

Internal & External Compact Customer Connection Interface (CCI) Specification



Product Description

The Compact Customer Connection Interface (Compact CCI) developed by OPT Services, is a wall mounted fibre management enclosure suitable for any network infrastructure that uses optical fibre to deliver customer connectivity. It has been specifically designed to provide an aesthetically minimised footprint (121 x 104 x 29mm) for both universal Brownfield & Greenfield installation. It can be deployed internally or externally as required, with a specific version for each location. The module has a one piece cover that provides environmental protection and access to the internal components. When deployed internally a bespoke ONT mounting bracket can be fixed over the front cover which helps to minimise the installed footprint.

The unit is moulded and assembled in the UK.





External Compact CCI Design Features

- The External Compact CCI is designed to mount on a wall using the existing Capping 101 fixing holes. It will interface with the standard Capping 25. All fixings are hidden within the enclosure
- A flexible 'wiper' seal is fitted between Backplate and wall for protection against moisture ingress.
- The Compact CCI provides a single cable input with four output cable options:
 - o 2 x outside BT Capping 25
 - o 1 x inside BT Capping 25
 - o 1 x 'Through the Backplate/wall'
- The enclosure supports both underground and overhead cable feeds
- The Compact CCI Front Cover is positively located using a moulded lug at the top and a single captive M3 x 8mm Panhead screw (with M3 Nylon retaining washer on the inside)
- This version is moulded in UV stable grey ASA to be an aesthetic match to Capping 101

Internal Compact CCI Design Features

- The internal version of the Compact CCI is identical to the external type except for colour and the omission of the Wiper seal
- When used internally, the Compact CCI is installed the same way as the external version
- Mounting holes are also present to allow installation on a standard electrical backbox
- The optional ONT Mount is a holder that clips securely to the internal Compact CCI
- This variant is moulded in Self-extinguishing white ABS to match internal power & light fixtures
- Moulded in ABS V0, self extinguishing plastic

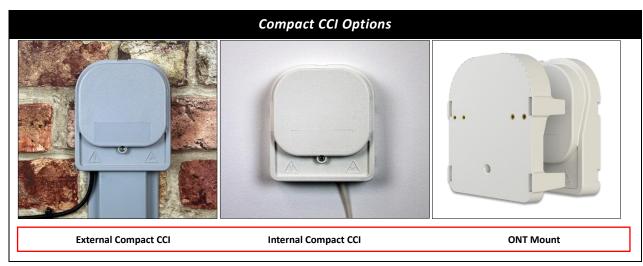
Application Notes

Both versions of the Compact CCI can store up to 6m of fibre (OD of 900um) on the splice tray.

The unique compact splice tray can accommodate up to 4 x 5A splice protectors and is compatible with G652D fibre. When installed externally, it can be used as a network demarcation point.

Detailed installation instructions for all options are available from OPT Services or from a QR code on the packaging.

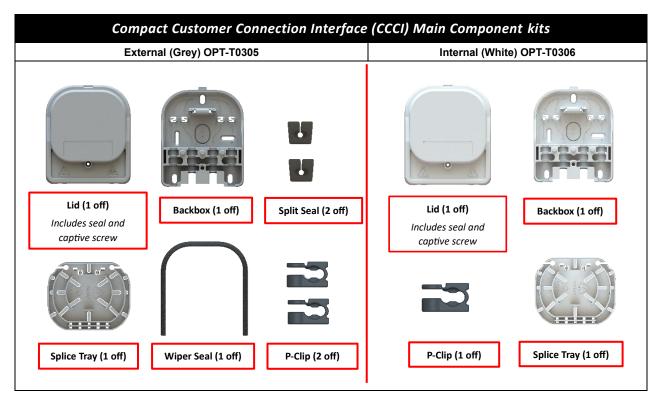
Your company logo can be applied to the front cover to suit requirements. Note there would be an additional charge associated with this option.

