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FTTH Accessories

Product Catalog



FIBER OPTIC SOLUTIONS

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Introduction

Fiberpowertech provides a broad range of accessories for fiber network installation and maintenance. Ranging from machines for installation of fiber cable to duct scissors and connectors. In this catalogue you'll find a wide variety of connectors, connector boxes, manhole acc. and tools.

CONNECTORS

When working with products from GM Plast, you need the right kind of accessories.

Fiberpowertech provides a wide range of Connectors for assembling and terminating ducts and pipes, when working with products such as GM Flatliner, GM Multiduct and GM MultiSub.



All Fiberpowertech connectors are thoroughly tested and have been approved for use with products from GM Plast.

ADDITIONAL FEATURES:

- PUSH-FIT DESIGN
- ANIT-SHOCK COVER

CONNECTOR BOXES

Fiberpowertech supplies a wide range of accessories for working with GM Cable Ducts.

Branching off, connecting and port reducing can all be done with the available accessories from Fiberpowertech.

Made from sturdy and high quality long-lasting materials, all accessories are reliable and proven products that are specifically made for use with GM Cable Ducts. Years of experience have told us exactly what works in the field when working with ducts and pipes every day.

CONNECTOR BOXES:

- STRAIGHT CONNECTORS
- Y-CONNECTORS
- T-CONNECTORS
- H-CONNECTORS

MANHOLES

Manholes are a key component in any FTTx network. They allow you to easily and quickly access your network in the ground.

Fiberpowertech Manholes are made from a tough and very durable polycarbonate material, ideal for putting into the ground. All manholes are highly customizable and can be fitted with exactly the configuration you need for your network.

Available in a wide range of sizes and models.



TOOLS

When building and maintaining your FTTx network, you need the right tools for the job.

Working in the field will stress and corrode your tools. By using only the most durable of materials and keeping the tools simple and easy to use, Fiberpowertech can supply you with a selection of the best tools for the job. We have spent years figuring out exactly what tools will get the job done, while also keeping expenses at a minimum.

Fiberpowertech supplies all the tools you need, for handling FTTx networks.



ACCESSORIES

No two FTTx networks are completely alike. Therefore you need the option to customize your network and your manholes, street cabinets and other components to exactly fit your specific network.

Fiberpowertech supplies a wide range of accessories for use with our products.

We frequently expand and widen our selection of available accessories.

(Wall-Duct Seal)



We produced the first micro blowing machine in 2000 and our first MultiSub Duct blowing machine in 2003.

To get the best results, Fiberpowertech worked with several of the leading cable producers, to change the outer sheet and memory effects of the standard duct cable (1996-1998).

Since 2001, Fiberpowertech has been constantly developing and improving micro cables.

In this catalogue we are summing up many years of our experiences. With us as a partners in your project you are sure to work with the best.

Ask us for an suggestions to get the job done, and if you like our ideas we would be glad to offer you the right material for the job that you want to have done.

OUR EXPERIENCE

Fiberpowertech has been dealing with FTTx accessories for the past 15 years, primarily for the FTTH market. We have been around the block (and underneath) many times.

We have been pushing, dragging, blowing, floating, connecting and branching off in every way imaginable since the 1990's. Fiberpowertech did a lot of pioneering and a lot of teaching, on how to install cable with air and water and using the correct accessories for the job through which we've gained vast experience in the field.





FPT Connector (direct buried)



- **Non-metallic**
- **Non-corrosive**
- **Fits all DIN-normed duct sizes**

Size	Art.Nr.	MOQ
7 mm	28-FPTC007	80
8 mm	28-FPTC008	70
10 mm	28-FPTC010	40
12 mm	28-FPTC012	30
14 mm	28-FPTC014	20
16 mm	28-FPTC016	15
20 mm	28-FPTC020	10

PUSH -FIT design for quick and easy installation and disassembly.

FPT connectors are resistant to pressures used for blowing cables through microducts and provide protection from dirt and water.

