

CABLE ASSEMBLIES

Fiber-to-the-Home | Broadband Networks



Save up to 40%

ORBIS



Orbiks Know-How

Orbis has more than 25 years of experience in manufacturing fiber optical products, and our products are used by, for example all Finland's top telecom operators. If our basic product range does not meet customer's needs, we can easily customize configurations for different applications and also manufacture small batches.

Benefits of the factory assembled connectors

Cable assemblies are manufactured in Orbis own production from requested length of fiber optical cable. The cable is terminated by connectors on both end or only on one end. Connectors are made in the "industrial" way by assembling connectors over fiber cable and the bonding is dried in the oven.

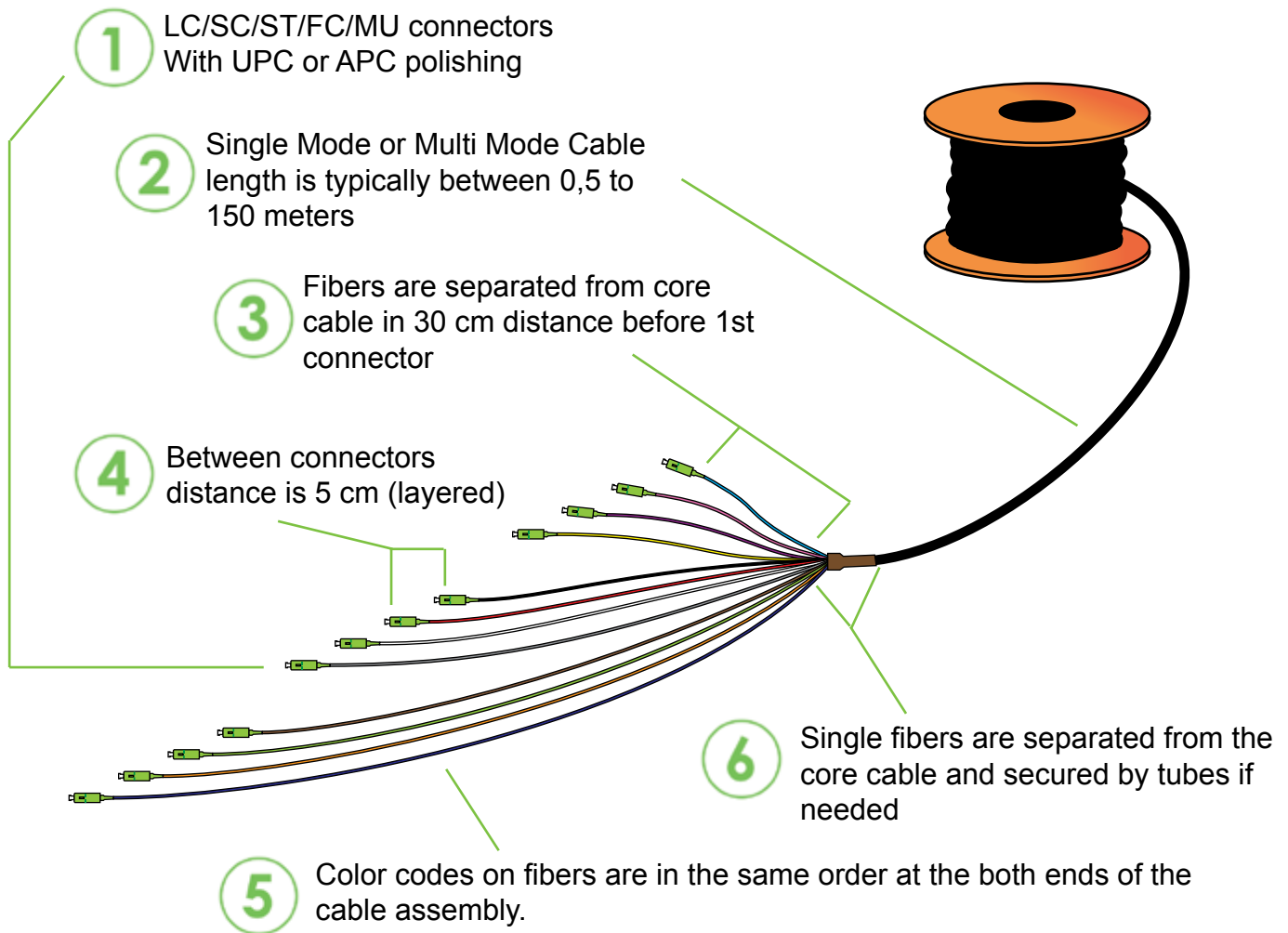
At final stage the connectors are polished and cable assembly is checked and measured both visually and with a microscope and other technical instruments. Splicing is not in use, so a cable assembly has less attenuation loss than a cable with spliced pigtailed.

A cable assembly can be already in the factory plugged into patch panels or to other closures. Loose connectors without an enclosure are secured during the transportation and installation by easy-removing protection and pulling tube. Depending on the cable size and length and application cable assemblies are delivered in cardboard box or on cardboard/plywood/wooden reels.