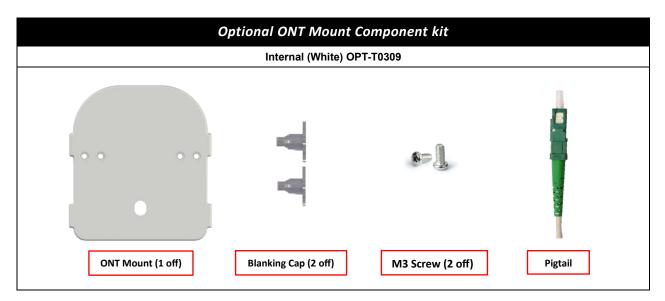




Components & Part Numbers

See Bill of Materials for further details

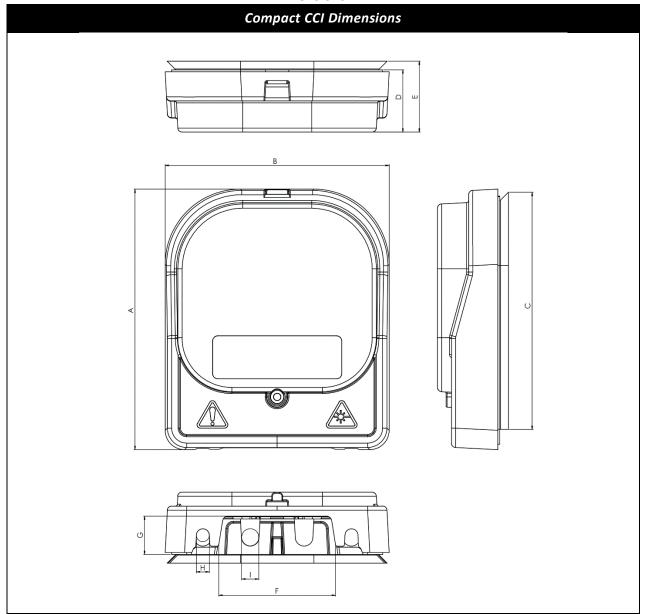




Part Number(s)	Description	
OPT-T0305	External Compact CCI (non-branded)	
OPT-T0306	Internal Compact CCI (non-branded)	
OPT-T0309	Internal Compact CCI – Optional ONT Mount	



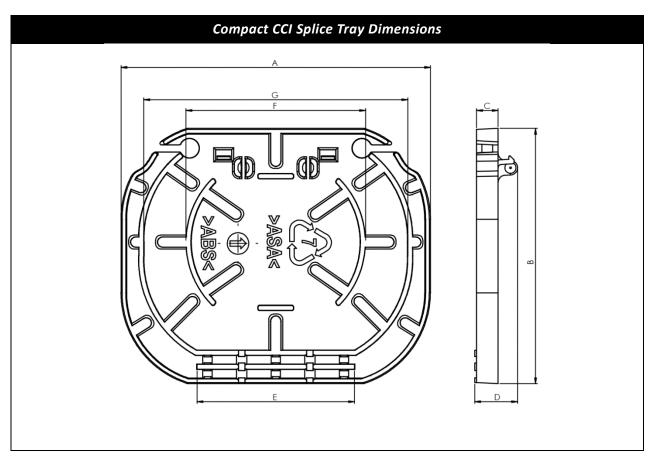
Dimensions



Letter	Description	Dimension
А	Footprint Length 121mm	
В	Footprint Width 104mm	
С	Wiper Seal Length 110mm	
D	Footprint Depth (no Wiper Seal)	29mm
E	Footprint Depth (with Wiper Seal)	33mm
F	Capping 25 opening Width	54mm
G	Capping 25 opening Depth	18mm
Н	Cable entry outside Capping 25	Ø6mm*
I	Cable entry inside Capping 25	Ø8mm*