FPT End Connector (direct buried)



Size	Art.Nr.	MOQ
7 mm	28-FPTE007	160
8 mm	28-FPTE008	140
10 mm	28-FPTE010	80
12 mm	28-FPTE012	60
14 mm	28-FPTE014	50
16 mm	28-FPTE016	30
20 mm	28-FPTE020	20

Performance :

- Temperature
Minimum working temperature : -15 °C
Maximum working temperature : +45 °C
- Pressure
Continuous working pressure : 16 bar
Peak working pressure : 20 bar
Burst pressure : >25 bar
- All connectors withstand 1,35 bar external water pressure
- Grip rings designed for PE >0,965 Density
- FPT connectors resist pull out forces between connector and the microduct :
Continuous pull-out (1h, 23°C)
 - 7 mm - > 300 N
 - 8 mm - > 350 N
 - 10 mm - > 450 N
 - 12 mm - > 500 N
 - 14 mm - > 900 N
 - 16 mm - > 950 N
 - 20 mm - > 1000 N

Straight Connector



Size(mm.)	Art.Nr.	MOQ
3	28-PFTC003	500
4	28-PFTC004	350
5	28-PFTC005	350
6	28-PFTC006	300
7	28-PFTC007	200
8	28-PFTC008	200
10	28-PFTC010	140
12	28-PFTC012	100
14	28-PFTC014	80
16	28-PFTC016	80
20	28-PFTC020	-

Reducing Connector



Size(mm.)	Art.Nr.	MOQ
5/3	28-PR005/003	500
6/5	28-PR006/005	260
7/4	28-PR007/004	260
7/5	28-PR007/005	260
8/3	28-PR008/003	260
8/5	28-PR008/005	260
8/7	28-PR008/007	260
10/7	28-PR010/007	140
10/8	28-PR010/008	140
12/7	28-PR012/007	120
12/8	28-PR012/007	120
12/10	28-PR012/010	120
14/10	28-PR014/010	80
14/12	28-PR014/012	80
16/10	28-PR016/010	60
16/12	28-PR016/012	60
16/14	28-PR016/014	60

End Connector



Size(mm.)	Art.Nr.	MOQ
3	28-PFTE003	600
4	28-PFTE004	600
5	28-PFTE005	600
6	28-PFTE006	500
7	28-PFTE007	400
8	28-PFTE008	400
10	28-PFTE010	300
12	28-PFTE012	200
14	28-PFTE014	180
16	28-PFTE016	120

Materials :

- Body - PC, impact resistant
- Collet - POM, stainless steel teeth
- O-Rings - Nitrile rubber

Performance :

- Temperature
Minimum working temperature : -20 °C
Maximum working temperature : +60 °C
- Pressure
Short time working pressure : 16 bar
- Insertion force 50N max. (5 kg)

Straight Connector



Size(mm.)	Art.Nr.	MOQ
18	28-J018/PM	25
20	28-J020/PM	25

Locking Clips



Size(mm.)	Art.Nr.	MOQ
5	28-TL05	100
6 - 7	28-TL06-07	100
8	28-TL08	100
10	28-TL010	100
12	28-TL012	100
14	28-TL014	100
16	28-TL016	100

Split End Connector HDPE Air & Waterproof, up to 0.25 Bar



Size (mm.)	Art.Nr.	MOQ
32/3x10	28-F032/3x10	10
40/10x7	28-F040/10x7	10
40/4x12	28-F040/4x12	10
40/5x10	28-F040/5x10	10
40/3x14	28-F040/3x14	10
50/7x10	28-F050/7x10	10
50/7x12	28-F050/7x12	10
50/10x7+1x12	28-F050/10x7+1x12	10
50/18x7	28-F050/18x7	10
63/24x7+1x14	28-F063/24x7+1x14	10

Other sizes and configurations available upon request

Easy installation / Retrofitting

Materials :

- Plastic scales - glassfibre reinforced
- Closing key - glassfibre reinforced
- Sealing plug - EPDM

Performance :

- Sealing : up to 0,25 bar
- Pull-out force duct seal vs duct 32mm , 40mm : $\geq 1000N$
- Pull-out force duct seal vs duct 50mm , 63mm : $\geq 1200N$

Microduct Seal

Air & Waterproof, up to 0.5 Bar



Easy installation / Retrofitting

Materials :

- Plastic housing - PC
- Sealing plug - TPE

Performance :

- Sealing : up to 0,5 bar
- Pull-out force duct seal vs duct : > 20N

Size(mm.)	Art.Nr.	MOQ
5 / 1,0	28-F005/1,0	10
5 / 1,25	28-F005/1,25	10
5 / 1,8	28-F005/1,8	10
5 / 2,1	28-F005/2,1	10
7 / 1,0	28-F007/1,0	10
7 / 1,25	28-F007/1,25	10
7 / 1,8	28-F007/1,8	10
7 / 2,5	28-F007/2,5	10

Divisible duct repair kit



Materials :

- Material shells - glassfibre reinforced
- Material insert - Silicone

Performance :

