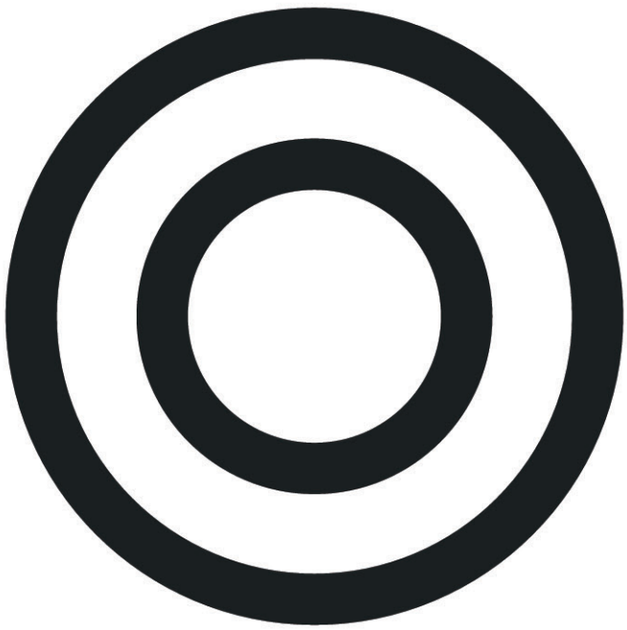
Novobit
Product Portfolio 2025



Quality Fiber Optic Assemblies and Cables

Novobit

Heritage

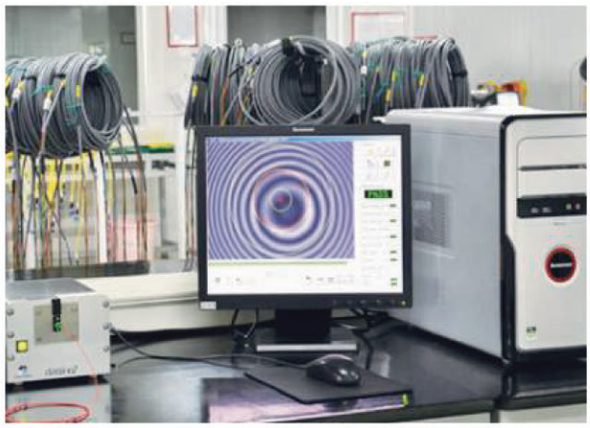
Novobit is a private company, founded and led by the Bi Family. Novobit got its start in 2001 during the first surge of demand for fiber optic network installations. After completing his PhD in laser optics at the University of Bern and having worked as a product product manager for a leading Swiss cable producer, Junqing Bi founded Novobit. His ambition was to supply Europe with af- fordable passive fiber op- tic components of superior quality.

With a strong emphasis in manufacturing depth and quality, Novobit has been able to establish and maintain its reputation as a reliable partner in markets throughout the world. With a modern 20,000 sqm manufacturing plant, and sales offices in Switzerland, Sweden and China, Novobit provides products at the highest quality standards and with lightning fast service.

↓ About Novobit

Excellence in Manufacturing

Here at Novobit we believe that true product quality in fiber optics can only be achieved with high manufacturing depth. To achieve this quality, we offer from bare 250 µm buffer cable production over connector casing molding to final interferometry testing – all inhouse.



Our cable manufacturing lines are compliant to the newest CPR and UL regulations, and can produce up to 72-fiber products with a fully equipped test lab with environment chambers that inspect all cables for IEC compliance. Automated cable stripping, self-developed high-end curing ovens and the latest polishing equipment ensure a fast and high-quality connector production.

Novobit's connectors are designed by our experienced engineering team and produced on our injection molding machines, to ensure the tightest tolerances at any time. Well calibrated state-of-the-art interferometry equipment and power inspection tools ensure a high fail proof production. We are constantly integrating manufacturing capabilities and increasing efficiency on both ends of the supply chain, to bring innovative, durable products to our customers.

Contact

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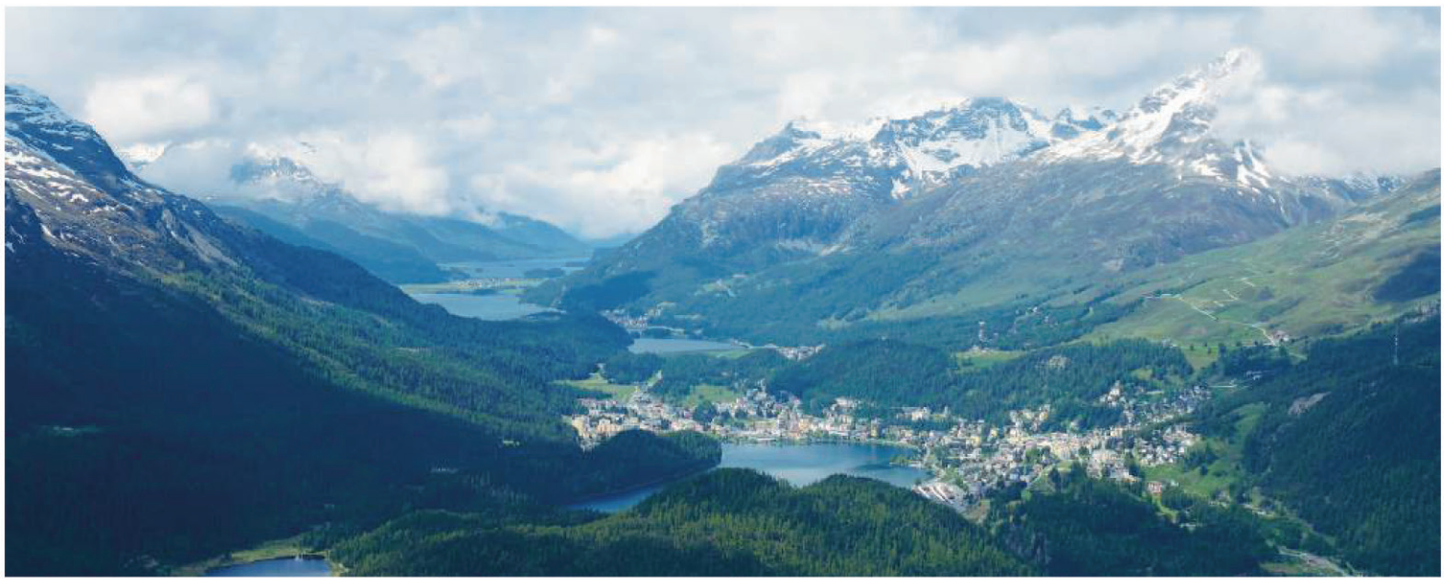

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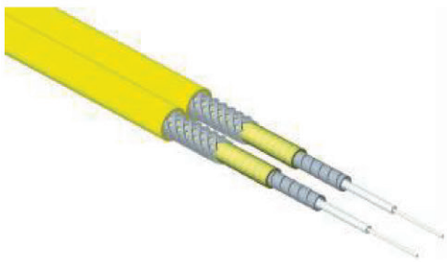
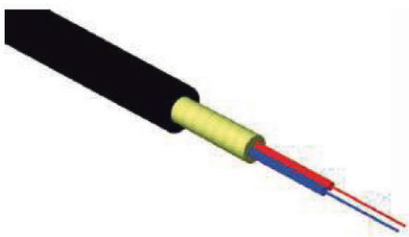
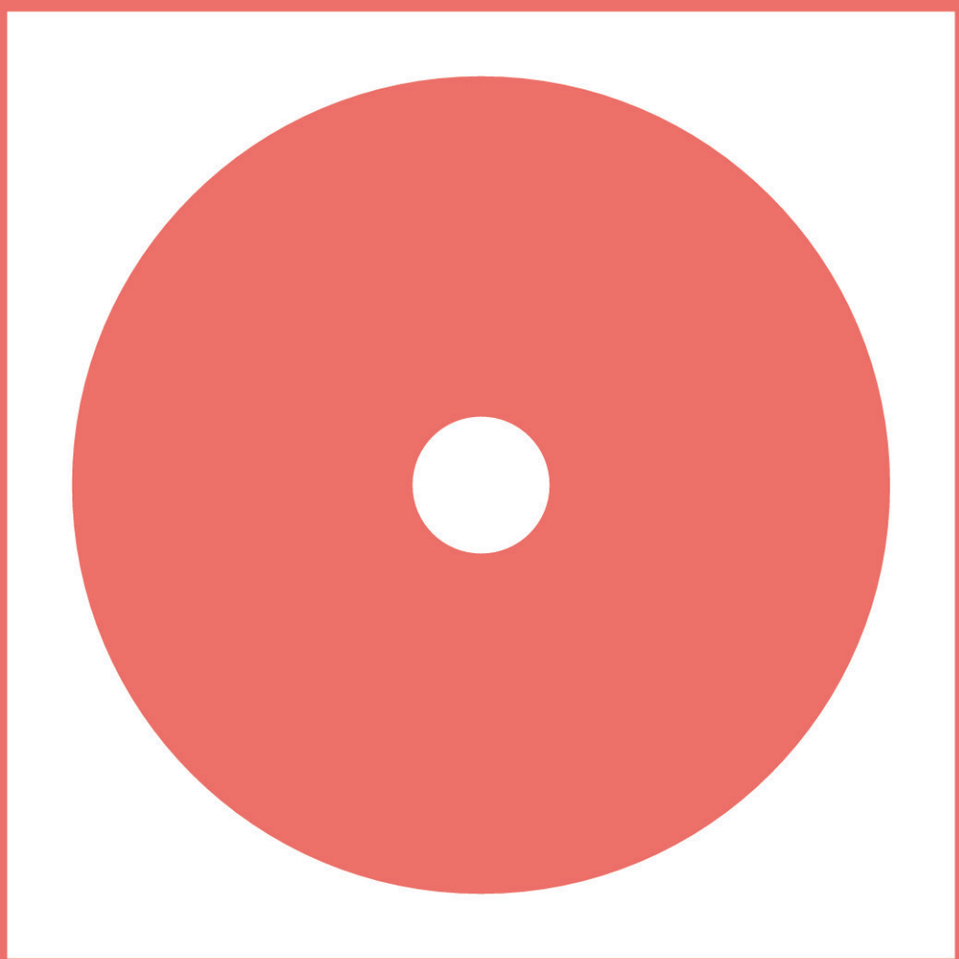
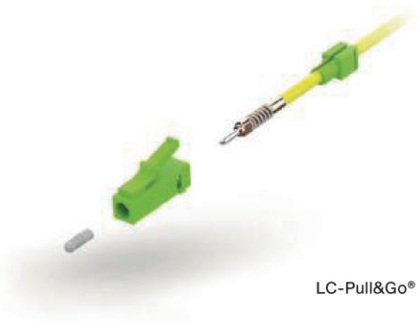






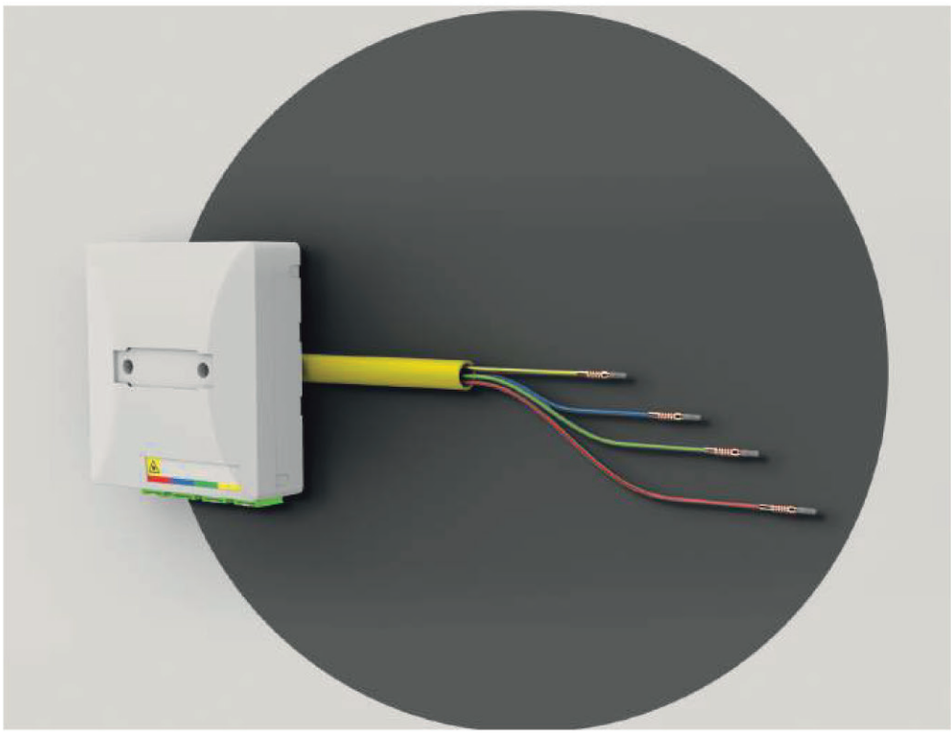
INNOVATION & CASE STUDIES

Introduction of new FTTH approach – pre-terminated cables with LC- & SC-Pull&Go®



LC-Pull&Go®

SC-Pull&Go®



→ Blow-In length: Up to 140 m

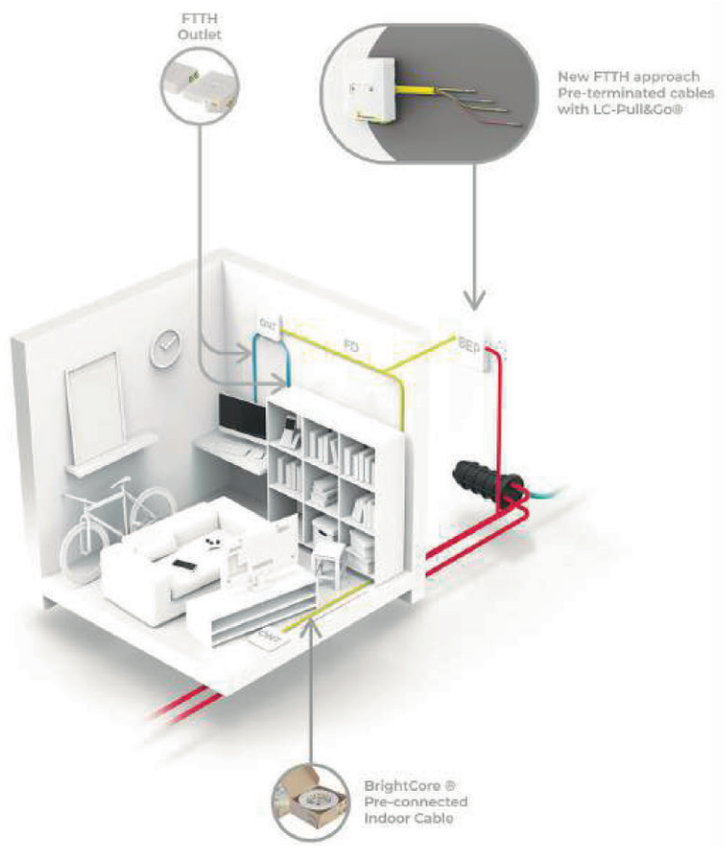
For quick installation Jetting (Blowing)-, pull- or push-installation in FTTH applications.

Background: The use of pre-terminated cables generally saves time and money. For easy and fast connection between the BEP and the ONT, we propose a full pre- terminated assembly unit incl. the ONT panel.

The assemble can be blown-in, pulled or pushed from one side in one piece within minutes.
Available in the appropriate length, up to 140 m.
Simply click on the special connector housing after installation.

Benefit: Time & Money saving, no splicing and comprehensive testing is required after the installation.

The connectors **LC-Pull&Go®** and **SC-Pull&Go®** are the core elements of the innovative FTTH pre-term-soluti- on. Their detachable housing makes it possible to pre-termin- ate the fiber optic cable and mount the housing after pulling, pushing or blow-in the cable assembly.



↓ Case Studies

The cable assembly-set consists of the following components:

- Novobit ONT Module pre-connected
- FTTH BrightCore® Ø 2.5 mm cable, with e.g. G.657.A1 fibers. Variants with 2 or 4 fibers available.
- End-A: LC-Pull&Go® or SC-Pull&Go® with protected ferules ready to blow-in or push/pull through the Micro-Duct. Connectors are possible.
- Option: Both ends pre-terminated

On site, a Micro-Duct with smooth inner wall is required between the BEP and the ONT.

- Ø 10/6 mm recommended for 4 fibers/connectors
- Ø 7/4 mm recommended for 2 fibers/connectors

Qualification & Performance of the LC-Pull&Go® pre-terminated cable assembly

The performance of Novobit's solution has been validated by a recognised certification lab in Germany and features the following performance data:

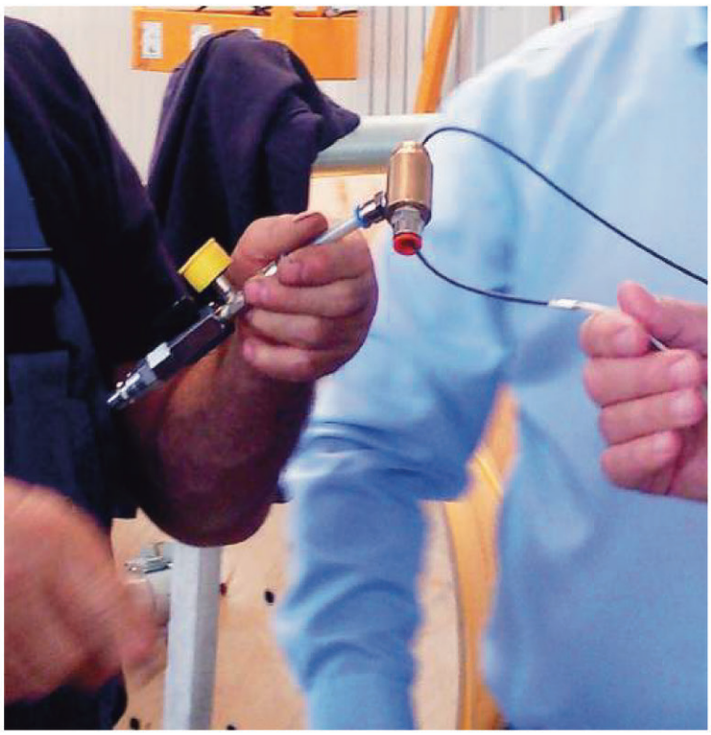
Injection length with air pressure:	>144 m
Injection length without air pressure:	>30 m
Injection speed 4 fibers/connectors:	80 m/min
Injection speed 2 fibers/connectors:	120 m/min

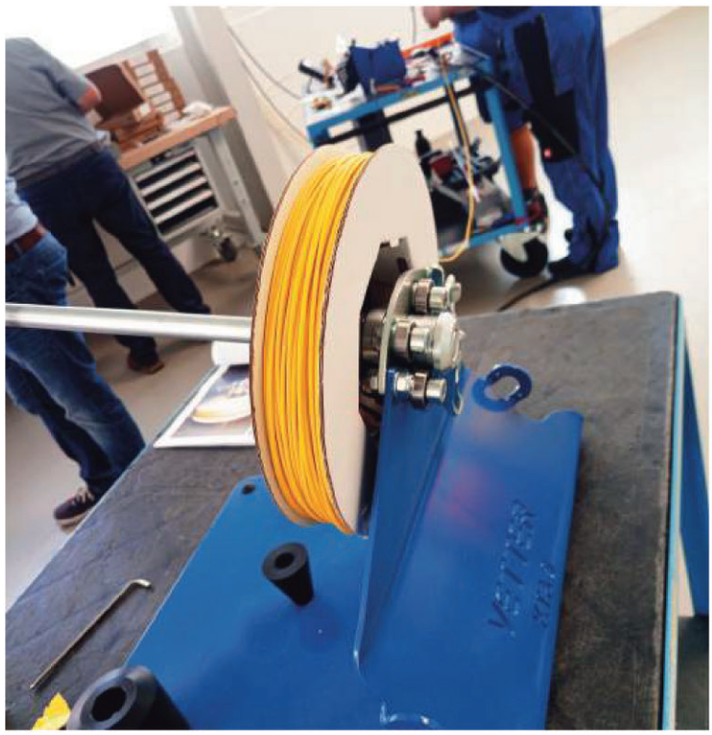
In all test series, the cable could be completely reeled in. The difficulty of the test duct section was medium-high and the cable could be blown out in one piece without any problems. The cable printing was still clearly legible afterwards.