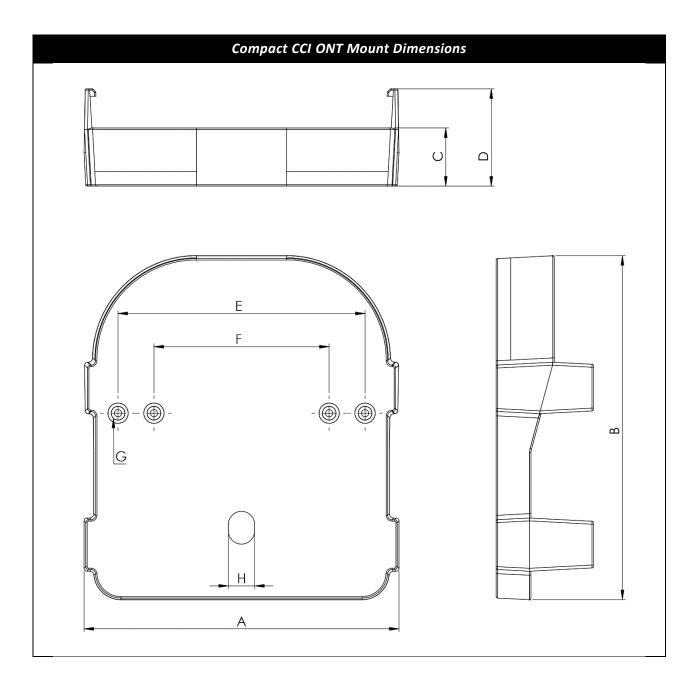
^{*}Diameter listed above is the moulded diameter not the maximum cable diameter supported





Letter	Description	Dimension	
А	Footprint Length 86mm		
В	Footprint Width 71mm		
С	Tray Depth 6mm		
D	Tray Depth with Hinge 12mm		
E	Splice protector grip length 44mm		
F	Inner Storage	Ø50mm	
G	Outer Storage	73.5mm	





Letter	Description Dimension	
А	Footprint Length 108.5mm	
В	Footprint Width 118mm	
С	Footprint Depth 20mm	
D	Footprint Depth with fixing clips	33.5mm
E	ONT fixing holes (between Centres) 85mm	
F	ONT fixing holes (between Centres)	60.3mm*
G	Fixing hole diameter M3 (x4 off)	
Н	CCCI Front panel access	9mm

^{*} standard backbox hole centres



Technical Details

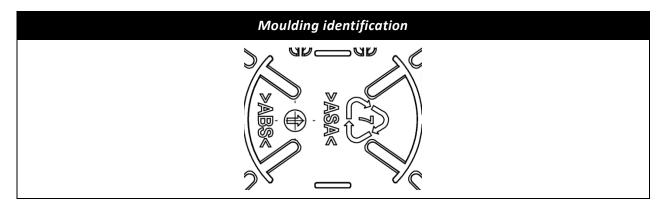
Characteristic	
Installation Environment	Indoor or Outdoor (manufactured to suit)
Temperature Operating range	-25 to +75 ºC
Maximum Cable diameter (in or out)	Ø 6.2mm anchored or Ø8mm unanchored*
Protection Rating	IEC 60529 - IP65
ONT Pigtail	SC/APC G657A2 3.0mm x 1M CCA standard grade jacket

^{*} Anchoring the cable is the preferred method

Component	Colour	Material	
External Compact CCI Backbox & Lid	Window Grey (RAL7040)	ASA	
Internal Compact CCI Backbox & Lid	Pure White (RAL9010)	ABS V0 (Self-extinguishing)	
Compact CCI Splice Tray	As above depending on use	As above depending on use	
Compact CCI Backbox Ferrel	Gold	Brass	
M3 Captive Screw (lid)	Silver	Steel	
M3 Retaining Washer (lid)	White	Nylon	
P-Clip	Black	ABS V0 (Self-extinguishing)	
P-Clip Ferrel	Gold	Brass	
P-Clip Screw	Silver	Steel	
Split Seal	Black	TPE +4%Polypropylene (SR50)	
Wiper Seal	Black	TPE +4%Polypropylene (SR50)	
Lid Seal	Black	TPE +4%Polypropylene (SR50)	
ONT Mount (& Blanking caps)	Pure White (RAL9010)	ABS V0 (Self-extinguishing)	
ONT Mount M3 Ferrel	Gold	Brass	
ONT Mount M3 x 8mm screw	Silver	Steel	
ONT Pigtail	White	LSOH-FR PVC	