- Gas and watertight up to 5,0 bar
- Max. airflow pressure up to 16,0 bar

Size(mm.)	Art.Nr.	MOQ
5	28-F009/5	10
7	28-F009/7	10
8	28-F009/8	10
10	28-F009/10	10
12	28-F009/12	10
14	28-F009/14	10
16	28-F009/16	10
20	28-F009/20	10

Split End Connector

Air & Waterproof, up to 0.50 Bar



Easy installation / Retrofitting

Materials :

- Plastic scales - glassfibre reinforced
- Cutting block - glassfibre reinforced
- Sealing plug - TPE

Performance :

- Sealing : up to 0,5 bar
- Pull-out force duct seal vs duct 10mm : $\geq 100N$
- Pull-out force duct seal vs duct 12mm : $\geq 120N$
- Pull-out force duct seal vs duct 14mm : $\geq 140N$
- Pull-out force duct seal vs duct 16mm : $\geq 160N$
- Pull-out force duct seal vs duct 18mm : $\geq 180N$
- Pull-out force duct seal vs duct 20mm : $\geq 200N$
- Mechanical compression strength : $\geq 1000N$, 10 sec.

Size (mm.)	Art.Nr.	MOQ
10 / 2,5-3,5	28-F010/2,5-3,5	10
10 / 3,5-5,0	28-F010/3,5-5,0	10
10 / 5,0-6,5	28-F010/5,0-6,5	10
10 / 6,5-8,0	28-F010/6,5-8,0	10
12 / 2,5-3,5	28-F012/2,5-3,5	10
12 / 3,5-5,0	28-F012/3,5-5,0	10
12 / 5,0-6,5	28-F012/5,0-6,5	10
12 / 6,5-8,0	28-F012/6,5-8,0	10
12 / 7,0-8,5	28-F012/7,0-8,5	10
14 / 5,8-8,0	28-F014/5,8-8,0	10
14 / 8,0-10,0	28-F014/8,0-10,0	10
16 / 5,8-8,0	28-F016/5,8-8,0	10
16 / 8,0-10,0	28-F016/8,0-10,0	10
18 / 9,4-12,0	28-F018/8,0-10,0	10
20 / 5,5-8,0	28-F020/5,5-8,0	10
20 / 9,4-12,0	28-F020/9,4-12,0	10
20 / 7,0-9,5	28-F020/7,0-9,5	UD*
20 / 5,5-7,2	28-F020/5,5-7,2	UD*
20 / 5,5-8,0	28-F020/5,5-8,0	10

Other sizes and configurations available upon request

*Under development

Cable End Connector



Size(mm.)	Art.Nr.	MOQ
5	28-EE05/0,5-3,5	25
6	28-EE06/2,0-5,0	25
7	28-EE07/2,0-5,0	25
8	28-EE08/2,0-6,0	25
10	28-EE10/1,0-4,0	25
10	28-EE10/4,0-8,0	25
12	28-EE12/3,0-6,0	25
12	28-EE12/5,0-8,0	25
12	28-EE12/7,0-10,0	25
14	28-EE14/3,0-6,0	25
14	28-EE14/5,0-8,0	25
14	28-EE14/7,0-10,0	25
14	28-EE14/9,0-12,0	25
16	28-EE16/3,0-6,0	25
16	28-EE16/5,0-8,0	25
16	28-EE16/7,0-10,0	25
20	28-EE20/5,0-8,0	25
20	28-EE20/7,0-10,0	25
20	28-EE20/9,0-12,0	25

Materials :

- Body - Polycarbonate
- Guide tube retainer, release sleeve and Cap - POM
- Oring seal - Nitrile
- Gas block Seal - Silicone

Performance :

- Air & Water tight - 0,5Bar
- Design Lifetime: minimum period of 20 years

Double Sealed Connector (Outdoor)



Size(mm.)	Art.Nr.	MOQ
	28-e012/3/6/GBWB	25

Seal Connector



Size(mm.)	Art.Nr.	MOQ
12 /3-6	28-e012/GBWB 3-6	25
12 /5-8	28-e012/GBWB 5-8	25
14 /3-6	28-e014/GBWB 3-6	25
14 /5-8	28-e014/GBWB 8-6	25

Materials :

- Body - Polycarbonate
- Guide tube retainer, release sleeve and Cap - POM
- Oring seal - Nitrile
- Gas block Seal - Silicone

Performance :

- Peak tensile force - 200N.
- Air & Water tight - 0,5Bar
- Design Lifetime: minimum period of 20 years

Endcap



Size (mm.)	Art.Nr.	MOQ
5	34-DN005	100
7	34-DN007	100
8	34-DN008	100
10	34-DN010	100
12	34-DN012	100
14	34-DN014	100
16	34-DN016	100
18	34-DN018	100
20	34-DN020	100
25	34-DN025	100
32	34-DN032	100
40	34-DN040	100
50	34-DN050	100
63	34-DN063	100

Materials :

- Material: polyethylene (PE-LD)
- Material from GPN 250 / 219
upwards: polyethylene (PE-LLD)
Colour: yellow

For protection of DIN EN 10220, DIN EN 10255 and DIN EN ISO 1127 pipes during transport and storage. Discontinuous internal beads, offset by 180 degrees, permit venting and pressure equalization.

