cyberteam®

FiberTechnic®

LanTechnic®

Cyberteam® is located in Zamość, in Mielec Special Economic Subzone. This is where the design, manufacturing and prototype testing takes place. In headquarters in Zamość, on Strefowa 8 street are also our Sales Department and Warehouse – where all orders are proceeded.

Cyberteam® is part of Nowak Technologie. It has started by manufacturing microwave antennas co-designed with ZUT Department of Computer Science. Growing demand for wireless internet access gave the opportunity to introduce new, unique products. That was the reason to create patented, anti-noise shields for MikroTik and Ubiquiti devices.

Constant strive for improvements lead to setting up department that focuses on designing and manufacturing electronics. Cyberteam introduced to the market wide range of surge protectors, PoE adapters and backup power supplies.

FiberTechnic® was established in 2016. New brand responded to the increasing needs for high quality fiber optic solution. It covered full range of passive and active components used in optical networks i.e. fiber optic cables made in Europe, ODFs, accessories, all-aluminium, rust-free outdoor cabinets in variety of sizes and IP rating configurations, SFP modules, media converters, GPON OLTs and ONUs. Cabinet manufacturing quickly gave Cyberteam® one of the leading positions on the market. Thanks to cooperation with universities such as ZUT and UMCS, products with FiberTechnic® logo are constantly improved to meet the highest standards. Outdoor cabinet with electric switchboard – codesigned with Lublin Technical University – have been named worldwide innovation.

FiberTechnic® mini ADSS Z-XOTKtcdDb 2-12F 0,8 kN SPAN50m 3,7 mm

CE made in **EUR**

Application

Multipurpose, self-supporting aerial, outdoor cable for installation on poles or in ducts, with reduced diameter.

Features

- UV resistant
- small diameter
- lightweight
- flexible
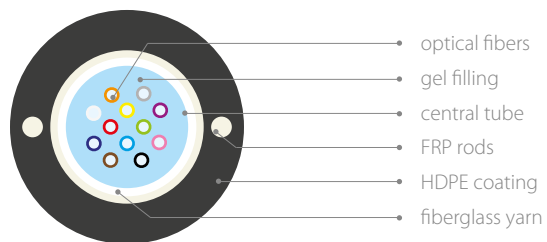- small bending radius
- high performance

Mechanical and usage characteristics

Crush resistance: 1000 [N/10 cm]
Bending radius:
- static: 15 x cable diameter
- dynamic: 20 x cable diameter
Compliance: EN 187101, IEC 60794-1-2-E11

- optical fibers
- gel filling
- central tube
- FRP rods
- HDPE coating
- fiberglass yarn

High quality polyethylene HDPE outer jacket.
ITU-T G.652D / G.657A1 **Fujikura** fibers.
Fiberglass yarn strengthening.

Identification of fibers and tubes

1-12	1	2	3	4	5	6	7	8	9	10	11	12
tubes | fibers	🔴	🟢	🔵	⚪	🟣	🟠	⚪	🟡	🟤	🔴	⚫	🔵
color	red	green	blue	white	purple	orange	grey	yellow	brown	pink	black	turquoise

Fibers	Cable diameter [mm]	Weight [kg/km]	Strengthening elements [mm]	Tensile strength-installation [N]	Tensile strength- operation [N]	Working temperature range
2F	3,7	11	FRP (2X0,4)	800	500	-40°C to +70°C
4F	3,7	12	FRP (2X0,4)	800	500	-40°C to +70°C
8F	4,0	13	FRP (2X0,4)	800	500	-40°C to +70°C
12F	4,0	14	FRP (2X0,4)	800	500	-40°C to +70°C

FiberTechnic® ADSS Z-XOTKtcdDb 2-24F 1,2 kN SPAN80m

CE made in EUR

Application

Multipurpose, outdoor cable for aerial, duct and pole installation.

Features

- UV resistant
- small diameter
- lightweight
- flexible
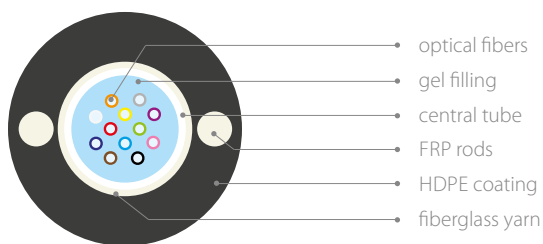- small bending radius
- high performance

Mechanical and usage characteristics

Crush resistance: 1500 [N/10 cm]
Bending radius:
- static: 15 x cable diameter
- dynamic: 20 x cable diameter

Compliance: EN 187101, IEC 60794-1-2-E11

- optical fibers
- gel filling
- central tube
- FRP rods
- HDPE coating
- fiberglass yarn

High quality polyethylene HDPE outer jacket.
ITU-T G.652D **Corning / Fujikura** fibers..
BASF fiber tubes.
Fiberglass yarn strengthening.

Identification of fibers and tubes

1-12	1	2	3	4	5	6	7	8	9	10	11	12
tubes | fibers	🔴	🟢	🔵	⚪	🟣	🟠	⚪	🟡	🟤	🔴	⚫	🔵
color	red	green	blue	white	purple	orange	grey	yellow	brown	pink	black	turquoise

Fibers	Cable diameter [mm]	Weight [kg/km]	Strengthening elements [mm]	Tensile strength-installation [N]	Tensile strength- operation [N]	Working temperature range
2F	4,5	18	FRP (2X0,5)	1200	600	-40°C to +70°C
4F	5,0	22	FRP (2X0,9)	1200	600	-40°C to +70°C
8F	5,5	28	FRP (2X0,9)	1200	600	-40°C to +70°C
12F	5,5	28	FRP (2X0,9)	1200	600	-40°C to +70°C
24F	6,0	30	FRP (2X0,9)	1200	600	-40°C to +70°C

FiberTechnic® AERO FLAT Z-XOTKtcdp 2-24F G.652D 1,7 kN SPAN 70m

CE made in **EUR**

Application

Multipurpose, outdoor cable for aerial and duct installation.

Features

- UV resistant
- small diameter
- lightweight
- flexible
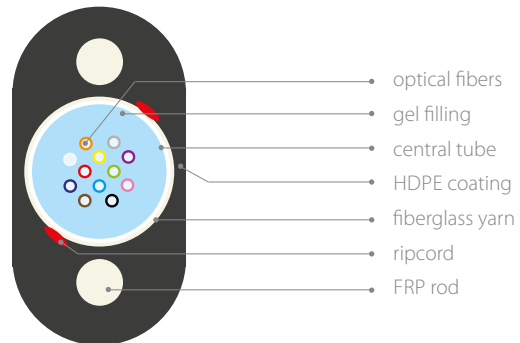- small bending radius
- high performance

Mechanical and usage characteristics

Crush resistance: 1500 [N/10 cm]
Bending radius:
- static: 15 x cable diameter
- dynamic: 20 x cable diameter
Compliance: EN 187101, IEC 60794-1-2-E11

optical fibers
gel filling
central tube
HDPE coating
fiberglass yarn
ripcord
FRP rod

High quality polyethylene HDPE outer jacket.
ITU-T G.652D **Corning** fibers.
BASF fiber tubes.
Fiberglass yarn strengthening.

Identification of fibers and tubes

1-12	1	2	3	4	5	6	7	8	9	10	11	12
tubes | fibers	●	●	●	○	●	●	●	●	●	●	●	●
color	red	green	blue	white	purple	orange	grey	yellow	brown	pink	black	turquoise

Fibers	Cable diameter [mm]	Weight [kg/km]	Strengthening elements [mm]	Tensile strength-installation [N]	Tensile strength- operation [N]	Working temperature range
2F	2,6x5,6	15,4	FRP (2x0,5)	1200	500	-40°C to +70°C
4F	2,6x5,7	15,4	FRP (2x0,9)	1200	500	-40°C to +70°C
8F	3,3x6,0	19,8	FRP (2x0,9)	1200	500	-40°C to +70°C
12F	3,3x6,0	19,9	FRP (2x0,9)	1200	500	-40°C to +70°C
24F	4,2x6,6	25,1	FRP (2x0,9)	1200	500	-40°C to +70°C

FiberTechnic® ADSS Z-XOTKtsdD 12-144F G.652D **Corning** 3,0 kN (SPAN 100 m)
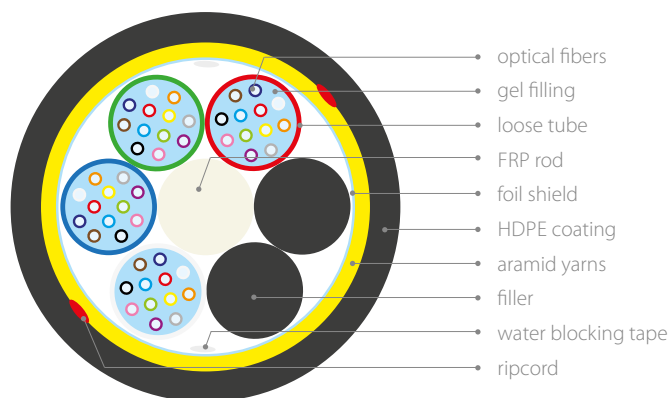

CE made in **EUR**
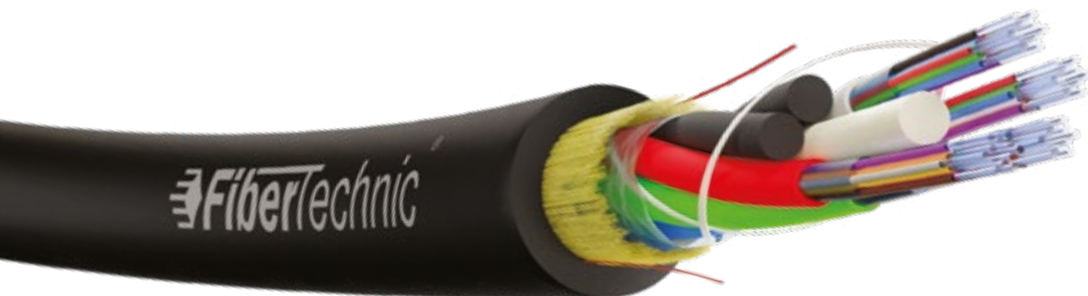
Application

Self-supporting aerial cable designed for mounting on poles with SPAN up to 100m. Cables can be also used in ducts. Available with 12 to 144 fibers.

Features

- self-supporting cable with aramid strengthening
- high performance
- fully dielectric
- UV resistant

Mechanical and usage characteristics

Crush resistance: 2000 [N/10 cm]
Bending radius:
- static: 15 x cable diameter
- dynamic: 20 x cable diameter
Compliance: EN 187101, IEC 60794-1-2-E11

- optical fibers
- gel filling
- loose tube
- FRP rod
- foil shield
- HDPE coating
- aramid yarns
- filler
- water blocking tape
- ripcord

High quality polyethylene PE outer jacket.
ITU-T G.652D **Corning** fibers.
BASF fiber tubes.
Aramid yarn strengthening.

Identification of fibers and tubes

1-12	1	2	3	4	5	6	7	8	9	10	11	12
tubes | fibers	●	●	●	○	●	●	●	●	●	●	●	●
color	red	green	blue	white	purple	orange	grey	yellow	brown	pink	black	turquoise

	Fibers	Cable diameter [mm]	Weight [kg/km]	Strengthening elements [mm]	Tensile strength-installation [N]	Tensile strength- operation [N]	Working temperature range
12F	1Tx12F	8,5	49,2	FRP (1,8)	3000	1500	-40℃ to +70℃
12F	2Tx6F	8,5	49,2	FRP (1,8)	3000	1500	-40℃ to +70℃
24F	2Tx12F	9,0	54,1	FRP (1,8)	3000	1500	-40℃ to +70℃
24F	4Tx6F	9,0	57,6	FRP (1,8)	3000	1500	-40℃ to +70℃
36F	3Tx12F	9,0	57,6	FRP (1,8)	3000	1500	-40℃ to +70℃
48F	4Tx12F	9,0	61,1	FRP (2,0)	3000	1500	-40℃ to +70℃
72F	6Tx12F	9,0	69,5	FRP (2,0)	3000	1500	-40℃ to +70℃
96F	8Tx12F	10,4	90,1	FRP (2,0)	3000	1500	-40℃ to +70℃
144F	12Tx12F	12,8	134,5	FRP (2,0)	3000	1500	-40℃ to +70℃

FiberTechnic® DAC Z-XOTKtcdD 2-24F 9/125 ITU-T G.652D 4 kN

CE made in **EUR**

Application

Cable designed for laying directly in the ground and in protective pipes. Used in FTTX and point-to-point solutions. Ideal for installation in distribution cabinets and customer boxes.