All External surfaces of ASA or ABS moulded components have the commercial polish, light spark 30 VDI finish applied. This is to reduce production marks and increase visual appeal and user grip.

Arrows moulded into the enclosure and splice tray indicate the type of plastic used for manufacturing, as shown below for the splice tray.





Packaging & Labelling

All OPT Services products are dispatched in recyclable materials and clearly labelled with our name, product code and description where applicable. A QR-Code on the label can be used to access the online installation instructions, meaning they are readily available at all times.

OPT Services are accredited for Sustainable Packaging and documentation

Packaging H x W x D	Dimension	
Height	135mm	
Width	122.5mm	
Depth	37mm	
Thickness	1.5mm Cardboard	





OPT Services are product specialists for fibre networks







R&D Concept to Completion

- Over 130 years of Experience
- Inhouse Prototyping
- CNC & Injection Moulding
- 3D Print Lab
- 70+ Established Products

Services

- Cable Install & Assessment Site
- Training Studio Facilities
- Graphic Design
- Assembly & Rework
 - Cable Winding

Logistics

- Storage & Delivery
- 2800m² of floor space
- 1700+ Pallet Spaces
- PROSKU Management System
- Fleet of Logistics Options

Call us with any queries: 01473 612188



Appendix 1 - Abbreviations

Abbreviation	Explanation	
ASA	Acrylonitrile Styrene Acrylate – weather resistant thermoplastic	
ABS	Acrylonitrile Butadiene Styrene - heat-resistant thermoplastic	
G625D	Specification for 10.1um rigid optical fibre with resistance to bending	
IEC 60529	Standard that defines the IP code which classifies and rates environmental protection (intrusion, dust, accidental contact and water)	
LSOH-FR	Low Smoke Zero Halogen – Flame Retardant	
PVC	Polyvinyl Chloride - synthetic polymer of plastic	
ONT	Optical Network Termination	
RAL	RAL is a colour management system used in Europe	
VDI	Verein Deutscher Ingenieure – scale of surface finishes	

Appendix 2 - BoM

Description	Part Number	Volume - Internal	Volume - External
LID	OPT-01111	1 OFF	1 OFF
LID SEAL (Supply fitted)	OPT-01112	1 OFF	1 OFF
BACK BOX	OPT-01109	1 OFF	1 OFF
WIPER SEAL	OPT-01110	1 OFF	1 OFF
SPLICE TRAY	OPT-00810	1 OFF	1 OFF
SPLIT SEAL (bagged)	OPT-00812	N/A	2 OFF
P-CLIP (bagged)	OPT-00811	2 OFF	2 OFF
P-CLIP SCREW	M3 x 10 PAN	1 OFF	2 OFF
LID SCREW	M3 x 8 PAN	1 OFF	1 OFF
RETAINING WASHER	NYLON M3	1 OFF	1 OFF
INTERNAL FIXING SCREW	M3.5 x 25 C/S A2 OR BZP - POZI OR SLOT	2 OFF	N/A
EXTERNAL FIXING SCREW*	4.5 x 40 C/S POZI	N/A	N/A
RAWLPLUG*	UNO K 06	N/A	N/A
WRAPPER	OPT-01114	1 OFF	1 OFF
WRAPPER LABEL	OPT-01115	1 OFF	1 OFF
PALLET BOX LABEL	OPT-01118	1 OFF	1 OFF

^{* -} items can be supplied when sold with branded enclosures

End of Specification