Reducing Connector



Size(mm.)	Art.Nr.	MOQ
20-16	35-20x16	50
25-20	35-25x20	35
32-20	35-32x20	54
32-25	35-32x25	48
40-25	35-40x25	30
40-32	35-40x32	22
50-25	35-50x25	18
50-32	35-50x32	25
50-40	35-50x40	24
63-32	35-63x32	15
63-40	35-63x40	15
63-50	35-63x50	12

Features :

- For use with HDPE pipes that comply with ISO 4427, EN 12201 and DIN 8074.
- Connects to metal and plastic accessories with ISO 7 threads.
- Made from top quality raw materials approved for drinking water by WRc, DVGW and KIWA.
- Allows easy and quick mounting without loss of parts.
- Unbreakable, corrosion-resistant and resistant to most chemicals.
- Stands up to tough working conditions, pipe bending and pulling.
- Complies with International Standards.

Materials :

- Grip Ring- Acetal
- Nut - PPB UV stabilized with carbon black
- D-Ring - Nitril -Butyl Rubber
- Body - PPB UV stabilized with carbon black

Performance :

- Maximum Working Temperature :
Polypropylene 100°C
Acetal 80°C
- Working Conditions for 50 Year Lifetime :

Working Temperature	Working Pressure
up to 23°C	16 bar
40°C	7 bar
70°C	4 bar

Plowing Connector



Size(mm.)	Art.Nr.	MOQ
32	33-DN032	48
40	33-DN040	48
50	33-DN050	40

Features :

- Optimal acceptance of the PE-pipe in the fitting. The vortex clamping ring and a robust O-ring ensure the tensional safety and tightness.
- No supporting sleeves required for water and compressed air.
- No inadmissible tensioning and weakening of the PE-pipe.
- Continually adequate sealing and shearing-protection forces, which are regulated automatically by the internal pressure of the medium.
- Thanks to the selection of the material cast or POM, no electrochemical corrosion on the tapping clamps and house-connection sliders.

Materials :

- Fittings - Acetal resin

Performance :

- Pressure level PN 16

Spade for Plowing Connector, 2pc set



Size(mm.)	Art.Nr.	MOQ
32	79-041.071	1
40	79-041.072	1
50	79-041.073	1

Straight Connector



Features :

- Straight couplers are a transparent coupler for connecting PE cable ducts.
- Water tight and air tight
- UV stabilised.
- Resistant to corrosion and most chemicals.

Materials :

- Body: Polypropylene - Transparent
- Nut: Polypropylene – Metric: Orange Inch: Blue
- Grip Ring: Acetal – White
- Insert: Polypropylene – Inch: Transparent
- Seal: Nitrile Rubber - Black

Performance :

- Pressure: ≤ 16bar (230psi)
- Working temperature: < 60°C (140°F)

Straight Connector (Brass)



Size(mm.)	Art.Nr.	MOQ
16	35-16x16M	75
20	35-20x20M	90
25	35-25x25M	60
32	35-32x32M	36
40	35-40x40M	36
50	35-50x50M	18

Endstop



Size(mm.)	Art.Nr.	MOQ
16	35-16x16s	75
20	35-20x20s	90
25	35-25x25s	60
32	35-32x32s	36
40	35-40x40s	36
50	35-50x50s	18

Features :

- For use with HDPE pipes that comply with ISO 4427, EN 12201 and DIN 8074.
- Connects to metal and plastic accessories with ISO 7 threads.
- Made from top quality raw materials approved for drinking water by WRc, DVGW and KIWA.
- Allows easy and quick mounting without loss of parts.
- Unbreakable, corrosion-resistant and resistant to most chemicals.
- Stands up to tough working conditions, pipe bending and pulling.
- Complies with International Standards.

