optotec

ORC2-CORC2-CORC2X
IBR Closures

Product Brochure

Introduction

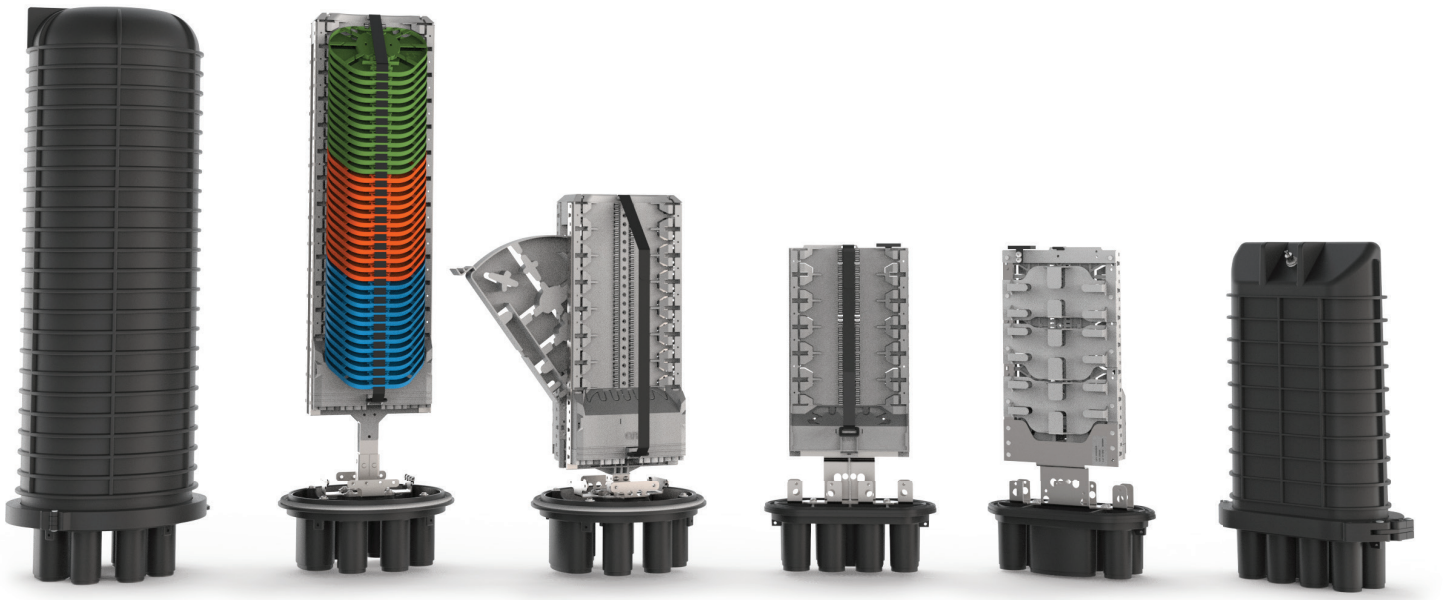
Through the years, Optotec has provided network companies with a wide range of closures capable of meeting every need of the telecommunications networks. Having integrated with Sterlite Technologies Limited now, Optotec has embarked on to the path of portfolio expansion to include new-age solutions.

OPTO-ORC2 and its compact version CORC2 are the evolution of the well know and appreciated closures of the ODC family, specializing in the management of IBR ribbon cables.

OPTO ORC2 and CORC2 share with previous ODC family the cause features of extreme versatile closures, some full range of sealing kits watertight performances (IP68, IEC 529), all environment installation conditions (underground, in manholes and handholes as well as aerial/poled and inside street cabinets).

OPTO ORC2 and CORC2 closures were created to meet the need for ribbon cables management, in 'ribbon-to-ribbon'(R2R) networks, allowing the branching into 'ribbon-to-loose tube'

The wide portfolio of Optotec cassettes allow both the single splice and the ribbonizing approaches into next generation fibre optic access networks.



