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Installation of Dexgreen Tool less PCP Splitter Blocks

About this document ...

Author

The author of this document may be contacted at:

Daniel Calver
Access engineering & innovation
(BOI)
Post Point Polaris House
Adastral Park
Martlesham Heath
Ipswich
SUFFLK
IP5 3RE

Telephone: +447795986836
Fax:
Email: daniel.calver@openreach.co.uk

Content approval

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Version History

Version No.	Date	Author	Comments
Issue 2	10-Aug-2021	Daniel Calver	Privacy and Audience markings updated. (Ada Hilton)
Issue 1	18-May-2021	Daniel Calver	New Document

Table of Content

1 *Introduction.*

ATTENTION: Any work carried out on any street furniture will require the cabinets to be scanned with a high voltage detector wand before works commences.

To help alleviate congested ducts between the DSLAM and the PCP, splitters can be moved from the NGA DSLAM Cabinet into the PCP. This process also frees up duct space as only one cable is required between the DSLAM and the PCP instead of the two currently required. The following document explains how to install the Dexgreen Tool less splitter blocks into the PCP in various scenarios.

Note: **This document covers Huawei and ECI NGA DSLAM Cabinet tie pairs.**

When installing the Dexgreen splitter block in a Top Box ALL blocks must be installed as left hand or right hand installations mixed installations are not permitted

Splitter blocks cannot be installed on Bix or 3M backmounts.

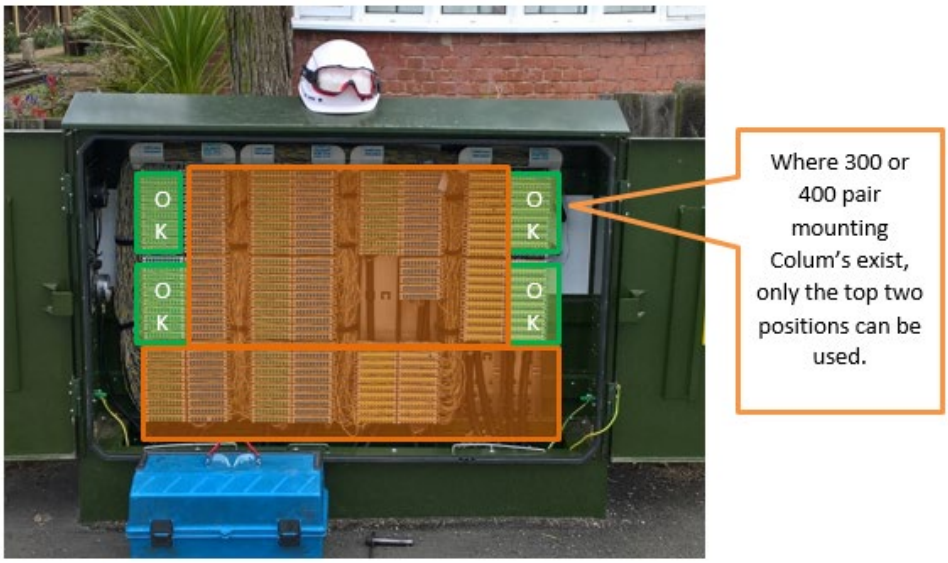
Splitter blocks must be installed in accordance with the NGA-FTTC PCP Splitter-policy ISIS NWK/LNK/559.

2 *Installing the Splitter Block.*

The splitter block can only be installed in PCP's in the positions shown in section 2.1 of this document and must be located in an area on the mounting column that allows a one hundred pair logical spacing.

2.1 Location chart for splitter blocks within the (PCP)

Green/orange in the figs 1 – 8 indicates planning policy for splitter block mounting position. Only fit blocks where indicated in **GREEN** from fig 1 to fig 8.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Where 300 or 400 pair mounting Colum's exist, only the top two positions can be used.