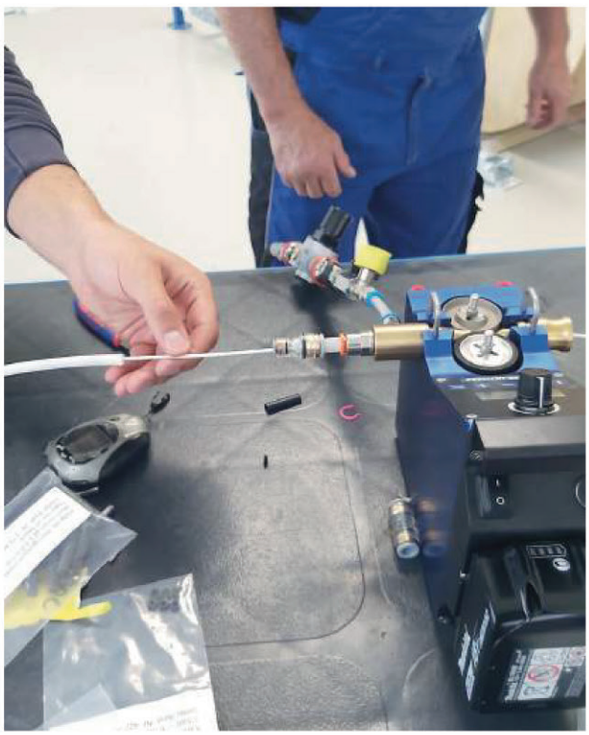
Blowing parameters:

	2 fibers / connectors	4 fibers / connectors
Air pressure	4…5 bar	2…3 bar
Thrust/contact pressure	20 N / 69%	20 N / 69%
Duct temperature	24 °C	21 °C

Impressions from the Certification of the FTTH Blow-In solution:







For more detail information, please contact our support engineers at info@novobit.ch.

↓ Case Studies

Multi Purpose 3U Cassette

3U/7HP cassette for 3U/84HP sub racks (EIA 310-D, IEC 60297).

Dimensions:	Width:	35.6 mm
	Depth:	235 mm
	Height:	133.35 mm (3U)

The device includes the following:

- Front plate for various adapter combinations, e.g. 12x SC or LCD flanged
- Rear plate with two slots for SC-, or LCD- flanged adapters
- Integrated splice cassette
- Protected fiber management module for the overlength

→ Figure 1: The 3U Multi Purpose Cassette

Launch-/Receive FO Reference Cable

Test fiber optic cable for OTDR measurement to be used as launch and/or receive cable. The cable is protected in the roll-housing with pullable ends. After usage the ends can be rolled in.

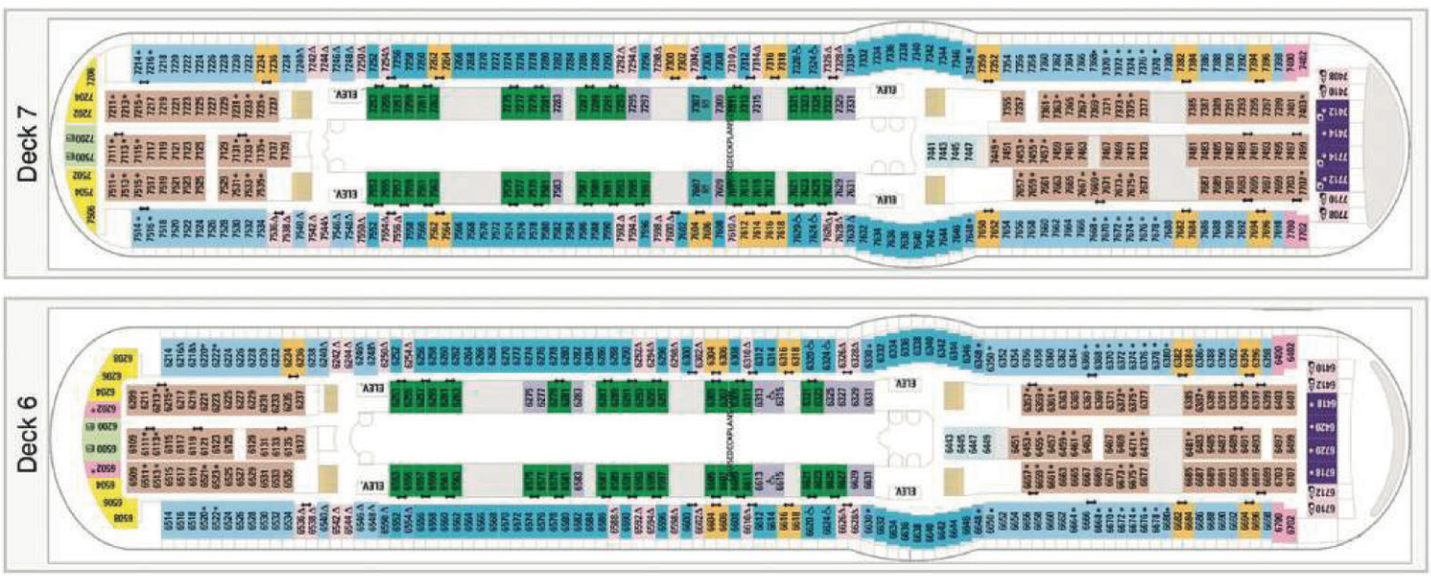
Fix cable:	200 m customisable.
Pullable ends:	1.2 m each, steel armored.
Fibre:	Any ITU standard
Connectors:	Any standard connector

→ Figure 2: OTDR Test Cable with protection housing

Pre-connectorized Break-Out Assemblies for Cruise Ships

The Challenge:

Modern cruise ships set trends in both environmental technologies and in terms of communication on board. Here is a short list of customers' expectations:
Fast internet, Short latency times, Higher network bandwidth for more parallel running applications incl. gaming, HiRes TV etc.
The cruse ship designers also have expectations like:
Eliminating interferences from ship infrastructure - motors, air-conditioners, compressors, fans etc. saving space and weight in the pipes and cable trays.
A fast and secure installation. Being ready for the techno- logy challenges of the coming 15 to 20 years.
The extent of these challenges becomes more apparent if we consider that cruise ships range from 500 to 2500 staterooms.

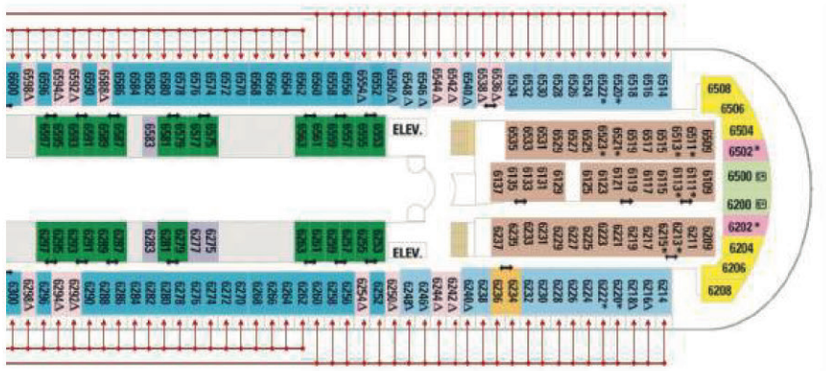


→ Figure 3: Layout of two of total 15 decks of a 1900 staterooms modern cruise ship.

↓ Case Studies

Our solution:

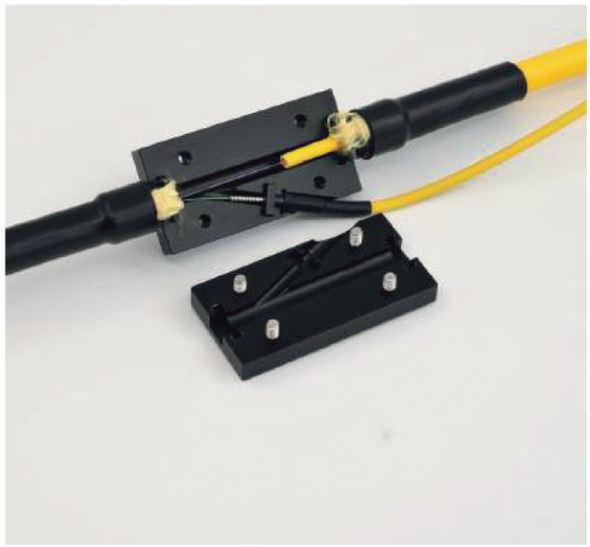
A special assembly using a fiber-optic Break-Out Trunk cable with Ø 9.8 mm, 24 branches as FTTS (Fiber to the Stateroom). The cable supplies up to 24 cabins. The total length of each assembly is practically unlimited.



→ Figure 4: 24 staterooms connected with one FO Trunk cable.

The central feature of our solution is the metal junction y-piece with the following properties:

- Protects the fibers
- Maintains the specified tension force of the cable over the total length and allows safe pulling
- Provides strain relief for the steel armored fiber branch



→ Figure 5: Assembly with 24 FO LC/APC and 24 junction T-pieces with Break-Out branches and LC/UPC. Total length 100m

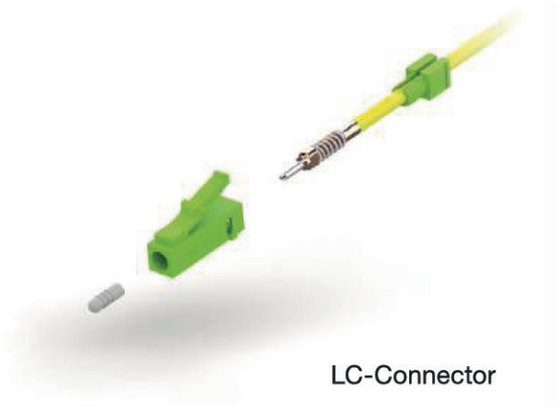
Benefits:

- Needs 80 % less space in cable trays
- Easy pull in one piece
- 90 % weight reduction
- Immunity against any radiation
- High bandwidth for current & future applications

→ Figure 6: Break-Out cable armored with LC/UPC

LC-Pull&Go® and SC-Pull&Go®

The LC/SC-Pull&Go® are connectors for optimizing work processes when installing fiber optic cables up to 24 fibers. The application can be made with outdoor and indoor cables.
The optical component of the LC/SC-Pull&Go® are pre-installed and ground as UPC or APC version.
After the cable has been **pulled in**, **pushed in,** or **blown in**, the connector housing and the locking device will be installed. Splicing of a few fibers at different locations becomes obsolete.
The connectors are available in LC spring-loaded, LC unspring-loaded and SC spring-loaded versions.



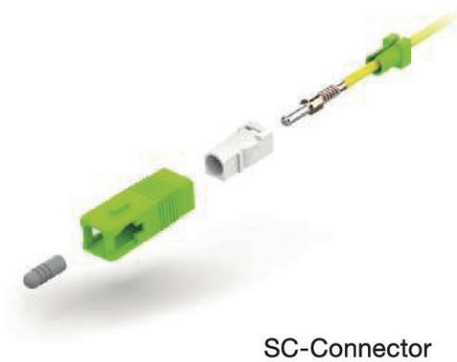
LC-Connector

Properties:

- Comply with the standards for

LC-Pull&Go® connector: IEC 61754-20
SC-Pull&Go® connector: IEC 61754-4

- High quality ceramic ferrules
- Mating cycles 500
- For SM-fibers 250 µm and 200 µm
- For fixed fibers 600 µm and 900 µm



SC-Connector

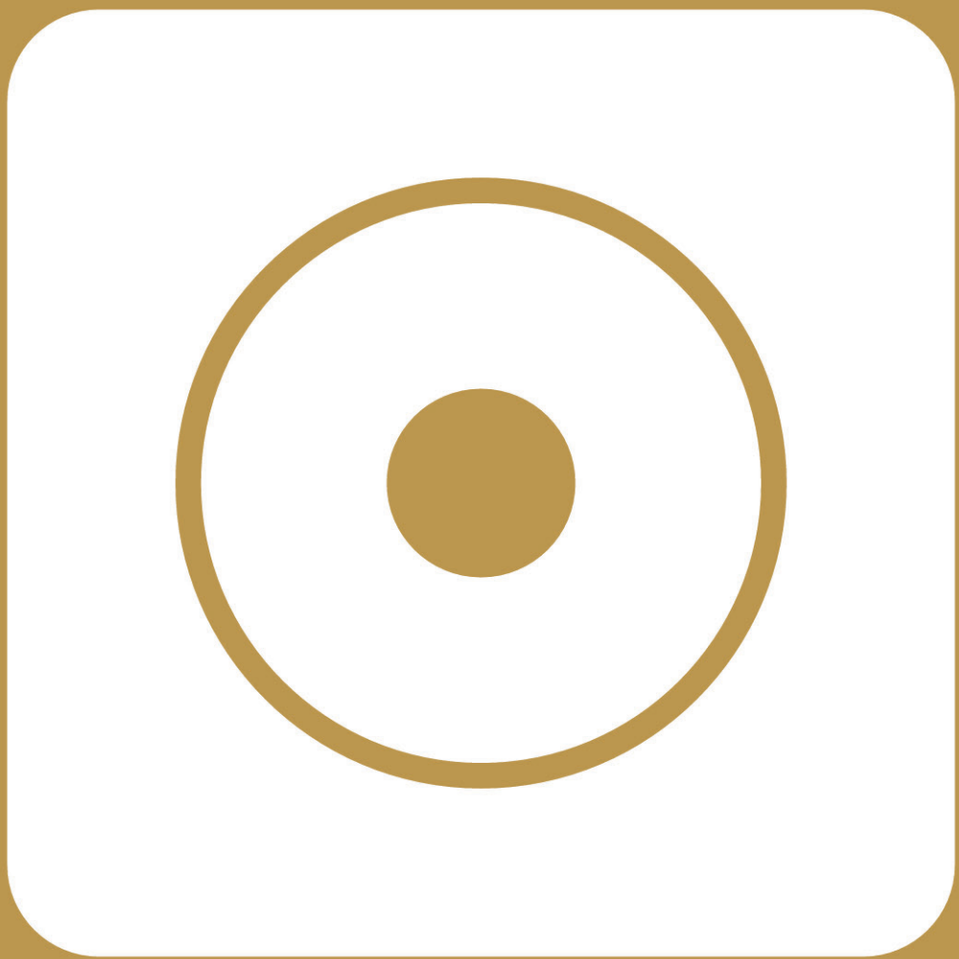
Cable configuration

The cable can be pre-assembled with LC- or SC-Pull&Go® on one or both ends. Fibers with customized stepped length are fitted with 600 µm or 900 µm furcation tubes.
Depending on the cable construction, aramid yarns or a central pulling element (FRP) can be used for pulling in.
Cables with suitable lengthwise stiffness are required for insertion.
Basically, the fiber whip is provided with a protective tube which can be easily removed before the connector housings are installed.

Area of application

Fiber optic cables must always be laid in protective tubes.
These can be microducts of sizes from 7/4 mm to 10/6 mm.
Protective tubes (corrugated tubes) are usually available with internal diameters of 13 - 16 - 20 mm.
The pre-installed connectors as well as the elements of the fiber whip that exceed the diameter of the cables must both be taken into account when choosing the protective tubes.


G17-39
G17-40
G17-41



INTERCONNECT

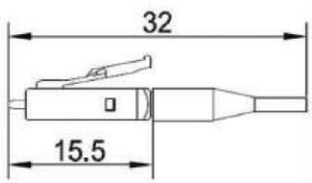
Boot

Novobit provides assemblies with the following options

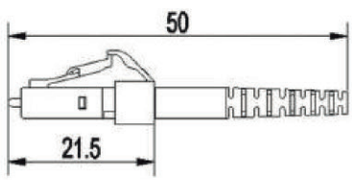
Short:	Used for pigtails, depending on cable thickness
Long:	Used for patchcords and assemblies, depending on cable thickness
Angular:	Angled boot
Flexible:	On request

Examples

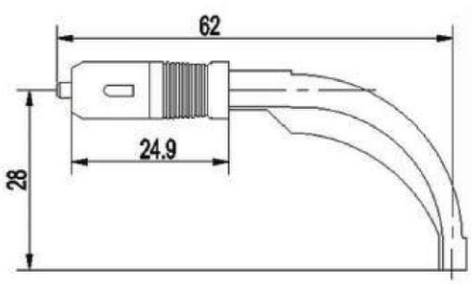
LC Short boot



LC Long boot



SC Angular boot



E-2000™ R&M (LSH)

E-2000™, officially known as LSH, is the latest version of DIN connectors. This connector with a snap coupling (push-pull) and floating ferrule and without lateral forces is excellent for difficult surroundings like railway tunnels, high-end transmission systems, etc. The unique metal dust cap also makes it safe for use with high power. Novobit currently offers all types of assemblies with Reichle de Massari's E-2000TM products.

For Singlemode Novobit offers Grade A, B and C and for Multimode grade B and M.

Connector	Simplex	Duplex	SM	MM	Grade
LSH/APC	●	●	●	○	A, B or C
LSH/UPC	●	●	●	○	A, B or C
LSH/PC	●	●	●	●	A, B, C (SM) & B, C (MM)

LC (Little or Lucent Connector) – licensed by OFS

The LC connector (developed by Lucent) with a 1.25 mm ceramic ferrule and a snap (push-pull) coupling, is the most widely used SFF (Small Form Factor) connector in today's datacom networks and other high-density patch applications. Novobit is an official licensed LC manufacturer and meets international standards IEC 61754-20 / TIA 604-10 as well as being RoHS/REACH compliant.

Available with or without a duplex clip.
http://lcalliance.net/licensees/licensees.asp

For singlemode Novobit, with its patented 12-steps tuning process together with 30 degrees tunable connectors, offers grade A, B and C and for multimode Grade B and M.

Connector	Simplex	Duplex	SM	MM	Grade
LC/APC	●	●	●	○	A, B or C
LC/UPC	●	●	●	○	A, B or C
LC/PC	●	●	●	●	A, B, C (SM) & B, C (MM)

LC Uniboot

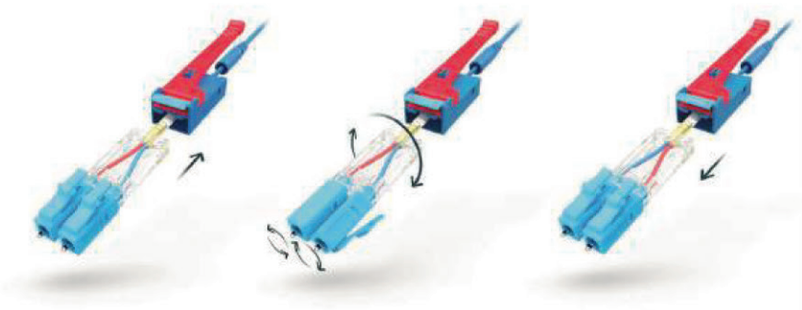
The Novobit Uniboot connector with push-pull mechanism and polarity flipping without tools is inter-mateable with all standard LC Duplex adaptors. It possesses clear markings to easily differentiate polarity A-A and A-B. Assembled with our Data Center BrightCore® duplex cable Novobit is able to offer ultra-thin LC Uniboot duplex patch cords (uni-construction) with only 1.4 mm cable diameter. The reduction in cable diameter allows for improved air circulation and accessibility. The LC Uniboot connector is tunable and available in single-mode and multi-mode.

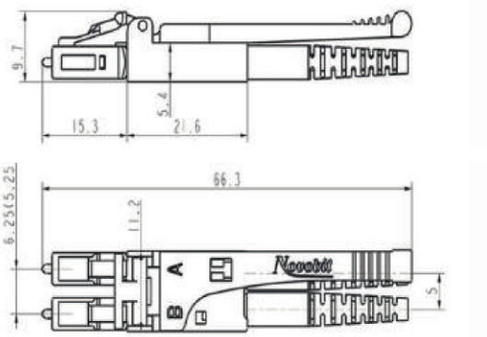
The LC Uniboot connector is equipped with an extended, rigid lever and an innovative push-pull mechanism. The connector has the following main features: Push-pull mechanism: easy patching even in highest- density packaging.

- Polarity flipping without any tools
- Tuneable connectors: ensure excellent optical performances
- For cables of 1.4 mm to 2.4 mm diameters
- Horizontal sliding connectors: compatible with standard and mini LC adaptors or transceivers
- Sophisticated design for easy termination

Novobit 30-degree step tuning

The ferrule can be positioned into 12 different positions offering 30° step tuning. This unique patented process and product enables Novobit to supply grade A connectors.