APPLICATION

- Trunk closures, branch joints and pot-head.
- Cables junctions in outdoor networks:
  aerial networks, pole, wall
  underground networks, inside handholes/manholes

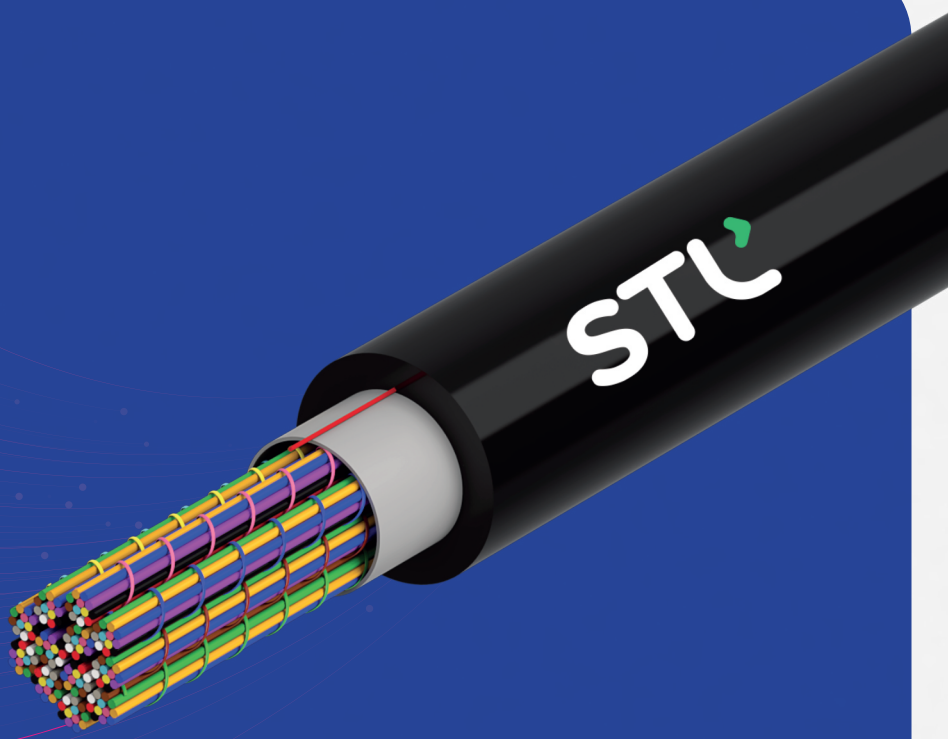
TECHNICAL FEATURES

- Basic closures kit, dome clamp and technical rubber O-ring sealing.
- IP68 IK10 UV resistant closures.
- IBR (Intermittent Bonded Ribbon) cable management.
- Easy access to the junction area through CLAMP opening equipped with a guided locking.
- Area dedicated to uncut fibres and mid-span cables.
- Internal Mounting System can be configurable with SAMX-HD modules.
- Bases are suitable for multiple cables entry ports with cold sealing.
- Closures are equipped with an RFID system.
- Unloosable paperless eco-friendly QR code label for installation instructions.

celesta

Intelligently Bonded Ribbon

- Upto 6912 Fibres
- Higher Fibre Density
- Reduced Installation Time
- Optimised Project Cost



Small Size

Quick Splice

Totally Dielectric

Water Blocked

UV Protected

STL Celesta ribbon cable is better and smarter than traditional loose tube cables and flat ribbon cables, Celesta ribbon cable offers an outstanding solution for demanding, high-growth, high-bandwidth communications applications.

STL Celesta Ribbon Cables are new age cables that offer a technology leap in terms of size and space requirements. They have found wide application at data centers, equipment connections within cabinets, outside plant applications.

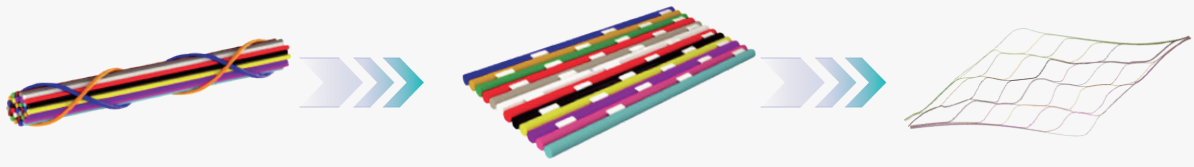
STL Celesta Ribbon Cables are compliant with international performance and testing standards

