (in mm)	488.4 x 260.2 x 176
Weight	8kg
Material	Metal cold rolled with black powder coating
Height in RU	4RU
Capacity	12 Sliding Trays
Splice Capacity per Tray	12 Positions Ribbon Splice Protectors (up to 144FO)
Max Splice Capacity	1728FO (144FO per 12 trays)
Access Type	Front access
Cable Entry Direction	Sides

Ordering Information

Part Number	Product Description
CC-4URIBSPL	4U Splice Enclosure (up to 1728 Ribbon Splice) 12 Sliding-out trays

Technical Drawing
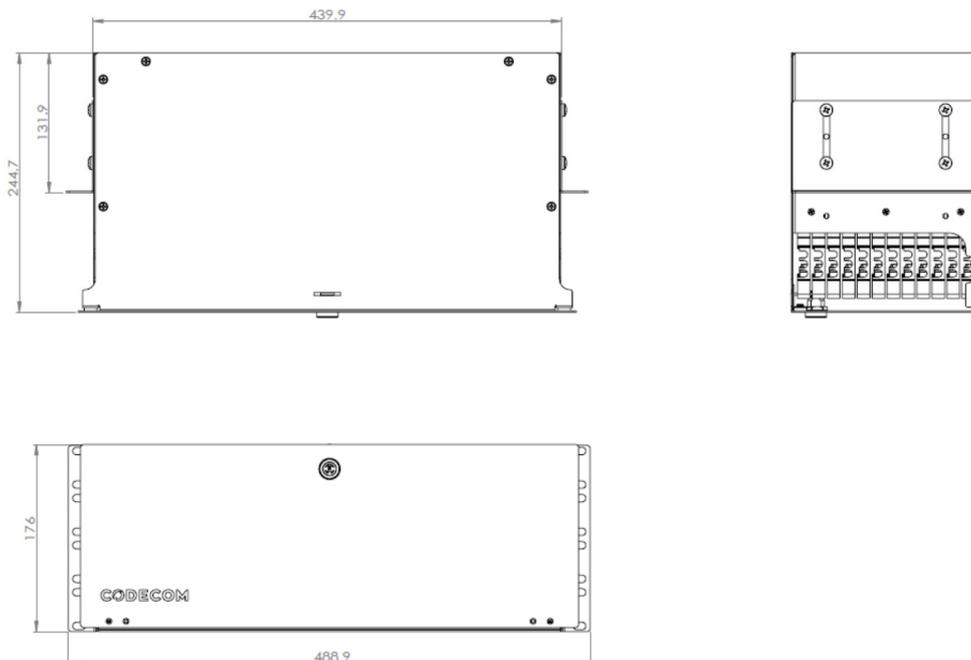
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Preterm HD PANEL 3RU 288
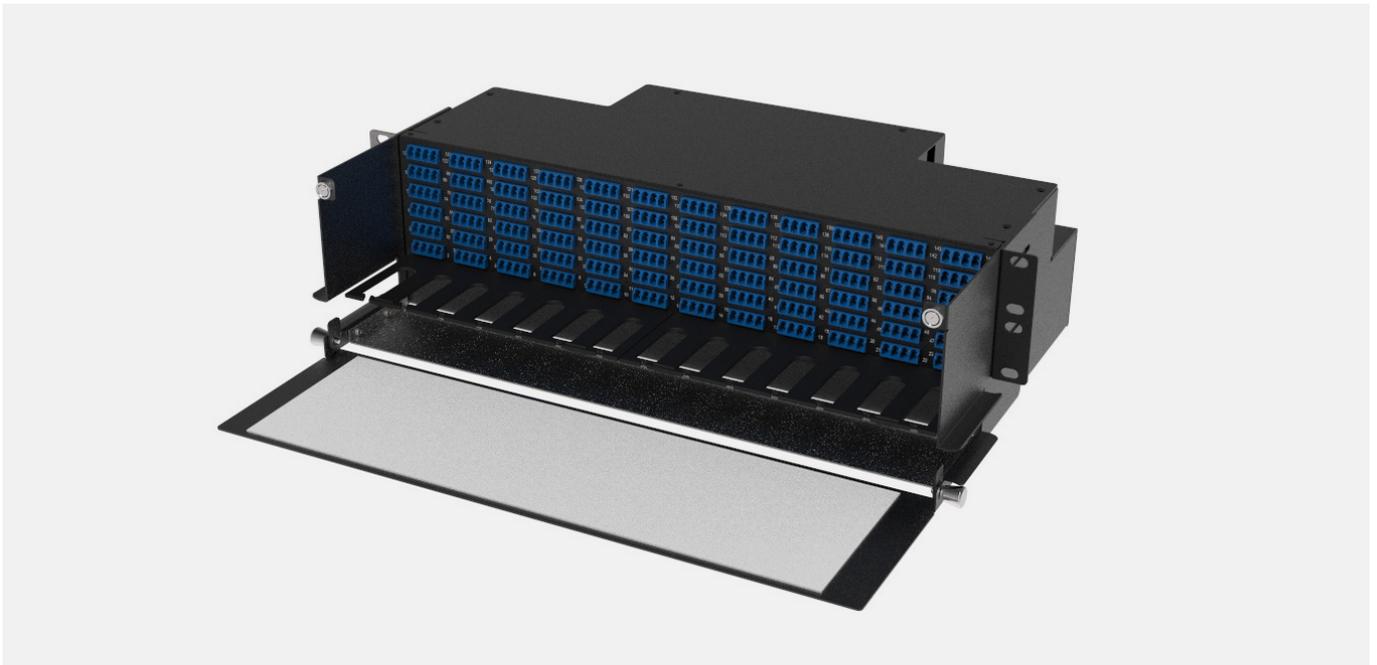
Codecom have developed a High-Density Solution which has been designed for a flexible approach to high fibre count fibre requirements.

