

FTTx Primary Node Closure

Underground primary node

Product Overview

The Hexatronic primary node is based upon the ODC2 closure range. Cassettes are pre-loaded with PLC splitters and routed as per CityFibre guidelines. With the ability to feed up to 13x secondary node cabinets or 26x aerial secondary nodes.

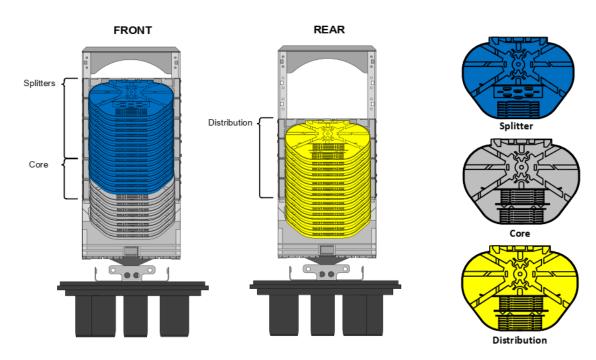
Primary Node Configuration

To reduce the volume taken by the primary node in a footway box the Hexatronic proposal is to have a dual raceway primary node. The advantages of this solution are the reduced height requirements.

Single stack options are available if required.

Features

- Cold seal sealing (Essential for micro cable)
- Excellent mechanical and environmental protection
- Suitable for aerial and underground environments
- Dome closure sealed with clamp and 0-ring system
- Compatible with all Hexatronic standard cables
- Working temperatures -40°C to +70°C

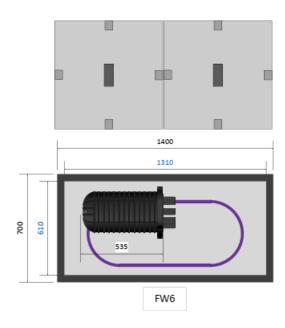






Compact Dome

The dual stack primary node makes it ideal for UK chambers with such a small volume consumed, additional space is available for cable and duct storage.



Modular Cable Sealing Options

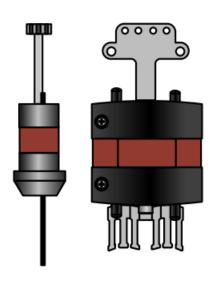
Cable entry ports to the primary node are modular and can accept multiple cables.

An oval port is generally used in isolation as it can facilitate a midspan cable and also branch 2x additional cables.

The single mechanical compression gland can be included with th primary node to expedite installation efficiency further.









Mechanical and Environmental

Parameter	Test	Value
Temp Cycling	-40 / +70c IEC 61300-2-22	No Attenuation Change
Water Immersion	20 +/- 2C IEC 61300-2-45	No Attenuation Change
Combined Temp / Humidity	10 Cycles 20, 65, 20, 65, 20, -10, 20 IEC 60068	No Attenuation Change
Vibration	IEC 61300-2-1	No Attenuation Change
Shock (15g)	IEC 61300-2-1	No Attenuation Change
Torsion (2N each Fibre)	IEC 61300-2-1	No Attenuation Change
Vibration (10-500 Hz, 10 Cycles)	IEC 61300-2-1	No Attenuation Change

Optical Performance

1x4 PLC Splitter

Parameter	Unit	Value		
Operating Wavelength	nm	1260~1650		
Insertion Loss	dB	7.0		
Uniformity (Max.)	dB	0.8		
PDL(Max.)	dB	0.2		
TDL(Max.)	dB	0.5		
Return Loss	dB	≥55(APC type connectors) / 50(UPC type connectors)		
Directivity	dB	≥55		
Working power		Long term: 500mW Short term: 1W		
Operating & Storage Temperature	℃	-40~+85		



Pre-Staged Nodes

Primary nodes are pre-configured to CityFibre specifications. (13SN example shown below)