Features

- 4kN crush resistant
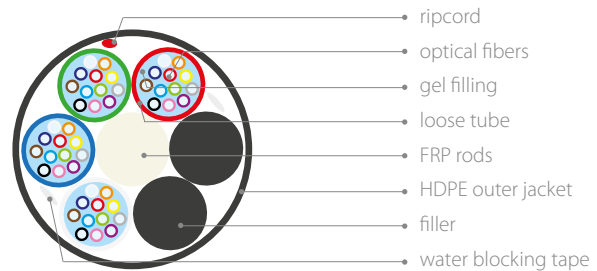- fully dielectric
- orange HDPE outer jacket

Mechanical and usage characteristics

Crush resistance: 4000 [N/10 cm]
Bending radius:
- static: 15 x cable diameter
- dynamic: 20 x cable diameter
Compliance: EN 187101, IEC 60794-1-2-E11

- optical fibers
- gel filling
- central tube
- FRP rods
- HDPE outer jacket
- fiberglass yarns
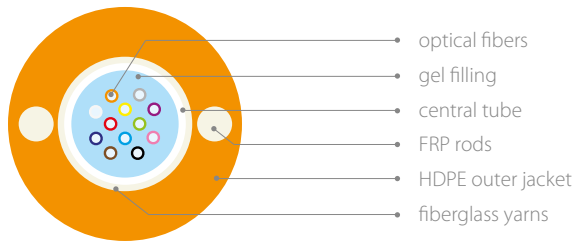
High quality polyethylene HDPE outer jacket.
ITU-T G.652D / G.657A1 **Corning** fibers.
BASF fiber tubes.

Identification of fibers and tubes

1-12	1	2	3	4	5	6	7	8	9	10	11	12
tubes | fibers	●	●	●	○	●	●	●	●	●	●	●	●
color	red	green	blue	white	purple	orange	grey	yellow	brown	pink	black	turquoise

Fibers	Cable diameter [mm]	Weight [kg/km]	Strengthening elements [mm]	Tensile strength-installation [N]	Tensile strength- operation [N]	Working temperature range
2F	6,0	30	FRP (2X0,9)	1200	600	-40°C to +70°C
4F	6,0	30	FRP (2X0,9)	1200	600	-40°C to +70°C
8F	6,0	30	FRP (2X0,9)	1200	600	-40°C to +70°C
12F	6,0	32	FRP (2X0,9)	1200	600	-40°C to +70°C
24F	6,0	34	FRP (2X0,9)	1200	600	-40°C to +70°C

FiberTechnic® Micro 12-144F G.652D **Corning** 0,65 kN

CE made in **EUR**

Application

Microduct cabling for air-blowing in 14/10 mm and 12/8 mm ducts. Additionally cable can be installed in trays, ducts, pipes and wherever there is no risk of damage by rodents.

Features

- small diameter
- air-blowing application
- fully dielectric
- UV resistance

Mechanical and usage characteristics

Crush resistance: 300 [N/10 cm]
Bending radius:
- static: 15 x cable diameter
- dynamic: 20 x cable diameter
Compliance: EN 187101, IEC 60794-1-2-E11

- ripcord
- optical fibers
- gel filling
- loose tube
- FRP rods
- HDPE outer jacket
- filler
- water blocking tape

High quality polyethylene PE outer jacket.
ITU-T G.652D **Corning** fibers.
BASF fiber tubes.

Identification of fibers and tubes

1-12	1	2	3	4	5	6	7	8	9	10	11	12
tubes | fibers	🔴	🟢	🔵	⚪	🟣	🟠	⚪	🟡	🟤	🟣	⚫	🔵
color	red	green	blue	white	purple	orange	grey	yellow	brown	pink	black	turquoise

Fibers		Cable diameter [mm]	Weight [kg/km]	Strengthening elements [mm]	Tensile strength-installation [N]	Tensile strength- operation [N]	Working temperature range
12F	1Tx12F	5,5	19,8	FRP (1,2)	650	500	-40°C to +70°C
12F	2Tx6F	5,5	19,8	FRP (1,2)	650	500	-40°C to +70°C
24F	2Tx12F	5,5	22,2	FRP (1,6)	650	500	-40°C to +70°C
24F	4Tx6F	5,5	22,2	FRP (1,6)	650	500	-40°C to +70°C
36F	3Tx12F	5,5	24,5	FRP (1,6)	650	500	-40°C to +70°C
48F	4Tx12F	5,5	26,8	FRP (1,6)	650	500	-40°C to +70°C
72F	6Tx12F	5,5	29,2	FRP (1,6)	650	500	-40°C to +70°C
96F	8Tx12F	6,5	50,3	FRP (1,6)	650	500	-40°C to +70°C
144F	12Tx12F	7,9	68,0	FRP (1,6)	650	500	-40°C to +70°C

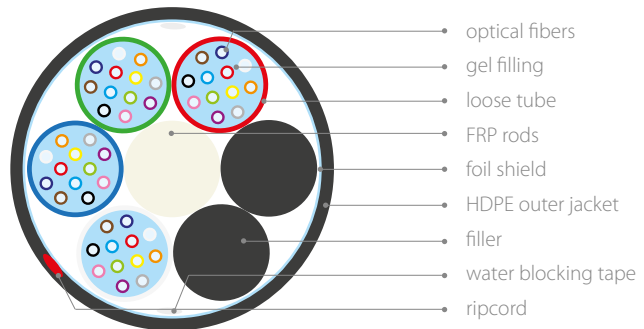# FiberTechnic® Lite Z-XOTKtsd 12-144F G.652D 1,5 kN

CE made in EUR

Application

Cable with reduced diameter, designed to be used in outdoor installations, telecommunication ducts and trays. Available with 12 to 144 fibers.

Features

- small diameter
- lightweight
- high performance
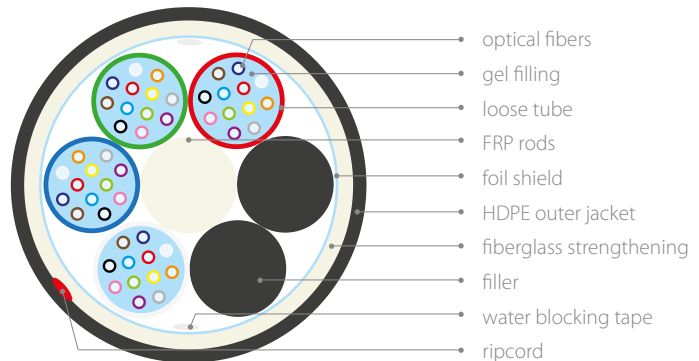- flexible, easy to strip
- UV resistance

Mechanical and usage characteristics

Crush resistance: 2000 [N/10 cm]
Bending radius:
- static: 15 x cable diameter
- dynamic: 20 x cable diameter
Compliance: EN 187101, IEC 60794-1-2-E11

- optical fibers
- gel filling
- loose tube
- FRP rods
- foil shield
- HDPE outer jacket
- filler
- water blocking tape
- ripcord

High quality polyethylene PE outer jacket.
ITU-T G.652D fibers.
BASF fiber tubes.

Identification of fibers and tubes

1-12	1	2	3	4	5	6	7	8	9	10	11	12
tubes | fibers	⬤	⬤	⬤	◯	⬤	⬤	⬤	⬤	⬤	⬤	⬤	⬤
color	red	green	blue	white	purple	orange	grey	yellow	brown	pink	black	turquoise

Fibers		Cable diameter [mm]	Weight [kg/km]	Strengthening elements [mm]	Tensile strength-installation [N]	Tensile strength- operation [N]	Working temperature range
12J	1Tx12F	7,5	39,5	FRP (1,5)	1500	600	-40℃ to +70℃
12J	2Tx6F	7,5	41,8	FRP (1,5)	1500	600	-40℃ to +70℃
24J	2Tx12F	7,5	39,9	FRP (1,5)	1500	600	-40℃ to +70℃
24J	4Tx6F	7,5	41,3	FRP (1,5)	1500	600	-40℃ to +70℃
36J	3Tx12F	7,5	41,3	FRP (1,5)	1500	600	-40℃ to +70℃
48J	4Tx12F	7,5	42,6	FRP (1,5)	1500	600	-40℃ to +70℃
72J	6Tx12F	7,5	45,3	FRP (1,5)	1500	600	-40℃ to +70℃
96J	8Tx12F	8,6	58,0	FRP (1,8)	1500	800	-40℃ to +70℃
144J	12Tx12F	10,4	77,1	FRP (1,8)	1500	1000	-40℃ to +70℃

FiberTechnic® Z-XOTKtsdDb 12-144F G.652D **Corning** 1,5 kN

CE made in EUR

Application

Reinforced cable designed to be used in outdoor installations, telecommunication ducts and trays. Available with 12 to 144 fibers.

Features

- small diameter
- lightweight
- high performance
- flexible, easy to strip
- UV resistance

Mechanical and usage characteristics

Crush resistance: 2500 [N/10 cm]
Bending radius:
- static: 15 x cable diameter
- dynamic: 20 x cable diameter
Compliance: EN 187101, IEC 60794-1-2-E11

- optical fibers
- gel filling
- loose tube
- FRP rods
- foil shield
- HDPE outer jacket
- fiberglass strengthening
- filler
- water blocking tape
- ripcord

High quality polyethylene HDPE outer jacket.
ITU-T G.652D **Corning** fibers.
BASF fiber tubes.
Fiberglass yarn strengthening.

Identification of fibers and tubes

1-12	1	2	3	4	5	6	7	8	9	10	11	12
tubes | fibers	●	●	●	○	●	●	●	●	●	●	●	●
color	red	green	blue	white	purple	orange	grey	yellow	brown	pink	black	turquoise

Fibers		Cable diameter [mm]	Weight [kg/km]	Strengthening elements [mm]	Tensile strength-installation [N]	Tensile strength- operation [N]	Working temperature range
12F	1Tx12F	8,0	49,0	FRP (1,8)	1500	1000	-40℃ to +70℃
12F	2Tx6F	8,0	49,0	FRP (1,8)	1500	1000	-40℃ to +70℃
24F	2Tx12F	8,3	50,7	FRP (1,8)	1500	1000	-40℃ to +70℃
24F	4Tx6F	8,3	50,9	FRP (1,8)	1500	1000	-40℃ to +70℃
36F	3Tx12F	8,3	52,0	FRP (1,8)	1500	1000	-40℃ to +70℃
48F	4Tx12F	8,5	53,0	FRP (1,8)	1500	1000	-40℃ to +70℃
72F	6Tx12F	8,5	54,2	FRP (1,8)	1500	1000	-40℃ to +70℃
96F	8Tx12F	10,4	89,2	FRP (3,0)	1500	1000	-40℃ to +70℃
144F	12Tx12F	12,5	118,3	FRP (5,4)	1500	1000	-40℃ to +70℃

FiberTechnic® 1F G657A2 DROP LSZH 3 mm white – 1000m

CE made in **EUR**

Application

Round cable with aramid yarns for indoor use in FTTx systems. Construction is designed to secure optical fiber and allow easy installation. G.657A2 fiber provides small bending radius.

Features

- LSZH jacket
- flexible, small bending radius
- small diameter and lightweight
- aramid yarn strengthening

Mechanical and usage characteristics

Tensile strength: 120 N
Fire-resistant
1000 m spools

aramid yarn
optical fiber
900um buffer
LSZH jacket

Fiber	Cable diameter [mm]	Weight [kg/km]	Packing	Jacket thickness	Tensile strength – installation [N]
G657A2	3	10	1000 m spool	LSZH (0.45)	120

FiberTechnic® Aero DROP 2-12F 9/125 G.657A2 **Corning** 3 mm

CE made in **EUR**

Application

Multipurpose, outdoor cable for aerial FTTx installation.

Features

- UV resistance
- small diameter
- lightweight
- flexible, small bending radius
- high performance
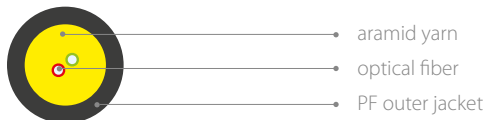
Mechanical and usage characteristics

Crush resistance: 200 [N/10 cm]
Tensile strength : 800 N

- aramid yarn
- optical fiber
- PF outer jacket

High quality polyethylene PE outer jacket.
ITU-T G.652D **Corning** fibers.