IEC 60794-5-10	ITU-T	RoHS	REACH

Innovative slim design optimises duct space utilisation

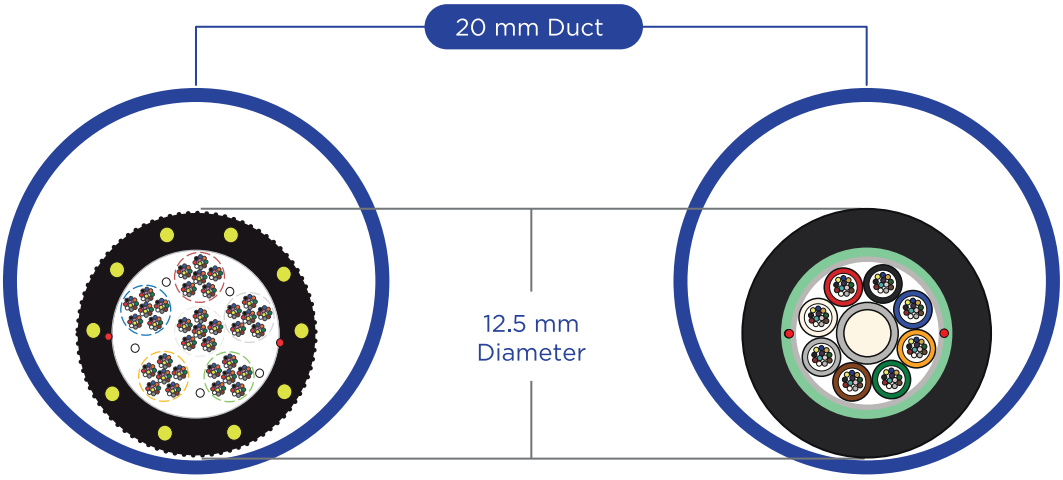
In Celesta, ribbons take the shape of a bundle because of their intelligently bonded design. This results in improved form factor of the cable.

432F Celesta Ribbon cable is as much as **26% slimmer** than a conventional multi-loose tube cable with the same number of fibres.



4X better duct utilisation

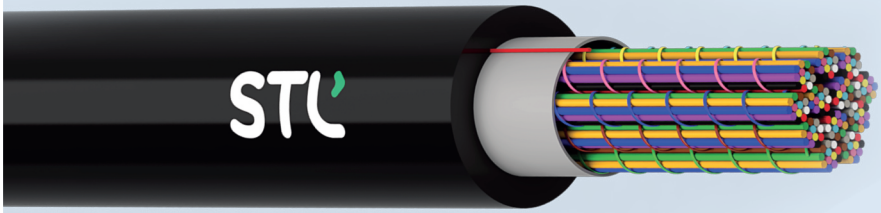
High-density ribbon cable packs more fibre in the same cable diameter and helps improve duct space utilisation by as much as 4X as compared with a conventional MLT cable



432F
Celesta Ribbon Cable

96F
Conventional MLT cable

Installer-friendly design help operators roll out network faster



Install upto 2 Km of cable within 1 hour

Celesta Ribbon Cable is blow optimized, has kink-free design with innovative sheathing and non-preferential bending. Installers can install upto 2 Km of cable within 1 hour inside a 20mm duct.

Cable preparation in less than 3 minutes

The multiple peripheral strength members inside the sheath of optical fibre ribbon cables provide crush protection and are rodent resistant. Its gel-free, water-blocking and contra-helical binding cable design reduces the cable preparation time for splicing. Cable-end preparation can be done under 3 minutes and mid-span access in 13 minutes.

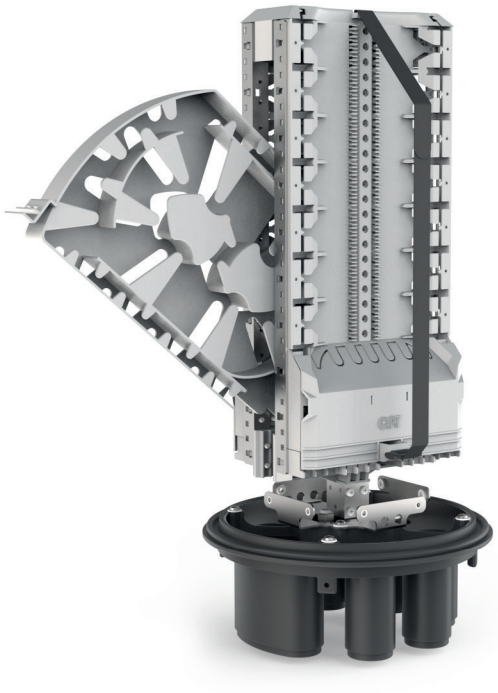
Once the cable has been laid inside the duct, installation of the cable is truly an installer's delight. With Celesta Ribbon Cables, the installation process takes 80% lesser time as compared to installing a conventional loose tube cable with same fibre count.
Celesta with its innovative colour-coded bonded design results in easier and faster ribbon identification. This ensures first time right splicing even with semi-skilled manpower. The ribbon fibres are compatible with existing and new fusion splicers. The collapsible ribbon design transforms quickly into a flat ribbon resulting in five times faster splicing than a MLT cable. This can result in huge savings in time and labour cost.