Materials :

- Grip Ring- Acetal
- Nut - PPB UV stabilized with carbon black
- D-Ring - Nitril -Butyl Rubber
- Body - PPB UV stabilized with carbon black

Performance :

- Maximum Working Temperature :
Polypropylene 100°C
Acetal 80°C
- Working Conditions for 50 Year Lifetime :

Working Temperature	Working Pressure
up to 23°C	16 bar
40°C	7 bar
70°C	4 bar

Comfit Connector



Size(mm.)	Art.Nr.	MOQ
32	31-40032M0032	70
40	31-40040M0040	60
50	31-40050M0050	33

Features :

- Push-fit action ensuring fast and easy installation without the use of tools
- Water tight and air tight
- UV stabilised.
- Resistant to corrosion and most chemicals.

Materials :

- Grip Ring- Acetal
- Nut - Polypropylene
- Blocking-Ring - Polypropylene
- Body - Polypropylene
- Seal - Nitrile Rubber

Performance :

-
- Working Temperatures : -15°C to + 60°C
 - Pressures : Rated 12 bar. Higher pressures to 16 bar may be used for short periods during blowing operations.

Connector Box



Size(mm.)	Art.Nr.	MOQ
2x40mm	28-FPB 2x40mm	1

Connector Box



Size(mm.)	Art.Nr.	MOQ
4x40mm	28-FPB 4x40mm	1

Features :

- 2 - way tube I / H closure in-line divisible
- The FPT in-line tube clousere is a completely divisible direct burried clousure which can be used for:
- Transition of tube to tube (same diameter)
- Transition of tube to different diameter tube
- Transition of microtube to microtube (one-on-one proportion)
- Transition of several microtubes to tube
- Transition of several minitubes to modular cable

The closure is excellently used for fibre network maintenance and fibre or tube blowing features.

The strain relief inlay parts are exchangable, therefore it's possible to use one housing for several diameters and applications. A range of 25, 32, 40, 50 mm are available for use with the closure housing.

Tube connectors are easy to install due to the length of the closure. The closure can be installed without any special tools which makes it easier to handle.

Performance :

-
- Sealing level : up to IP54
 - Crush resistance : up to 1000 N / 25 mm²

Connector Box



Size(mm.)	Art.Nr.	MOQ
2 x 50	28-e50/50 CB L	1

Connector Box



Size(mm.)	Art.Nr.	MOQ
4 x 50	28-e50/50/50/50	1

Connector



Size(mm.)	Art.Nr.	MOQ
25/25/25 Y	28-e25/25/25 Y	1
32/32/32 Y	28-e32/32/32 Y	1
40/40/40 Y	28-e40/40/40 Y	1
50/50/50 Y	28-e50/50/50 Y	1

Connector



Size(mm.)	Art.Nr.	MOQ
32/32/32 T	28-e32/32/32 T	1
40/40/40 T	28-e40/40/40 T	1
50/50/50 T	28-e50/50/50 T	1

Features :

- T/Y/H/I closure to interconnect and branch micro-tubes in duct routes.
- It provides high network flexibility, upgradeability and uninterrupted fibre/cable connectivity with no need for splicing.
- Two half shells, fully splittable solution.

Materials :

- Rings - ABS/POM
- Body - HDPE/High Impact Polypropylene

Performance :

- Sealing level : only mechanical protection
- Lifetime : >20 years
- Use : Direct burial or manholes
 - Reopenable, Splittable
 - Tool free assembly

Branch Off 2 x 12 mm.



Size(mm.)	Art.Nr.	MOQ
2 x 12	28-e50/50 H	1

Features :

- Branch-off connectors for outside applications
- Designed as manipulation point for branching at any place in network.

Branch Off 40 mm.



Size(mm.)	Art.Nr.	MOQ
40	28-e40/40H	1

Port Maxifold



Size/Cable	Art.Nr.	MOQ
50/ 7x12	28e50/7x12	1

Port Minifold



Size/Cable	Art.Nr.	MOQ
50/ 5x10	50-33E5x10	1

Port Reducer



Size(mm.)	Art.Nr.	MOQ
50/ 2x20	28e50/20/20r	1

Features :

- Port reducer fittings

Materials :

- Body - PE
- Colour - Black

Port Reducer



Size(mm.)	Art.Nr.	MOQ
50-20	28e50/20r	1
50-32	28e50/32r	1
50-40	28e50/40r	1
50-50	28e50/50r	1

Features :

- Tapered threaded pulling Eyes for HDPE pipe
- PE and PVC Pulling Eyes with watertight multiple o-ring configuration

Repairing Connector



Size(mm.)	Art.Nr.	MOQ
32	33-EBM032	12
40	33-EBM040	12
50	33-EBM050	12

Coupler for PE ducts.