Identification of fibers and tubes

1-12	1	2	3	4	5	6	7	8	9	10	11	12
tubes | fibers	🔴	🟢	🔵	⚪	🟣	🟠	⚪	🟡	🟤	🩷	⚫	🔵
color	red	green	blue	white	purple	orange	grey	yellow	brown	pink	black	turquoise

Fiber	Cable diameter [mm]	Weight [kg/km]	Jacket thickness [mm]	Tensile strength – installation [N]	Working temperature range
2	3	8,5	0,52	120	-40° C to +60° C
4	3	8,5	0,52	120	-40° C to +60° C
8	3	9,2	0,52	120	-40° C to +60° C
12	3,2	9,5	0,52	120	-40° C to +60° C

SPARE CABLE FRAME

Made from aluminium. Frame ensures proper bending radius of cable and safe storage of spare cable. Designed to be installed on square and round telecommunication poles.

Special brackets and holes in frame allow mounting it with steel strips or mounting pins. Fiber optic enclosures can be mounted to the frame with special adapters.
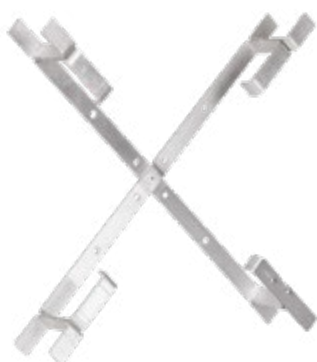
ALU 600 spare cable frame
with grip and lock
ID: 6388

SZD-5 spare aerial cable frame
with 20 cm spacer
ID: 7223

ALU 500 / ALU 600
spare cable frame
ID: 3903 / 3904
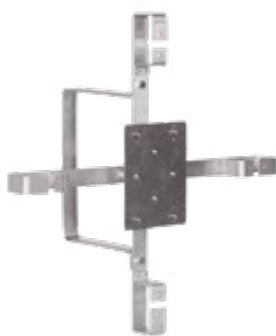
SZD-6 spare aerial cable frame
with 20 cm spacer
ID: 5335

Spare DROP cable frame
with spacer
ID: 5768
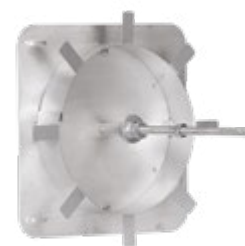
Spare DROP cable frame
with mounting screw
ID: 3936

Type	Usage	Construction	Diameter [mm]	Material
Spare DROP cable frame with mounting screw	to install on square and round telecommunication poles	–	160	aluminium
Spare DROP cable frame with spacer	to install on square and round telecommunication poles	–	160	aluminium
ALU 500 spare cable frame	to install on square and round telecommunication poles	four arms	500	aluminium
ALU 600 spare cable frame	to install on square and round telecommunication poles	four arms	600	aluminium
SZD-5 spare aerial cable frame with 20 cm spacer	to install on square and round telecommunication poles	three arms	550	aluminium
SZD-6 spare aerial cable frame with 20 cm spacer	to install on square and round telecommunication poles	four arms	640	aluminium
ALU 600 spare cable frame with additional grip and lock	to install on square and round telecommunication poles	four arms	605	aluminium

FiberTechnic® FTECH GPON OLT/ONU

FiberTechnic® OLT is main device of OLT GPON broadband used in GPON networks.
It is ITU G.984.x G.988 and FSAN complaint.

FiberTechnic® OLT is 1U rack-mounted device with 8 or 16 SFP GPON ports. Each GPON port supports splitting ratio of 1:128, providing downstream bandwidth of 2,5 Gb/s and upstream bandwidth of 1,25 Gb/s.

Single OLT can support up to 2048 GPON terminals. Unit comes with two AC power supplies to provide redundancy in case of failure.

CE

FiberTechnic® OLT GPON FD1608S-B0 8/16xSFP C++
2x10GBIT 4/8x1G UPLINK COMBO +2xAC
ID: 7746 / 7946

- 1U height, RACK 19"
- supports up to 1024/2048 GPON terminals (1:128)
- built – in UPLINK 2x10GE card
- max. transmission distance 20 km
- management interfaces: CLI, WEB, SNMP, TELNET, SSH, OMCI standard
- QoS compatibility
- layer 2 protocol functions: TRUNK, VLAN, IGMP, LACP, flow control technology, ACL

FiberTechnic® Ftech Optical Network Terminals (ONT) allow high data transmission rates for VoIP, Internet, HD video, IPTV.

FiberTechnic® Ftech devices are compatible with OLT's of brands such as Huawei, ZTE, Fiberhome, Alcatel-Lucent, Dasan.

IEEE 802.11 a/b/g/n/ac complaint with transfer rates up to 300 Mbps for 2.4 GHz and 876 Mbps for 5 GHz.

CE

FiberTechnic® Ftech G-01 GPON / EPON ONU ONT 1GE + 1GPON SC/APC router/bridge
ID: 7743

CE

FiberTechnic® Ftech G-04 GPON / EPON SFU ONU 4GE SC/APC
ID: 8432

CE

FiberTechnic® Ftech GW-04-DF GPON / EPON ONU 4GE+2POTS+Dual-Band WIFI AC SC/APC
ID: 7873

VERTICAL FIBER OPTIC PATCH PANEL

Patch panel fits up to 12 modules and is used to organize fiber optic cables, by using pigtails or splitters. Solution allows to organize up to 144 optic fibers with SC SIMPLEX adapters or up to 288 optic fibers with LC DUPLEX adapters. Smart design allows easy and time-saving way of organizing fiber optic cables used in EPON/ GPON setups.

Fibers are easily organized in slide-out cassettes, which are available separately. The variety of options allow to implement any needed solution. Modular 3U patch panels are dedicated for multitube fiber optic cables, where organization in standard patch panel is very difficult.

To make installation even easier RT-12P tube organizer is used. Thanks to Richco transport tube, fibers are neatly lead out from modules. This way fibers are can be securely installed inside the cabinet.
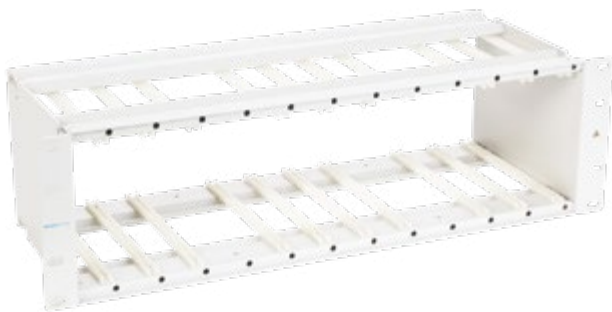
3U vertical chassis
ID: 3371
PRODUKT POLSKI CE

3U vertical recessed chassis
ID: 3781
PRODUKT POLSKI CE

Example of equipped patch panel
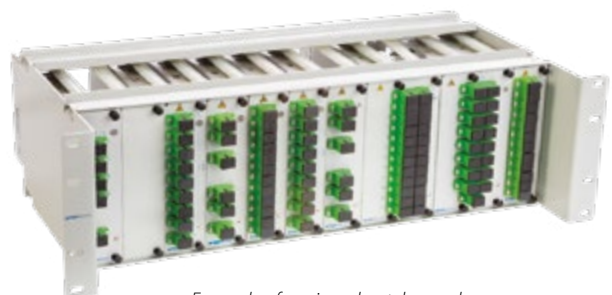
Example of equipped patch panel

VERTICAL FIBER OPTIC PATCH PANEL MODULES

Examples of equipped modules

12xSC duplex VERTICAL
module
ID: 3386
PRODUKT POLSKI CE

12xSC simplex VERTICAL
module
ID: 3385
PRODUKT POLSKI CE

SPLITTER 1:16 SC VERTICAL
module
ID: 3416
PRODUKT POLSKI CE

SPLITTER 1:2 X 2 SC VERTICAL
module
ID: 3387
PRODUKT POLSKI CE

SPLITTER 1:4 SC VERTICAL
module
ID: 3388
PRODUKT POLSKI CE

SPLITTER 1:8 SC VERTICAL
module
ID: 3389
PRODUKT POLSKI CE

Splitter 1:8 LC VERTICAL
module
ID: 6070
PRODUKT POLSKI CE

Splitter 1:16 LC VERTICAL
module
ID: 6071
PRODUKT POLSKI CE

12xLC duplex VERTICAL
module
ID: 6066
PRODUKT POLSKI CE

Splitter 1:8 x 2 LC VERTICAL
module
ID: 6072
PRODUKT POLSKI CE

Splitter 1:4 x 3 LC VERTICAL
module
ID: 6073
PRODUKT POLSKI CE

Splitter 1:2 x 4 LC VERTICAL
module
ID: 6067
PRODUKT POLSKI CE

LGX PATCH PANELS

Patch panel is used for organization of fiber optic cables using splitters.

Smart design allows easy and time-saving way of mounting and access to fiber optic splitters.

Fibers are easily organized in slide-out cassettes, which can be bought separately. The variety of configurations allow to implement any needed solution.
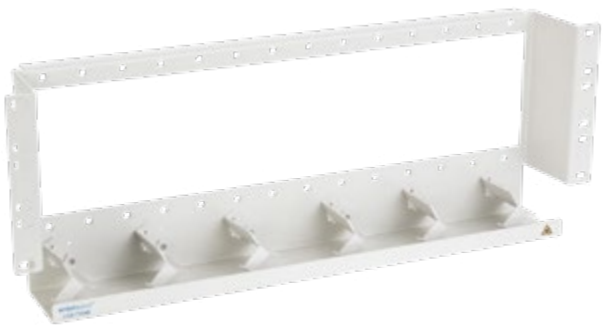
LGX 4U chassis
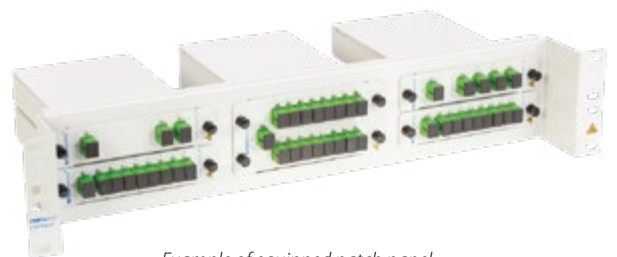with organizer for PLC cassette splitter
ID: 3782

PRODUKT POLSKI C E
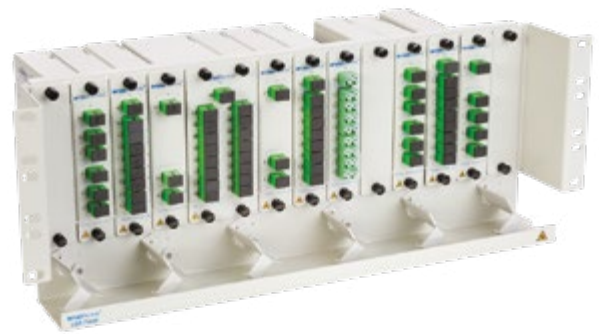
Example of equipped patch panel

LGX 2U
for PLC cassette splitter
ID: 3784

PRODUKT POLSKI C E

Example of equipped patch panel

LGX 1U
for PLC cassette splitter
ID: 3785

PRODUKT POLSKI C E

Example of equipped patch panel

MODULES FOR LGX CHASSIS

Modules are sold as ready to use sets with mounted adapters and splitters

Splitter 1:2 SC/APC
LGX module
ID: 3786
PRODUKT POLSKI CE

Splitter 1:4 SC/APC
LGX module
ID: 3787
PRODUKT POLSKI CE

Splitter 1:2 X2 SC/APC
LGX module
ID: 3788
PRODUKT POLSKI CE

Splitter 1:8 SC/APC
LGX module
ID: 3789
PRODUKT POLSKI CE

Splitter 1:8 X2 SC/APC
LGX module
ID: 3790
PRODUKT POLSKI CE

Splitter 1:16 SC/APC
LGX module
ID: 3791
PRODUKT POLSKI CE

Splitter 1:2 X3 LC/APC
LGX module
ID: 6074
PRODUKT POLSKI CE

Splitter 1:4 LC/APC (LGX)
LGX module
ID: 6075
PRODUKT POLSKI CE

Splitter 1:8 LC/APC
LGX module
ID: 6076
PRODUKT POLSKI CE

Splitter 1:4 X2 LC/APC
LGX module
ID: 6078
PRODUKT POLSKI CE

RACK 19" fiber optic patch panels 12-144F | 1U | 2U | 3U

Front panels are exchangeable and available in many variations for different adapters and splitters. Inside the drawer there is special mounting screw for securing splices trays. 1U patch panel has space for max. 2 splice trays whereas 3U patch panels have space for max. 6 splice trays.