OPTO-ORC2

OPTO-ORC2-AB

OPTO-ORC2-AB closure is the result of the integration of the IBR LOOP STORAGE BASKET, a unit that allows the optimal storage and management of the midspan and dark ribbon bundles. The basket is suitable to safety storage up to 864 IBR ribbon fibres. Optotec invented new cold sealing kits suitable for the type of cables that this closure has to accommodate and organize. This integration is also possible in the field with the installation of these components.

OPTO-ORC2-AB stack is fixed to the base firmly by a light pillar allowing a perfect ribbon bundles routing from the entry points to each SAMX-HD splice cassettes.



OPTO-ORC2-AB CLOSURE

1. VERSION **B DOME**
   ORC2 dimensions including B dome
   H 525 mm ∅ 247mm
2. **CLAMP**
   ORC2 locking system ∅ 285 mm
3. **IBR LOOP STORAGE BASKET**
   Maximum capacity 864 f.o. – 300 cm
4. VERSION **A BASE**
   ∅ 247 mm – 1 OVAL PORT, 6 ROUND
5. **STACK**
   Backplane for SAMX-HD Splice Tray Modules

**For cable input and output management, choose the Optotec "ODCKIT" sealing KIT*
(see page 14)

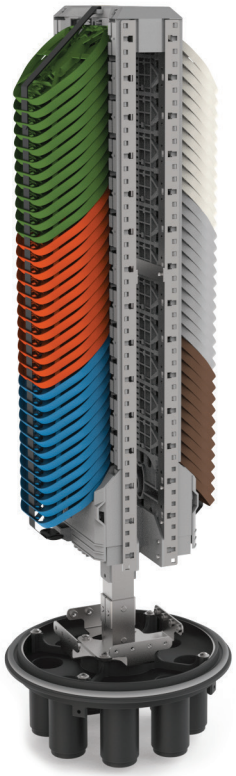
REFERENCE PN	DESCRIPTION
OPTO-ORC2-AB	SPLICING CLOSURE for IBR CABLES with BASE A and DOME B

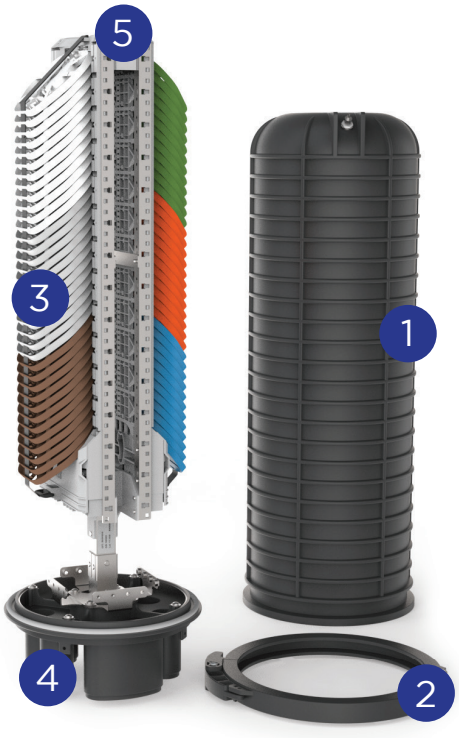
OPTO-ORC2

OPTO-ORC2-AC **TRUNK CLOSURE**

ORC2 closures are designed to manage IBR ribbons feeder cables in conjunction with SAMX-HD ribbon cassettes.

It is the perfect solution for trunk splicing up to 1728 fo IBR cables.





OPTO-ORC2-AC CLOSURE

1. VERSION **C DOME**
   ORC2 dimensions including c dome
   H 770 mm ∅ 247mm
2. **CLAMP**
   ORC2 locking system ∅ 285 mm
3. **HDST3-2R**
   Maximum capacity 1728 f.o.
4. VERSION **A BASE**
   ∅ 247 mm – 1 OVAL PORT, 6 ROUND
5. **STACK**
   Backplane for SAMX-HD Splice Tray Modules