Trom Output Talk From Spitter Trays	East Splitter 10 From Splitter Tray 8 West Splitter 10 From Splitter Tray 8 East Splitter 10 From Splitter Tray 8 West Splitter 10 From Splitter Tray 8 East Splitter 9 From Splitter Tray 7 East Splitter 9 From Splitter Tray 7 West Splitter 9 From Splitter Tray 7	Orange	SPUCE TO SPUCE TO SPUCE TO SPUCE TO LAID UP LAID UP SPUCE TO SPUCE TO	Blue Orange Green Red State Yellow Blue Orange	ay 12 Bishbaton Tray 13	Fibre 1 Fibre 2 Fibre 3 Fibre 4 Fibre 5 Fibre 6	SN13 Spitter 1 SN13 Spitter 2 SN13 Spitter 3 SN13 Spitter 4 SN13 Spitter 5 SN13 Spitter 6 SN12 Spitter 1 SN12 Spitter 1	Burlen Ougeing Distribution rdary Fibre to Secondary Node 13
Output Talls From Spilmer Trays	East Splitter 9 From Splitter Tray 7 West Splitter 9 From Splitter Tray 7	Brown	SPLICE TO SPLICE TO LAID UP LAID UP	Green Red State Yellow	Distribution Tray 12	Fibre 3 Fibre 4 Fibre 5 Fibre 6	SN12 Splitter 3 SN12 Splitter 4 SN12 Splitter 5 SN12 Splitter 6	Outgoing Distribution Fibre to Secondary Node 12
Output Talls From Spilmer Trays	East Splitter 9 From Splitter Tray 7 West Splitter 9 From Splitter Tray 7 East Splitter 9 From Splitter Tray 7 West Splitter 9 From Splitter Tray 7	Brown Blue Brown	SPUCE TO SPUCE TO SPUCE TO SPUCE TO LAID UP	Orange Green Red Slate Yellow	Distribution Tray 11.	Fibre 2 Fibre 3 Fibre 4 Fibre 5 Fibre 6	SN11 Splitter 1 SN11 Splitter 2 SN11 Splitter 3 SN11 Splitter 4 SN11 Splitter 5 SN11 Splitter 6	Outgoing Distribution Ribre to Secondary Node 11
Output Talk From Spillber Trays	East Splitter 3 From Splitter Tray 8 West Splitter 3 From Splitter Tray 3 East Splitter 5 From Splitter Tray 5 West Splitter 5 From Splitter Tray 5	Green Block State Pink	SPUCE TO SPUCE TO SPUCE TO SPUCE TO LAID UP	Orange Green Red Slate Yellow	Distribution Tray 3D	Fibre 1 Fibre 2 Fibre 3 Fibre 4 Fibre 5 Fibre 6	SN10 Splitter 1 SN10 Splitter 2 SN10 Splitter 3 SN10 Splitter 4 SN10 Splitter 5 SN10 Splitter 6	Outgoing Distribution Flore to Secondary Node 10
Output Tals Frem Spitter Trays	East Splitter 3 From Splitter Tray 3 West Splitter 3 From Splitter Tray 5 Bost Splitter 5 From Splitter Tray 5 West Splitter 5 From Splitter Tray 5	Green Black State Pink	SPUCE TO SPUCE TO SPUCE TO SPUCE TO LAID UP	Orange Green Red State Yellow	Distribution Tray 9	Fibre 1 Fibre 2 Fibre 3 Fibre 4 Fibre 5 Fibre 6	SN9 Splitter 1 SN9 Splitter 2 SN9 Splitter 3 SN9 Splitter 4 SN9 Splitter 5 SN9 Splitter 6	Outgoing Distribution Fibre to Secondary Node 9
Output Talls From Spillner Trays	East Splitter 2 From Splitter Tray 2 West Splitter 2 From Splitter Tray 2 East Splitter 5 From Splitter Tray 5 West Splitter 5 From Splitter Tray 5	Orange Violet State Pink	SPUCE TO SPUCE TO SPUCE TO SPUCE TO LAID UP	Blue Orange Green Red Slate Yellow	Distribution Tray &	Fibre 2 Fibre 3 Fibre 4 Fibre 5 Fibre 6	SNB Splitter 1 SNB Splitter 2 SNB Splitter 3 SNB Splitter 4 SNB Splitter 5 SNB Splitter 6	Outgoing Distribution fibre to Secondary Node 8
Output Tals Frem Spitter Trays	East Splitter 2 From Splitter Tray 2 West Splitter 2 From Splitter Tray 2 East Splitter 5 From Splitter Tray 5 West Splitter 5 From Splitter Tray 5	Orange Violet State Pink	SPUCE TO SPUCE TO SPUCE TO SPUCE TO LAID UP	Orange Green Red State Yellow	Distribution Tray 7	Fibre 1 Fibre 2 Fibre 3 Fibre 4 Fibre 5 Fibre 6	SN7 Splitter 1 SN7 Splitter 2 SN7 Splitter 3 SN7 Splitter 4 SN7 Splitter 5 SN7 Splitter 6	Outgoing Distribution Fibre to Secondary Node 7