Fiber optic patch panel is used for organizing fiber optic cables with pigtails. It is equipped with a slide-out drawer with telescope rails that provide a full access for easy cable mounting.

RACK 19" 1U fiber optic patch panel:

• Slide-out or telescope slide-out
• color: ⬤ standard color or other color optional
• exchangeable front panel

PRODUKT POLSKI C E
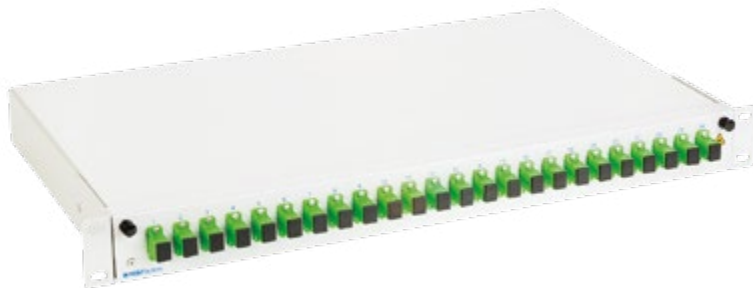
1U patch panel without equipment
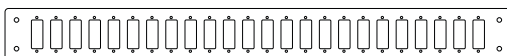ID: 3367, 3368, 5584, 5891
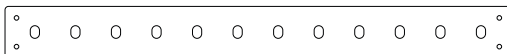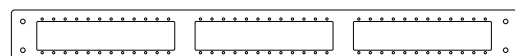
1U front panels
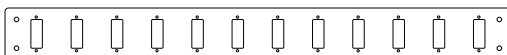
1U 12xST simplex front panel
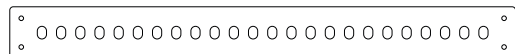
1U 24xST simplex front panel
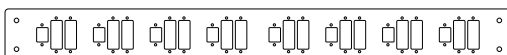
1U 24xSC duplex front panel
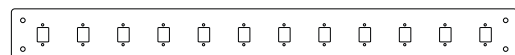
1U 36xSC duplex front panel

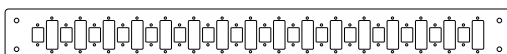1U 12xSC duplex front panel

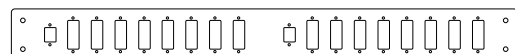1U 24xSC simplex/24xLC duplex front panel

1U splitter 1:4 X 8 front panel

1U 12xSC simplex/12xLC duplex front panel

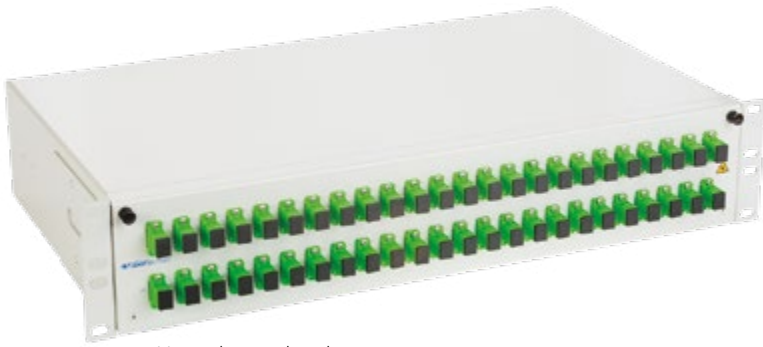1U SPLITTER 1:2 X 16 front panel

1U SPLITTER 1:16 x 2 front panel

1U SPLITTER 1:32 front panel

1U SPLITTER 1:8 x 5 front panel

RACK 19" 2U fiber optic patch panel:

- Slide-out or telescope slide-out
- color: ● standard color or other color optional
- exchangeable front panel

PRODUKT POLSKI C€

2U patch panel without equipment
ID: 4271

2U front panels

2U 48xSC simplex front panel

2U 48xSC duplex front panel
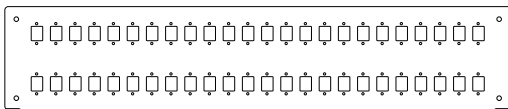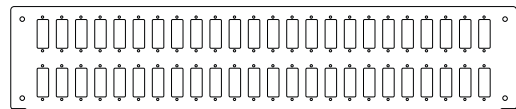

RACK 19" 3U fiber optic patch panel:

- Slide-out or telescope slide-out
- color: ● standard color or other color optional
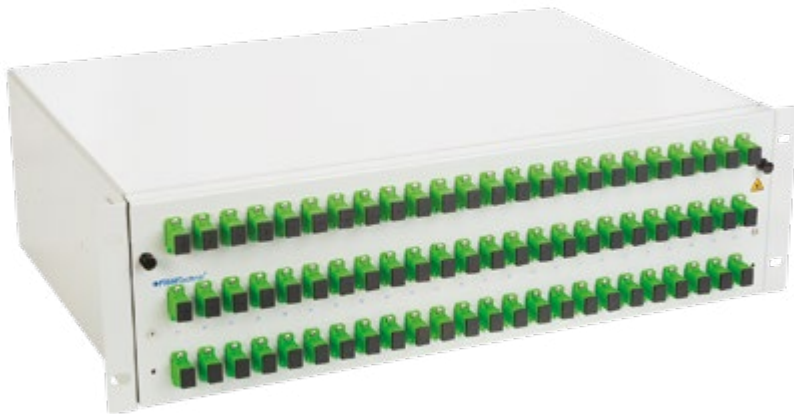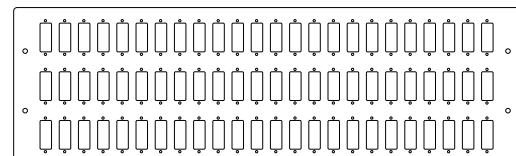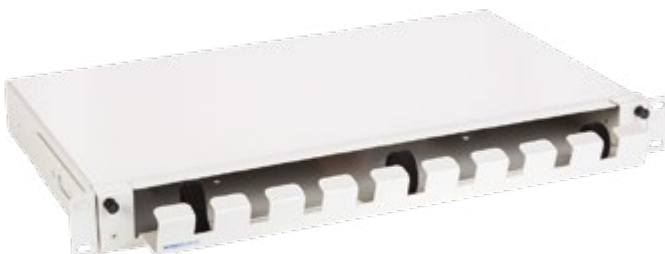- exchangeable front panel

PRODUKT POLSKI C€

3U patch panel without equipment
ID: 3370

3U front panels

3U 72xSC simplex front panel

3U 72xSC duplex front panel

1U RACK 19"
cable reserve shelf
ID: 4686

PRODUKT POLSKI C€

SFP, SFP+ MODULES

Designed to work with switches, routers and media converters widely used in telecommunication networks, offices and industrial networks (Industry series with wider range of operating temperature)

All modules come with snap – lock system which prevents accidental disconnection.

Complaint with SFP MSA and SFF-8472 standards.

Modules are compatible with most brands available on the market.

FiberTechnic® SFP 1,25 G
SM TX1310 10 km LC duplex DDM
ID: 4135

FiberTechnic® SFP WDM 1,25 G
SM TX1310 RX1550 3 km SC DDM
ID: 4152

FiberTechnic® SFP+ 10 G
MM 850 nm 300 m LC duplex DDM
ID: 4142

FiberTechnic® SFP+ 10 G
10G RJ45 SFP-10G-T01 G10G BASE-T Z RJ45
ID: 6798

Type	Construction	Fiber	Bidi	Duplex	Transmission speed [Gbit/s]	Connector	Transmission distance [km]	TX [nm]	RX [nm]
FS-1324-FL10	SFP	SM	no	yes	1,25	LC	10	1310	1310
FS-1324-FL20	SFP	SM	no	yes	1,25	LC	20	1310	1310
FS-1324-FL40	SFP	SM	no	yes	1,25	LC	40	1310	1310
FS-1524-FL40	SFP	SM	no	yes	1,25	LC	40	1550	1550
FS-0824-VL05	SFP	MM	no	yes	1,25	LC	0,55	850	850
FS-1303-FL02	SFP	MM	no	yes	1,25	LC	2	1310	1310
FS-AND-T01	SFP	–	no	yes	1	RJ45	0,1	–	–
FS-1G-T01	SFP	–	no	yes	1	RJ45	0,1	–	–
FS-B3524-FS03	SFP	SM	yes	no	1,25	SC	3	1310	1550
FS-B5324-FS03	SFP	SM	yes	no	1,25	SC	3	1550	1310
FS-B3524-FL03	SFP	SM	yes	no	1,25	LC	3	1310	1550
FS-B5324-FL03	SFP	SM	yes	no	1,25	LC	3	1550	1310
FS-B3524-FS20	SFP	SM	yes	no	1,25	SC	20	1310	1550
FS-B5324-FS20	SFP	SM	yes	no	1,25	SC	20	1550	1310
FS-B3524-FL20	SFP	SM	yes	no	1,25	LC	20	1310	1550
FS-B5324-FL20	SFP	SM	yes	no	1,25	LC	20	1550	1310
FS-B3524-FS40	SFP	SM	yes	no	1,25	SC	40	1310	1550
FS-B5324-FS40	SFP	SM	yes	no	1,25	SC	40	1550	1310
FS-B3524-FL40	SFP	SM	yes	no	1,25	LC	40	1310	1550
FS-B5324-FL40	SFP	SM	yes	no	1,25	LC	40	1550	1310
FSP-08192-VL03	SFP+	MM	no	yes	10	LC	0,3	850	850
FSP-13192-DL10	SFP+	SM	no	yes	10	LC	10	1310	1310
FSP-B32192-DL20	SFP+	SM	yes	no	10	LC	20	1270	1330
FSP-B23192-DL20	SFP+	SM	yes	no	10	LC	20	1330	1270

SM, MM, SM/MM MEDIA CONVERTERS

Media converters are used to convert optical signal (100/1000Base-Fx) to copper transmitted one (10/100/1000Base-Tx).

All media converters are IEEE802.3X compliant.

Depending on the model, converters may have SC optical connector and UTP RJ45 connector or empty slot for SFP module.

Auto-detection of transmission mode (half or full duplex for TX port).

Auto-negotiation 10/100/1000 Mbps and automatic MDI/MDIX detection.

WDM SM TX1550 RX1310 nm SC 20 km
media converter
ID: 8075

WDM SM TX1550 RX1310 nm SC 20 km
media converter
ID: 4156

WDM SM TX1310 RX1550 nm SC 20 km
media converter
ID: 4157

10/100/1000 MB MM 850 nm SC
duplex 550 m media converter

ID: 4155

10/100/1000 MB SM 1310 nm SC
duplex 20 km media converter

ID: 4161

SFP RJ45 10/100/1000 MB
media converter
ID: 4160

| Type	Fiber	Bidi	Duplex	Transmission speed [Mb/s]	Connector		Transmission distance [km]	TX [nm]	RX [nm]
FCM-110-B20	SM	yes	no	10/100	1xSC/PC	1xRJ45	20	1310	1310
FCM-110-A20	SM	yes	no	10/100	1xSC/PC	1xRJ45	20	1310	1550
FCM-3100-F	SM/MM	–	no	10/100/1000	1xSFP	1xRJ45	40	1310	1550
FCM-3100-S20	SM	no	no	10/100/1000	2xSC/PC	1xRJ45	20	1310	1310
FCM101-08S05	MM	no	no	10/100/1000	2xSC/PC	1xRJ45	0,55	850	850

Patchcords and pigtails

High quality and repeatability of transmission parameters. Compliance with standards EN-50173-1, EIA/TIA568, EN 50377. Available with many types of connectors, cables and fibers.