Photos from Orbis' factory

Structure of a cable assembly



Protection Tube

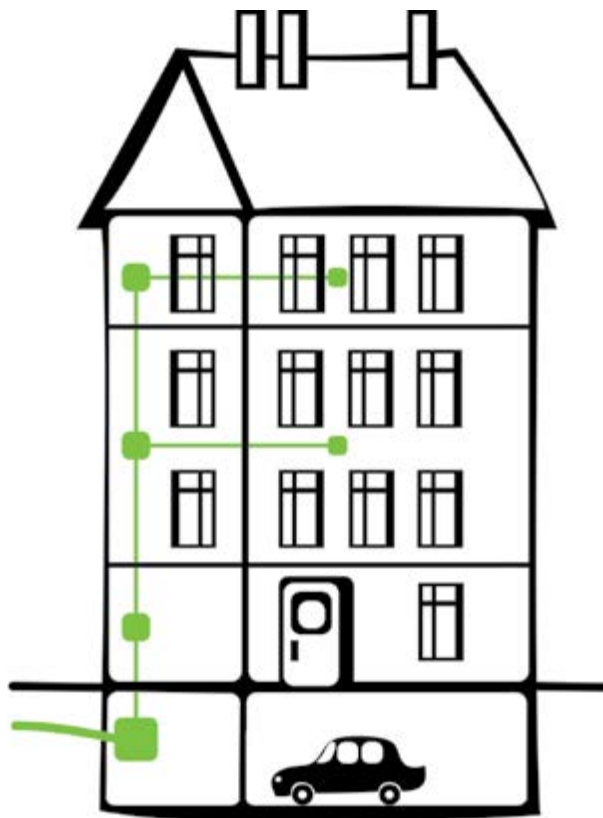
If connectors are not plugged into a panel or an enclosure, connectors must be protected during transportation and installation.

- Transparent rigid plastic tube
- Length 40 cm
- Tubes internal diameter 19mm, outer diameter 24,6mm
- Tubes internal and outer surface is a flat which is easier to use
- On end of the tube is a place for drawstring



Faster and more reliable way to implement an optical network

Cable Assemblies accelerate the installation time, thus achieving savings in the overall cost of the installation. Additionally, the optical network malfunctions reduce because of less cable handling.



- No need for splicing in the apartment because all splicing is done in the main distribution rack
- Factory made connectors on the cables – less splicing work
- Connectors are secured by the protection tube
- Installer handles cable more carefully compared to the hybrid cable

We recommend cable assemblies for renovations of apartment buildings and new buildings, as well as to other internal networks, eg. Cabling between buildings.

Example calculation

Indoor cabling costs in 40 apartment building (in Finland)

Standard cabling	€ VAT 0%	Network with hybrid cable	€ VAT 0%	Network with Cable Assemblies	€ VAT 0%
With materials CAT6 and 4xOS2	1008	With materials Hybrid	1780	With materials: cable assemblies and Cat6	1958
Installation	3600	Installation	3600	Installation	1200
Total	4608	Total	5380	Total	3158

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Cable assemblies for indoors

Examples:

- Orbis OptoFiber FTTH 4F LC APC/LC APC 15 – 55 m (both ends)
- Orbis OptoFiber FTTH 4F SC APC 15m - 55m (one end)
- Orbis OptoFiber FTTH 4F SC APC/SC APC 15 – 55 m (both ends)
- Orbis OptoFiber FTTH 4F LC APC 15m - 55m (one end)



Orbis OptoFiber FTTH 4F
SC APC/SC APC 15 – 55 m (one end)



Orbis OptoFiber FTTH 4F
LC APC/LC APC 15 – 55 m (both ends)

Apartment enclosures with assembled cable

Apartment enclosures manufactured by Orbis for the Fiber-to-the-Home (FTTH) application, which includes indoor installation cable and 4 SC adapters. Connectors are APC or UPC polished. Other end of the cable is free for splicing.