**For cable input and output management, choose the Optotec "ODCKIT" sealing KIT*
(see page 14)

REFERENCE PN	DESCRIPTION
OPTO-ORC2-AC	SPLICING CLOSURE for IBR CABLES with BASE A and DOME C

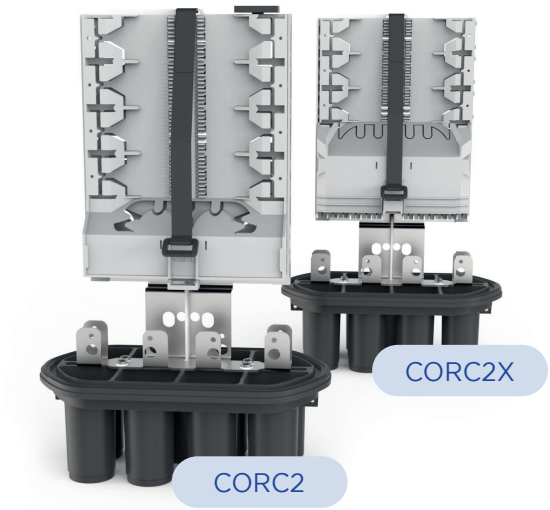
OPTO-CORC2

OPTO-CORC2-AA
OPTO-CORC2X-AA

OPTO-CORC2 is the compact version of the ORC2 closure: its shape, in fact, allows it to be installed inside handholes.

OPTO CORC2-AA is dedicated to trunk joints (up to 288 fo) while OPTO CORC2X-AA is suitable for branching installations (up to 216 fo).

Similar to CODC2 loose tube family it makes for easy installation and maintenance. The CORC closure also contains a rear storage area for the management of IBR fibre bundles.



OPTO-CORC2-AA CLOSURE

1. VERSION **B DOME**
   CORC2 dimensions including A dome H 380 mm
2. **CLAMP**
   CORC2 locking system
3. **STORAGE UNITS**
   Maximum capacity 288 f.o. - 230 cm
4. VERSION **A OVAL BASE**
   W270mm D150 mm – 1 OVAL PORT, 6 ROUND
5. **STACK**
   Backplane for SAMX-HD Splice Tray Modules

**For cable input and output management, choose the Optotec "ODCKIT" sealing KIT*
(see page 14)

REFERENCE PN	DESCRIPTION
OPTO-CORC2-AA	SPLICING CLOSURE for IBR CABLES with BASE A, DOME A and a small mixer
OPTO-CORC2X-AA	SPLICING CLOSURE for IBR CABLES with BASE A and DOME A

OPTO-CORC2

OPTO-CORC2-AB
OPTO-CORC2X-AB

OPTO-CORC2 is the compact version of the ORC2 closure: its shape, in fact, allows it to be installed inside handholes.

OPTO CORC2-AB is dedicated to trunk joints (up to 432 fo) while OPTO CORC2X-AB is suitable for branching installations (up to 360 fo).

Similar to CODC2 loose tube family it makes for easy installation and maintenance. The CORC closure also contains a rear storage area for the management of IBR fibre bundles.

OPTO-CORC2-AB CLOSURE

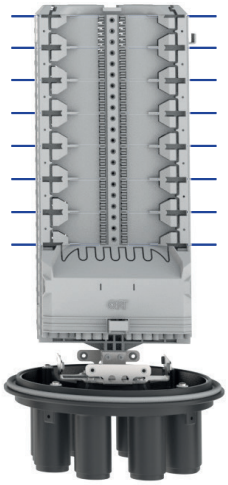
1. VERSION **B DOME**
   CORC2 dimensions including B dome H 450 mm
2. **CLAMP**
   CORC2 locking system
3. **STORAGE UNITS**
   Maximum capacity 432 f.o. - 250 cm
4. VERSION **A OVAL BASE**
   W270mm D150 mm – 1 OVAL PORT, 6 ROUND
5. **STACK**
   Backplane for SAMX-HD Splice Tray Modules

**For cable input and output management, choose the Optotec "ODCKIT" sealing KIT*
(see page 14)

REFERENCE PN	DESCRIPTION
OPTO-CORC2-AB	SPLICING CLOSURE for IBR CABLES with BASE A, DOME B and a small mixer
OPTO-CORC2X-AB	SPLICING CLOSURE for IBR CABLES with BASE A and DOME B