CE
Patchcord E2000/APC-E2000/APC SM G.652D duplex 2 m
ID: 4039

CE
Patchcord SC/UPC-SC/UPC SM G.652D duplex 1 m
ID: 4023
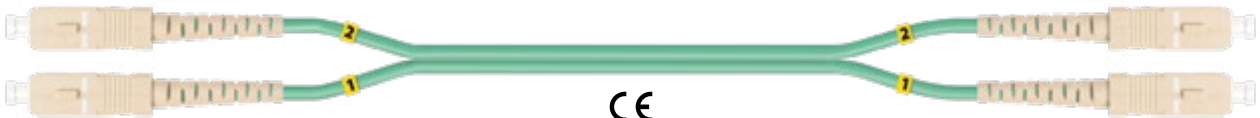
CE
Patchcord SC-SC MM OM3 duplex 15 m
ID: 4063

Available fiber optics:

Single mode SM

G652D	fiber with reduced water peak
G655	NZDS fiber for CWDM and DWDM transmission
G656	NZDS fiber for CWDM and DWDM transmission
G657A	fiber with reduced bending radius for FTTH usage, compatible with G.652
G657B	fiber with reduced bending radius for FTTH usage

Multimode

50/125 OM2,
50/125 OM3,
50/125 OM3+/OM4,
Giga optimized for 1310 nm, 1000Base-LX to 2000 m transmission
62,5/125 OM1.

Attenuation of random connections average dB Acc. IEC 61300-3-34	Attenuation realtive to a reference plug dB Acc. IEC 61300-3-34	Reflectance return loss dB IEC 61300-3-34
Plugs SM: ST, SC, FC, LC, E2000, MU, DIN		
IL plug-plug 97% ≤0,45 dB average ≤0,20 dB	IL max. ≤0,35 dB	RL PC >45 RL UPC >50
Plugs SM: MTRJ		
IL plug-plug 95% ≤0,6 dB average ≤0,30 dB	IL max. ≤0,75 dB	RL PC >35
Plugs SM MT: MTP, MPO		
IL plug-plug 97% ≤0,70 dB average ≤0,35 dB		RL >55
Plugs SM APC: SC/APC, FC/APC, LC/APC, E2000/APC, MU/APC, DIN/APC		
IL plug-plug 97% ≤0,45 dB average ≤0,20 dB	IL max. ≤0,35 dB	RL APC >65
Plugs MM: ST, SC, FC, LC, E2000, MU		
IL plug-plug 97% ≤0,70 dB		RL PC >30
Plugs MM: MTRJ average ≤0,35 dB		
IL plug-plug 97% ≤0,75 dB average ≤0,50 dB		RL PC >26
Plugs MM MT: MTP, MPO		
IL plug-plug 97% ≤1 dB average ≤0,50 dB		RL PC >26
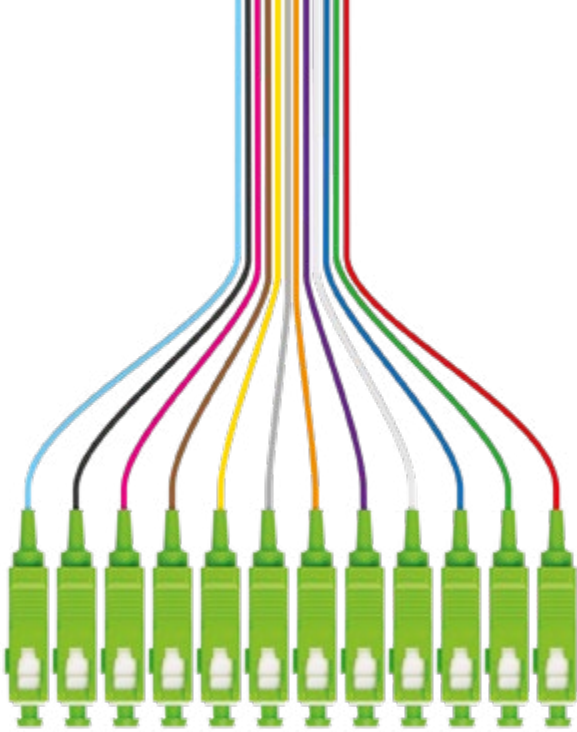
CE
12 x Pigtail FiberTechnic®
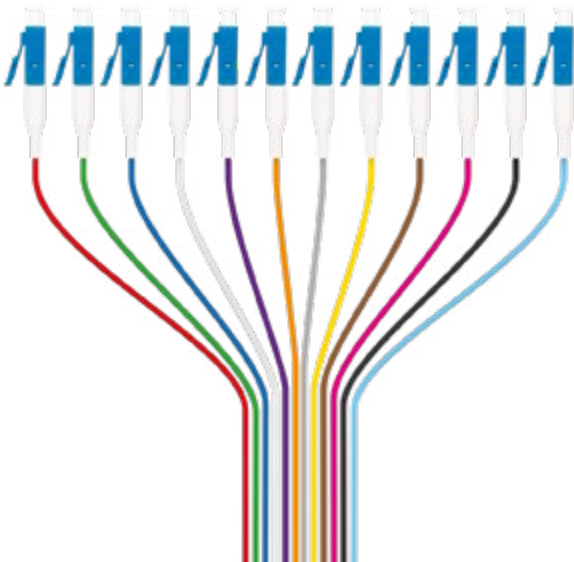SC/APC SM G.652D 2M 12 colors
ID: 3164

CE
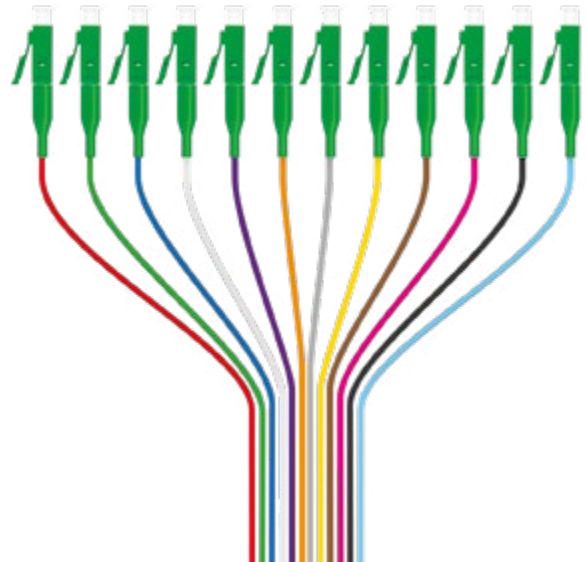Pigtail SC/APC SM 9/125 G.657A2 2 m
ID: 4109

CE
Pigtail SC/APC SM 9/125 G.652D 1 m
ID: 3940

CE
12 x Pigtail FiberTechnic®
LC/UPC SM G.652D 2M 12 colors
ID: 4200

CE
12 x Pigtail FiberTechnic®
LC/APC SM G.652D 2M 12 colors
ID: 4203

FIBER OPTIC ADAPTERS

FiberTechnic® offer includes high quality fiber optic adapters. Each adapter has ceramic ferrule inside.

FiberTechnic® adapters are equipped with steel clips. Key features include low insertion loss and low attenuation what translates to stable and reliable connection.

Adapters are GOLD quality with high repeatability of transmission parameters.

All FiberTechnic® adapters are EN-50173-1, EIA/TIA 568, EN 50377 compliant.

CE
SC/APC SM simplex adapter
ID: 1195

CE
LC/APC SM duplex adapter
ID: 1193

CE
SC/APC SM simplex adapter, no flange
ID: 4452

CE
LC MM OM4 duplex adapter
ID: 5091
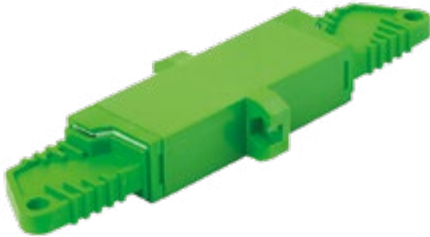
CE
E2000/APC SM simplex R&M
ID: 4202

CE
SC/SC SM duplex adapter
ID: 1198

CE
LC/UPC SM quad adapter
ID: 3938

Adapters									
	SC	SC/APC	LC	LC/APC	ST	FC	FC/APC	E2000	E2000/APC
Insertion loss IL [dB]					<0,2				
Life span [cycle]	500	500	500	500	500	500	500	500	500
Compliant	IEC 61754-4 JIS C5973, TIA 604-3		IEC 61754-20 TIA 604-10-A		IEC 60874-10 TIA 604-2	IEC 60874-7, JIS C5970 TIA 604-4		IEC 61754-15 DIN EN186270	
Working temperature range					-40 +85				
Colors	●●	●	●●	●	●	●	●	●●	●

MULTI-OPERATOR FIBER OPTIC CABINET

Design of the cabinet enables the cables to be routed from the telecommunication terminal to the building and distributed directly up to 128 subscribers.

The cabinet has 4 chambers, one distribution and 3 for internet service providers. It allows 3 different ISP to use one cabinet to distribute network to final subscribers. It also protects passive network elements such as adapters, pigtails, splitters and splice trays.

Distribution and ISP sections are separated from each other and secured with different access locks.
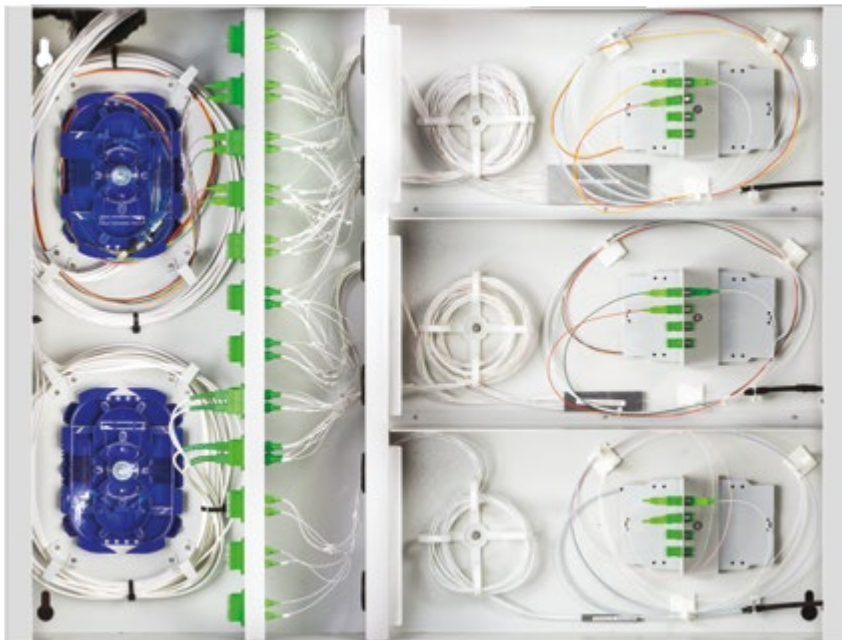
PRODUKT POLSKI C€
SZM-85/64/15 128HP
multi-operator cabinet
ID: 7824

Type	Height [mm]	Width [mm]	Depth [mm]	Material	Weight [kg]	Space for splice tray	Space for adapters	Usage
SZM-85/64/15 128HP multi-operator cabinet	635	850	150	steel	28	max. 8x 12-24J	64xSC duplex, 3x4xSC duplex	indoor

WALL-MOUNTED OPTICAL DISTRIBUTION CABINETS

Optical distribution cabinet for wall mounting. The cabinet protects passive elements of fiber optic networks. Designed to be used in FTTH networks.

Option to mount adapters, splitters and splice tray.

Double section cabinets have distribution and client section, each opened with a separate key.