Output Talk From Spitter Trays	East Splitter 2 From Splitter Tray 2 West Splitter 2 From Splitter Tray 2 East Splitter 4 From Splitter Tray 4 West Splitter 4 From Splitter Tray 4	Orange Violet Red White	SPUCE TO SPUCE TO SPUCE TO SPUCE TO LAID UP LAID UP	Star Crange Green Red State Yellow	Distribution Tray 6	Fibre 1 Fibre 2 Fibre 3 Fibre 4 Fibre 5 Fibre 6	SN6 Splitter 1 SN6 Splitter 2 SN6 Splitter 3 SN6 Splitter 4 SN6 Splitter 5 SN6 Splitter 6	Outgoing Distribution Fibre to Secondary Node 6
Output Talls From Splimer Trays	East Splitter 2 From Splitter Tray 2 West Splitter 2 From Splitter Tray 2 East Splitter 4 From Splitter Tray 4 West Splitter 4 From Splitter Tray 4	Orange Violet Red White	SPUCE TO SPUCE TO SPUCE TO SPUCE TO LAID UP	Blue Orange Green Red Slate Yellow	Distribution Tray 5	Fibre 2 Fibre 3 Fibre 4 Fibre 5 Fibre 6	SNS Splitter 1 SNS Splitter 2 SNS Splitter 3 SNS Splitter 4 SNS Splitter 5 SNS Splitter 6	Outgoing Distribution Fibre to Secondary Node S
Output Talk From Spätter Trays	East Splitter 1 From Splitter Tray 1 West Splitter 1 From Splitter Tray 1 East Splitter 4 From Splitter Tray 4 West Splitter 4 From Splitter Tray 4 East Splitter 6 From Splitter Tray 6 West Splitter 6 From Splitter Tray 6	Brown Rad White Yellow Aqua	SPUCE TO SPUCE TO SPUCE TO SPUCE TO SPUCE TO SPUCE TO	Orange Green Red Slate Yellow	Distribution Tray 4	Fibre 1 Fibre 2 Fibre 3 Fibre 4 Fibre 5 Fibre 6	SN4 Splitter 1 SN4 Splitter 2 SN4 Splitter 3 SN4 Splitter 4 SN4 Splitter 5 SN4 Splitter 6	Outgoing Distribution fibre to Secondary Node 4
Output Talk From Spikter Yrays	East Spilitter 1 Prom Spilitter Tray 1 West Spilitter 1 Prom Spilitter Tray 1 East Spilitter 4 From Spilitter Tray 4 West Spilitter 4 From Spilitter Tray 6 West Spilitter 6 From Spilitter Tray 6 West Spilitter 6 From Spilitter Tray 6	Blue Brawn Red White Yellow Aque	SPUCE TO SPUCE TO SPUCE TO SPUCE TO SPUCE TO	Orange Green Red State Yellow	Distribution Tray 3	Fibre 1 Fibre 2 Fibre 3 Fibre 4 Fibre 5 Fibre 6	SN3 Splitter 1 SN3 Splitter 2 SN3 Splitter 3 SN3 Splitter 4 SN3 Splitter 5 SN3 Splitter 6	Outgoing Distribution Fibre to Secondary Node 3
Output Tails From Spilmer Trays	East Splitter 1 From Splitter Tray 1 West Splitter 1 From Splitter Tray 1 East Splitter 3 From Splitter Tray 3 West Splitter 8 From Splitter Tray 3 East Splitter 6 From Splitter Tray 6 West Splitter 6 From Splitter Tray 6	Blue Brawn Green Black Yellow Agus	SPUCE TO SPUCE TO SPUCE TO SPUCE TO SPUCE TO	Blue Orange Green Red Slate Yellow	Distribution Tray 2	Fibre 1 Fibre 2 Fibre 3 Fibre 4 Fibre 5 Fibre 6	SN2 Splitter 1 SN2 Splitter 2 SN2 Splitter 3 SN2 Splitter 4 SN2 Splitter 5 SN2 Splitter 6	Outpoing Distribution Fibre to Secondary Node 2
Output Talk From Spätter Trays	East Splitter 1 From Splitter Tray 1 West Splitter 1 From Splitter Tray 1 East Splitter 3 From Splitter Tray 3 East Splitter 3 From Splitter Tray 3 East Splitter 6 From Splitter Tray 6 West Splitter 6 From Splitter Tray 6	Brown Green Finels Yellow Aqua	SPUCE TO SPUCE TO SPUCE TO SPUCE TO SPUCE TO	Orange Green Red State Yellow	Distribution Tray 1	Fibre 1 Fibre 2 Fibre 3 Fibre 4 Fibre 5 Fibre 6	SN1 Splitter 1 SN1 Splitter 2 SN1 Splitter 3 SN1 Splitter 4 SN1 Splitter 5 SN1 Splitter 5	Outgoing Distribution Ribre to Secondary Node 1

Underground Primary Node serving 13 Secondary Nodes Distribution Trays:

Part number Description

Ordering Information CFNB-PRI-104-xxSN U/G Primary Node