The Novobit LC Uniboot connector-kit meets category E for extreme environments and may be used between -40 and +85 °C. The LC Uniboot connector is available in single-mode (PC and APC) and multi-mode. It meets international standards IEC 61754-20 / TIA 604-10 and RoHS/REACH compliant. All LC assemblies are compliant to performance standards IEC-61753, IEC 61754-4, IEC 61755-3-1.

Connector	Simplex	Duplex	SM	MM	Grade
LC-U/APC	●	●	●	○	A, B or C
LC-U/UPC	●	●	●	○	A, B or C
LC-U/PC	●	●	●	●	A, B, C (SM) & B, C (MM)

SC (Standard Connector)

The SC connector with a 2.5 mm ceramic ferrules and snap (push-pull) coupling is one of the most commonly used in many Telecom and Datacom applications. Because of its excellent performance, it is one of the most used connectors and is ideally suited for datacom and Telecom applications including point to point and passive optical networking. Novobit SC connectors meet international standards IEC 61754-4 / TIA 604-3 and are RoHS/REACH compliant.

For singlemode Novobit, with its patented 12-step tuning process together with 30 degrees tunable connectors, offers grade A, B and C and for multimode grade B and M.

Connector	Simplex	Duplex	SM	MM	Grade
SC/APC	●	●	●	○	A, B or C
SC/UPC	●	●	●	○	A, B or C
SC/PC	●	●	●	●	A, B, C (SM) & B, C (MM)

MPO/MTP®

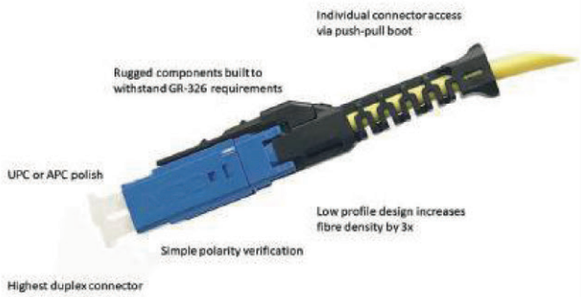
High-quality assemblies with MTP connectors from US Conec (MTP® Standard, MTP®Elite and MTP®PRO) and MPO connectors from Senko with Novobit's high-quality 12f. or 24f. Micro-Distribution cables.

MDC (ELiMENT™ Connector)

The ELiMENT™ MDC connector of US Conec is a Very Small Form Factor (VSFF) duplex optical connector designed for termination of multimode and singlemode fiber cables up to 2.0 mm in diameter. The MDC connector is manufactured with proven 1.25 mm ferrule technology used in industry standard LC optical connectors, meeting IEC 61753-1 grade B insertion loss requirements.

Features:

- Two 1.25 mm ferrules in one connector housing
- Push-pull boot for connector insertion and extraction
- Simple polarity reversal with no exposed fibers
- Meets IEC 61753-1 Grade B insertion loss requirements
- Telcordia GR-326 and TIA-568 compliant
- Designed for cables up to 2.0 mm OD
- MM, SM and SM APC available
- 3x fiber cabling density over LC



Quick and Simple Polarity Reversal

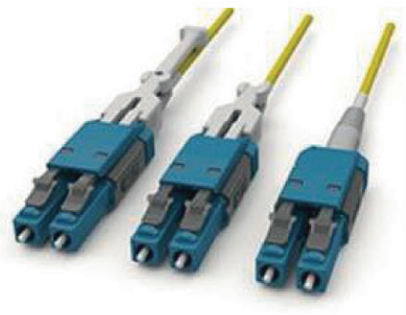
The polarity reversal of the MDC connector is effortless and does not expose or twist delicate fibers during the process. To change polarity, pull the boot from the connector housing, rotate the boot 180 degrees, and reassemble the boot assembly back onto the connector housing. Polarity marks on the top and side of the connector provide notification of reversed connector polarity.

Backwards Compatible Adapters

2-port and 3-port adapters are designed to fit through the same panel cutout defined for duplex LC adapters, allowing an instant 2x or 3x of the current module/panel connector density by simply removing the LC duplex adapters and installing the MDC adapters.

New Seikoh Giken Uniboot

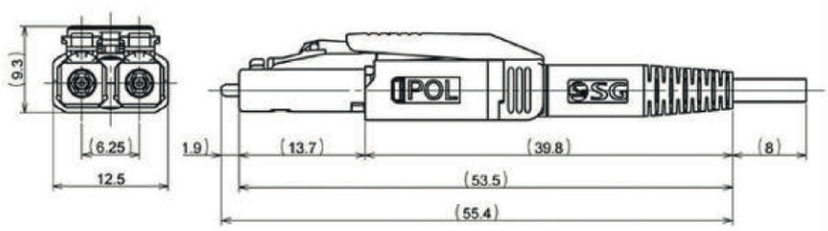
Intelligent-Cross Pro LC Uniboot connector with an ultra compact, low-profile form factor, the Intelligent-Cross Pro LC Uniboot connector incorporates a proprietary, patented micro-gear mechanism that “intelligently” syncs the A-B housing keys during polarity reconfigurations. The Intelligent-Cross Pro LC Uniboot connector requires less space to be installed with a push-pull mechanism.



Main Features

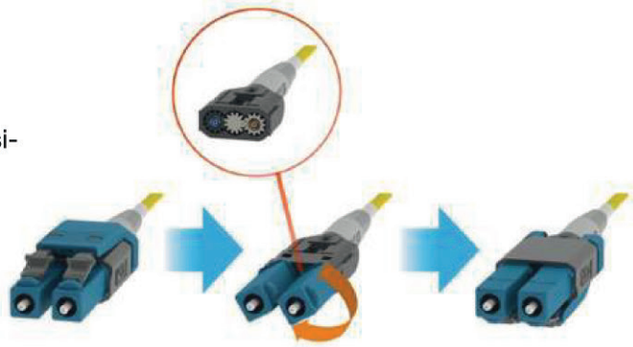
- Quick, Easy & Safe polarity reverse also for APC with no tool required
- Ultra-high dense installation with low profile and optional Push-pull Tool
- Fast & Easy polishing, both PC and APC Duplex
- Applicable for Ø 2 mm & Ø 3 mm jacketed cable

Dimensions

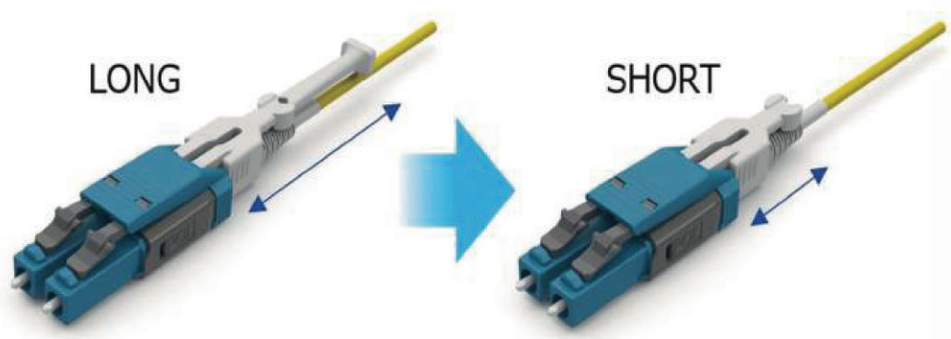


Uniqueness A-B Polarity Reverse

Two plug frames synchonously rotate in the patentented micro gear that is integrated in the connector. Speedy, easily, and safety are feasible in field operations.



Adjustable length Push-Pull tool



↓ Connectors

FC (Ferrule Connector)

The FC connector with screw coupling was the first connector with a floating ferrule and a tuning feature securing reliable connections. It is used on test equipment, where a good quality connection is required rather than fast disconnect/connect functionality. It is highly recommended for use in laboratories due to its construction and reliability.

A 12-step tuninig process, together with 30° tunable connectors, allows Novobit to ensure optimal optical performance. Novobit offers grade A, B and C for singlemode, and grade B and M for multimode.

Connector	Simplex	Duplex	SM	MM	Grade
FC/APC	●	○	●	○	A, B or C
FC/UPC	●	○	●	○	A, B or C
FC/PC	●	○	●	●	A, B, C (SM) and B, C (MM)

ST (Straight Tip Connector)

ST connector (developed by AT&T) also called BFOC 2.5, the Bayonet fiber optic connector 2.5 mm, has a simple design targeting datacom network applications. The ST family has been one of the most commonly used connectors in networking applications, but, due to its construction in which ST-1 connectors can easily be pulled out of contact and have inherent transversal force problems, it has been replaced by SC and LC connectors.

Novobit offers grade C (pre-tuned) for singlemode and grade M for multimode.

Connector	Simplex	Duplex	SM	MM	Grade
ST/APC	●	○	●	○	C
ST/UPC	●	○	●	○	C
ST/PC	●	○	●	●	C (SM) and C (MM)

MU (Miniature Unit)

The Small Form Factor MU connector is a mini version of the SC connector, with a 1.25 mm diameter zircona ferrule. It was developed by NTT for high fiber count networks in populous cities in Japan. The Novobit MU connector has a simple push-on connect/disconnect and is suitable for high density optical interconnect. It can be assembled with all of the Novobit optical cables for assemblies.

For singlemode, Novobit offeres grade C an B. For multimode, Novobit offers standard grade M quality and superior grade B quality for 40GbE and 100GbE solutions.

Connector	Simplex	Duplex	SM	MM	Grade
MU/APC	●	○	●	○	B or C
MU/UPC	●	○	●	○	B or C
MU/PC	●	○	●	●	B, C (SM) and B, C (MM)

MTRJ (Mechanical Transfer Registered Jack)

The MTRJ is a small form factor duplex connector housing 2 fibers. The MTRJ adapter occupies the same space as a SC (simplex) adapter and two pins are used to align the connectors, with a male and female version. It is increasingly being used within high-density networking applications.

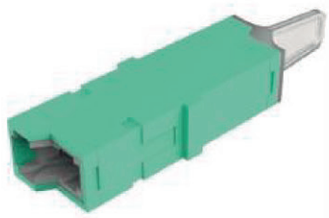
For singlemode Novobit offers grade B and C and for multimode grade B and M.

Connector	Simplex	Duplex	SM	MM	Grade
MTRJ/APC	○	●	●	○	B or C
MTRJ/UPC	○	●	●	○	B or C
MTRJ/PC	○	●	●	●	B, C (SM) and B, C (MM)

↓ Adapters and Attenuators

E-2000™ (LSH) Adapter

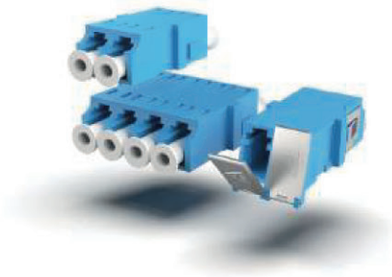
E-2000™, officially known as LSH, is the latest version of DIN connectors. This adapter is excellent for difficult surroundings like railway tunnels, high end transmission systems, etc. Novobit currently offers all types of assemblies with Reichle de Massari's E-2000™ products.



LC Adapter and Attenuator

The LC adapter is used in telecom and datacom applications. Novobit's LC adapters use split zircona sleeves.

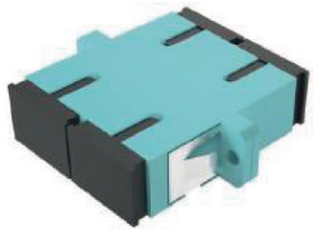
Novobit's LC attenuators use ceramic sleeves and ferrules. For Singlemode, Novobit offers grade B, attenuation levels 1–20.



SC Adapter and Attenuator

The SC adapter is used in many telecom and datacom applications. Novobit's SC adapters use split zircona sleeves.

Novobit's SC attenuators use ceramic sleeves and ferrules. For Singlemode, Novobit offers grade B, attenuation levels 1–20.



FC Adapter and Attenuator

The FC adapter with screw coupling is recommended in laboratories or test environments due to its construction and reliability. Novobit's FC adapters use split zircona sleeves.

Novobit's FC attenuators use ceramic sleeves and ferrules. For Singlemode, Novobit offers grade B, attenuation levels 1–20.

ST Adapter

ST adapter with simple design targeting Datacom network applications. Novobit's ST adapters use split zircona sleeves.

↓ Adapters and Attenuators

Fiber Optic Attenuators

Various connectors and dB-values.

Multi Fiber Adapters

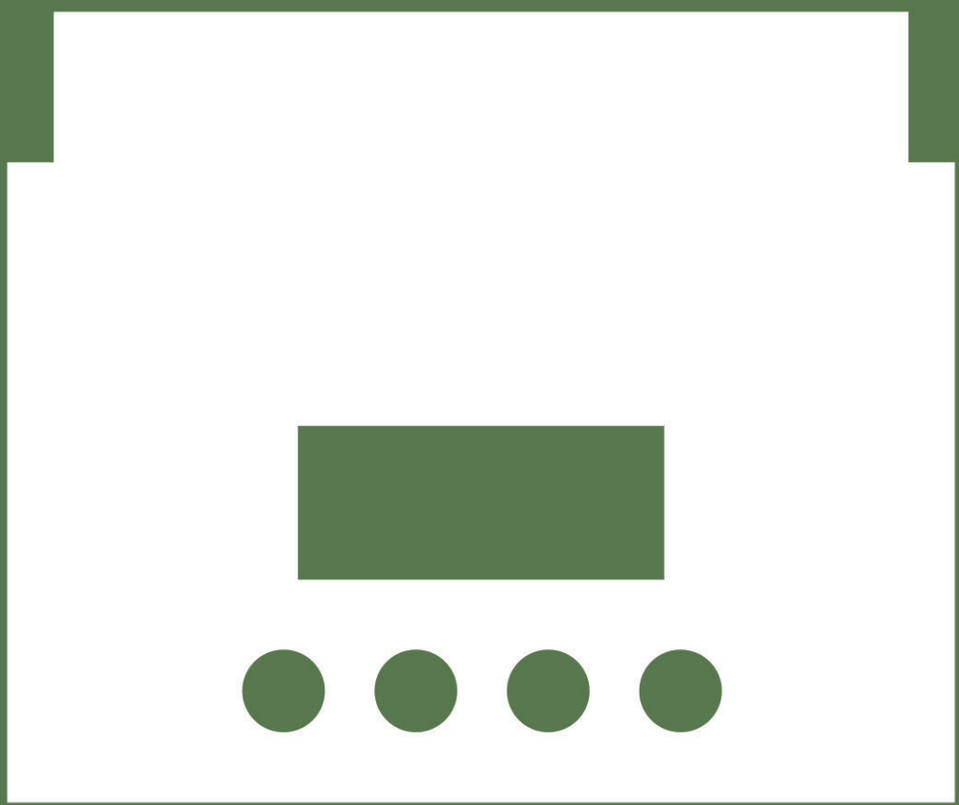
Novobit also offers the Multi-fiber adapters MTRJ and MPO/MTP.

MDC Adapters

MDC 2-, 3-, 4- & 6 Port adapter (duplex) variants.

Special:

2-port and 3-port adapters designed to fit through the same panel cutout defined for duplex LC adapters, allowing an instant 2x or 3x of the current module/panel connector density by simply removing the LC duplex adapters and installing the MDC adapters.



PRODUCTION EQUIPMENT

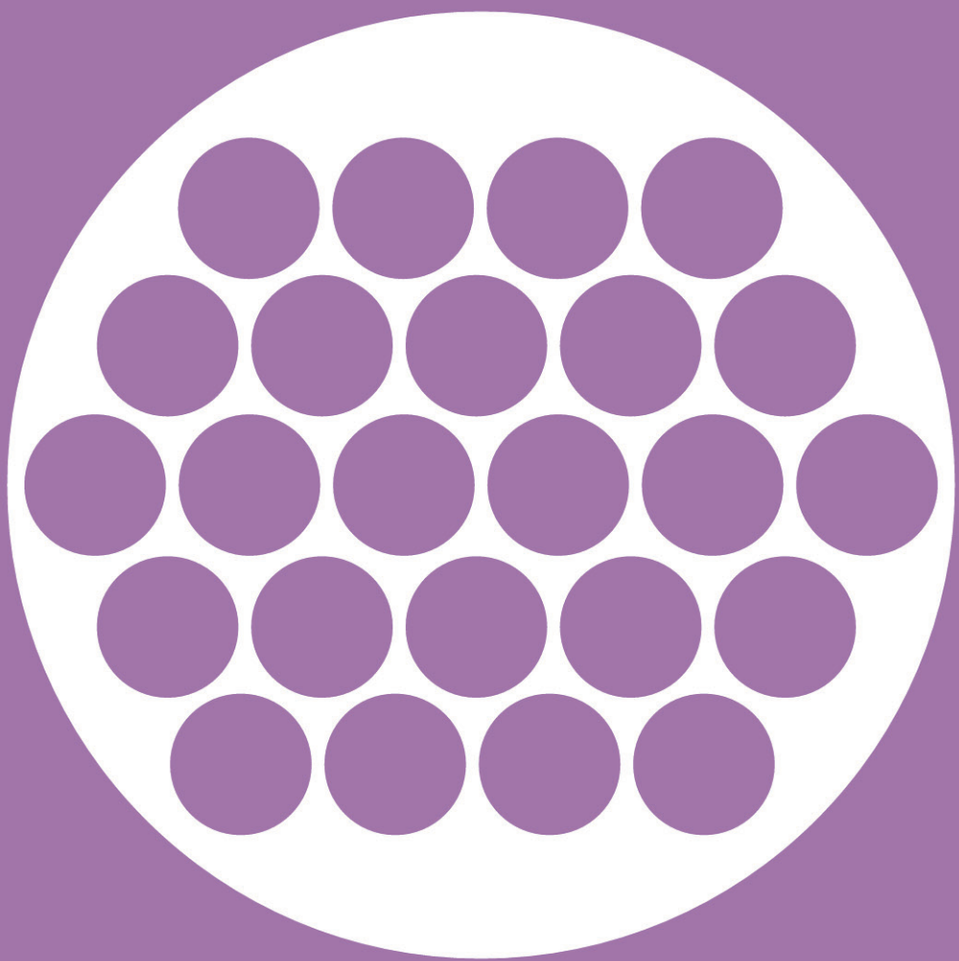
Heating Box

The GHL Fiber Heating Box is used to cure fiber optic connectors. Up to 24 or 48 connectors of all types can be cured simultaneously. The heating box uses a PID controller and a spring cover design to keep temperature precise and stable. The heating time can be set by a timer, and it also features an auto alarm function that sets off the alarm if the temperature is above the defined temperature.

