# 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.

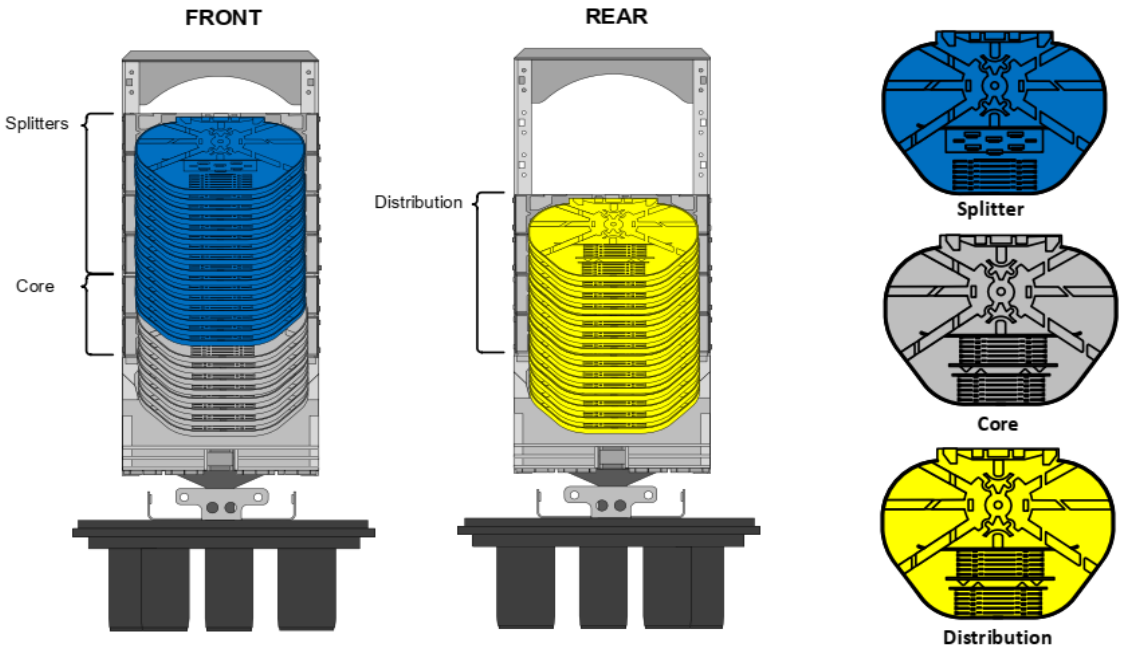
## Primary Node Configuration

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.

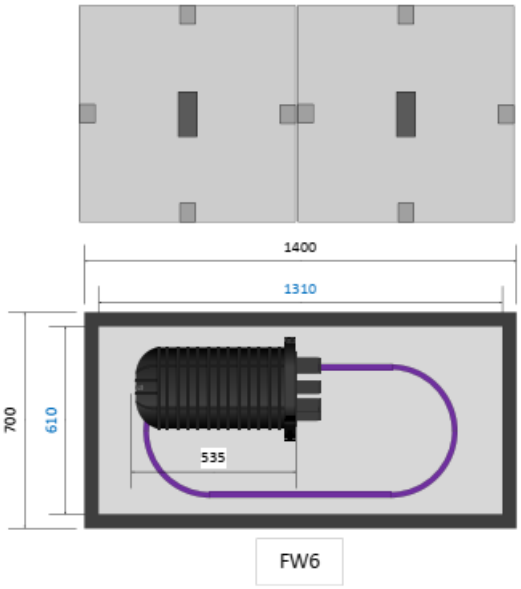
## Features

- 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 -40ºC to +70ºC



## 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.

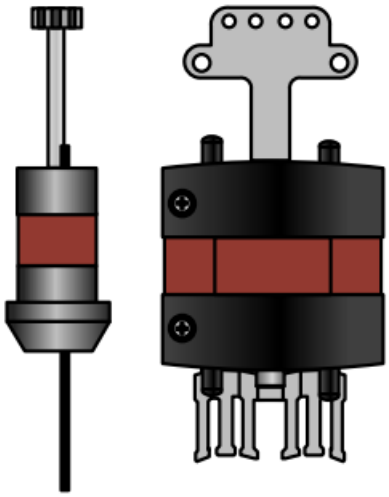



## Modular Cable Sealing Options

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

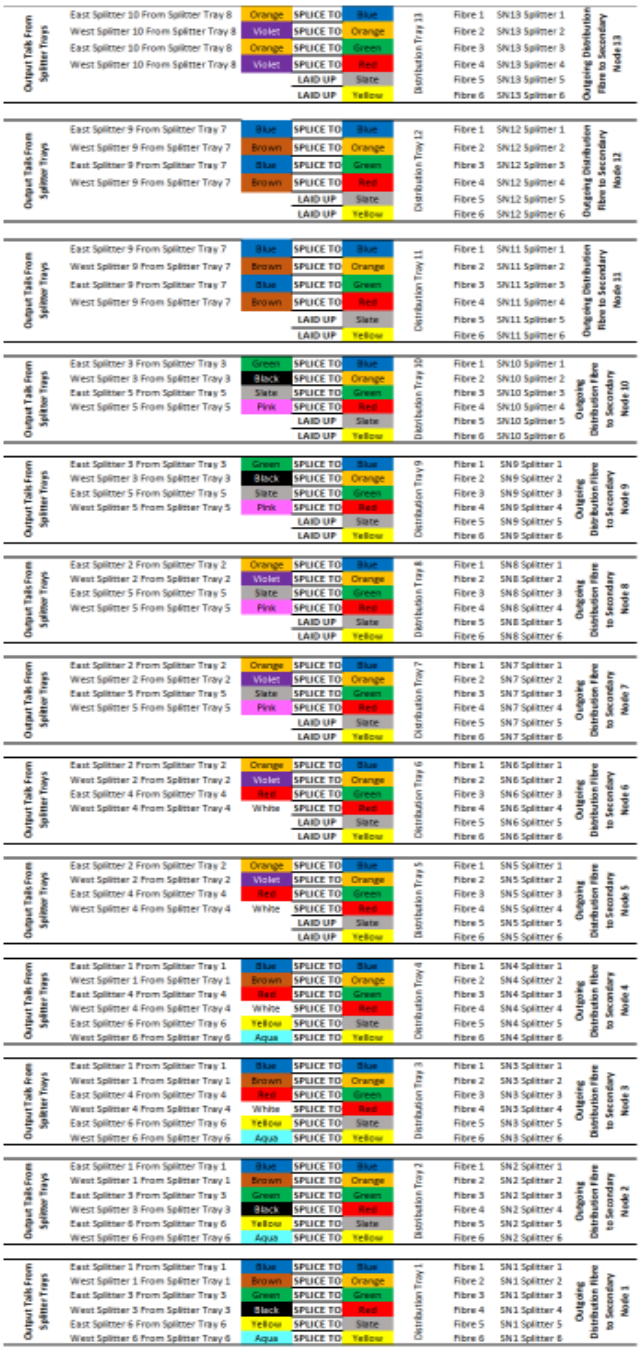
**1x4 PLC Splitter**

| 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<br>Short term: 1W |
| Operating & Storage Temperature | ℃ | -40～+85 |


info@hexatronic.co.uk
www.hexatronic.com/en-uk
+44 (0) 2392 580 555

## Pre-Staged Nodes

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



Underground Primary Node serving 13 Secondary Nodes Distribution Trays:

| Ordering Information | |
|---|---|
| **Part number** | **Description** |
| CFNB-PRI-104-xxSN | U/G Primary Node |