The connector is used for the gas- and water-tight connection of split ducts and ducts. The connectors are resistant to tensile. Fittings are out of PVC-U and are divisible.

Materials :

- PVC-U

Performance :

- 0.5 bar permanent (10 bar/30 min.)

Repairing Ducts, 2 mtr. splittable



Size(mm.)	Art.Nr.	MOQ
32	33-EBMR32	1
40	33-EBMR40	1
50	33-EBMR50	1

Coupler for connecting PE cable ducts.

- The split ducts were developed for the pressure-tight repair of empty ducts or ducts occupied with cables or pipes.
- They are suitable for the gas- and water-tight sealing of blow-in points
- They consist of two half shells manufactured out of high-quality PVC-U.
- The easy installation facilitates the branching off from pipeline routes.

Materials :

- Body - PVC

Performance :

- Gas- and water-tight up to 0,5 bar permanent (10 bar/30 min.)

Tool for repairing Ducts



Size(mm.)	Art.Nr.	MOQ
32	33-EBMV32	1
40	33-EBMV40	1
50	33-EBMV50	1

Fiberflex



Size	Art.Nr.	MOQ
25 Meter	28-LEKR54552	1
30 Meter	28-EKR72358	1
50 Meter	28-EKR72359	1

Features :

- The duct rod for laying cables in houses
- Easy pulling-in of power, telecommunication and antenna cables in empty and occupied condint systems
- Pulling force up to 500 N
- Practical carrying-case with integrated useful accessories
- Slides easily even in bended and narrow conduits because of the rigid glass fibre insertion rod with a diameter of 3 mm

Trace Ball



Art.Nr.	MOQ
37-D/OM0019A	1

Features :

- The Electronic Marker System quickly pinpoints the location of burried facilities including buried splices, fiber optic facilities, service drops and manholes.
- It eliminates the time consuming search for hard-to-locate facilities.
- Markers operate even in the presence of metal conduit or pipe, metallic conductors, fences.

Plastic Stripes



Size(mm.)	Art.Nr.	MOQ
3,6x200	79.0410.012	100
4,8x360	79.0410.015	100

GM Wall Duct Seal



Features :

- Air and watertight sealing of FttH home entries
- Supplied as one complete kit for sealing of one house connection
- High mechanical strength, resists ground movement, shocks and vibrations
- Quick installation in minutes, no special tools required

Size(mm.)	Art.Nr.	MOQ
-	50-57GM12	1

Miniflex



Features :

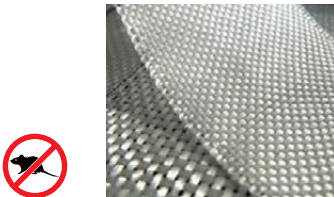
- Low Smoke Zero Halogen (LSZH)
- 10 x Diameter Bend Radius
- Ultra Low Friction Lining
- High Crush resistance
- Best-in-class push/pull and blow-ability

Materials :

- high grade Polymer

Size(mm.)	Art.Nr.	MOQ
5/3,1	30-BLK 5,0/3,1	1
5/3,3	30-BLK 5,0/3,3	1
8/5,4	30-BLK 8,0/5,4	1
10/6,4	30-BLK 10,0/6,4	1
5/3,1	30-WHT 5,0/3,1	1
5/3,3	30-WHT 5,0/3,3	1
8/5,4	30-WHT 8,0/5,4	1
10/6,4	30-WHT 10,0/6,4	1

Rodent protection Tape

		
Width(mm.)	Tape length	Pipes Ø max
50	30m	12mm
100	30m	20mm
150	30m	40mm
200	30m	50mm

Features :

- This fiberglass tape is used to protect cables and/or microducts, in all situations where they may be exposed to attacks by rodents, for example inside handholes, manholes, tunnels, and other empty spaces. The tape can be applied to both new and already existing infrastructures.
- The tape is made with a 1.5 mm thickness fiberglass weave, natural color, and has one pre-glued side to facilitate installation on cables and/or ducts.

Micro cable storage bag

	
Size (mm)	
420x 420x15	1
500x 500x15	1
610x 630x15	1

Features :

- The micro-cable storage bag is used inside manholes to protect the micro-cable overlength and to keep it secure and organized.
- It is made of a fiberglass fabric to prevent rodent attacks.
- The bag has a high-resistance Velcro opening at the top with two flaps at the opposite sides to wrap the ducts and protect the entrance to the bag. A steel band inserted at the top back allows easy mounting of the bag on a multi-point bracket fixed to the wall. At the front, the bag has a transparent envelop to host the identification label of the cable / customer.