Features:
High accuracy PID controller
Over-temperature alarm Timer
Spring lid for heat-preservation

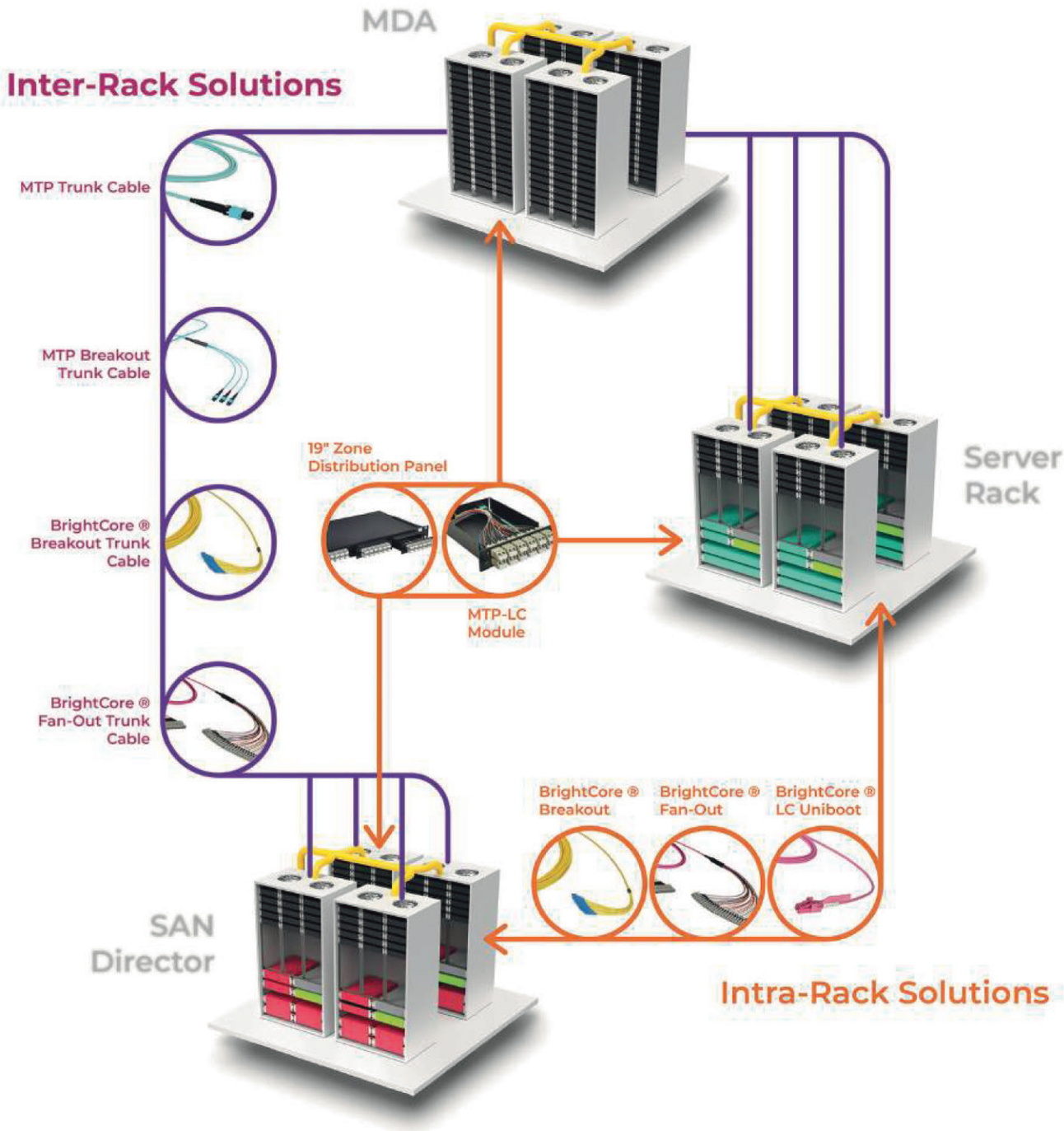
Specifications:
For all standard FO-connectors
Temperature Range 0–150 °C
Time range 5–240 min.
Power supply AC 230V or AC 110V
CE certified

Versions:
Horizontal, for 24 connectors
Vertical for 24 connectors
Vertical for 48 connectors
Horizontal and vertical for 48 connectors (only LC)



ASSEMBLIES

↓ Inter-Rack Solutions (Data Centers)



Novobit Assembly Products Benefits

Novobit is an ISO9001 and ISO14001 certified manufacturer, with 100 % incoming inspection, quality check during production and 100 % testing of the final products, assuring excellent performance. Novobit LC products are OFS licensed, ensuring a perfect fit and maintained warranty of the active devices.

Novobit's 30-degree, 12 step connector tuning patent improves the quality even further. Novobit can provide grade "A" pre-assembled SC, LC and LSH (E2000) products.

Pigtails and Patchcords

Novobit offers Singlemode or Multimode pigtails with 600 or 900 µm semi-tight buffered fiber cable, that are designed for pigtail applications where one cable end is factory-connectorized and the other end is field terminated. All connectors in Novobit's portfolio can be assembled as pigtails. Novobit also offers on-request tight buffered fiber cable for patch cord (as well as fanout and breakout) applications where both ends of the cable are factory-connectorized. Novobit's manufacturing and assembly process enables patchcords to be customized according to customer requirements.

The assembled products are compliant with IEC norms and produced according to the application, such as environment requirement, optical grade, and boot design to achieve the best fit.

Novobit's simplex cable is designed for pigtail and patch cord applications, with aramid yarn for strain relief and a Low Smoke Zero Halogen (LSZH) jacket (B2ca compliant). Novobit's Duplex zip cord cable, for applications that require simultaneous, bidirectional data transfer, consists of 2 simplex cables joined with a thin web. Each 0.9 mm (0.6 mm as option) is protected by aramid yarn and a LSZH outer jacket (B2ca compliant).

Additional options are steel spiral armor or LSZH universal (Indoor/Outdoor) jacket.

MPO/MTP Assemblies

Data center patch cables can be deployed to provide the connection between active equipment and patch panels or between different patch panels. They are easy to install (plug & play) and achieve high performance connectivity because of the factory assembly and testing.

- MTP male (with pins) or MTP female (without pins)
- Available in Singlemode and in Multimode
- Color codes: yellow (OS1/2), aqua (OM3), heather violet (OM4), lime green (OM5)
- Low smoke zero halogen (LSZH)
- Comply with IEC standards

MPO/MTP Assemblies (examples)

End-A	End-B	Qty fibers	Tube Ø	Cable Type
MPO/MPT	MPO/MPT	12f.	1.8 mm	NFC05AL03, Data Center FO Cable, NDC 1 x 12/250 Ø 3 mm
MPO/MPT	MPO/MPT	24f.	1.8 mm	NFC05AL03, Data Center FO Cable, NDC 1 x 24/250 Ø 3 mm
MPO/MPT	MPO/MPT	up to 16*12f.	2.0 mm	NFC05FL05, Breakout Cable, n x 12/250 Ø 7.0..11.8 mm
MPO/MPT	MPO/MPT	up to 8*12f.	3.0 mm	NFC05AL05, Breakout Cable, n x 12/250 Ø 9.0..13.5 mm
MPO/MPT	MPO/MPT	up to 8*12f.	2.8 mm	NFC06FL04, Breakout Cable, n x 12/250 Ø 9.0..13.5 mm

Pre-connected MTP-LC Fan-Out cables can be mounted as an integrated part in the MTP-LC DLX Module. This cable reduces the cable clutter and improves airflow within the module.

Inside a module, the MTP connector of the Fan-Out cable is plugged into the MTP adapter and the LC connectors into the LC adapters.

Fan-out cable is pre-terminated (with 1 MTP connector and 12/24 LC connectors) and 100 % factory tested.

FO-Cable Assemblies (examples)

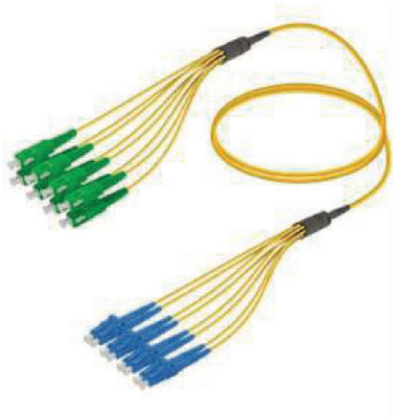
End-A	End-B	Qty fibers	Divider	Cable Type
MPO/MPT	LC(-Uniboot) SC(-Uniboot) MDC-Uniboot	12f.	1 x 12f.	NFC05AL03, Data Center FO Cable, NDC 1 x 12/250 Ø 3 mm
MPO/MPT	LC(-Uniboot) SC(-Uniboot) MDC-Uniboot	24f.	12f. or 24f.	NFC05AL03, Data Center FO Cable, NDC 1 x 24/250 Ø 3 mm
MPO/MPT	LC(-Uniboot) SC(-Uniboot) MDC-Uniboot	up to 16*12f.	n x 12f.	NFC05FL05, Breakout Cable, n x 12/250 Ø 7.0..11.8 mm

Fan-Out Assemblies

Pre-terminated fan-outs simplify installations in the field. Novobit can provide and assemble any type of configuration on the connector side, eliminating the need for splicing.

Fan-Out assemblies are available with all of the connectors in Novobit's portfolio, as well as with Senko, Seikoh Giken, US Conec or R&M's connectors.

Novobit can provide a selection of dividers depending on the form factor and the amount of fibers (up to 48 fibers), with 600 µm or 900 µm tube, ensuring full protection of the fan-out in combination with our pulling aids and packaging systems.



24f. Ø 900 µm	12f. Ø 1.8 mm	24f. Ø 1.8 mm	48f. Ø 1.8 mm
			
Dimensions housing: Ø 10*36 mm **Material:** Plastic **Cable diameter:** 2.8 mm **Capacity:** 24 x Ø 0.9 mm	**Dimensions housing:** 30*14*10 mm **Material:** Steel **Cable diameter:** 6.5 mm **Capacity:** 12x Ø 1.8 mm	**Dimensions housing:** Ø 20*66.5 mm **Material:** Steel **Cable diameter:** 9 mm **Capacity:** 24 x Ø1.8 mm	**Dimensions housing:** Ø 24*65 mm **Material:** Steel **Cable diameter:** 12 mm **Capacity:** 48 x Ø 1.8 mm

Break-Out Assemblies

Preassembled Break-Out cables are preferred to Fan-Out cables in harsh environment applications and when increased mechanical properties are required. Break-out cables are also economically more attractive for short distance applications. Novobit offers up to 48 fiber Break-Out solutions with pull-in protection option.

Break-Out assemblies are available with all of the connectors in Novobit's portfolio, as well as with Senko, Seikoh Giken or R&M's connectors.

Break-Out cables are available with 1.4 mm, 1.7 mm or 2.0 mm simplex cables. For information about available Break-Out cables, please see section "Fiber Optic Cables".

FO-Cable Assemblies (examples)

End-A	End-B	Divider	Cable Type
MPO/MPT	LC(-Uniboot)	12f.	NFC05AL03, NDC 1 x 12/250 Ø 3 mm
MPO/MPT	SC(-Uniboot)	12f.	NFC05AL03, NDC 2 x 12/250 Ø 3 mm
MPO/MPT	MDC(-Uniboot)	12f.	NFC05AL02, NDC 1 x 12/250 Ø 4 mm
MPO/MPT	MPO/MPT	Shrink Tube	NFC05AL02, NDC 2 x 12/250 Ø 4 mm
MPO/MPT	MPO/MPT	Shrink Tube	NFC05AL05, n x 12/250 Ø 2 mm
---	MPO/MPT	Shrink Tube	NFC05AL05, n x 12/250 Ø 2 mm
---	LC(-Uniboot)	12f.	NFC05AL06, n x 12/250 Ø 1.6 mm
---	SC(-Uniboot)	12f.	NFC05AL06, n x 12/250 Ø 1.6 mm
---	MDC(-Uniboot)	12f.	NFC05AL06, n x 12/250 Ø 1.6 mm
LC(-Uniboot)	LC(-Uniboot)	12f.	NFC05AL06, n x 12/250 Ø 1.6 mm
SC(-Uniboot)	SC(-Uniboot)	12f.	NFC05AL06, n x 12/250 Ø 1.6 mm
MDC-Uniboot	MDC(-Uniboot)	12f.	NFC05AL06, n x 12/250 Ø 1.6 mm

↓ FTTH Assemblies

Wall mounted FTTH Outlet

Novobit's wall mounted FTTH Outlet is used for termination of the residential/office cabling or splicing at the Building Entry Point (BEP). The outlet is designed for up to 4 low bend fibers, with flexible all side cable entry and fixation system. Laser and dust protection for the adapters/connector interfaces and retainers for shrink and splice protection. It is delivered with fixation screws.

- Up to 2 SC simplex or 2 LC duplex
- Individual cover labeling

Dimension:

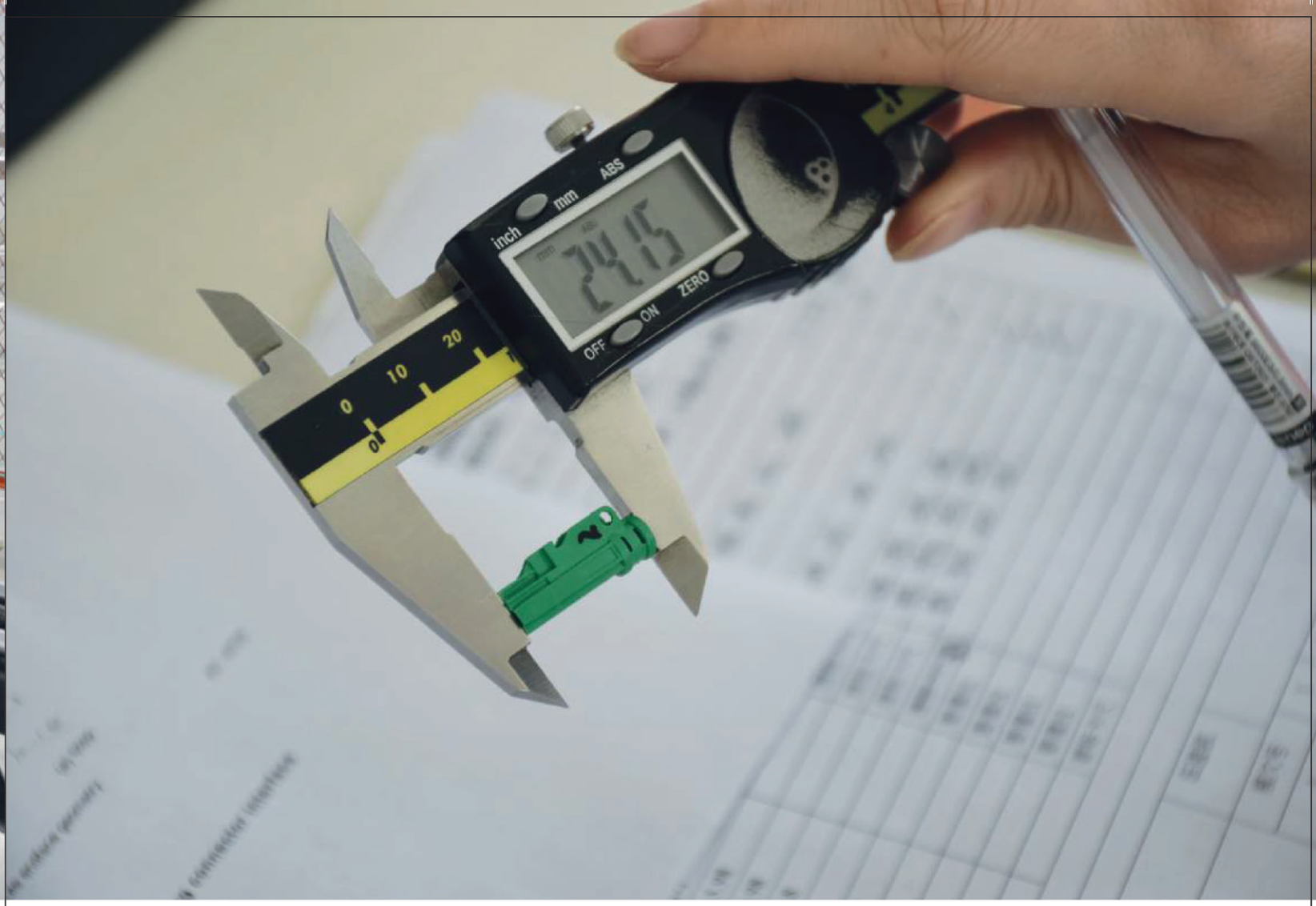
- 100x80x25mm or 86x86x25mm

Pizza-Box Wall mounted FTTH Outlet, pre-terminated

Novobit's Pizza-Box pre-terminated FTTH Outlet is used for quick, easy and high-quality termination of the residential/office cabling. The outlet, placed within the cardboard drum, is designed for up to 4 low bend fibers, with flexible all-side cable entry and fixation system. Laser and dust protection for the adapter/connector interfaces and retainer for shrink and and splice protection are included. It is delivered in a small Pizza-Box with up to 200 m of Novobit's FTTH Indoor cable and fixation screws.

Options:

- Up to 2 SC simplex or 2 LC duplex
- Length (and color) of FTTH Indoor cable
- Individual cover labeling
- Small or large size of cardboard drum


inch
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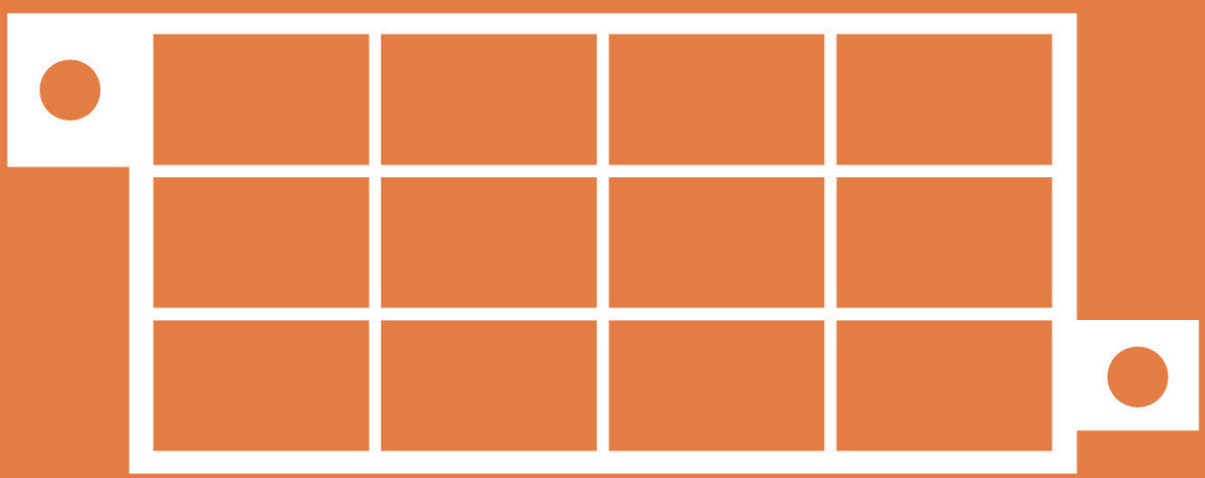
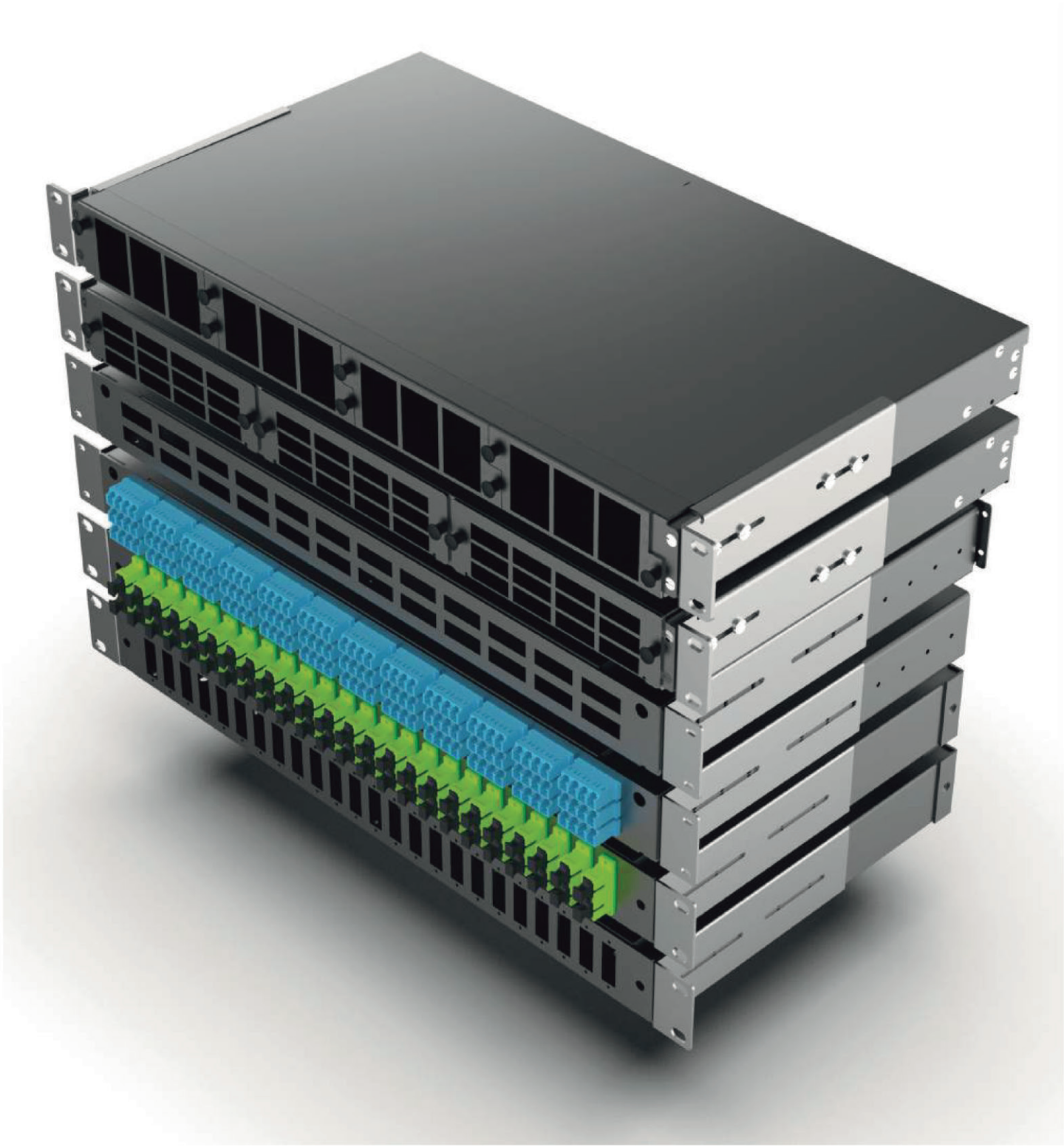


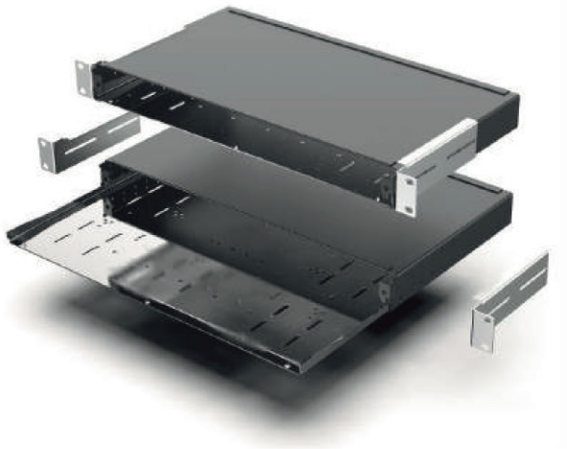
FIBER MANAGEMENT

↓ Fiber Panels and Cassettes



↓ Fiber Panels for Assemblies

Optical Distribution Panels with a push and pull drawer enabling easy access and high capacity in a slim design.