Fig 1

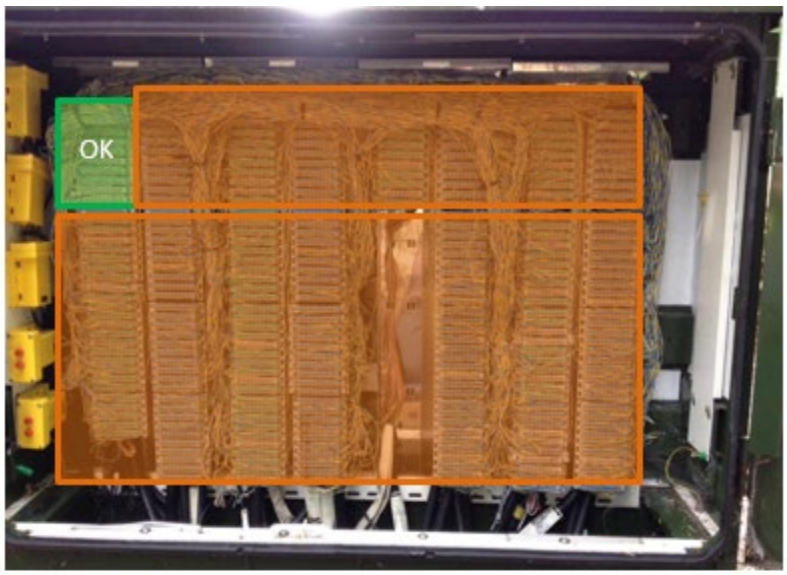
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Fig 2