This pre-terminated 3RU panel accepts 288F (144 port) LC connections. This panel has 2 x 144F pre terminated tails which is to be run to the High Density 4RU splice enclosure. This panel features standard fibre and ribbon fibre options.

Features & Applications

- ✓ Standard 19" size, can be rack-mounted
- ✓ Available in standard SM and MM options
- ✓ RoHS, Reach compliant
- ✓ Compliant with IEC, TIA/EIA standards Datacentre & Enterprise network
- ✓ Indoor application
- ✓ Telecommunication central office

Specifications

Parameters	Units	SM LC/SC	MM LC/SC
Avg/Max IL – Standard	dB	< 0.20/0.30	< 0.18/0.30
Return loss (PC/APC)	dB	> 60/65	NA
Avg/Max IL– Premium	dB	< 0.12/0.15	< 0.12/0.15
Return loss (PC/APC)	dB	> 60	NA

Design Hardware

Opening Type	Fixed
Dimension (in MM)	490×281.5×132mm
Weight	4.2Kg
Material	Metal cold rolled with black powder coating
Capacity	288F LC and 144F SC
Access Type	Front access
Front Cable Management	Removable hinged door with integrated cable manager
Cable Entry Direction	Rear
Adapter Type	LC Quad Adapter Shuttered
Port Number	144 Port LC and 72 Port SC

Ordering Information

Part Number	Product Description
CC-3RU288LCPRETERM	3RU Pre-terminated Panel 288FO LC

Technical Drawing

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Preterm HD PANEL 2RU 144
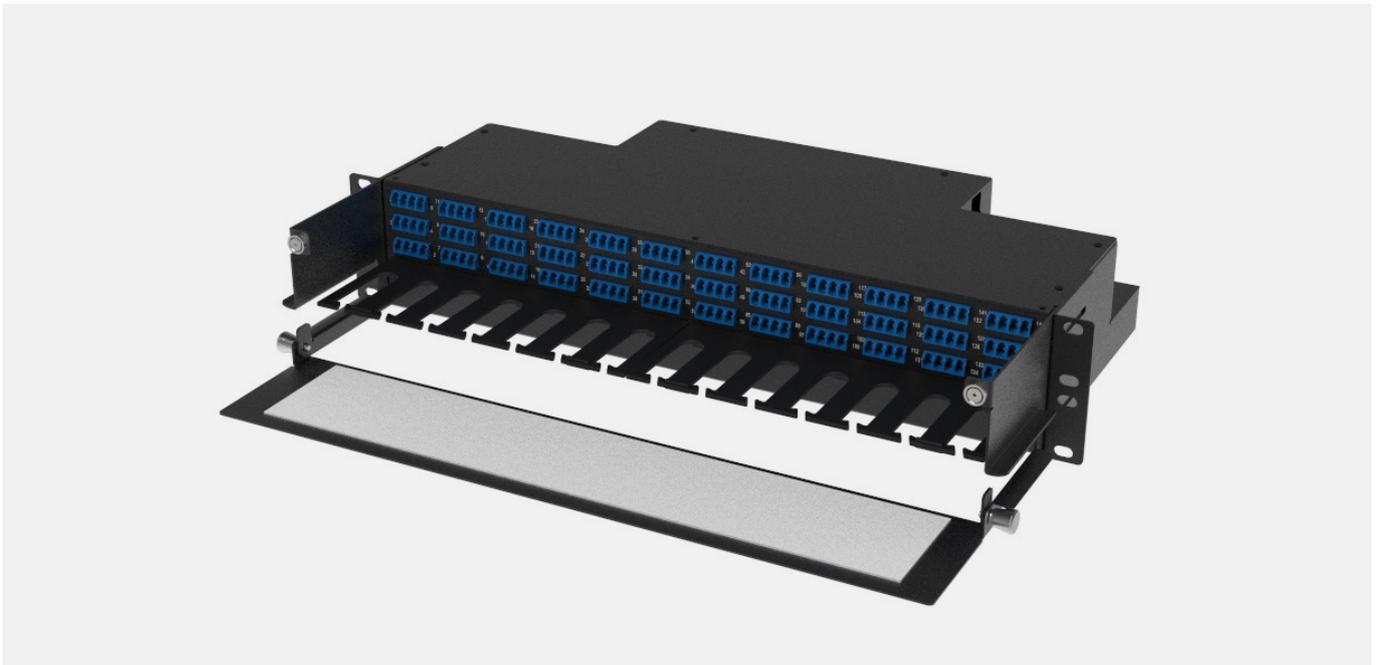
Codecom have developed a High-Density Solution which has been designed for a flexible approach to high fibre count fibre requirements.