Height: 1U high
Width: 19”
Depth: 240 mm
Recessed: 55 mm max. continuously adjustable
Material: Sheet steel 1 mm
Color: RAL 9005 (black) powder coated
other colors on request
Standards: EIA-310D and IEC 60297 compliant
Pull-able drawer
Rear plate with 4 orifices for cable entry where of 2 knock-out.

NPC01-24

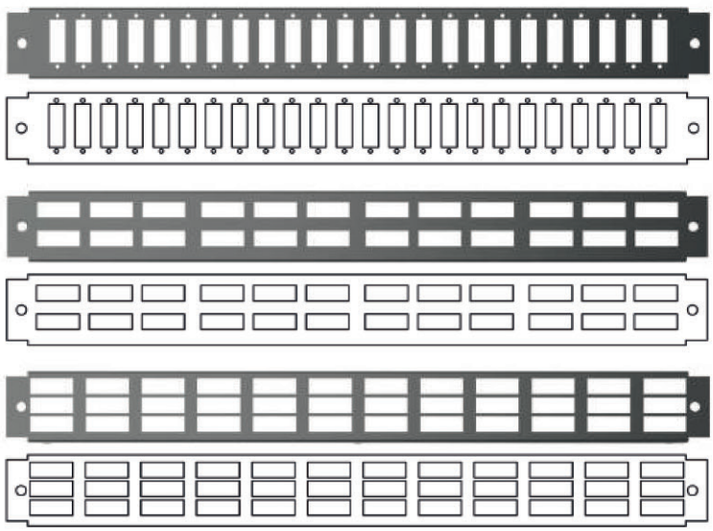
Front for 24 x SC Duplex, or 24 x LC Quad adapters

NPC02-24

Front for 24 x SC Duplex, or 24 x LC Quad adapters

NPC03-36

Front for 36 x SC Duplex, or 36 x LC Quad adapters



Fiber Optic Splice Cassette:

Convenient installation kits, stackable,
capacity 12/24 fibers,

Packaging:

- 1x Splice tray
- 1x Splice tray cover
- 2x Splice holders each for 12 splice protectors

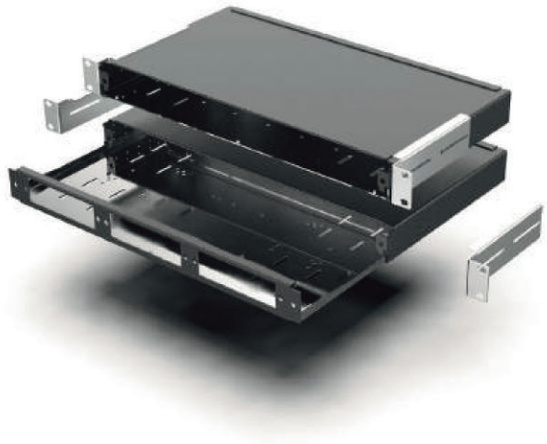
Accessories:

- Splice protectors
- Cable ties
- Mounting kit

Part No.	Name	Height	Width	Depth	Weight	Color
NPC-P1-BK	19” Panel	1U	19”	240 mm		Black RAL 9005
NPC01-24-BK	Front 24 x SCD, or 24 x LCQ vert.	1U	19”	-		Black RAL 9005
NPC02-24-BK	Front 24 x SCD, or 24 x LCQ hor.	1U	19”	-		Black RAL 9005
NPC03-36-BK	Front 36 x SCD, or 36 x LCQ hor.	1U	19”	-		Black RAL 9005
NSC01-12/24	Splice Cassette 12/24	10 mm	154 mm	91.5 mm	0.058 kg	Light Grey

↓ Fiber Panels and Cassettes for Assemblies

Panels hosting up to 3 individual pull able cassettes.
The purpose of the cassettes is to break the MTP connections into LC / SC connections (optionally it can be used for housing a splitter, s. **NPC04-48**). On the front side of each cassette there are LC/SC adapters and on the rear side there are two MTP adapters.

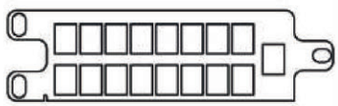


Height:	1U high
Width:	19”
Depth:	240 mm
Recessed:	55 mm max. continuously adjustable
Material:	Sheet steel 1 mm
Color:	RAL 9005 (black) powder coated other colors on request
Standards:	EIA-310D and IEC 60297 compliant

Rear plate with 4 orifices for cable entry where of 2 knock-out.

NPC04-48

Each cassette for 16+1 x SC or 16+1 x LC Duplex adapters plus 2 MPO, two at the rear plate and one at the front plate.



NPC05-72

Each cassette for 12 x SC Duplex or 12x LC Quad adapters plus 4 MPO at the rear plate.

NPC06-36

Each cassette for 12 x SC or 12x LC Duplex adapters plus 2 MPO at the rear plate.

↓ Fiber Panels and Cassettes for Assemblies

Part No.	Name	Height	Width	Depth	Weight	Color
NPC-P2-BK	19” Panel	1U	19”	240 mm	2.5 kg	Black RAL 9005
NPC04-48-BK	Cassette 16+1 SC or LCD, 2 MPO	1U	144/109.5 mm	-	0.5 kg	Black RAL 9005
NPC05-72-BK	Cassette 12 SCD or LCQ, 4 MPO	1U	144/109.5 mm	-	0.5 kg	Black RAL 9005
NPC06-36-BK	Cassette 12 SC or LCD, 2 MPO	1U	144/109.5 mm	-	0.5 kg	Black RAL 9005


XML-T6

CABLES & FIBERS

↓ Type Designation Code

NFC	CT	R	S	EE
Novobit **F**iber-Optic **C**able	**C**able **T**ype 01=Buffered Fiber 02=Simplex Cables 03=Duplex fig.8 Cables 04=Duplex fig.0 Cables 05=Data Center Cables 06=Micro Distribution Cables 07=Break-Out Cables 08=Riser/Mini Break-Out, Distribution Cables 09=FTTH Drop Cables 10=ADSS Cables 11=Multi Loose Tube Cables 12=FTTA Cables 1 13=Hybrid Optical/Power Cables	**R**einforcement A = Aramid yarn B = Glass yarn C = Steel spiral D = A & B E = A & C F = FRP G = F & A H = Hybrid N = None	**S**heath material L = LSZH U = UV resistant & LSZH P = HDPE R = HDPE & Rodent	**E**numeration

Construction Products Regulation (CPR - EU 305/2011)

From the 1st of July 2017, all fiber optic cables for fixed indoor usage between rooms (permanently installed within the building) within the European Union need to be CPR (Construction Product Regulation) certified.
The related Harmonized European Standard is the **EN 50575:2014+A1:2016**

According to this standard, the following criteria will be valuated: Heat of combustion, thermal release, vertical flame propagation, smoke generation, flaming droplets and acidity. The result of the valuation (test) defines the "Reaction of fire Performance" of the product and assigns it to one of the classes conforming to the Euroclasses **EN 13501-6** which are shown together with the additional classes in the related data sheets.

Typical Euroclasses are:

B2ca, Cca	Very limited or limited contribution to fire; cables/lines without continuous flame propagation; limited fire development and thermal release rate
Dca	Acceptable contribution to fire; products with continuous fire propagation; moderate fire development and thermal release rate
Eca	Normally flammable; cables and lines with acceptable fire behaviour which have flame-retardant characteristics when exposed to a small pilot flame

Additional classes are:

s.. for smoke generation (s1.., s2 and s3),
d.. for droplets (d0, d1 and d2
a.. for acidity (a1, a2 and a3)

Example: **B2ca-s1a,d0,a1**

Novobit has CPR Declaration of Performance (DoP) certificates for downloading on our website www.novobit.ch for the relevant products.
If one of the products is missing a CPR Declaration of Performance (DoP) certificates, please contact us for assistance at: info@novobit.ch.

Mechanical Properties of FO Cables – IEC 60794

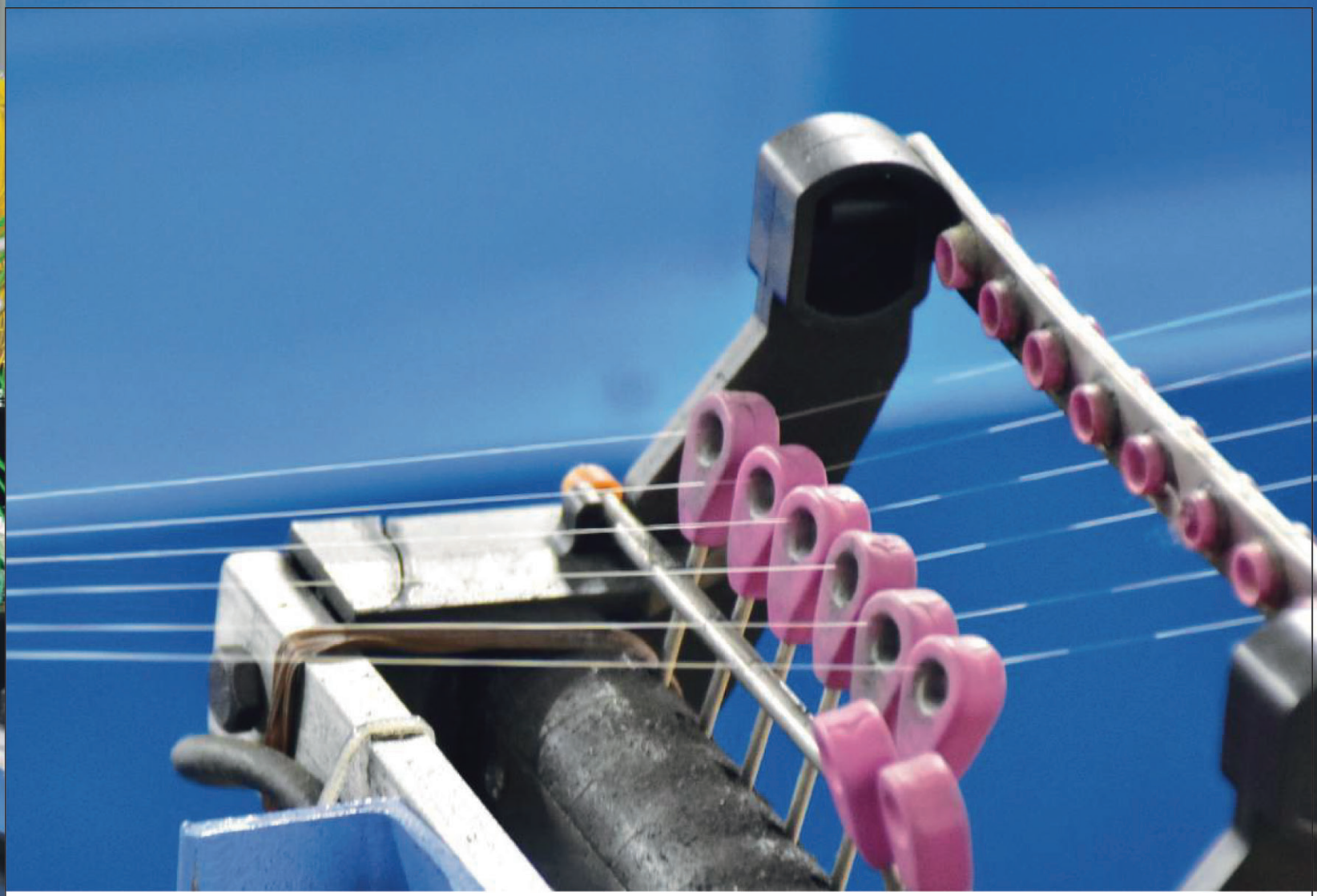
Hint to specifications in this document:

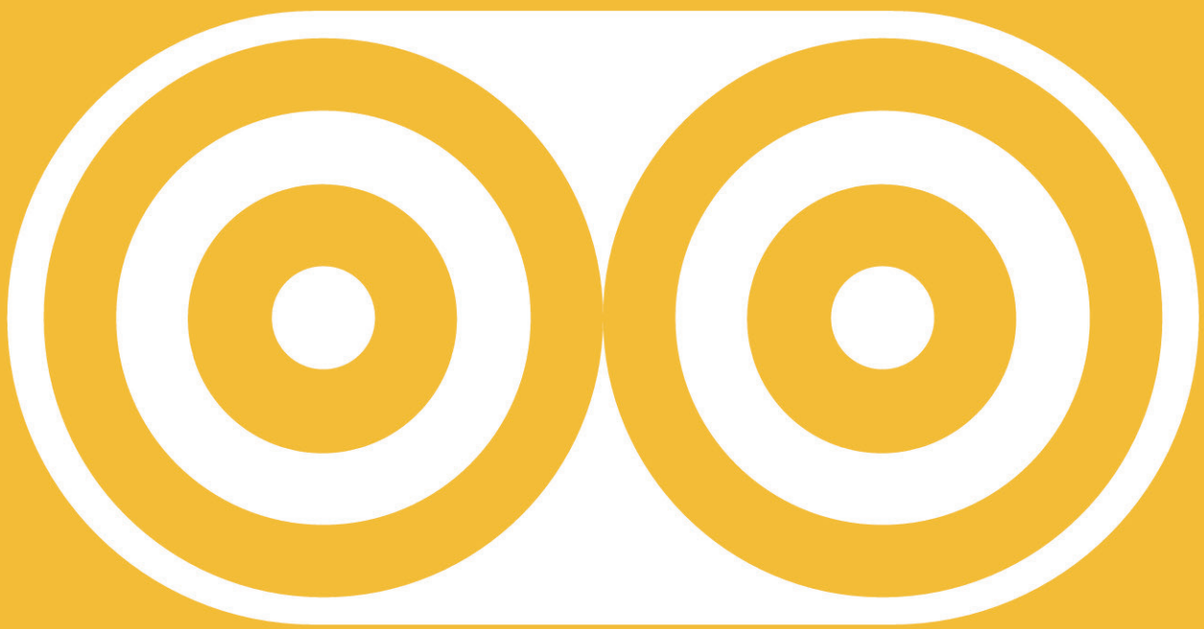
Tensile Performance (N)	IEC 60794-1-2 E1 The values given in this document are long term (service) ones. For the short-term (max.) values, please to the related data sheet from www.novobit.ch.
Crush Resistance (N/dm)	IEC 60794-1-2 E3 The values given in this document are long term ones. For the short-term load, refer to the related data sheet from www.novobit.ch.

↓ Optical Fibers

All cables are produced with fiber from Corning Inc.. The following types are offered:

Fiber type	Corning Product	Diameter (µm) Core/ Cladding/ Buffer
G.652.D / OS2	Corning® SMF-28e+® LL Optical Fiber	9/125/250
G.657.A1 / OS2	**Corning® SMF-28® Ultra Optical Fiber**	**9/125/250**
G.657.A2 / OS2	**Corning® ClearCurve® LBL Optical Fiber**	**9/125/250**
G.657.B3 / OS2	Corning® ClearCurve® ZBL Optical Fiber	9/125/250
G.655 / OS2	Corning® LEAF® Optical Fiber	9/125/250
OM1 (G.653)	Corning® InfiniCor® 300 fiber	62.5/125/250
OM2 (G.654)	Corning® ClearCurve® OM2 mm fiber	50/125/250
OM3	**Corning® ClearCurve® OM3 mm fiber**	**50/125/250**
OM4	**Corning® ClearCurve® OM4 optical fiber natural**	**50/125/250**
OM5	**Corning® ClearCurve® OM5 optical fiber natural**	**50/125/250**





INDOOR CABLES

↓ Buffered Fiber NFC01

Semi-tight buffered fiber (NFC01NL01)

Novobit's Semi-tight buffered fiber is designed for pigtail applications where one cable end is factory connectorized and the other end is field terminated. The Semi-tight buffered fiber can also be used as mini-patchcables within protected enclosures. It has a halogen free (LSZH) jacket with a 0.6 mm or 0.9 mm outer diameter, is highly flexible and easy to strip (over 1.5 m in one piece).

- Fiber core
- Cladding
- 250 µm primary coating
- 600 µm or 900 µm Low-Smoke-Zero-Halogen (LSZH) jacket

Part No.	Description	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC01NL01-0.6	Semi-tight 0.6 mm	1	1	0.6	0.55	10	250
NFC01NL01-0.9	Semi-tight 0.9 mm	1	1	0.9	0.9	10	500

Tight buffered fiber (NFC01NL02)

Novobit's Tight buffered fiber is designed for patchcables within distribution frames and termination boxes, in which one or both ends of the cable are factory-connectorized. The fiber has a thermoplastic LSZH secondary layer above the primary coating, with either a 0.6 mm or 0.9 mm outer diameter.

- Fiber core
- Cladding
- 250 µm primary coating
- 600 µm or 900 µm LSZH jacket

Part No.	Description	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC01NL02-0.6	Tight 0.6 mm	1	1	0.6	0.55	10	250
NFC01NL02-0.9	Tight 0.9 mm	1	1	0.9	0.9	10	500

↓ Simplex Cables NFC02

Simplex cable (NFC02AL01)

Novobit's Simplex cable, CPR class of performance B2ca-s2,d0,a1 is designed for pigtail and patchcord applications. It has a tight buffered fiber with a 0.9 mm (0.6 mm as option) outer diameter, aramid yarn for strain relief and a Low Smoke Zero Halogen (LSZH) jacket.

B2ca
CONSTRUCTION PRODUCT REGULATION

- 900 µm tube with 1 fiber
- Aramid yarn
- LSZH jacket

Part No.	Description	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC02AL01-1.4	Simplex 1.4 mm	1	1	1.4	2.1	100	500
NFC02AL01-1.7	Simplex 1.7 mm	1	1	1.7	2.9	100	750
NFC02AL01-2.0	Simplex 2.0 mm	1	1	2.0	4.0	200	1000
NFC02AL01-2.4	Simplex 2.4 mm	1	1	2.4	5.3	200	1000
NFC02AL01-2.8	Simplex 2.8 mm	1	1	2.8	7.8	200	1000

Simplex cable - Spiral Steel armor (NFC02CU02)

Novobit's universal Spiral Steel armor Simplex cable is designed for high mechanical unprotected environments. It is composed of a tight-buffered fiber with a 0.6 mm (0.9 mm as an option) outer diameter, protected by spiral steel armor, metal braid and kevlar. The outer jacket is made of a UV resistant LSZH material for both indoor and outdoor use.

- 600 µm (/900 µm) tube with 1 fiber
- Spiral steel armor
- Metal braid and kevlar
- UV resistant LSZH jacket

Part No.	Description	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC02CU02-2.5	Simplex Steel 2.5 mm	1	1	2.5	15	200	3000
NFC02CU02-2.8	Simplex Steel 2.8 mm	1	1	2.8	17	200	3000

↓ Duplex Cables NFC03

Duplex zip-cord (fig.8) cable (NFC03AL01)

Novobit's Duplex zip-cord cable, CPR class of performance B2ca-s2,d0,a1 for applications that require simultaneous, bidirectional data transfer, consists of 2 simplex cables joined with a thin web. Each 0.9 mm (0.6 mm as option) tight buffered fiber is strain relieved and protected by a LSZH outer jacket.