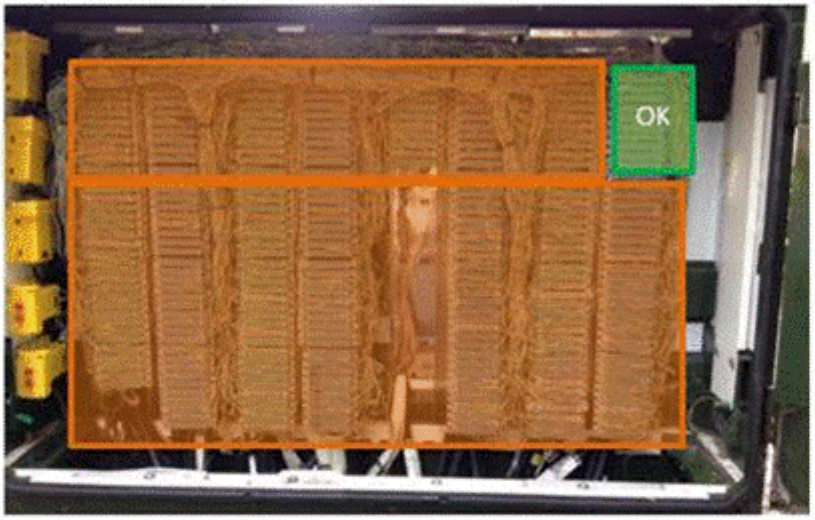

Fig 3

Fig 4

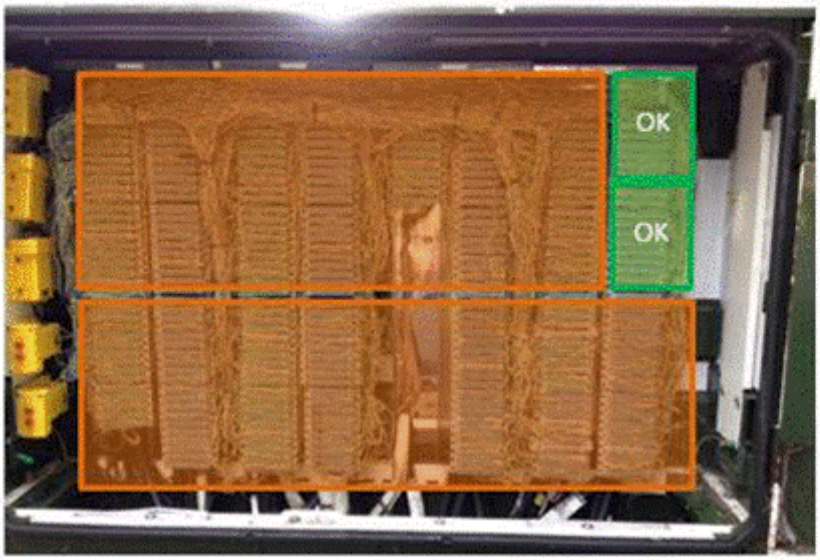

Fig5

Fig6

Fig7

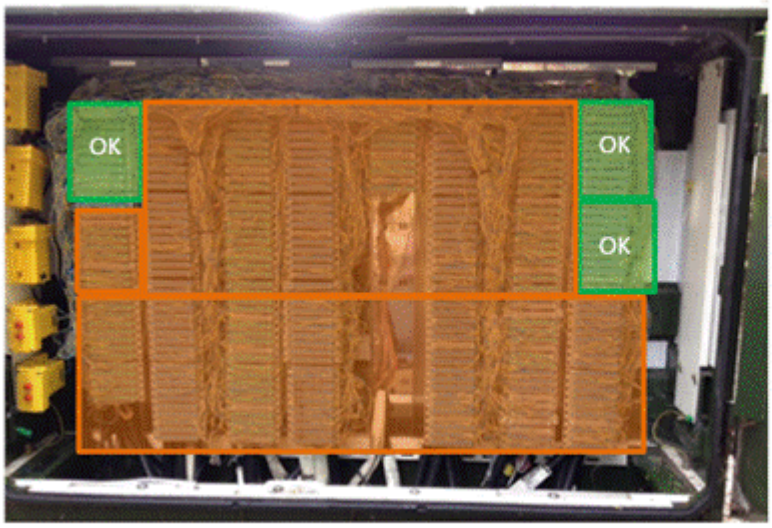
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Fig 8


46
The splitter blocks cannot be placed in between copper connectors

Fig 9

NWK/LNK/C558 NGA – FTTC PCP Splitter – Policy states that only the 2 top positions on either a 300 or 400 back mounts within the PCP.

The two splitter block rule, is to stop excessive jumper management with the PCP as each block when full, will require 200 jumpers each. As this will obstruct the connectors already located within the back mount if placed within a space that is populated with copper connectors.

2.2 Frame installation on a PCP backmount

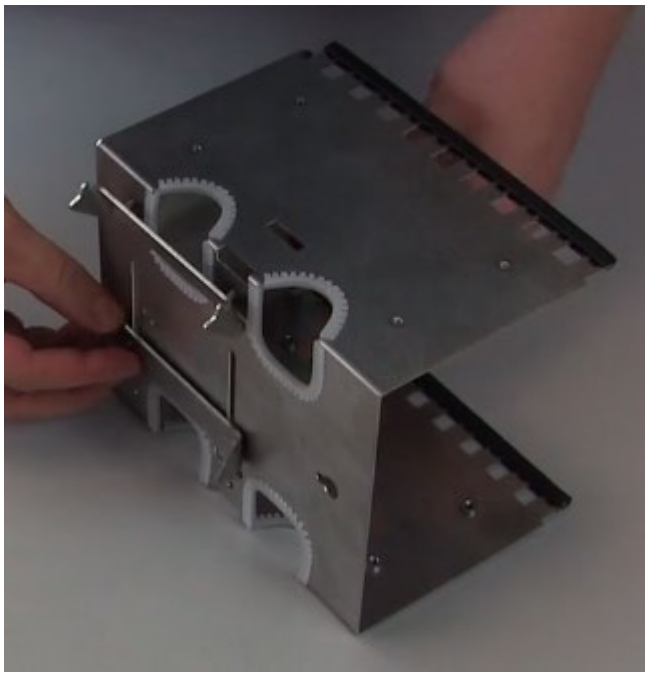
Select a position on the back mount column for the splitter block, ensuring it is within the 100 pair mounting column position and a ten pair space between the splitter block and the connector strip / splitter block below is maintained. The splitter block occupies a one hundred pair space on the mounting column and should be fitted in a location agreed by the planning team. As detailed in section 2.1 of this document.

WHEN INSTALLED ON A 400 PAIR TOOL LESS BACKMOUNT THE TOP OF THE FRAME MUST BE FITTED TO THE FIRST CONNECTOR MOUNT. WHEN INSTALLED ON A 300 PAIR TOOL LESS BACKMOUNT THE TOP OF THE FRAME CAN BE FITTED TO THE FIRST OR SECOND CONNECTOR MOUNTS.

Instructions on how to fit the splitter block are shown in the video below.