Manhole (PC)



Size(mm.)	Art.Nr.	MOQ
250 x 250	37-EK 268	1
400 x 400	37-EK 358	1
400 x 650	37-EK 368	1
400 x 800	37-EK 378	1
400 x 1165	37-EK 478	1
400 x 1600	37-EK 628	1
550 x 550	37-EK 288	1
550 x 1165	37-EK 338	1
650 x 650	37-EK 388	1
800 x 800	37-EK 328	1
800 x 1165	37-EK 508	1
800 x 1400	37-EK 428	1
800 x 1600	37-EK 708	1
800 x 1825	37-EK 728	1
800 x 2000	37-EK 738	1
800 x 2200	37-EK 748	1

Manhole Frame (70mm , 220mm)



Size(mm.)	Art.Nr.	MOQ
250 x 250	37-EKR 268	1
400 x 400	37-EKR 358	1
400 x 650	37-EKR 368	1
400 x 800	37-EKR 378	1
400 x 1165	37-EKR 478	1
400 x 1600	37-EKR 628	1
550 x 550	37-EKR 288	1
550 x 1165	37-EKR 338	1
650 x 650	37-EKR 388	1
800 x 800	37-EKR 328	1
800 x 1165	37-EKR 508	1
800 x 1400	37-EKR 428	1
800 x 1600	37-EKR 708	1
800 x 1825	37-EKR 728	1
800 x 2000	37-EKR 738	1
800 x 2200	37-EKR 748	1

Manhole Frame with Cassette (ALU)



Size(mm.)	Art.Nr.	MOQ
250 X 250	37-EK268BK	1
400 X 650	37-EK368BK	1
400 X 800	37-EK378BK	1
400 X 1165	37-EK478BK	1
550 X 550	37-EK288BK	1
550 X 1165	37-EK338BK	1
800 X 800	37-EK328BK	1
800 X 1600	37-EK708BK	1

Features :

- Polycarbonate manholes are suitable as cable drawing manholes, telecommunication distribution systems and underground distribution systems. They are a durable and flexible alternative to concrete manholes.

Materials :

- Polycarbonate

Ø110mm Vagina For Flatliner



Size(mm.)	Art.Nr.	MOQ
110	37-200.112	1

Ø50-160mm Vagina For Micropipes



Size(mm.)	Art.Nr.	MOQ
50	37-200.050	1
110	37-200.110	1
140	37-200.140	1
160	37-200.160	1

Ø110mm Vagina For Micropipes



Size(mm.)	Art.Nr.	MOQ
110	37-200.111	1

Product advantages :

- The protective duct sealings are used at road crossings and for unoccupied cable ducts against the penetration of sand
- Due to the pre-cut sealing frame, ducts occupied with cables can be protected against alluvial sand
- The high-quality fittings are suitable for cable duct sockets and insertion ends
- They can easily and quickly be installed and substitute insecure temporary solutions

Materials :

- Body - PE
- Colour - Black

Product advantages :

- Protection for your cables, pipes and manholes
- The conduit seal prevents silting or sanding up of the cable installation pipes or manholes
- The special insert of egg crate foam seals off the cables
- The conduit seal can be opened so that it can be fitted to cables or manholes that are already installed

Materials :

- Body - PE
- Colour - Black

Reducer for a Manhole



Product description :

- Pipe adapter, divisible
- For opening Ø 110 mm
- With 2 pipes inlets Ø 50 mm
- For inserting cables or pipes

Size(mm.)	Art.Nr.	MOQ
110 / 1 x 50	37-ST006300	1

Reducer for a Manhole



Materials :

- Body - PE
- Colour - Black

Size(mm.)	Art.Nr.	MOQ
110/ 2x50	37-ST006302	1

Manhole (PC)

Art.Nr.	MOQ
37-EK 268 to 748	1



Covering



Size(mm.)	Art.Nr.	MOQ
50-110	37-200.026	1

Product description :

- Stepped grommet
- To allow connection of different pipe sizes
- For opening Ø 110 mm
- Allows connection of pipes with external diameter 90, 75, 63, 50 and 40 mm

Rubber Reducer



Size(mm.)	Art.Nr.	MOQ
50-32	37-100/024	1
50-40	37-100/025	1

Product description :

- Moulded transition piece (reducer)
- Reducer for Ø 50 mm opening , divisible
- Can also be used with existing cables or manholes

Materials :

- Body - PE
- Colour - Black

Hook, 2pc set



Product description :

- Lifting hook for cover
- Set (2 ea.)