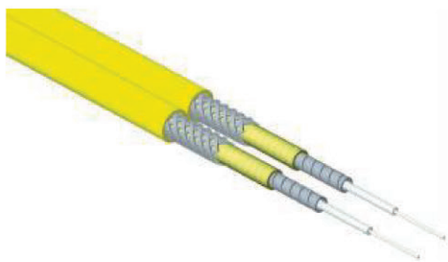
B2ca
CONSTRUCTION PRODUCT REGULATION

- 2x 900 µm tube with 1 fiber each
- 2x Aramid yarns
- 2x LSZH jacket

Part No.	Description	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC03AL01-1.4	Duplex zip 1.4mm	2	2	1.4x2.9	4.5	2x50	720
NFC03AL01-1.7	Duplex zip 1.7 mm	2	2	1.7x3.5	5.3	2x80	750
NFC03AL01-2.0	Duplex zip 2.0 mm	2	2	2.0x4.1	8.0	2x100	750
NFC03AL01-2.4	Duplex zip 2.4 mm	2	2	2.4x4.9	11.0	2x200	1000
NFC03AL01-2.8	Duplex zip 2.8 mm	2	2	2.8x5.7	13.6	2x200	1000

Duplex zip-cord (fig. 8) cable – Spiral Steel armor (NFC03CU02)

Novobit's universal Spiral Steel armor Duplex cable is designed for high mechanical unprotected environments. The cable consists of 2 simplex cables joined with a thin web. The simplex cables have tight buffered fibers with 0.9 mm diameter, protected by spiral steel armor, metal braid and kevlar. The outer jackets are made of a UV resistant LSZH material for both indoor and outdoor use.



- 2x 600 µm (/2x 900µm) tube with 1 fiber each
- 2x Spiral steel armor
- 2x Metal braid and kevlar
- 2x UV resistant LSZH jacket

Part No.	Description	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC03CU02-2.5	Duplex Steel 2.5 mm	2	2	2.5x5.1	30	2x200	3500
NFC03CU02-2.8	Duplex Steel 2.8 mm	2	2	2.8x5.7	34	2x200	3500

↓ Duplex Cables NFC04

Duplex (fig.0) cable (NFC04AL03)

B2ca

CONSTRUCTION PRODUCT REGULATION

Novobit's Duplex fig. 0 cable consists of 2 simplex cables. Each 0.9 mm (0.6 mm as an option) tight-buffered fiber is strain relieved and protected by a LSZH outer jacket. The two simplex cables with different colors are combined and strengthened by an outer LSZH jacket. CPR class of performance B2ca-S2,d0,a1.

- 2x 900 µm tube with 1 fiber
- 2x Aramid yarns
- 2x LSZH jacket (inner)
- LSZH jacket (outer)

Part No.	Description	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC04AL03-1.7	Duplex fig.0 – 1.7 mm	2	2	2.3 x 4.0	12	2 x 100	1000
NFC04AL03-2.0	Duplex fig.0 – 2.0 mm	2	2	2.6 x 4.6	16	2 x 100	1000
NFC04AL03-2.4	Duplex fig.0 – 2.4 mm	2	2	3.0 x 5.4	22	2 x 200	1000
NFC04AL03-2.8	Duplex fig.0 – 2.8 mm	2	2	3.4 x 6.2	28	2 x 200	1000

Duplex (fig.0) Universal cable – Spiral Steel armor (NFC04CU04)

Novobit's Universal Spiral Steel armor Duplex cable is designed for high mechanical unprotected environments. The cable consists of 2 simplex cables, each 0.9 mm (0.6 mm as option) tight buffered fiber is strain relieved, protected by spiral steel armor, metal braid and kevlar. The two simplex cables with different colors are combined and strengthened by an outer UV resistant LSZH jacket for both indoor and outdoor use.

- 2x 900 µm tube with 1 fiber
- 2x Spiral steel armor
- 2x Metal braid and kevlar
- 2x LSZH jacket (inner)
- UV resistant LSZH jacket (outer)

Part No.	Description	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC04CU04-2.5	DX Steel fig.0 – 2.5 mm	2	2	3.1 x 5.2	42	2 x 200	2500
NFC04CU04-2.8	DX Steel fig.0 – 2.8 mm	2	2	3.5 x 6.2	58	2 x 200	2500

↓ Data Center Cables NFC05

Uniboot Datacenter Duplex cable (NFC05AL01)

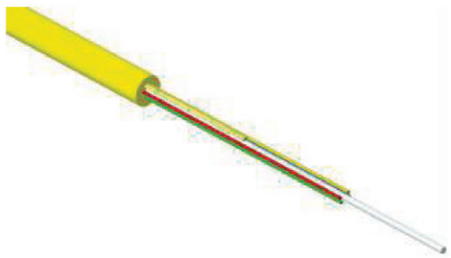
Novobit's Uniboot Datacenter Duplex cable is designed to be used with Senko and Seikoh Giken LC Uniboot connectors (2.0 mm or 3.0 mm boot) as patchcords or pigtails for high-density applications where space is tight, as in data centers or in distribution frames routing optical cables. It contains a 900 µm tube with 2 fibers, aramid yarn for strain relief and a Low Smoke Zero Halogen (LSZH) jacket.

- 900 µm tube with 2 fibers
- Aramid yarn
- LSZH jacket

Part No.	Description	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC05AL01-2	Datacenter Duplex, 2.0	1	2	2.0	3.0	100	200
NFC05AL01-3	Datacenter Duplex, 3.0	1	2	3.0	4.5	200	250

BrightCore® DataCenter Duplex cable (NFC05AL02)

Novobit's innovative BrightCore® Datacenter Duplex cable is extremely compact, much smaller than conventional duplex cables, whilst keeping a high level of performance and usability. It is designed especially for high-density applications where space is tight, as in data centers or in distribution frames routing optical cables. The BrightCore® Duplex round cables are made for direct LC Uniboot connector assembly.



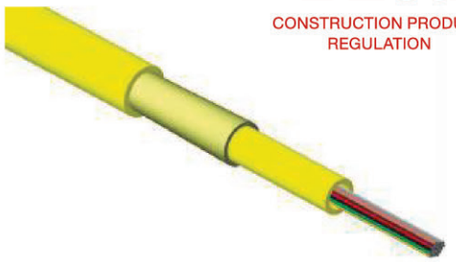
- 2 fibers
- Aramid yarns
- LSZH jacket

Part No.	Description	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC05AL02-1.4	BrightCore® DC Duplex	2	1.4	2.0	50	200
NFC05AL02-2	BrightCore® DC Duplex	2	2.0	3.0	100	200

↓ Data Center Cables NFC05

Micro Distribution cable for MPO/MTP, 12/24 fibers (NFC05AL03)

B2ca
CONSTRUCTION PRODUCT REGULATION



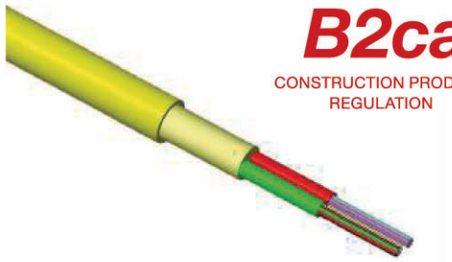
Novobit's MPO/MTP Trunk cable is designed to be assembled with MPO/MTP Elite connectors, with up to 24 optical bare fibers in one dry loose tube and CPR class of performance B2ca-s1,d0,a1 (2.2 mm) and B2ca-s1,d0,a1 (3.0 mm). The fibers are strain-relieved with aramid yarn and additional protection is provided by the outer LSZH jacket. The cable is available in a ø 3.0 mm version.

- Up to 24 bare fibers (250 µm) in a tube
- Tube diameter 1.8 mm
- Aramid yarn
- LSZH jacket

Part No.	Description	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC05AL03-4	NDC 4f 2.2 mm	1	4	2.2	8.5	250	1000
NFC05AL03-8	NDC 8f 3.0 mm	1	8	3.0	10.0	300	1500
NFC05AL03-12	NDC 12f 3.0 mm	1	12	3.0	8.5	300	1500
NFC05AL03-24	NDC 24f 3.0 mm	1	24	3.0	10.0	300	1500

Micro Distribution cable for MPO/MTP 2 x 12 Breakout 24f – CPR B2ca (NFC05AL04)

B2ca
CONSTRUCTION PRODUCT REGULATION



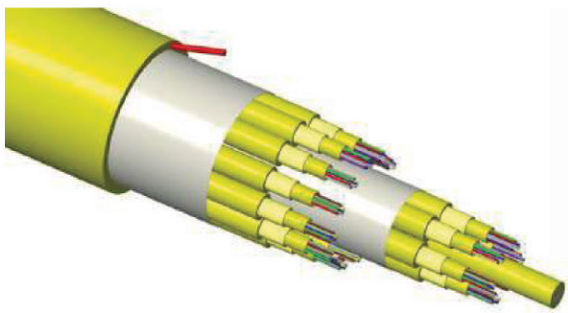
Novobit's Fan-out cable, CPR class of performance B2ca-s2,d0,a1, a slim design with 2 x 12 optical bare fibers in two tubes, optimal for 2 x 12f MPO/MTP assemblies. The fibers are strain-relieved with aramid yarn and additional protection is provided by the outer LSZH jacket. The cable is available in a ø 4.0 mm version.

- 2 x 12 bare fibers (250 µm) in two tubes
- Tube diameter 1.4 mm
- Aramid yarn
- LSZH jacket

Part No.	Description	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC05AL04-24	NDC 2x12f	2	24	4.0	16	400	1500

Micro Distribution for MPO/MTP cable 2–16 tubes / 16–192f (NFC05FL05)

Novobit's Minicore cable a robust design with up to 192 optical bare fibers in up to 16 subunits, each subunit of ø 2.0 mm contains 12 fibers in a dry loose tube and is stain-relieved with aramid yarn. Additional protection is provided by the outer LSZH jacket.



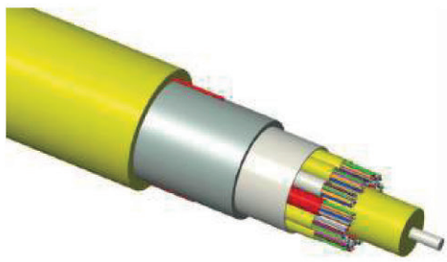
- Central Strength Member (FRP)
- Up to 192 bare fibers (250 µm) in 16 tubes
- Aramid yarn
- Subunit LSZH jacket ø 2.0 mm
- Outer LSZH jacket

Part No.	No. of fibers	No. of sub cables	Fibers per sub cable	Diameter (mm)	Weight (kg/km)	Pull force max. [N]	Fire load [MJ/m]	Bending radius [mm]	Allowed tension [N]	Allowed crush [N/dm]
NFC05FL05-F16	16	2	8	7.0	53	300	0.89	180	3000	2000
NFC05FL05-F24.2	24	2	12	7.0	54	300	0.89	224	5000	3000
NFC05FL05-F24.3	24	3	8	7.0	51	300	0.85	224	5000	3000
NFC05FL05-F32	32	4	8	7.0	50	400	0.81	224	5000	3000
NFC05FL05-F36	36	3	12	7.0	52	300	0.85	224	5000	3000
NFC05FL05-F40	40	5	8	7.7	58	450	0.97	224	5000	3000
NFC05FL05-F48.4	48	4	12	7.0	51	400	0.81	224	5000	3000
NFC05FL05-F48.6	48	6	8	8.2	66	500	1.12	224	5000	3000
NFC05FL05-F60	60	5	12	7.7	60	450	0.97	224	5000	3000
NFC05FL05-F64	64	8	8	9.5	90	550	1.51	224	5000	3000
NFC05FL05-F72	72	6	12	8.2	68	500	1.12	224	5000	3000
NFC05FL05-F96	96	12	8	11.1	111	600	1.85	256	5000	3000
NFC05FL05-F98	98	8	12	9.5	92	550	1.51	256	5000	3000
NFC05FL05-F112	112	14	8	11.8	126	800	1.96	312	5000	3000
NFC05FL05-F128	128	16	8	11.8	122	800	1.93	312	5000	3000
NFC05FL05-F144	144	12	12	11.1	115	600	1.85	312	5000	3000
NFC05FL05-F168	168	14	12	11.8	130	800	1.96	312	5000	3000
NFC05FL05-F192	192	16	12	11.8	126	800	1.93	312	5000	3000

↓ Data Center Cables NFC05

Micro Distribution cable 2–12 tubes / 16–144f (NFC05FL06)

Novobit's Micro Bundle cable has a robust design with up to 144 optical bare fibers in up to 12 subunits. Each subunit of ø 1.6 mm contains 12 fibers in a dry loose tube and is stain-relieved with aramid yarn. Additional protection is provided by the outer LSZH jacket.



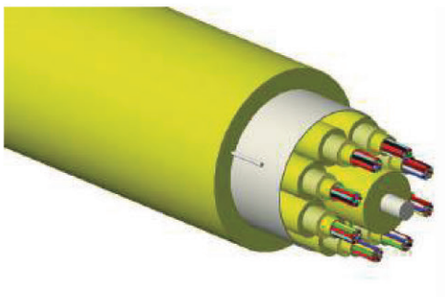
- Central Strength Member (FRP)
- Up to 144 bare fibers (250 µm) in 12 tubes
- Aramid yarn
- Subunit LSZH jacket ø 1.6 mm
- Outer LSZH jacket

Part No.	No. of fibers	No. of sub cables	Fibers per sub cable	Diameter (mm)	Wall thick-ness (mm)	Weight (kg/km)	Fire load [MJ/m]	Bending radius [mm]	Allowed tension [N]	Allowed crush [N/dm]
NFC05FL06-F24	24	2	12	8.3	1	75	0.78	175	9000	5000
NFC05FL06-F36	36	3	12	8.3	1	75	0.78	175	9000	5000
NFC05FL06-F48	48	4	12	8.3	1	75	0.78	175	9000	5000
NFC05FL06-F60	60	5	12	8.3	1	75	0.78	175	9000	5000
NFC05FL06-F72	72	6	12	8.6	1	80	0.86	185	9000	5000
NFC05FL06-F96	96	8	12	9.9	1	105	1.09	205	9000	5000
NFC05FL06-F144	144	12	12	11.4	1	140	1.57	245	9000	5000

↓ Micro Distribution Cables NFC06

Micro Distribution Cable up to 96 fibers (NFC06FL04)

Novobit's Micro Distribution Cable has a robust design with up to 96 optical bare fibers in up to 8 subunits, each subunit of ø 2.8 mm contains 12 fibers in a dry loose tube and is strain-relieved with aramid yarn. Additional protection is provided by the outer LSZH jacket.



- Central Strength Member (FRP)
- Up to 96 bare fibers (250 µm) in max. 8 tubes
- Aramid yarn
- Subunit LSZH jacket ø 2.8 mm
- Outer LSZH jacket

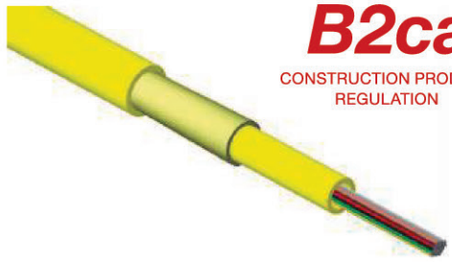
Part No.	Description	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC06FL04-24	NDC 2.8 24f	2+2	24	9.0	75	260	1200
NFC06FL04-48	NDC 2.8 48f	4	48	9.0	75	500	1200
NFC06FL04-72	NDC 2.8 72f	6	72	11.0	115	750	1200
NFC06FL04-96	NDC 2.8 96f	8	96	13.5	180	1000	1400

↓ Micro Distribution Cables NFC06

Micro Distribution Cable up to 24 fibers – CPR B2ca (NFC06AL01 / NFC06AL02)

Novobit's Micro Distribution Cable, CPR class of performance B2ca-s1,d0,a1 (2.2 mm) and B2ca-s2,d0,a1 (4.0 mm), with a slim design for FTTH and fan-out assemblies with up to 24 optical bare fibers in one dry tube. The fibers are strain-relieved with aramid yarn and additional protection is provided by the outer LSZH jacket.

- Up to 24 bare fibers (250 µm) in a tube
- Aramid yarn
- LSZH jacket



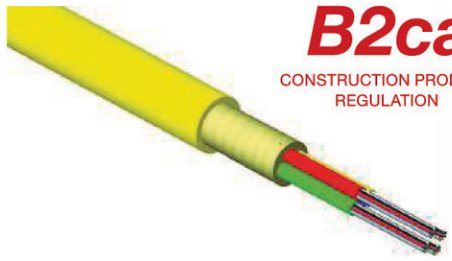
B2ca
CONSTRUCTION PRODUCT REGULATION

Part No.	Description	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC06AL01-2	NDC 2f	1	2	2.2	4.5	250	1000
NFC06AL01-4	NDC 4f	1	4	2.2	4.5	250	1000
NFC06AL02-6	NDC 6f	1	6	4.0	15.3	400	1500
NFC06AL02-8	NDC 8f	1	8	4.0	15.3	400	1500
NFC06AL02-12	NDC 12f	1	12	4.0	15.8	400	1500
NFC06AL02-24	NDC 24f	1	24	4.0	15.8	400	1500

Micro Distribution Cable up to 48 fibers (NFC06AL03)

Novobit's Micro Distribution Cable, CPR class of performance B2ca-s2,d0,a1, with a slim design with up to 48 optical bare fibers in four dry tubes. The fibers are strain-relieved with aramid yarn and additional protection is provided by the outer LSZH jacket.

- Up to 48 bare fibers (250 µm) in 4 tubes
- Aramid yarn
- LSZH jacket



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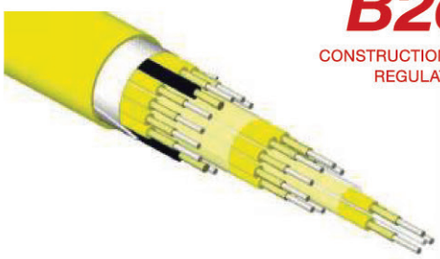
CONSTRUCTION PRODUCT REGULATION

Part No.	Description	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC06AL03-36	NDC 36f	2	36	7.0	28	800	2000
NFC06AL03-48	NDC 48f	2	48	7.0	28	800	2000

Break-Out 1.7 mm Cables 8 or 12 fibers – CPR B2ca (NFC07FL01)

Novobit's Break-Out Cable with a rugged construction is available with ø 1.7 mm simplex cables or ø 2.0 mm simplex cables, with a CPR class of performance B2ca-s2,d0,a1. The cables consist of up to 24 sim- plex cables with 900 µm tight buffer fiber, each with its own jacket and strain-relieved with aramid yarn. Helically stranded around a central strength member and unified into a single cable by a second outer jacket.

- Central Strength Member
- Up to 24x LSZH simplex cables
- 900 µm tight buffer fiber
- UV resistant LSZH jacket with 2 rip cords



B2ca
CONSTRUCTION PRODUCT REGULATION

Part No.	Description	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC07FL01-1.7-F2	Break-Out, 8f (1.7 mm)	2	2	7.2	45	600	2000
NFC07FL01-1.7-F4	Break-Out, 8f (1.7 mm)	4	4	7.2	45	600	2000
NFC07FL01-1.7-F8	Break-Out, 8f (1.7 mm)	8	8	8.2	70	1200	2000
NFC07FL01-1.7-F12	Break-Out, 12f (1.7 mm)	12	12	8.8	115	1800	2000
NFC07FL01-1.7-F24	Break-Out, 12f (1.7 mm)	24	24	14.2	180	3000	2500

↓ Break-Out Cables NFC07

Break-Out 2.0 mm Cables up to 24 fibers – CPR B2ca (NFC07FL02)

Novobit's Break-Out Cable with a rugged construction is available with ø 2.0 mm simplex cables and a CPR class of performance B2ca-s2,d0,a1. The cables consist of up to 24 simplex cables with 900 µm tight buffer fiber, each with its own jacket and strain-relieved with aramid yarn. The cables are helically stranded around a central strength member and unified in a single cable by a second outer jacket.