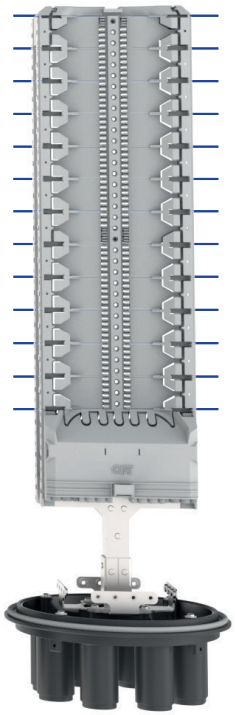
OPTO-ORC2
OPTO-CORC2

Configuration with SAMX



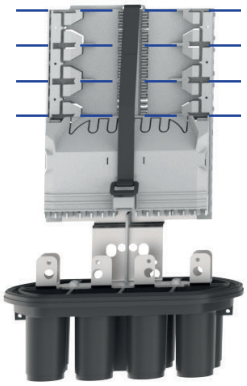
OPTO-ORC2-AB

7 SAMX PER SIDE



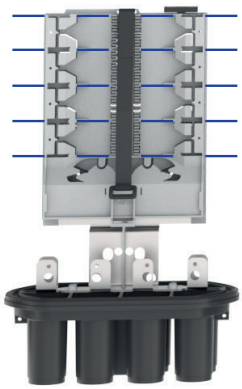
OPTO-ORC2-AC

12 SAMX PER SIDE



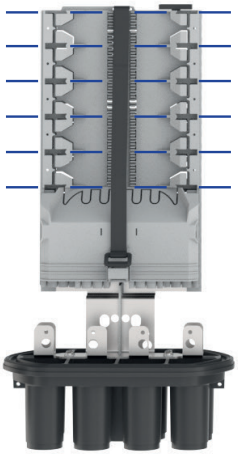
OPTO-CORC2X-AA

5 SAMX



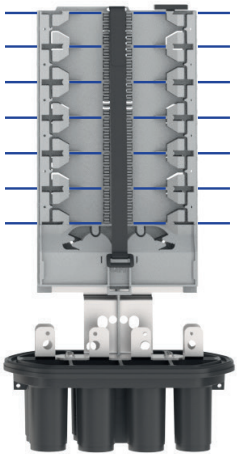
OPTO-CORC2-AA

5 SAMX



OPTO-CORC2X-AB

5 SAMX

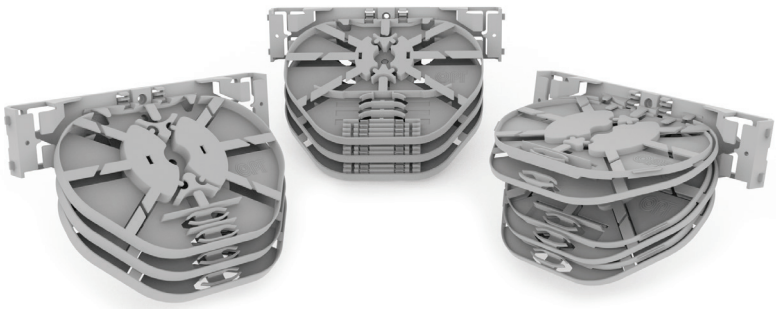


OPTO-CORC2-AB

6 SAMX

SAMX MODULES

OPTO-ORC2 AB-AC
OPTO-CORC2-CORC2X AA-AB



Optotec splice modules are essential elements on which our fibre optic closures product range is based. These products offer a fibre management system characterized by simplicity, accessibility and reliability.

The splice modules, contain a variable number of cassettes whose capacity are determined by the splice holders contained therein. Fully compatibility Optotec single fiber splice modules portfolio, IBR cassettes can be supplied in different colours according to fiber bundled binder for identification purpose.

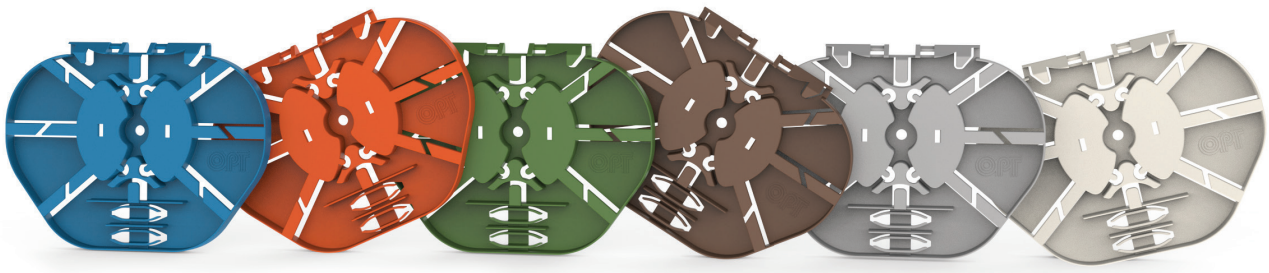
The best, flexible, solution for every network design and installation. Same cassettes are compatible and available with WAP reduced system for micrODC and MAX closures.