Fitting to a PCP backmount

Note: When installing the fixing plates to the frame leave the screws loose to aid installation as shown in picture below.

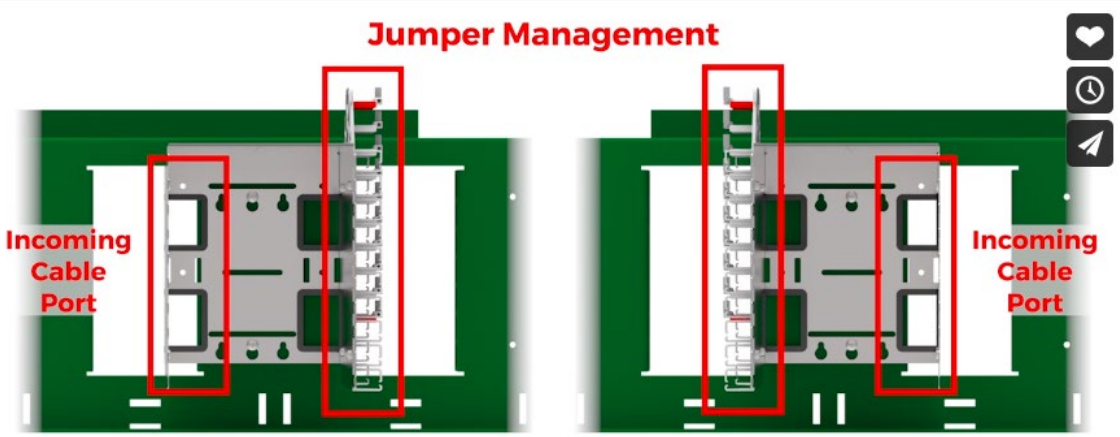


2.3 Fitting in a Top Box

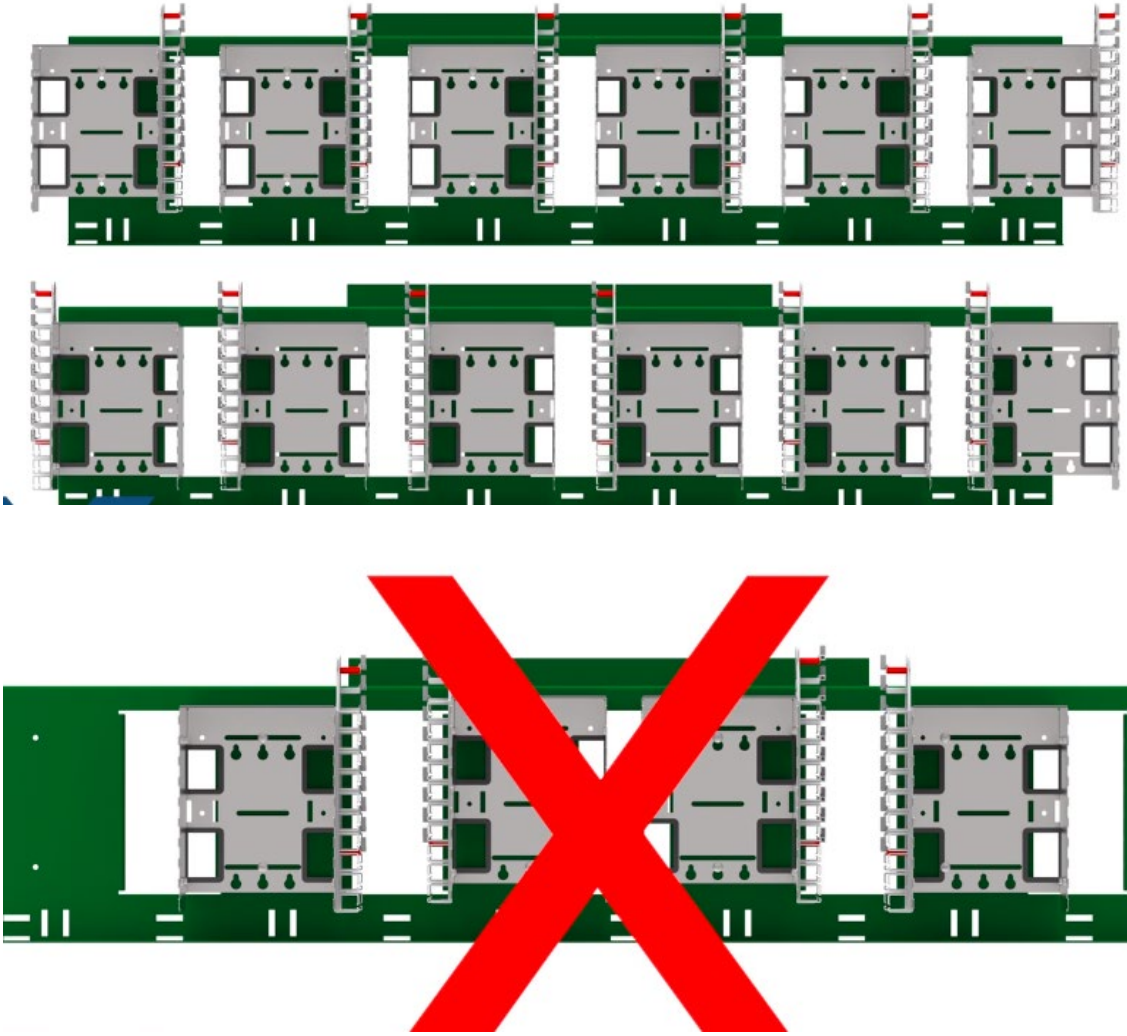
Instructions on how to fit the splitter block are shown in the video below