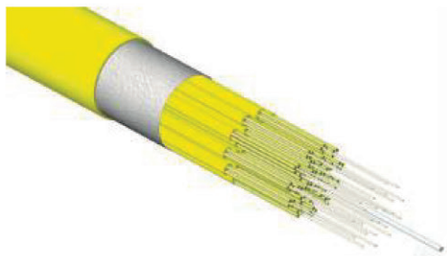
- Central Strength Member
- Up to 24x LSZH simplex cables
- 900 µm tight buffer fiber
- UV resistant LSZH jacket with 2 rip cords

Part No.	Description	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC07FL02-2-F4	Break-Out, 4f (2.0 mm)	4	4	7.5	55	800	2000
NFC07FL02-2-F8	Break-Out, 8f (2.0 mm)	8	8	9.3	87	1600	2000
NFC07FL02-2-F12	Break-Out, 12f (2.0 mm)	12	12	11.0	125	2400	2000
NFC07FL02-2-F24	Break-Out, 24f (2.0 mm)	24	24	14.9	192	4800	2000

↓ Break-Out Cables NFC07

Break-Out Cables up to 24 fibers (NFC07FL04)

Novobit's innovative BrightCore® Break-Out Cables are constructed with up to 24 individual simplex cables with a diameter of 1.4 mm which are helically stranded around a non-metallic central strength element. With the cable construction, the individual fibers do not need the protection of tubes (250 µm bare fiber) which makes the cable small-sized, compact and light. Each fiber is strain relieved with aramid yarns. These Break-Out Cables are designed especially for high-density applications with limited space such as in central offices and data centers.

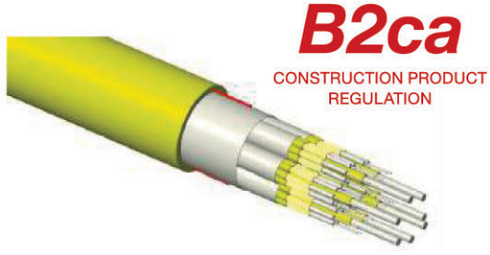


- Central Strength Member (FRP)
- Up to 24 x 1.4 mm simplex cables
- 250 µm fiber
- Aramid yarn
- LSZH jacket

Part No.	Description	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NCF07FL04-F4	BrightCore® Break-Out, 4f	4	6.0	18	4x100	1000
NCF07FL04-F8	BrightCore® Break-Out, 8f	8	6.9	30	8x100	1500
NCF07FL04-F12	BrightCore® Break-Out, 12f	12	9.0	68	12x100	2000
NCF07FL04-F24	BrightCore® Break-Out, 24f	24	9.8	96	24x100	3000

Break-Out 1.4 mm Cables up to 32(35) fibers – CPR B2ca (NFC07FL05)

Novobit's Break-Out 1.4mm Cable with a rugged construction and a CPR class of performance B2ca-s1,d0,a1, is designed for datacenters. The cables consist of up to 32(35) simplex cables (1.4 mm). The cables are helically stranded around a central strength member and unified in a single cable by a second outer jacket.

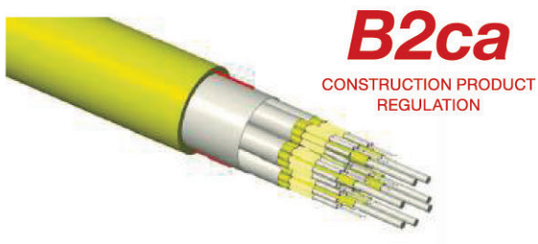


- Central Strength Member
- Up to 49 x 1.4 mm LSZH simplex cables
- 600 µm tight buffer
- LSZH jacket

Part No.	Description	No. of tubes/ fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC07FL05-F32(35)	Break-Out, 32f (1.4 mm)	32 (35)	16	241	1500	2000

Break-Out 1.4 mm Cables up to 48(49) fibers – CPR B2ca (NFC07FL06)

Novobit's Break-Out 1.4mm Cable with a rugged construction and a CPR class of performance B2ca-s1,d0,a1 is designed for datacenters. The cables consist of up to 48(49) simplex cables (1.4 mm). Helically stranded around a central strength member and unified in a single cable by a second outer jacket.



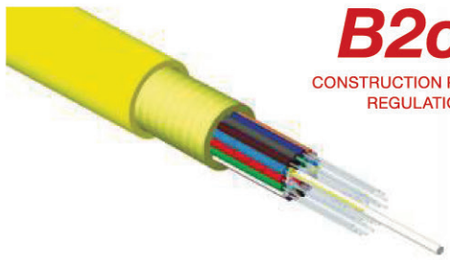
- Central Strength Member
- Up to 49 x 1.4 mm LSZH simplex cables
- 600 µm tight buffer fibers
- LSZH jacket

Part No.	Description	No. of tubes/ fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC07FL06-F48(49)	Break-Out, 48f (1.4 mm)	48 (49)	18	259	2500	3000

↓ Riser/Mini Break-Out, Distribution Cables NFC08

Riser (Mini Break-Out) Cables up to 24 fibers – CPR B2ca (NFC08FL01)

Novobit's Mini Break-Out Cable with a CPR class of performance B2ca-s1,d0,a1 is designed with its central strength element for FTTH vertical cabling. The cables consist of up to 24 fibers, surrounded by aramid yarn and a LSZH outer jacket.



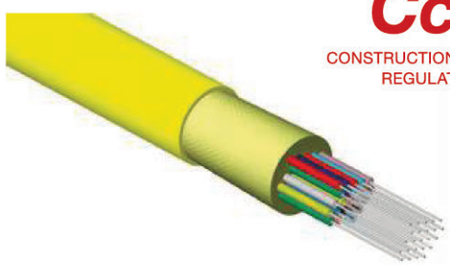
B2ca
CONSTRUCTION PRODUCT REGULATION

- Central Strength Member
- Up to 24 x 600 µm buffered fiber
- Aramid yarn
- LSZH jacket

Part No.	Description	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC08FL01-F4	Riser (MBO), 4f	4	4	2.8	7,6	500	1000
NFC08FL01-F8	Riser (MBO), 8f	8	8	6.5	37	900	2000
NFC08FL01-F12	Riser (MBO), 12f	12	12	6.5	40	1200	2000
NFC08FL01-F24	Riser (MBO), 24f	24	24	8.5	62	1800	3000

Distribution Cables up to 24 fibers – CPR Cca (NFC08AL02)

Novobit's Distribution Cable with a CPR class of performance Cca-s1,d1,a1 is designed for applications requiring a single termination point with multiple fibers. It has a tight sbuffered design and can be used for intra-building backbone or inter-building campus locations without transitions between cable types. The cables consist of up to 24 fibers, surrounded by aramid yarn and a LSZH outer jacket.



Cca
CONSTRUCTION PRODUCT REGULATION

- Up to 24 x 900 µm buffered fiber
- Aramid yarn
- LSZH jacket

Part No.	Description	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC08AL02-F4	Distribution, 4f	4	4	5.2	30	400	1000
NFC08AL02-F8	Distribution, 8f	8	8	6.5	50	900	2000
NFC08AL02-F12	Distribution, 12f	12	12	6.5	52	900	2000
NFC08AL02-F24	Distribution, 24f	24	24	8.4	77	1500	3000

↓ Riser/Mini Break-Out, Distribution Cables NFC08

Mini Break-Out Cables up to 4 fibers – CPR B2ca (NFC08AL03)

Novobit's FTTH Mini Break-Out Cable with CPR class of performance B2ca-s1,d0,a1 is designed for inhouse installations. Its compact design makes it easy to install. It is a perfect solution for places with limited space. The cables consist of up to 4 individually color coded fibers, surrounded by aramid yarn and a LSZH outer jacket.

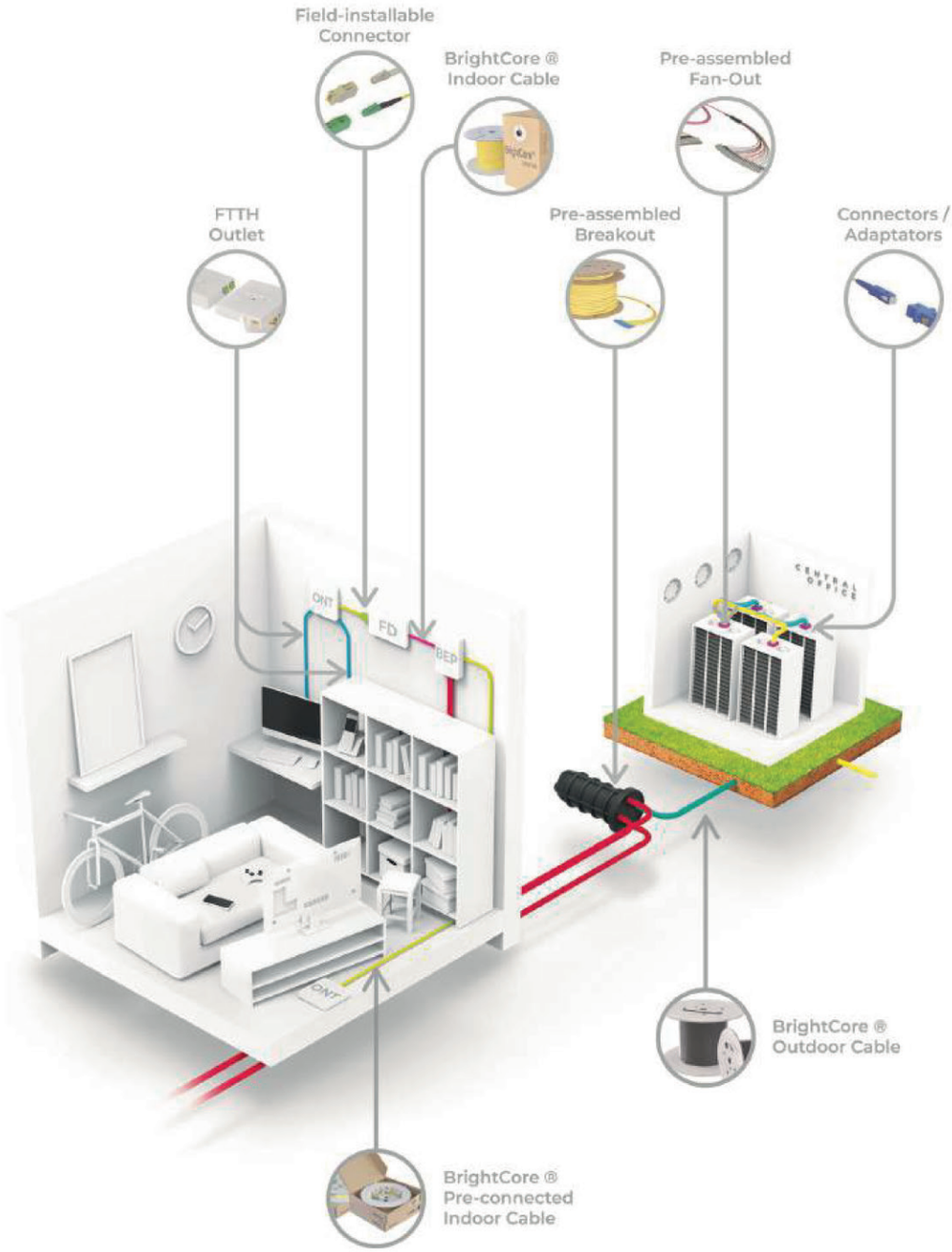
B2ca
CONSTRUCTION PRODUCT REGULATION

- Up to 4 pigtail fibers (red, green, yellow, blue)
- Semi tight buffer fiber, 600 µm
- Aramid yarn
- LSZH jacket (yellow/white)

Part No.	Description	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC08AL03-F2	Mini Break-Out 2f	1	2	2.8	7.6	400	500
NFC08AL03-F4	Mini Break-Out 4f	1	4	2.8	7.6	400	500

FTTH, ADSS / BURIAL

↓ Novobit's FTTx Landscape



↓ FTTH Drop Cables NFC09

FTTH Drop Cables up to 24 fibers – CPR B2ca (NFC09AL01)

Novobit's FTTH Drop Cable (in accordance to IEC 60794) is ideally to install between the BEP and the OTOs. The cable with the CPR class of performance B2ca-s1a,d0,a1, contains up to 24 optical 250µm fibers in a single tube and is strain-relieved with aramid yarns. Additional protection is provided by a LSZH flame-retardant cable jacket.

- Up to 24 900 µm tight buffer fibers
- Aramid yarn
- LSZH jacket

B2ca
CONSTRUCTION PRODUCT REGULATION

Part No.	Description	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC09AL01-F1	FTTH 1f	1	1	2.2	4.0	200	1000
NFC09AL01-F2	FTTH 2f	1	2	2.2	4.0	200	1000
NFC09AL01-F4	FTTH 4f	1	4	2.2	4.0	200	1000
NFC09AL01-F8	FTTH 8f	1	8	4.0	15.3	400	1500
NFC09AL01-F12	FTTH 12f	1	12	4.0	16.3	400	1500
NFC09AL01-F24	FTTH 24f	1	24	4.0	17.3	400	1500

FTTH 2.6 mm simplex cable – CPR B2ca (NFC09AL02)

Novobit's FTTH 350 µm simplex cable (in accordance to IEC 60794) and CPR B2ca-s1a,d0,a1, is ideally installed between the BEP and the OTOs. The cable contains 1 optical 250 µm fiber with an extra coating (semi-tight buffer) to 350 µm within a single tube also containing the first layer of aramid yarn. A second layer of aramid yarn exists between the tube and the outer LSZH flame retardant cable jacket.

- 350 µm fiber
- First and second layer aramid yarn
- 900 µm tube, LSZH jacket

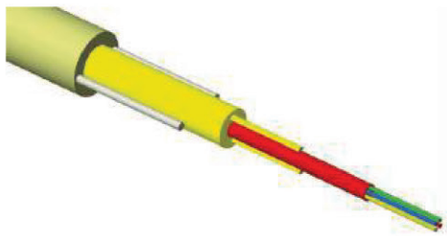
B2ca-s1a
CONSTRUCTION PRODUCT REGULATION

Part No.	Description	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC09AL02-F1	FTTH 350 1f	1	1	2.6	7.0	200	500

↓ FTTH Drop Cables NFC09

BrightCore® FTTH EasyPull Drop Cable with FRP, up to 4 fibers (NFC09FL05)

Novobit's BrightCore® FTTH EasyPull Drop Cables with FRP are suitable for fast installations and designed for a long-term application in the field. The cable consists of up to 4 fibers in an inner tube, which is easily strippable by bare fingers. The FRP elements in outer LSZH sheath together with aramid yarn, providing excellent mechanical performance for harsh environments, with high tensile and crush strength.

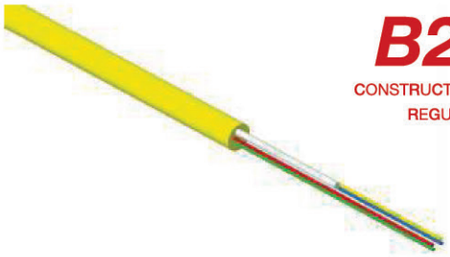


- Up to 4 fibers (250 µm)
- Aramid yarn
- LSZH jacket with 2 FRP

Part No.	Description	No. of fibers	Diameter (mm)	Tube (µm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC09FL05-F1	FTTH FRP 1f	1	2.0x2.4	250	4.5	100	1000
NFC09FL05-F2	FTTH FRP 2f	2	2.0x2.4	250	4.5	100	1000
NFC09FL05-F4	FTTH FRP 4f	4	2.0x2.4	250	5.0	100	1000

BrightCore® FTTH EasyPush Cables up to 4 fibers (NFC09FL06)

Novobit's BrightCore® FTTH EasyPush Cable (in accordance to IEC 60794) is developed for optimizing installation by blowing or pushing. The cables have high tensile strength with double strength members made from FRP. These FTTH indoor cables contain up to 4 colored optical bar fibers (250 µm), with a special jacket made from flame-retardant LSZH.



B2ca
CONSTRUCTION PRODUCT REGULATION

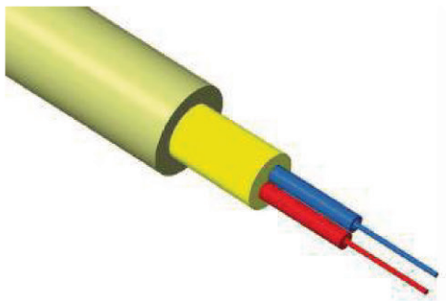
- 2 FRP Strength Member
- Up to 4 fibers
- LSZH

Part No.	Description	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC09FL06-F2	BrightCore® EasyPush, 2f	2	2.1	3.5	75	1000
NFC09FL06-F4	BrightCore® EasyPush, 4f	4	2.1	4.0	75	1000
NFC09FL06-F4-O	BrightCore® EasyPush, 4f Oval	4	2.0x2.4	4.5	75	1000

↓ FTTH Drop Cables NFC09

FTTH Cable, 2 buffered fibers (NFC09AL04)

Novobit's indoor buffered cable is developed for fast FTTH indoor installation and designed for longterm application in the field. The cable consists of two buffered fibers with 0.9mm outer diameter, protected by an outer sheath and aramid yarn for tensile strength.

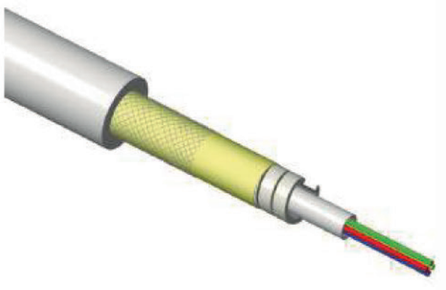


- 2x 900 µm buffered fibers
- Aramid yarn
- LSZH jacket

Part No.	Description	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC09AL04-F2	FTTH Buffered 2f	2	4.0	25	400	2000

FTTH Armored Cable 2 or 4 Tight-buffered fibers (NFC09CL03)

Novobit's Armored Cable with 2 or 4 fibers is designed for special patchcord or FTTH applications in harsh environment and is available in 3.2 mm diameter. It is composed of a tight-buffered (semi-tight buffered on request) fiber with a 0.6 mm outer diameter, protected by a spiral steel layer, strain relieved with aramid yarn and a second, metal braid, protection layer. The outer layer is a Low Smoke Zero Halogen (LSZH) jacket.



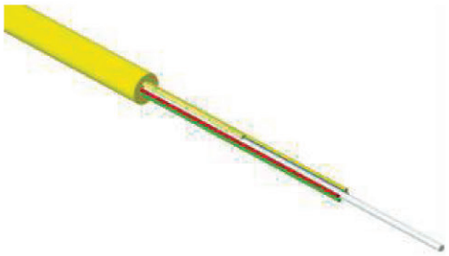
- 600 µm tight-buffered fiber
- Steel spiral
- Aramid yarn
- Metal braid
- LSZH jacket

Part No.	Description	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC09CL03-F2	FTTH Armored Tight Buffered 2f	2	3.2	19	200	3000
NFC09CL03-F4	FTTH Armored Tight Buffered 2f	4	3.2	19	200	3000

↓ FTTH Drop Cables NFC09

BrightCore® FTTH EasyPull Cables up to 4 fibers (NFC09FL09)

Novobit's BrightCore® FTTH EasyPull Cable (in accordance to IEC 60794) is developed for optimizing installation by pulling. The cables have high tensile strength with one central strength member made from FRP and additional aramid yarns, also used as rip cords for quick and easy removal of the outer jacket. It is available with round construction or oval construction, both with a jacket made from flame retardant LSZH.