- Orbis-Enclosure 4F SC APC 20m – 40m
- Orbis-Enclosure 4F LC APC 20m – 40m

* Other versions are available by request



3000611 Orbis Apartment Enclosure with 4 SC
APC adapters for low-bend G657-fibers



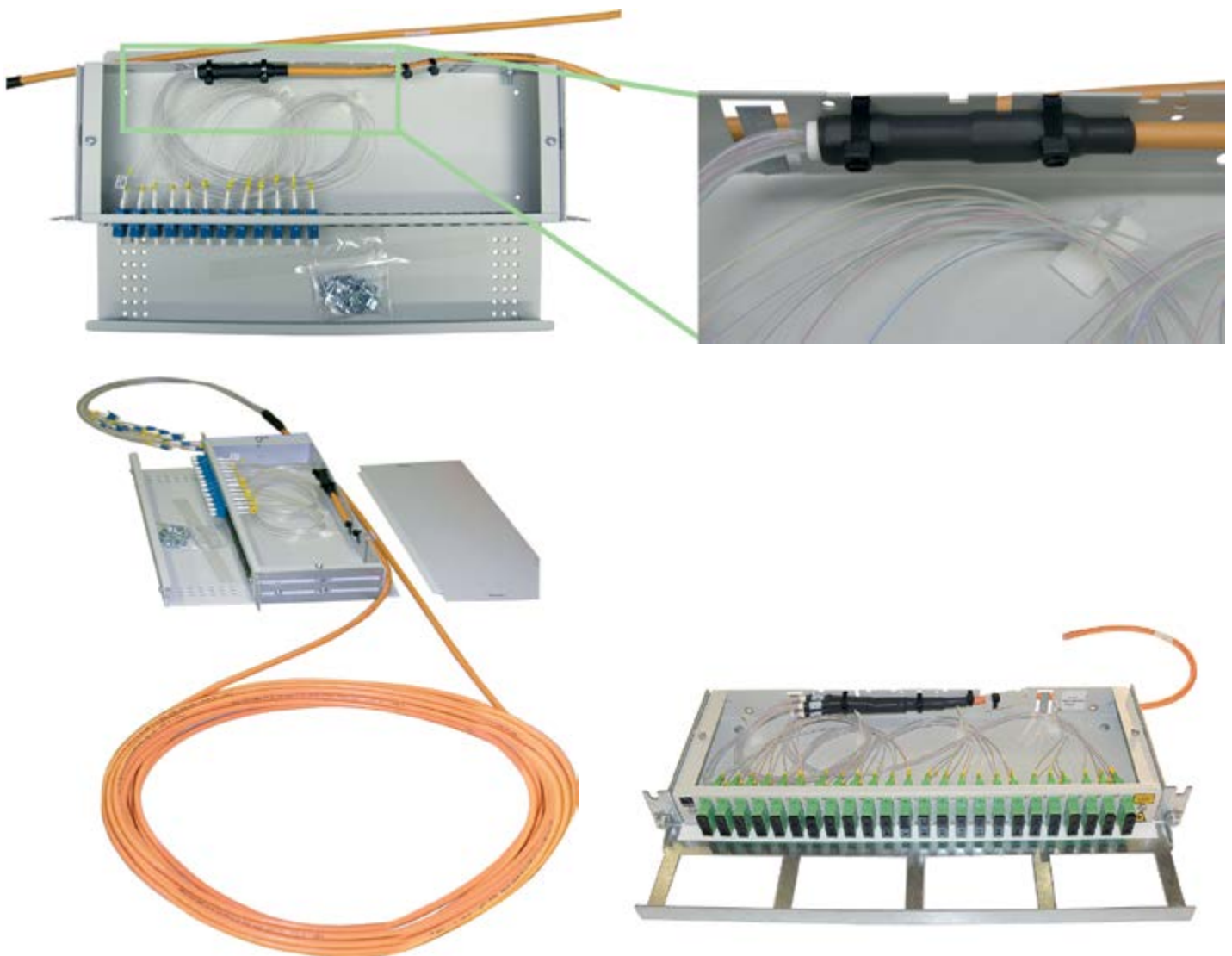
3001614, 3001615, 3001616 Orbis Apartment Enclosure
pre-terminated with 4 SC APC Adapters 20m / 30m / 40m

Patch Panels with cable assemblies

Fiber Optical Networks are usually distributed for example from cross-connection site in the building to all apartments and floor distribution frames through a patch panel.

The width of panel enclosure is 19 inches, making it suitable for the respective cabinet or shelf. The depth of the panel is 140mm 1-2U and it has a height adjustable base plate.

The panels can be connected to the 1-96 fibrous ready cables. Front plate slots on the panel are marked, depending on the amount of fibers numbering 1-24, 1-48 or 1-96. Panels in our basic portfolio include cable assembly which has the other end free for splicing.



Orbis Patch Panels with in factory installed Cable Assembly

Patch cords for outdoors

Orbis manufactured high quality UV shielded connection cables are suitable for outdoor use. Cable can be pulled inside the building from the termination enclosure placed at the outer wall. Below you can find some examples of the products, which are available in our stock. Longer lengths are also made by request.

- Patch cord SC/SC APC UV 2-10m
- Patch cord LC/LC APC UV 2-10m
- Patch cord SC/SC UPC UV 2-10m
- Patch cord LC/LC UPC UV 2-10m



3003233 Patchcord LC-LC APC UV



3003240 Patchcord SC-SC APC UV

Cable assemblies from ground cable

Ground cable is a special reinforced optical fiber, which can be installed under the ground. Ground cables are used as trunk cables in a broadband network as far as to the building cable (4-6 fibers) and for example, they can be used for the cabling between terraced houses.

- Orbis OptoFiber 4F SC APC/SC APC 30-50m
- Orbis OptoFiber 4F LC APC/LC APC 30-50m
- Orbis OptoFiber 4F SC UPC/SC UPC 30-50m
- Orbis OptoFiber 4F LC UPC/LC UPC 30-50m

Orbis Oy is a Finnish company which trades products of data transmission in Finland, Estonia, Latvia, Lithuania and Russia. Orbis holds decades of experience in radio frequency and fiber optic technologies.

The company provides solutions for fixed and wireless networks in apartment houses, public buildings, transportation, mobile networks, data centers and industry. Its imported product portfolio is complemented with Orbis' own product development and manufacturing operations such as high quality cable assemblies.

Read more from our web page

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