R/R: Double density IBR splice solution

- Ideal where IBR reaches the access network.
- 1 IBR/Element per tray for unambiguous binder identification.
- Same thickness as SE single element trays (8mm).

2R and 3R: High capacity IBR-IBR “Splice and Forget” cassettes

- 2x IBR Splice Protectors per SE cassette.
- 3x IBR Splice Protectors and 12x single fibre heatshrinkable Splice Protectors. This solution allows to make maintenance and disaster repair on IBR modules.



REFERENCE PN	DESCRIPTION
SAMX-HD3-R/R	Splice module made up of a WAPX and 3 HD twin trays with 1 IBR splice holder each max capacity (12+12) x 3 = 72fo
SAMX-HD3-2R	Splice module made up of a WAPX and 3 HD trays with IBR splice holder (2 IBR per tray) max capacity (12+12)x3=72
SAMX-HD3-3R-12H	Splice module made up of a WAPX and 3 HD trays with IBR and HS splice holder (3 IBR and 12 HS per tray) Max capacity (12+12+12) x 3 = 108 fo

ORC2

BASE A

Splice modules types and features

					DOME B		DOME C	
	TRAYS TYPE	TOT. NUM. OF TRAYS FOR EACH	NUM. OF SPLICES PER TRAY	TRAY WITH SPLICES TYPE:	TOTAL NUMBER OF TRAYS	MAXIMUM SPLICE CAPACITY	TOTAL NUMBER OF TRAYS	MAXIMUM SPLICE CAPACITY
SAMX-HD3-R/R	HD	3	2	H=Fibertem	84	1008	144	1728
SAMX-HD3-2R	HD	3	2	H=Fibertem	42	1008	72	1728
SAMX-HD3-3R-12H	HD	3	3	H=Fibertem	42	1512		

CORC2 - CORC2X

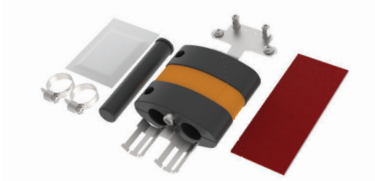
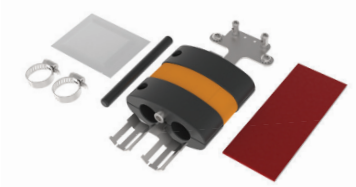
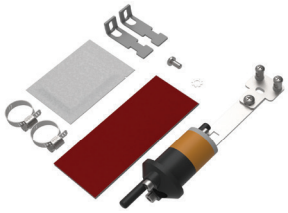
BASE A

Splice modules types and features

					CORC2X				CORC2			
	TRAYS TYPE	TOT. NUM. OF TRAYS FOR EACH	NUM. OF SPLICES PER TRAY	TRAY WITH SPLICES TYPE:	TOTAL NUMBER OF TRAYS		MAXIMUM SPLICE CAPACITY		TOTAL NUMBER OF TRAYS		MAXIMUM SPLICE CAPACITY	
					DOME A	DOME B	DOME A	DOME B	DOME A	DOME B	DOME A	DOME B
SAMX-HD3-R/R	HD	3	2	H=Fibertem	18	30	216	360	24	36	288	432
SAMX-HD3-2R	HD	3	2	H=Fibertem	9	15	216	360	12	18	288	432
SAMX-HD3-3R-12H	HD	3	3	H=Fibertem	9	15	324	540	12	18	432	648