- Central Strength Element made by FRP
- Up to 4 fibers
- Aramid yarn
- LSZH

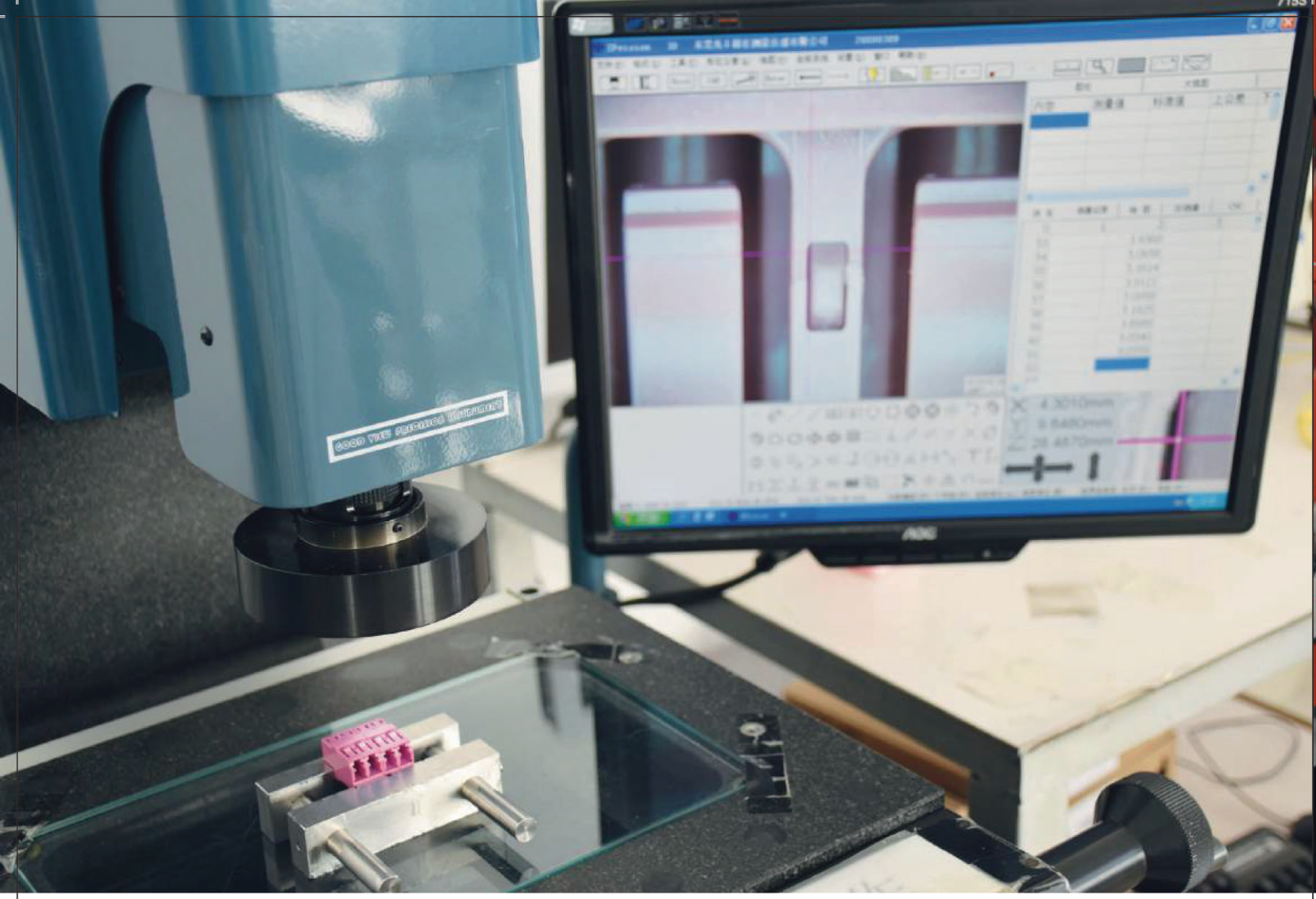
Part No.	Description	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC09FL09-F2	BrightCore® EasyPull, 2f	2	2.9	7.7	200	1000
NFC09FL09-F4	BrightCore® EasyPull, 4f	4	2.9	8.3	200	1000
NFC09FL09-F2-O	BrightCore® EasyPull, 2f oval	2	2.4x2.9	6.3	200	1000
NFC09FL09-F4-O	BrightCore® EasyPull, 4f oval	4	2.4x2.9	6.8	200	1000

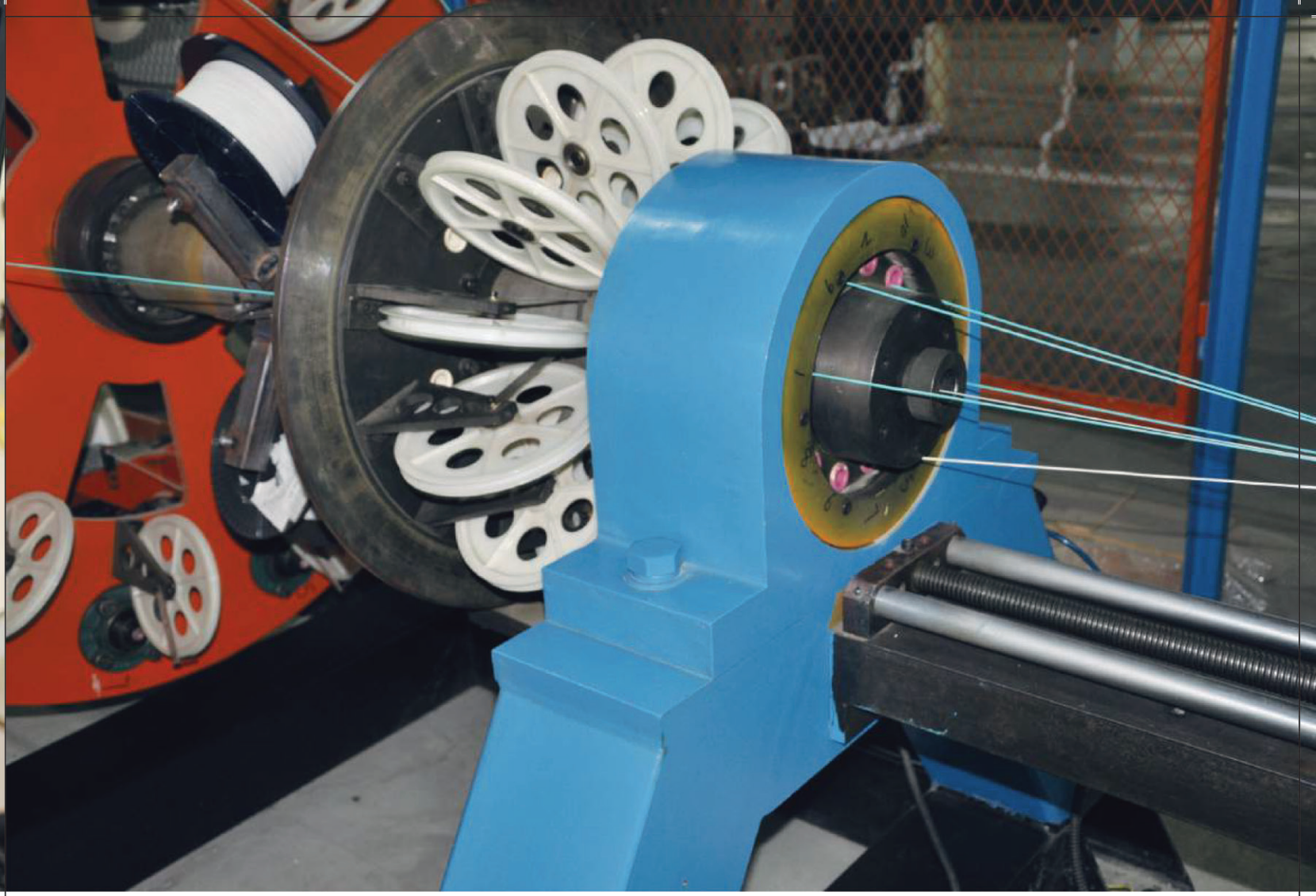
Double Jacket ADSS up to 4 fibers for Aerial, Duct or Direct Burial (NFC10GP01)

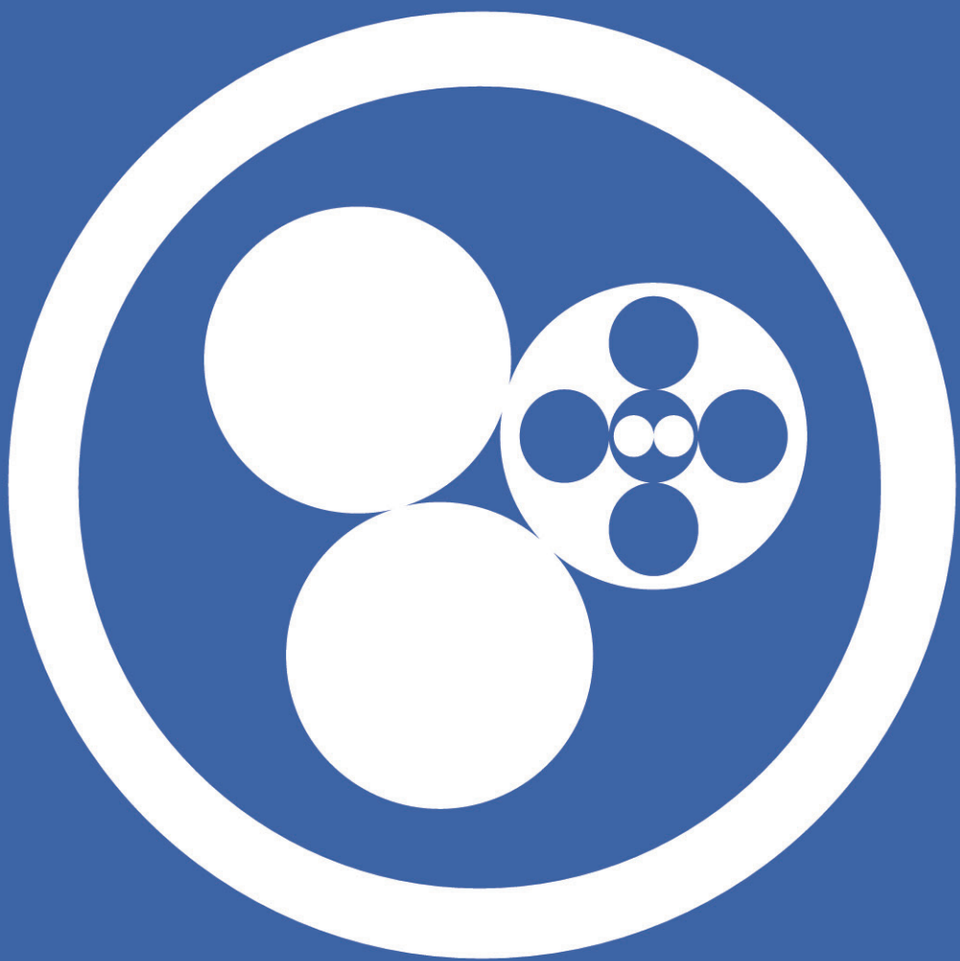
Novobit's All-Dielectric Self-Supporting (ADSS) cable with double coating is designed with an outer HDPE layer for outdoor deployment, which is easily removed with rip cords leaving an indoor cable with an LSZH layer for the continuation indoors without any need for splicing. Suitable for duct, direct burial or aerial deployment, with aerial span lengths up to 100 m, making it possible to go from aerial to burial or duct with the same cable.

- 900 µm tube with up to 4 fibers
- LSZH primary jacket with aramid yarn and FRP
- Water-blocking aramid yarn
- HDPE secondary jacket with FRP

Part No.	Description	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC10GP01-F1	ADSS HDPE 1f	1	1	6.0	28	800	2000
NFC10GP01-F2	ADSS HDPE 2f	1	2	6.0	28	800	2000
NFC10GP01-F4	ADSS HDPE 4f	1	4	6.0	28	800	2000







FTTA AND HYBRID FIBER OPTIC CABLES

↓ FTTA Cables NFC12

4.8 mm UL listed, CPR rated FTTA cable with 2 fibers (NFC12AU02 / NFC12BU02)

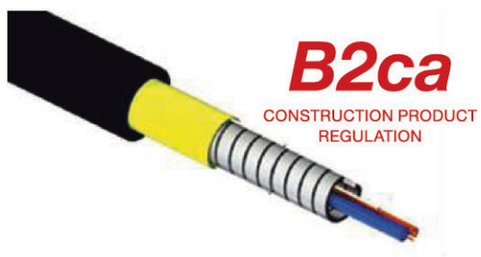
Developed in accordance with telecom equipment manufacturers requirements. Novobit's FTTA cables, with a CPR class of performance B2ca-s2,d0,a1, have an outer jacket made from UV-resistant and flame retardant LSZH for both indoor and outdoor usage around a layer of aramid yarn (water blocking) or glass yarn (water blocking) protecting the two fibers.

- 2 x 900 µm tubes with 1 fiber each
- Water blocking glass yarn or water blocking aramid yarn
- UV-resistant LSZH jacket

Part No.	Description	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC12AU02-F2	FTTA Aramid 2f	2	2	4.8	19	300	2500
NFC12BU02-F2	FTTA Glass 2f	2	2	4.8	25	500	2500

4.8 mm armored FTTA cable with 2 fibers (NFC12EU01)

Novobit's 4.8 mm armored FTTA cables, with a CPR class of performance B2ca-s2,d0,a1, have an outer jacket made from UV-resistant and flame retardant LSZH for both indoor and outdoor usage around a layer of aramid yarn (water blocking) and a steel spiral layer protecting the two fibers.



- 2 x 900 µm tubes with 1 fiber each
- Water blocking aramid yarn
- Steel spiral
- UV-resistant LSZH jacket

Part No.	Description	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC12EU01-F2	FTTA Steel Spiral,2f	2	2	4.8	28	450	2000

Hybrid Optical/Power Cable 2 x 1.5 mm² or 2.5 mm² + 2/4 fibers CPR B2ca (NFC13BU01)

Novobit's Hybrid Optical/Power Cable with a CPR class of performance B2ca-s1,d0,a3 is designed for a variety of applications in which both electrical power and optical fiber are required. It consists of one optical cable with 2 or 4 fibers and two copper conductors of either 1.5 mm² or 2.5 mm² each. The optical cable and copper conductors are unified by glass yarns for rodent protection and with an outer jacket of LSZH with UV stabilization, enabling both indoor and outdoor installations. The outer jacket can be delivered in any color requested matching the environment.

- 900 µm tube with up to 4 fibers
- LSZH inner jacket with FRP strength elements and aramid yarn
- 2 copper conductors
- Water-blocking glass yarn with rip cords
- LSZH outer jacket

Article	Description	Cooper wire (N*mm²)	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC13BU01-2-A	Hybrid 2 x 1.5+2f	2 x 1.5	1	2	11	170	1500	3000
NFC13BU01-4-A	Hybrid 2 x 1.5+4f	2 x 1.5	1	4	11	170	1500	3000
NFC13BU01-2-B	Hybrid 2 x 2.5+2f	2 x 2.5	1	2	11	170	1500	3000
NFC13BU01-4-B	Hybrid 2 x 2.5+4f	2 x 2.5	1	4	11	170	1500	3000

Hybrid Optical/Power Cable 2x1.5mm² or 2.5mm² + 2/4 fibers CPR B2ca (NFC13BU02)

Novobit's Hybrid Optical/Power Cable with a CPR class of performance B2ca-s1,d0,a3 is designed for a variety of applications in which both electrical power delivery and optical fiber communication are required. It consists of one optical cable with 2 or 4 fibers and two copper conductors. The optical cable and copper conductors are unified by glass yarns and further protected by a cable outer jacket with UV stabiliza- tion. The cable can be used for both indoor and outdoor installations.

- Central tube with 2 or 4 fibers, aramid yarn and LSZH jacket
- 2x1.5mm² or 2x2.5mm² copper conductors
- Glass yarn
- UV resistant LSZH jacket

Article	Description	Cooper wire (N*mm²)	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC13BU02-2-A	Hybrid 2x1.5+2f	2x1.5	2	2	9.2	170	1500	3000
NFC13BU02-4-A	Hybrid 2x1.5+4f	2x1.5	2	4	9.2	170	1500	3000
NFC13BU02-2-B	Hybrid 2x2.5+2f	2x2.5	2	2	9.2	170	1500	3000
NFC13BU02-4-B	Hybrid 2x2.5+4f	2x2.5	2	4	9.2	170	1500	3000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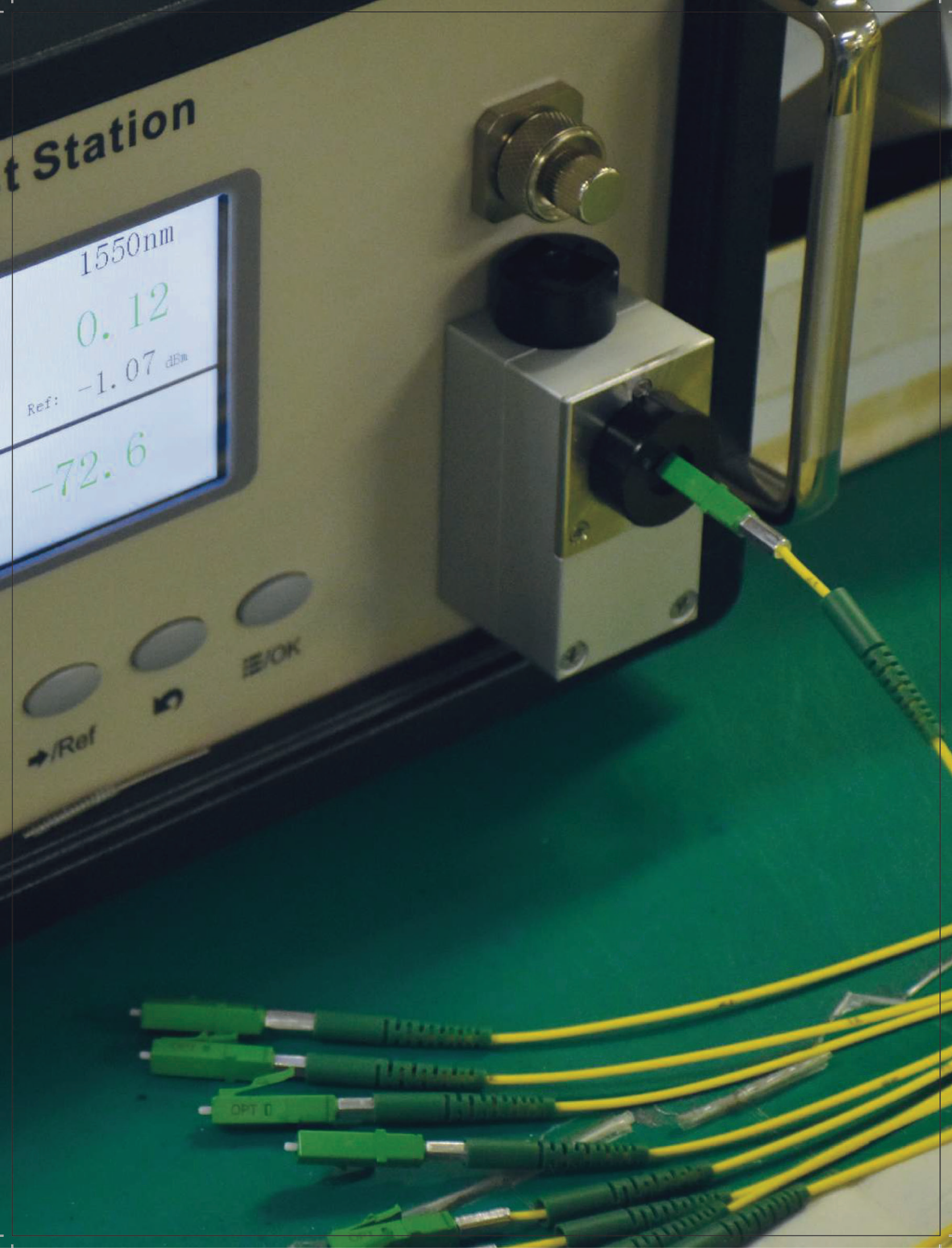
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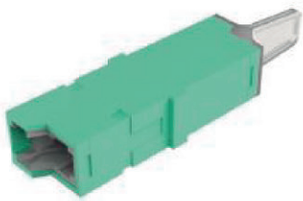

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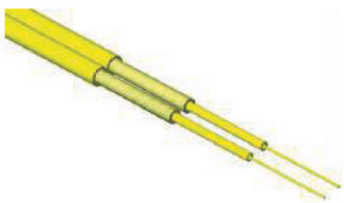

Duplex zip-cord cable

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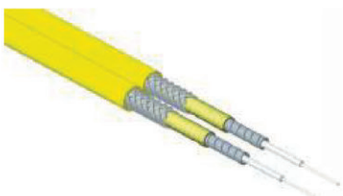

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Duplex cable

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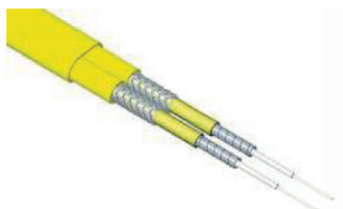

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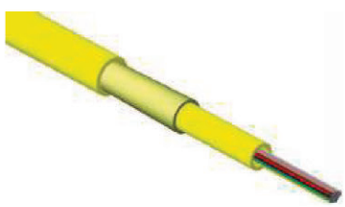

Micro Distribution cable

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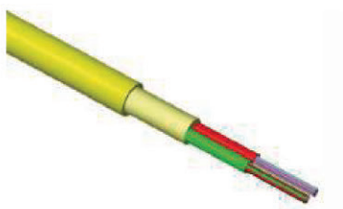

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↓ Impressum

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↓ Notes