This pre-terminated 2RU panel accepts 144F (72 port) LC connections. This panel has 1 x 144F pre terminated tails which is to be run to the High Density 4RU splice enclosure. This panel features standard fibre and ribbon fibre options.

Features & Applications

- ✓ Standard 19" size, can be rack-mounted
- ✓ Available in standard SM and MM options
- ✓ RoHS, Reach compliant
- ✓ Compliant with IEC, TIA/EIA standards Datacentre & Enterprise network
- ✓ Indoor application
- ✓ Telecommunication central office

Specifications

Parameters	Units	SM LC/SC	MM LC/SC
Avg/Max IL – Standard	dB	< 0.20/0.30	< 0.18/0.30
Return loss (PC/APC)	dB	> 60/65	NA
Avg/Max IL– Premium	dB	< 0.12/0.15	< 0.12/0.15
Return loss (PC/APC)	dB	> 60	NA

Design Hardware

Opening Type	Fixed
Dimension (in mm)	490 × 281.5 × 88mm
Weight	3.5Kg
Material	Metal cold rolled with black powder coating
Capacity	144F MPO-LC in 1RU
Access Type	Front access
Front Cable Management	Removable hinged door with integrated cable manager
Cable Entry Direction	Rear
Slot Type	LC Quad Adapter Shuttered
Port Number	36

Ordering Information

Part Number	Product Description
CC-2RU144LCPRETERM	2RU Pre-terminated Panel 144FO LC

Technical Drawing

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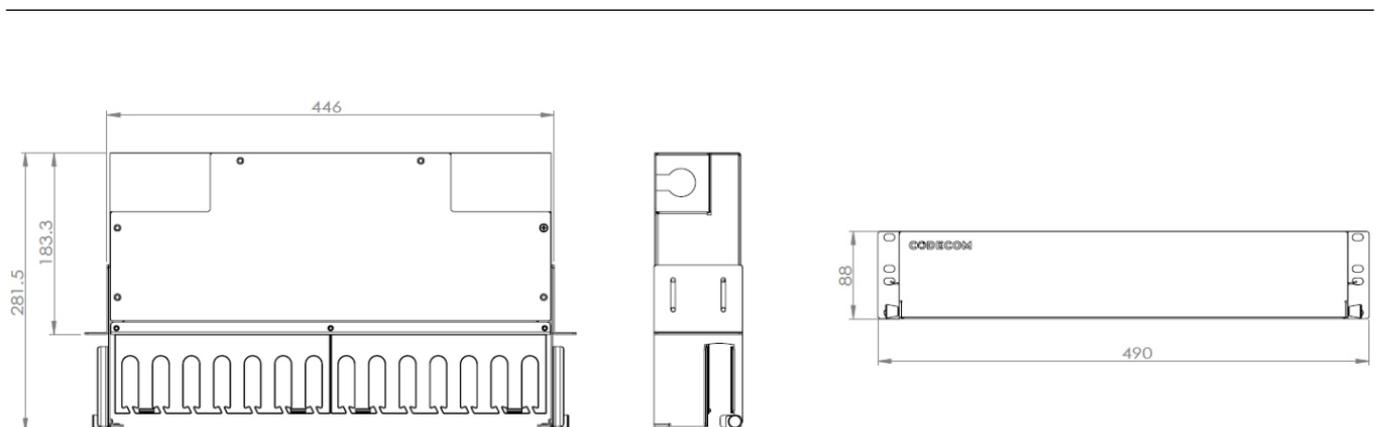
Cable & panel routing