PRODUKT POLSKI   CE

Dual chamber fiber optic cabinet with space for spare cable
PSND-37/26/18 48HP
ID: 3473

PRODUKT POLSKI   CE
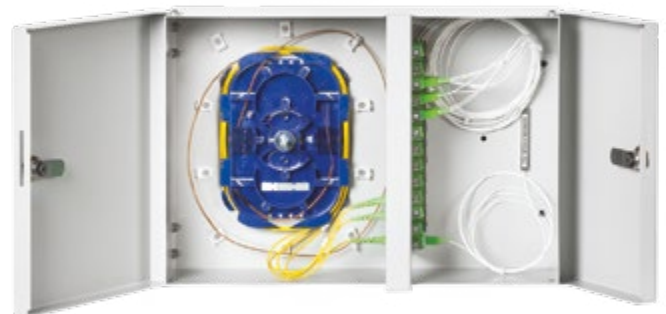
Dual chamber fiber optic cabinet 37/26/11 48HP
ID: 3498

Type	Height [mm]	Width [mm]	Depth [mm]	Material	Space for spare cable	Space for splice tray	Space for adapters	Usage
Dual chamber fiber optic cabinet with spare cable frame PSND-37/26/18 48HP	260	370	180	aluminium	yes	yes, 12-24F	24xSC duplex, 3xSC simplex	indoor
Dual chamber fiber optic cabinet 37/26/11 48HP	260	370	110	aluminium	no	yes, 12-24F	24xSC duplex, 3xSC simplex	indoor
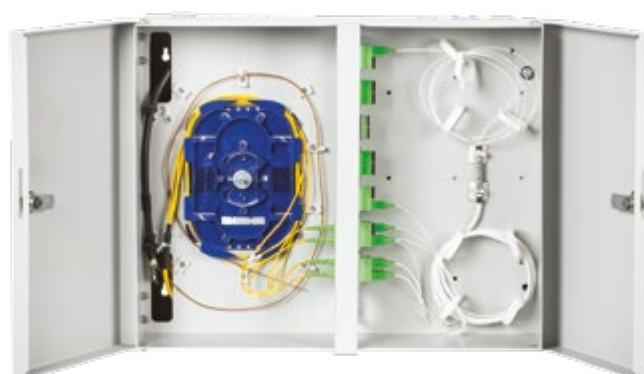
PRODUKT POLSKI C €
Dual chamber fiber optic cabinet with spare cable frame
PSND-43/34/18 84HP
ID: 4964

PRODUKT POLSKI C €
Reinforced fiber optic cabinet
510/540/110 60HP
ID: 3519

Type	Height [mm]	Width [mm]	Depth [mm]	Material	Space for spare cable	Space for splice tray	Space for adapters	Usage
Dual chamber fiber optic cabinet with spare cable frame PSND-43/34/18 84HP	340	423	180	aluminium	yes	yes, 12-24F	42xSC duplex, 4xSC simplex	indoor
Reinforced fiber optic cabinet 510/540/110 60HP	510	540	110	steel, aluminium	yes	yes, 12-24F	30xSC duplex	indoor

WALL - MOUNTED OPTICAL CABINET (SSN)

Cabinet designed for wall mounting with space inside for spare cable, splice trays (12-24 splices) and switch panel for adapters.

Embossing on the back wall allow arranging fibers with cable ties.
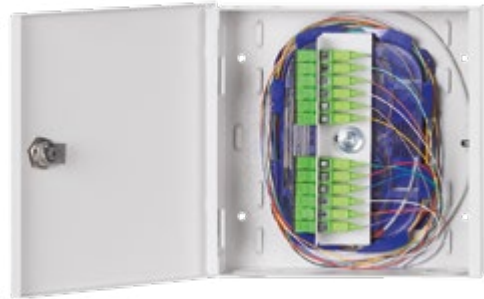
PRODUKT POLSKI C E
12xSC simplex SSN-200/200/55 wall cabinet
ID: 5287

PRODUKT POLSKI C E
6xSC duplex SSN-290/290/100 wall cabinet
ID: 4531

Type	Height [mm]	Width [mm]	Depth [mm]	Material	Space for splice tray	Space for adapters	Usage
12xSC simplex SSN-200/200/55 wall cabinet	200	200	55	aluminium	yes, 12-24F	12xSC simplex	indoor
6xSC duplex SSN-290/290/100 wall cabinet	290	290	100	aluminium	yes, 12-24F	6xSC duplex	indoor
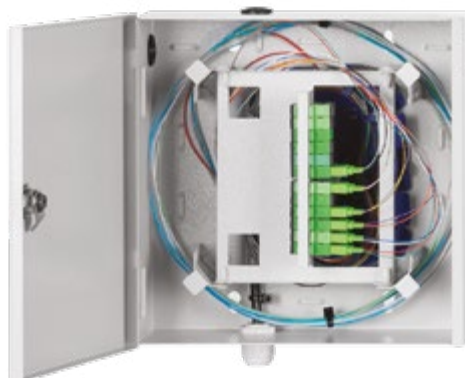
PRODUKT POLSKI CE
24HP 12xSC duplex SSN-250/250/100 wall cabinet
ID: 4477
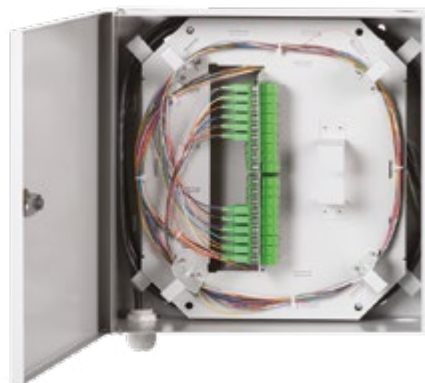
PRODUKT POLSKI CE
18xSC duplex SSN-300/300/100 wall cabinet
ID: 7781

Type	Height [mm]	Width [mm]	Depth [mm]	Material	Space for splice tray	Space for adapters	Usage
24HP 12xSC duplex SSN-250/250/100 wall cabinet	250	250	100	aluminium	yes, 12-24F	12xSC duplex	indoor
18xSC duplex SSN-300/300/100 wall cabinet	300	300	100	aluminium	yes, 12-24F	18xSC duplex	indoor

WALL - MOUNTED CABINETS FOR EASY ACCESS CABLES

Wall-mounted box designed for organizing easy-access spare cable in multi-level buildings. On the back wall of the cabinet are special brackets to adjust the cable easily.

PRODUKT POLSKI CE
Easy access cable distribution cabinet 200/200/55
ID: 5176

PRODUKT POLSKI CE
Easy access cable distribution cabinet 250/250/100
ID: 3462
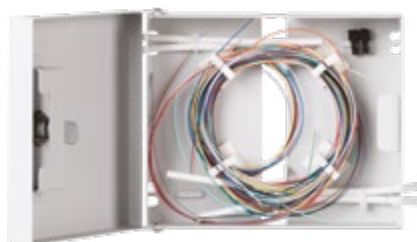
PRODUKT POLSKI CE
Easy access cable distribution cabinet 16/18/5
ID: 4212

Type	Height [mm]	Width [mm]	Depth [mm]	Material	Usage
Easy access cable distribution cabinet 200/200/55	200	200	55	steel	indoor
Easy access cable distribution cabinet 250/250/100	250	250	100	steel	indoor
Easy access cable distribution cabinet 16/18/5	160	180	50	steel	indoor

DISTRIBUTION CABINET

Cabinet designed for outdoor use for building point-point and FTTx fiber optic networks.

Cabinet consists of two parts – bottom and top. Bottom part is the base which is intended to be buried in the ground. Top part has space where fiber optics are organized by using splice trays, adapters and splitters.

PRODUKT POLSKI   CE
72HP SSF-1400/460/210
outdoor distribution cabinet
ID: 3474

PRODUKT POLSKI   CE
144J/216J magistral SSF-1360/620/445
outdoor distribution cabinet
ID: 3833 / 5351

PRODUKT POLSKI   CE
432J magistral SSF-1790/620/445
outdoor distribution cabinet
ID: 5495

Type	Height [mm]	Width [mm]	Depth [mm]	Material	Panel capacity [HP]	Space for splice tray	Space for adapters	Usage
72 HP SSF-1400/460/210 outdoor distribution cabinet	1400	460	210	aluminium	72	yes, 3x24F	36xSC duplex, 3xSC simplex	outdoor
144J magistral SSF 1360/620/445 outdoor distribution cabinet	1360	620	445	aluminium	144	yes, 6x24F	72xSC duplex, 10xSC simplex	outdoor
216J magistral SSF 1360/620/445 outdoor distribution cabinet	1360	620	445	aluminium	216	yes, 9x24F	108xSC duplex, 10xSC simplex	outdoor
432J magistral SSF-1790/620/445 outdoor distribution cabinet	1790	620	445	aluminium	432	yes, 18x24F	2x108xSC duplex, 2x10xSC simplex	outdoor

FiberTechnic®

OUTDOOR DISTRIBUTION CABINET 24/36HP

Cabinet designed as a distribution point for PON FTTH networks.

Distribution cabinet has two switch panels. One for magistral cable and second for subscriber cable. Each switch panel has space for adapters, ABS BOX splitters and splice trays.

PRODUKT POLSKI CE
Outdoor distribution cabinet FTTH SSF-1757/290/194 FTTH 36HP with access doors
ID: 6415

PRODUKT POLSKI CE
Outdoor distribution cabinet FTTH 36HP SSF-1757/290/194
ID: 4749 /4748

PRODUKT POLSKI CE
Outdoor distribution cabinet FTTH 24HP 1357/290/194
ID: 4490

Type	Height [mm]	Width [mm]	Depth [mm]	Material	Space for splice tray	Adapters	Panel capacity [HP]	Usage
Outdoor distribution cabinet FTTH SSF-1757/290/194 FTTH 36HP with access doors	1757	290	194	aluminium	yes, 2x24F	18xSC duplex 6xSC simplex	36	outdoor
Outdoor distribution cabinet FTTH 36HPSSF-1757/290/194	1757	290	194	aluminium	yes, 3x24F	24xSC simplex 6xSC simplex	24/36	outdoor
Outdoor distribution cabinet FTTH 24HP 1357/290/194	1357	290	194	aluminium	yes, 2x24F	12xSC duplex 4xSC simplex	24	outdoor

Cabinet designed as a distribution point for PON FTTH networks.

The distribution cabinet has a 3in1 adapter (AD3, AD4, AD6) for 12-48F enclosure and special adjustment panel for microducts and spare cable.

PRODUKT POLSKI CE
Outdoor distribution cabinet
FTTH SSF-1351/394/209
ID: 7112

PRODUKT POLSKI CE
Outdoor distribution cabinet
FTTH SSF-1355/295/208
ID: 6330

Type	Height [mm]	Width [mm]	Depth [mm]	Material	Usage
Outdoor distribution cabinet FTTH SSF-1351/394/209	1351	394	209	aluminium	outdoor
Outdoor distribution cabinet FTTH SSF-1355/295/208	1355	295	208	aluminium	outdoor

IP44 SINGLE SHELL OUTDOOR CABINETS

Aluminium PA11 outdoor cabinets are powder coated RAL7035. Key features include: good tensile strength, high fatigue resistance and rust resistance in offshore and industrial conditions. The cabinets are almost three times lighter than the same steel S235 cabinets.

Single access

Example of IP44 cabinet

PRODUKT POLSKI CE

Outdoor cabinet 19"
18U SK-1 STZ 1196/625/625 IP44
ID: 7663

Available options						
U Height	Height [mm]	Width [mm]	Depth [mm]	Weight [kg]	Material	IP rating
18	1196	600	600	27,5	aluminium	44
18	1196	800	600	29	aluminium	44
24	1464	600	600	30,5	aluminium	44
24	1464	800	600	32	aluminium	44
30	1729	600	600	33,5	aluminium	44
30	1729	800	600	35	aluminium	44

Standard equipment:
* doors secured with 3-point bolt and closed by handle with key lock
* special profile lip – allows water to be drained out which is especially important during temperatures below 0C
* polymer seal
* adjustable RACK rails
* removable floor panel
* gravity ventilation system

Features :
* Ingress protection rating IP56
* Impact protection rating IK10

Dual access

Example of IP44 dual access cabinet

PRODUKT POLSKI   C E

Outdoor cabinet
18U dual access STZD 1196/625/625 IP44
ID: 7676

Available options						
U Height	Height [mm]	Width [mm]	Depth [mm]	Weight [kg]	Material	IP rating
18	1196	600	600	38,5	aluminium	44
18	1196	800	600	40	aluminium	44
24	1464	600	600	42,5	aluminium	44
24	1464	800	600	44	aluminium	44
30	1729	600	600	46,5	aluminium	44
30	1729	800	600	48	aluminium	44

IP56 OUTDOOR CABINETS

IP56 rated FiberTechnic® cabinets come as standard with IP66 Morek cable gland for leading cables and pipes inside the cabinet.
Thanks to innovative, patented filtering casette design (Patent No. P.422067), FiberTechnic® cabinets are IP56 rated, which makes the inside of the cabinet secured against dust and water.