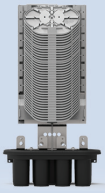
SEALING CCSR - CCSO

COLD SEALING

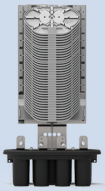
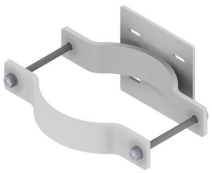
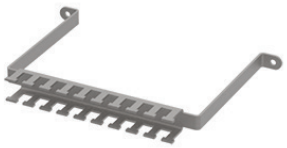
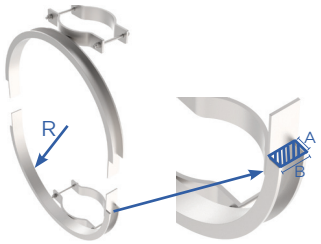
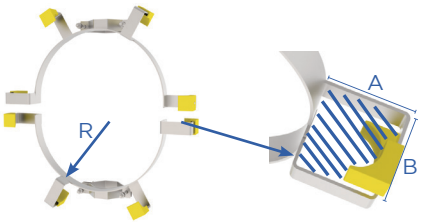
KIT CODE AND PICTURE	SEALING TYPE	CABLE MANAGEMENT CAPACITY		USE ON BASE TYPE	
		N° MAX CABLES	CABLE ∅ RANGE MIN-MAX	OVAL A 	ROUND A 
ODCKIT-CCSO-2x20 	OVAL COLD SEALING	2	10 - 20 mm	yes 1 KIT maximum	yes 1 KIT maximum
ODCKIT-CCSO-2x14 	OVAL COLD SEALING	2	10 - 14 mm	yes 1 KIT maximum	yes 1 KIT maximum
ODCKIT-CCSO-2x10R 	OVAL COLD SEALING	2	5 - 10 mm	yes maximum 1 KIT	yes 1 KIT maximum
ORCKIT-CCSR-1x20R 	ROUND COLD SEALING	1	15 - 20 mm	yes 6 KIT maximum	yes 6 KIT maximum
ORCKIT-CCSR-1x14R 	ROUND COLD SEALING	1	10 - 14 mm	yes 6 KIT maximum	yes 6 KIT maximum
ORCKIT-CCSR-2x12R 	ROUND COLD SEALING	2	8 - 12 mm	yes 6 KIT maximum	yes 6 KIT maximum

**Ribbon cable kits can also be used for loose tube cables.*

ODCKIT
FOR CABLES FIXING

KIT CODE AND PICTURE	KIT FEATURES	USE ON CLOSURES TYPE: CORC2 	USE ON CLOSURES TYPE: ORC2 
ODCKIT-WMB 	WALL MOUNTING BRACKET	NO	YES
CODCKIT-WMB 	WALL MOUNTING COMPACT BRACKET	YES	NO
MB-ODC2KIT 	Mounting BRACKET FOR MOBRA ARM Suitable to be installed on standard MOBRA Arms	NO	YES
MB-CODC2KIT 	Mounting BRACKET FOR MOBRA ARM Suitable for installation on standard MOBRA Arms	YES	NO
ODCKIT-PHMK 	POT-HEAD MOUNTING BRACKET FOR ODC CLOSURES	NO	YES
ODCKIT-WMB TT 	TRANSMISSION TOWER MOUNTING BRACKET	NO	YES
CODCKIT-WMB TT 	TRANSMISSION TOWER MOUNTING COMPACT BRACKET	YES	NO

ODCKIT
FOR CABLES FIXING

KIT CODE AND PICTURE	KIT FEATURES	USE ON CLOSURES TYPE: CORC2 	USE ON CLOSURES TYPE: ORC2 
ODCKIT-PMK 	POLE MOUNTING BRACKET MATCH THIS ITEM TO FOCUS-ODCKIT-WMB FOCUS-CODCKIT-WMB	YES	YES
CODCKIT-CFP 	TUBES OR CABLES FIXING BRACKET MATCH THIS ITEM TO FOCUS-ODCKIT-WMB FOCUS-CODCKIT-WMB	YES	YES
POLE MOUNTING SLACK STORAGE TYPE 01 	EXTRA LENGTH AERIAL CABLES FIXING R 30 cm Storage capacity A 2 cm B 3,8 cm	YES	YES
POLE MOUNTING SLACK STORAGE TYPE 02 	EXTRA LENGTH AERIAL CABLES FIXING R 30 cm Storage capacity A 10,5 cm B 10 cm	YES	YES
CODCKIT-SGBP 	ANTI-HUNTING PROTECTION FOR POLE MOUNTING CODC CLOSURE	YES	NO

About STL - Sterlite Technologies Ltd.

A leading optical and digital solutions company.

STL is a leading global optical and digital solutions company providing advanced offerings to build 5G, Rural, FTTx, Enterprise and Data Centre networks. The company, driven by its purpose of 'Transforming Billions of Lives by Connecting the World', designs and manufactures in 4 continents with customers in more than 100 countries. Telecom operators, cloud companies, citizen networks, and large enterprises recognize and rely on STL for advanced capabilities in Optical Connectivity, Global Services, and Digital and Technology solutions to build ubiquitous and future-ready digital networks. STL's business goals are driven by customer-centricity, R&D and sustainability. Championing sustainable manufacturing, the company has committed to achieve Net Zero emissions by 2030. With top talent from 30+ nationalities, STL has earned numerous 'Great Place to Work' awards and been voted as the 'Best Organisation for Women'.

STL has a strong global presence in India, Italy, the UK, the US, China, and Brazil.

STLOPT-B-2022-03-IBR-ORC2-CORC2-CORC2X-KIT_ENG