RU 1	→	4: 4RU splice enclosure no.1
RU 5	→	8: 4RU splice enclosure no.2
RU 9	→	11: 3RU Pre-term panel 12
RU 12	→	14: 3RU Pre-term panel 11
RU 15	→	17: 3RU Pre-term panel 10
RU 18	→	20: 3RU Pre-term panel 9
RU 21	→	23: 3RU Pre-term panel 8
RU 24	→	26: 3RU Pre-term panel 7
RU 27	→	29: 3RU Pre-term panel 6
RU 30	→	32: 3RU Pre-term panel 5
RU 33	→	35: 3RU Pre-term panel 4
RU 36	→	38: 3RU Pre-term panel 3
RU 39	→	41: 3RU Pre-term panel 2
RU 42	→	44: 3RU Pre-term panel 1
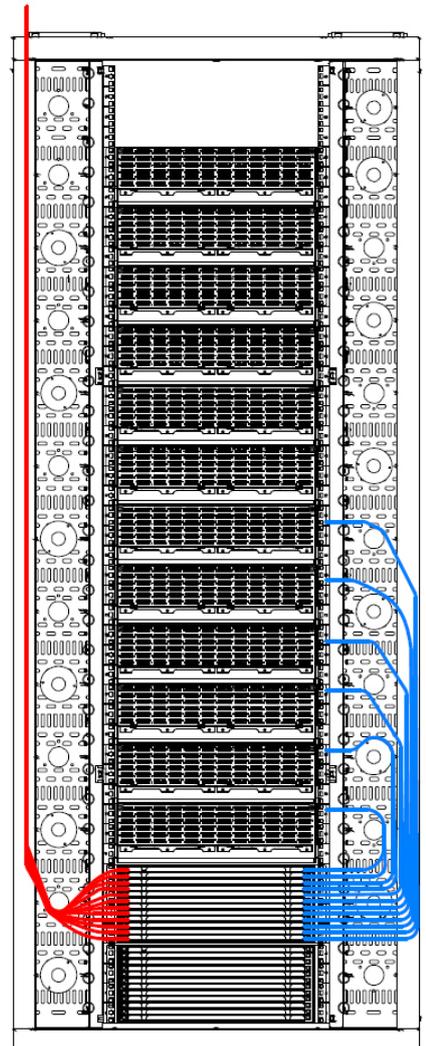
—— Cable in

—— Cable out

Product Video

For more details please watch the Product Overview Video or Installation Video at
codecom.co/chds-resources/

Codecom 25 year Product Warranty

At Codecom we are proud to offer our customers a comprehensive 25-year Product Warranty.

Every Codecom product has been expertly designed and tested to comply with the relevant local and international standards, at the time of installation. We are committed to product quality and endurance, and have full confidence our products stand the test of time, when installed and used correctly.

Codecom products conform to the requirement of referenced standards, when installed in a network according to these standards and following correct network installation and maintenance practices, the products will meet performance requirement defined by standards.

We offer:

✓ 25 year product warranty.

✓ If a Codecom product is founds to be faulty before installation Codecom will replace the product..

✓ Once a product has been successfully installed by a Codecom Certified Installer test results must be submitted to Codecom for the 25 year product warranty to be valid.

✓ Must be installed by Codecom certified installer.

✓ Re-installation costs will be decided on a case by case basis. All Codecom installation procedures must be met in order to meet the guidelines for this additional warranty cost.

Logo	Description
3P THIRD PARTY TESTING	Third Party Testing
UL	Underwriters Labratories
ETL LISTED	Intertek Group
Telcordia Technologies	Telcordia
2002 95EC RoHS COMPLIANT	Resrictions of Hazardous Substances
ANSI Accredited Certification Program	American National Standards Institute
IEC	International Electrotechnical Commission
EIA	Engineering Technolgies Association
ISO 9001 QUALITY ASSURANCE	International Standard of Organization

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