Key features:
- Ingress protection rating IP56
- Impact protection rating IK10

Single access outdoor cabinets

Example of outdoor cabinet

PRODUKT POLSKI CE
Outdoor cabinet 19" 18U IP56
STZ 1196/625/625
ID: 8627

Available options						
U Height	Height [mm]	Width [mm]	Depth [mm]	Weight [kg]	Material	IP rating
18	1196	600	600	29,5	aluminium	56
18	1196	800	600	31	aluminium	56
24	1464	600	600	32,5	aluminium	56
24	1464	800	600	34	aluminium	56
30	1729	600	600	35,5	aluminium	56
30	1729	800	600	37	aluminium	56

Standard equipment:
* doors secured with 3-point bolt and closed by handle with key lock
* special profile lip – allows water to be drained out, what is especially important during temperatures below 0 C
* polymer seal
* adjustable RACK rails
* removable floor panel
* IP66 MOREK MC 3/7 for leading cables and pipes inside the cabinet
* gravity ventilation system – in shape of side wall embossings, protected with patented cat. M-5 filtering cassettes (Patent No. P.422067, other options on demand).

Dual access outdoor cabinets

Example of dual access outdoor cabinet IP56

PRODUKT POLSKI CE
Dual access outdoor cabinet 19" 18U STZD
1196/625/625 z IP56
ID: 8628

Available options						
U Height	Height [mm]	Width [mm]	Depth [mm]	Weight [kg]	Material	IP rating
18	1196	600	600	40,5	aluminium	56
18	1196	800	600	42	aluminium	56
24	1464	600	600	44,5	aluminium	56
24	1464	800	600	46	aluminium	56
30	1729	600	600	48,5	aluminium	56
30	1729	800	600	50	aluminium	56

DOUBLE SHELL THERMO-INSULATED CABINETS

Double shell thermo-insulated cabinets are made using 2mm thick aluminium sheets joined by welds and rivets. Between the sheets there is a 30mm thick insulation.

The door hole has a special profile lip, which allows water to be squeezed out and provides additional sealing.

Insulation of double shell doors is 24mm thick. It seamlessly joins with the cabinet giving proper insulation of the internal chamber. Seals, closing mechanism and hinges are hiden in the external wall.

Features:
• Ingress protection rating IP56
• Impact protection rating IK10

Example of outdoor double shell IP56 cabinet

PRODUKT POLSKI   CE
Outdoor, double shell cabinet
22U STZ 1230/830/830 IP56
ID: 6944

Available options						
U Height	Height [mm]	Width [mm]	Depth [mm]	Weight [kg]	Material	IP rating
18	1196	600	600	42,5	aluminium	56
18	1196	800	600	45	aluminium	56
22	1230	800	800	48,5	aluminium	56
24	1464	600	600	52,5	aluminium	56
24	1464	800	600	56	aluminium	56
30	1729	600	600	58,5	aluminium	56
30	1729	800	600	61	aluminium	56

Example of outdoor double shell IP56 cabinet

Outdoor, double shell, insulated cabinet with three doors 26U STZD 1467/1381/830 IP56

ID: 7633

Standard equipment:
- doors are secured with 3-point bolt and closed by handle with key lock
- special profile lip – allows water to be squeezed out which is especially important during temperatures below 0
- polymer seal
- adjustable RACK rails
- removable floor panel
- IP66 MOREK MC 3/7 for leading cables and pipes inside the cabinet
- gravity ventilation system – in shape of side wall cutouts, protected with patented cat. M-5 filtering cassettes (Patent No. P.422067,other options on demand).

Example of outdoor double door IP56 cabinet

Outdoor, double shell, insulated cabinet, double door
22U STZD 1239/1330/830 IP56

ID: 5721

Available options						
U Height	Height [mm]	Width [mm]	Depth [mm]	Weight [kg]	Material	IP rating
22	1239	1330	830	82	aluminium	56
26	1467	1381	830	98	aluminium	56

OUTDOOR CABINETS WITH AIR CONDITIONING

Air conditioning unit CV011002208000 550W-2000W (I35/35)
- input voltage 230V AC 50-60Hz (380V AC as option)
- temperature inside the cabinet set to +35ºC
- refrigerant used: R134a (tetrafluoroethene), environmentally friendly. Cooling circuit closed and sealed
- airflow inside the cabinet separated from outside airflow

Removable floor panel – thanks to special seal, floor panel can be removed to mount cabinet to the base. In addition it makes leading cables into the cabinet easier.

TKTS-011 thermostate; bimetallic; automatically starts the AC unit when temperature exceedes given value
- max. input voltage: 250 V AC
- max. current consumption: 10A
- user-defined temperature range: 0℃ – 60℃
- operating temperature: -20℃ – 80℃
- IP rating: IP20

Doors:
- full, single leaf doors
- left hinges (right hinges optional), opening to 180 degrees
- secured with 3-point bolt system and closed by handle with key lock

Condensation drainage system: dry-decompression element placed in floor panel assures compliance with IP66 rating.

Internal ceiling – insulated panel located under the roof creates air pocket, which in tandem with insulated cabinet protects against water condensation at the top part of the cabinet

RACK rails and frames for rail mounting

Internal chamber is isolated by 20mm thick insulation

Example of air-conditioned cabinet

PRODUKT POLSKI (€

FiberTechnic® cabinets are compliant with following norms
PN-EN 50581:2013
PN-EN 60825-2:2009
PN-EN 62208:2011
PN-EN 60529:2003/A2:2014-07
PN-EN 62262:2003

OUTDOOR CABINET PLINTHS

Series of underground plinths designed to be a stable base for FiberTechnic® outdoor cabinets.

Each series of FiberTechnic® cabinets has its own unique plinth design that corresponds to type and size. Avialable as single unit or self-assembly two part set.

Cabinets are secured to the plinths with dedicated bolts.

Fully aluminium single unit design.

Steel, two-part plinth with Magnelis coating. Elements are joined together by six M6 bolts.
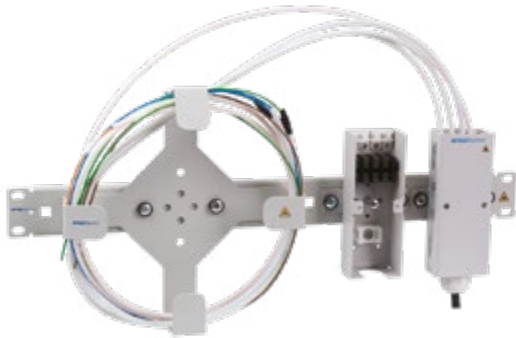
Example of plinth for double wall cabinet

PRODUKT POLSKI C E
Plinth for double-wall cabinet
STZD 736/532
ID: 5809

Example of self-assembly two-part plinth

PRODUKT POLSKI C E
Two-part plinth
for outdoor cabinets 600/600
ID: 6942

CABINET ACCESSORIES

PRODUKT POLSKI CE
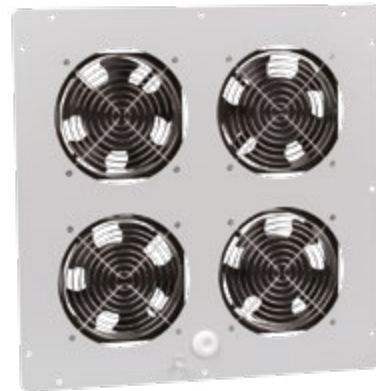Fiber tube splitter

PRODUKT POLSKI CE
Cabinet heating set with thermostat

PRODUKT POLSKI CE
Panel with radial fan for
STZ FiberTechnic® cabinets
ID: 8107

PRODUKT POLSKI CE
120mm panel with 4 ventilators
to STZ FiberTechnic® cabinets
ID: 6183

CE
Fan heater CCSL 028 250W 230V
mounted to DIN rail
ID: 6836/6818

CE
KTO-011
thermostat for heater
ID: 4488

CE
KTS-011
thermostat for fan
ID: 3809

OR-5 1U panel
for fiber tube splitters
ID: 3382

OR-8 3U panel
for fiber tube splitters
ID: 3383

Horizontal fiber optic
cable manager
ID: 3391

3U RACK 19"
Voltage distribution panel
ID: 4473

1U LED 19" RACK
Panel with motion sensor 24V DC
ID: 5750

2U 19" RACK
Battery shelve for 625mm cabinets
ID: 6411/ 6796

18U 19" RACK
Vertical cable manager
ID: 3460/3459

Door stop
ID: 7852

LanTechnic®

RACK INDOOR CABINETS

Hanging, one section cabinets for self-assembly, designed for installing 19" devices. The cabinets are ideal for building networks, installing cables, monitoring or alarm systems, as well as in server rooms

All cabinets have ventilation holes to ensure optimal airflow. It is possible to mount a fan in roof of the cabinets.

Devices which are not 19" can be placed in the cabinets on special shelves.

PRODUKT POLSKI C€

RACK 19 6U 600x600 mm hanging cabinet, black
ID: 8476

PRODUKT POLSKI C€

RACK 19 9U 600x600 mm hanging cabinet, black
ID: 8478

Type	Height [mm]	Width [mm]	Depth [mm]	Material	RACK rails	Maximum capacity [kg]	Weight [kg]	Usage
RACK 19 6U cabinet	378	600	600	steel	yes	60	19,4	indoor
	378	600	450					
RACK 19 9U cabinet	512	600	600	steel	yes	60	22,5	indoor
	512	600	450					

PRODUKT POLSKI CE

RACK 19 12U 600x600 mm hanging cabinet, black
ID: 8480

PRODUKT POLSKI CE

RACK 19 18U 600x600 mm hanging cabinet, black
ID: 8623

Type	Height [mm]	Width [mm]	Depth [mm]	Material	RACK rails	Maximum capacity [kg]	Weight [kg]	Usage
RACK 19 12U cabinet	645	600	600	steel	yes	60	32	indoor
	645	600	450					
RACK 19 18U cabinet	900	600	600	steel	yes	60	34,5	indoor
	900	600	450					

OUTDOOR HERMETIC CABINETS IP55

Cabinets for outdoor use, designed for mounting on poles and masts.

Fully hermetic cabinet, door protected against dust and water ingress with rubber seal and hermetic IP66 lock.

Outdoor hermetic cabinet 5U SH-567/426/369 IP55
ID: 4429

Outdoor hermetic cabinet 5U SH-750/595/322 IP55
ID: 4427

Type	Height [mm]	Width [mm]	Depth [mm]	Weight [kg]	IP rating	Mast mounting	Pole mounting
Outdoor hermetic cabinet 5U SH-567/426/369 IP55	426	567	369	6	55	yes	yes
Outdoor hermetic cabinet 5U SH-750/595/322 IP55	750	595	322	10	55	yes	yes

PRODUKT POLSKI CE
Outdoor hermetic cabinet 9U SH-603/567/369 IP55
ID: 7210

PRODUKT POLSKI CE
Outdoor hermetic cabinet 12U SH-737/567/367 IP55
ID: 7227

Type	Height [mm]	Width [mm]	Depth [mm]	Weight [kg]	IP rating	Mast mounting	Pole mounting
Outdoor hermetic cabinet 9U SH-603/567/369 IP55	603	567	369	11	55	yes	yes
Outdoor hermetic cabinet 12U SH-737/567/367 IP55	737	567	367	12	55	yes	yes

OUTDOOR HERMETIC CABINET IP66
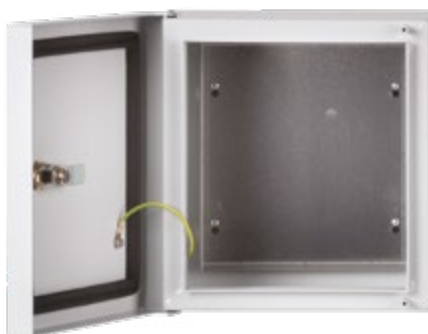
PRODUKT POLSKI C E
Outdoor hermetic cabinet 230/210/145 IP66
ID: 7468

PRODUKT POLSKI C E
Outdoor hermetic cabinet 250/310/145 IP66
ID: 7467

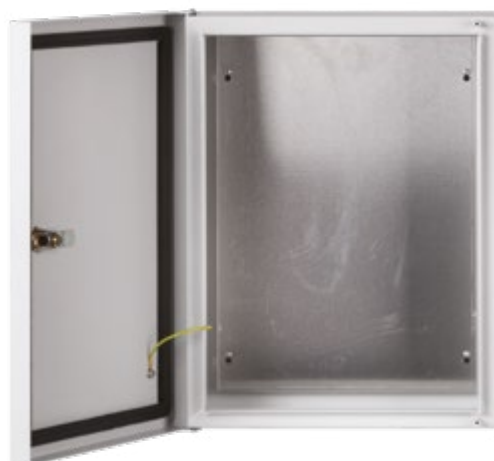| Type	Height [mm]	Width [mm]	Depth [mm]	Weight [kg]	IP rating	Mast mounting	Wall mounting
Outdoor hermetic cabinet 230/210/145 IP66	230	210	145	1,4	66	yes	yes
Outdoor hermetic cabinet 250/310/145 IP66	250	310	145	1,7	66	yes	yes

PRODUKT POLSKI CE

Outdoor hermetic cabinet 410/310/145 IP66
ID: 7627

PRODUKT POLSKI CE

Outdoor hermetic cabinet 540/310/145 IP66
ID: 7529

Type	Height [mm]	Width [mm]	Depth [mm]	Weight [kg]	IP rating	Mast mounting	Wall mounting
Outdoor hermetic cabinet 410/310/145 IP66	410	310	145	2,4	66	yes	yes
Outdoor hermetic cabinet 540/310/145 IP66	540	310	145	2,9	66	yes	yes

ANTI-NOISE SHIELDS FOR MikroTik

Cyberteam Sp. z o. o. is one of the largest manufactures of anti-noise shields for Ubiquiti and Mikrotik devices

All of our shields are patented industrial designs

Anti-noise shields minimize interference and block electronic noise from nearby operating devices. Less noise equals better signal quality.