Fitting in a Top Box

Note: When installing a splitter block in a top Box provision must be made for the Tie cable to be installed on the opposite side to the Jumper management system.



Note: When installing a splitter block in a top Box ALL blocks must be installed as left hand or right hand installations mixed installations are not permitted



2.4 Fitting in a Stand – off cabinet

Instructions on how to fit the splitter block are shown in the video below

Fitting in a stand-off cabinet

3 *Cable Preparation and Installation (PCP).*

Tie cables should ideally be run within the mounting column, unless it is pre populated with connectors. In this case the sleeved cable can be run behind the existing jumpers and secured to the outside of the back mount column.

ENSURE THAT THE CABLE IS RUN ON THE OPPOSITE SIDE OF THE BACKMOUNT TO THE JUMPER GUIDE ON THE MOUNTING FRAME OR THE CABLE WILL IMPINGE ON JUMPER RUNNING.

Remove cable sheath so that the cable butt is approximately 120mm above the duct mouth and apply sleeving 12A, Item code, 071931, to the tie cable, ensuring the sleeving runs up parallel to the base of the splitter block. Allow approximately 500mm of conductor to protrude from the sleeving 12A for jointing purposes

This will allow improved cable management alongside the back mounting column. The12A sleeving can be placed inside the back mount if there are **no connectors** in place on the back mount.

INSTALL MAINTENANCE LOOP AT THE BOTTOM OF THE SLEEVED CABLE, THIS WILL KEEP JUMPER FIELD FREE.

4 *Installation of connector module*

Instructions on how to terminate the tie pair conductors and install the splitters at the rear of the connector module are shown in the video below.

Module installation

Note: When all of the pairs have been installed from the DSLAM to the PCP splitter block, a continuity test on the cable must be completed before any splitters are inserted into the block.

5 *L2C Jumper installation*

Instructions on how to run and terminate jumpers correctly are shown in the video below.

Note: The overlenght jumper guide on the side of the frame must be used for all jumper installation otherwise splitter replacement will not be possible

6 *Using the Test Adapter*

Instructions on how use the two pole test adapter are shown in the video below.

Use of 2 pole test adapter

Note: ONLY the two pole test adapter Item Code 096461 is to be used on the splitter module.

7 *Splitter Replacement*

Instructions on how remove and replace a splitter are shown in the video below.

Splitter Replacement

Note: Always reinstate the jumpers on the overlenght jumper guide on the side of the frame. This will ensure that the splitters can be replaced in the future.

8 *Stores*

Item	Item code
2 pole test adapter	096461

Splitter connector module	108949
PCP splitter pack of 10	108950
PCP splitter frame	108951
Stand off cabinet kit	108952

End of document.