Shields are made of aluminium, what makes them rust free and light. Thanks to CNC technology, the shields are produced with high precision and repeatability.

Each shield is powder coated in the same color as the devices which it dedicated to.

Anti-noise shield	Compatibility
Anti-noise shield SXT-SAR2	SXTG-5HPND-SAR2
Anti-noise shield Omnitik Sector	Omnitik U-5HND Omnitik UPA-5HND
Anti-noise shield Sextant	Sextant SextantG
Anti-noise shield QRT-5	RouterBoard QRT-5 RouterBoard QRT-5 AC
Anti-noise shield AC SECTOR	Omnitik 5 POE AC RBOMNITIKPG-5HACD Omnitik 5 AC RBOMINITIKG-5HACD
Anti-noise shield SXT-LTE	MikroTik RouterBoard SXT LTE KIT (RBSXTR R11E-LTE)
Anti-noise shield RouterBoard WAP	MikroTik RouterBoard WIRELESS WIRE WAP-60AD KIT MikroTik RouterBoard WAP 2ND BE LEVEL4 MikroTik RouterBoard WAP AC RBWAPG-5HACT2HND MikroTik RouterBoard WAP LTE KIT RBWAPR-2NDR11E-LTE MikroTik WAP 60G AP, 1X GB IT LAN, 802.11AD (60 GH Z), L4 (RBWAPG-60AD-A) MikroTik RouterBoard WAP 60GX3 AP Punkt dostępowy 60 GHZ
Anti-noise shield RouterBoard SXTSQ	MikroTik RouterBoard SXTSQ LITE5 RBSXTSQ5ND 5GHZ 16DBI PTP CPE
Anti-noise shield SLANT 45 MikroTik RouterBoard SXTSQ	MikroTik RouterBoard SXTSQ 5 AC RBSXTSQG-5ACD LEVEL 3 CPE, PTP MikroTik RouterBoard SXTSQ 5 HIGH POWER RBSXTSQ5HPND LEVEL 4 CPE, PTP, PTMP MikroTik RouterBoard SXTSQ LITE2 RBSXTSQ2ND 2,4GHZ CPE, PTP, LEVEL 3 MikroTik RouterBoard SXTSQ LITE5 RBSXTSQ5ND LEVEL 3 16DBI PTP CPE MikroTik RouterBoard SXTSQ LITE60 60GHZ CPE, PTP, LEVEL 3

PRODUKT POLSKI CE
Anti-noise shield MikroTik
RouterBoard SXT-SAr2
ID: 2381

PRODUKT POLSKI CE
Anti-noise shield MikroTik
RouterBoard OmniTIK Sector
ID: 2704

PRODUKT POLSKI CE
Anti-noise shield MikroTik
RouterBoard Sextant
ID: 2657

PRODUKT POLSKI CE
Anti-noise shield MikroTik
RouterBoard QRT-5
ID: 2542

PRODUKT POLSKI CE
Anti-noise shield MikroTik
RouterBoard OmniTIK 5 ac RBOmniTikG-5HacD
ID:5740

PRODUKT POLSKI CE
Anti-noise shield MikroTik
RouterBoard SXT LTE (RBSXTR R11e-LTE)
ID: 5739

PRODUKT POLSKI CE
Anti-noise shield MikroTik
RouterBOARD wAP
ID: 5410

PRODUKT POLSKI CE
Anti-noise shield MikroTik RouterBoard
SXTsq Lite5 RBSXTsq5nD 5GHz 16dBi PtP CPE
ID: 4870

PRODUKT POLSKI CE
Anti-noise shield MikroTik slant 45 RouterBoard
SXTsq Lite5 RBSXTsq5nD 5GHz 16dBi PtP CPE
ID: 6015

ANTI-NOISE SHIELDS FOR UBIQUITI NETWORKS

Cyberteam Sp. z o. o. is one of the largest manufactures of anti-noise shields for Ubiquiti

All of our shields are patented industrial designs

PRODUKT POLSKI CE
Anti-noise shield Ubiquiti
NanoStation NS-Loco M2/M5
ID: 3603

PRODUKT POLSKI CE
Anti-noise shield Ubiquiti
NanoBeam M5 19dBi NBE-M5-19
ID: 3328

PRODUKT POLSKI CE
Anti-noise shield Ubiquiti
PowerBeam PBE-M5-300
ID: 2522

Anti-noise shield	Compatibility
Anti-noise shield M2/M5	Ubiquiti NanoStation Loco M2 Ubiquiti NanoStation Loco M5
Anti-noise shield NS-M2/M5	Ubiquiti NanoStation M2 Ubiquiti NanoStation M5
Anti-noise shield LiteBeam LBE-5AC-16-120 PRO	Ubiquiti LiteBeam Sector 16/120 LBE-5AC-16-120 / GPS
Anti-noise shield NanoBeam M5 16DBI NBE-M5-16	Ubiquiti NanoBeam M5 16DBI NBE-M5-16 Ubiquiti NanoBeam M5 16DBI NBE-5AC-16
Anti-noise shield NanoBeam M5 19DBI NBE-M5-19	Ubiquiti NanoBeam M5 19DBI NBE-M5-19 Ubiquiti NanoBeam M5 AC 19DBI NBE-5AC-19
Anti-noise shield PowerBeam PBE-M5-300	Ubiquiti PowerBeam M5-300 22DBI Ubiquiti PowerBeam 5AC-300 22DBI
Anti-noise shield PowerBeam PBE-M5-400	Ubiquiti PowerBeam M5-400 25DBI Ubiquiti PowerBeam 5AC-400 25DBI Ubiquiti PowerBeam M2-400 18DBI
Anti-noise shield AM-20/90	Ubiquiti AirMAX Sector 20/90 (5GHZ) Ubiquiti AirMAX Sector 16/90 (2,4GHZ)
Anti-noise shield AM-19/120	Ubiquiti AirMAX Sector 19/120 (5GHZ) Ubiquiti AirMAX Sector 15/120 (2,4GHZ)
Anti-noise shield AM-17/90	Ubiquiti AirMAX Sector 17/90
Anti-noise shield AM-16/120	Ubiquiti AirMAX Sector 16/120
Anti-noise shield NS 5AC	Ubiquiti NanoStation 5AC
Anti-noise shield NS 5AC Loco	Ubiquiti NanoStation 5AC Loco CPE NS 5AC

Anti-noise shield Ubiquiti
NanoStation NS-M2/M5
ID: 2232

Anti-noise shield Ubiquiti
LiteBeam LBE-5AC-16-120 PRO
ID: 3627

Anti-noise shield Ubiquiti
NanoBeam M5 16dBi NBE-M5-16
ID: 3327

Anti-noise shield Ubiquiti
PowerBeam PBE-M5-400
ID: 2521

Anti-noise shield Ubiquiti
airMAX Sector AM-20/90
ID: 2229

Anti-noise shield Ubiquiti
airMAX Sector AM-19/120
ID: 2228

Anti-noise shield Ubiquiti
airMAX Sector AM-17/90
ID: 2227

Anti-noise shield Ubiquiti
airMAX Sector AM-16/120
ID: 2226

Anti-noise shield Ubiquiti
NanoStation 5AC Loco CPE NS-5AC
ID: 5409

NETPROTECTORS | SURGE PROTECTORS

Ethernet Surge protector effectively protects Ethernet network against surges as a result of inducing high voltage charges. Atmospheric discharges generate charges which damage Ethernet ports and also whole network devices.

Manufacturers do not give guarantee for such damages, that is why the devices must be repaired on the cost of the owners.

Ethernet surge protector collects loads induced in the network and safely transfers them to the grounding, preventing devices from damages.

PRODUKT POLSKI CE
Ethernet Surge Protector SPG-8P-1U
ID: 3433

PRODUKT POLSKI CE
Ethernet Surge Protector SPG-8P-D
ID: 3437

FAST ETHERNET 100 Mb/s				
Netprotector model	Ports	Application	Max. voltage [V]	Max. amperage per port [A]
SP-8P-1U	8x10/100 Mbps	stand-alone RACK device	48	1
SP-8P	8x10/100 Mbps	module for SP-8P-1U	48	1
SP-8P-D	8x10/100 Mbps	stand-alone DESKTOP device	48	1
Netprotector 4p w obudowie	4x10/100 Mbps	stand-alone DESKTOP device	48	1

GIGABIT ETHERNET 1Gb/s				
Netprotector model	Ports	Application	Max. voltage [V]	Max. amperage per port [A]
SPG-8P-1U	8x10/100/1000 Mbps	stand-alone RACK device	48	1
SPG-8P	8x10/100/1000 Mbps	module for SPG-8P-1U	48	1
SPG-8P-D	8x10/100/1000 Mbps	stand-alone DESKTOP device	48	1
NPG-4P-D	4x10/100/1000 Mbps	stand-alone DESKTOP device	48	1
MNG-8P	8x10/100/1000 Mbps	module for MNG-8P-1U	48	1
MNG-8P-1U	8x10/100/1000 Mbps	stand-alone RACK device	48	1
MNG-8P-D	8x10/100/1000 Mbps	stand-alone DESKTOP device	48	1
SPG-8P-1U 802.3af/at	8x10/100/1000 Mbps	stand-alone RACK device	54	1
SPG-8P 802.3af/at	8x10/100/1000 Mbps	module for SPG-8P-1U 802.3af/at	54	1

ADAPTERS

PoE adapters transmit power via Ethernet cables. The adapter can be powered by any 12 to 54V power supply, but also with a buffer power supply. It has a DC power socket and LED diode.

Usage of the PoE adapter gives more space, as less power supplies must be used.

Each port is protected with a securing diode, which isolates it from other ports in case of short circuit.

PRODUKT POLSKI C E
PoE adapter 8p RACK 19 Gigabit ADAG-8P-1U v.2
ID: 3196

PRODUKT POLSKI C E
PoE adapter 8p Gigabit ADAG-8P-D
ID: 2520

FAST ETHERNET 100 Mb/s				
Netprotector model	Ports	Application	Max. voltage [V]	Max. amperage per port [A]
ADA-8P-1U	8x10/100 Mbps	stand-alone RACK device	48	1
ADA-8P	8x10/100 Mbps	module ADA-8P-1U	48	1
ADA-8P-D	8x10/100 Mbps	stand-alone DESKTOP device	48	1
4P PoE adapter in case	4x10/100 Mbps	stand-alone DESKTOP device	48	1

GIGABIT ETHERNET 1Gb/s				
Netprotector model	Ports	Application	Max. voltage [V]	Max. amperage per port [A]
ADAG-8P-1U	8x10/100/1000 Mbps	stand-alone RACK device	48	1
ADAG-8P	8x10/100/1000 Mbps	module for ADAG-8P-1U	48	1
ADAG-8P-D	8x10/100/1000 Mbps	stand-alone DESKTOP device	48	1
ADAG-M-4P-D	8x10/100/1000 Mbps	stand-alone DESKTOP device	48	1
ADAG-4P-D 802.3af/at	8x10/100/1000 Mbps	stand-alone DESKTOP device	54	1