Art.Nr.	MOQ
37-100/040	1

Key



Product description :

- Tools for attaching manhole cover
- Offset screwdriver for head form hex socket

Art.Nr.	MOQ
37-KEY	1

Logo Plates



Product description :

- Customer-specific company symbol
- Covers can be equipped with a company-specific logo
- Cast bronze: for cast and chequered stud plate covers
- Aluminium: for concrete covers
- Recessed in cover

Size(mm.)	Art.Nr.	MOQ
40 x 80	37-311899	50

Materials :

- Body - Bronze , Aluminium
- Size - 80 x 40 mm

Cutter



Size(mm.)	Art.Nr.	MOQ
32 - 50	79-041.041	1

Minimum effort during cutting :

- Precise right-angled cuts
- Pin-point precision without deformation
- Precise pressure transfer and guided cutter feed
- Automatic, controlled opening of the blade at the push of a button
- Secure grip with the rubberised handles
- Shear arms lockable in transport position

Spare Blades



Size(mm.)	Art.Nr.	MOQ
32 - 50	79-041.041	1

Materials :

- Body - Aluminium
- Blade - Stainless Steel

Tools Box

Art.Nr.	MOQ
79-100.001	1

Included : Knife for Flatliner, Micro Cutter, Inside Beveler, 2-26mm Cutter, 32-50mm Cutter, Pipeplough



Cutter



Size(mm.)	Art.Nr.	MOQ
2 - 26	79-041.039	1

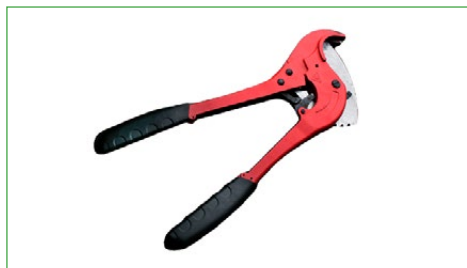
Application advantages :

- Shear arms lockable in transport position
- Secure grip with the rubberised handles
- Precise right-angled cuts
- Precise pressure transfer and guided cutter feed
- Pin-point precision without deformation
- Minimum effort during cutting
- Automatic, controlled opening of the blade at the push of a button

Materials :

- Body - Aluminium
- Blade - Stainless Steel

Cutter Big



Size(mm.)	Art.Nr.	MOQ
50 - 75	79-041.047	1

Minimum effort during cutting

- Precise right-angled cuts
- Pin-point precision without deformation
- Precise pressure transfer and guided cutter feed
- Automatic, controlled opening of the blade at the push of a button
- Secure grip with the rubberised handles
- Shear arms lockable in transport position

Materials :

- Body - Aluminium
- Blade - Stainless Steel

Chain Cutter



Size(mm.)	Art.Nr.	MOQ
20 - 110	79-7.0285	1

Key Features :

- For copper, brass, aluminium, thin-walled steel pipes, as well as plastic coated pipe
- Ideal for working in confined spaces, e.g. parallel-running pipes

Materials :

- Stable chain with 15 mini cutter wheels, two-step adjustment, chrome plated with plastic covered handles

Pipeplough



Size(mm.)	Art.Nr.	MOQ
20 - 110	79-041.050	1

Key Features :

- Longitudinal and circular cuts
- Designed to strip both ends and midspan
- Stripping without cutting what is below
- Interchangeable two-sided blade

Pipeplough Spare Parts



Item	Art.Nr.	MOQ
Holder	79-041.052	1
Knife	79-041.051	1

Cable Stripping Knife with Safety Cap



Size(mm.)	Art.Nr.	MOQ
47mm	79-041.055	1

Key Features :

- Special blade with guide blade prevents damage of conductor strands
- For removal of insulation and sheath
- Blade and back sharpened
- Blade of tempered stainless steel

Knife for Flatliner



Art.Nr.	MOQ
79-041.053	1

Key Features :

- Both the handle and holster are made from super-durable PP plastic
- The holster can be attached to both a belt and a button on your work clothes - If your belt is thick, cut away the small pin on the cover
- The blade is made from Japanese knife steel, 2.5 mm carbon steel that has been hardened to 58-60 HRC

Micro Cutter



Size(mm.)	Art.Nr.	MOQ
0 - 12	79-041.038	1/10

Key Features :

- A hardened steel blade is mounted to a sturdy plastic spring-action frame
- Blade is easily replaced by removing two screws.
- Just align your duct with the blade and the "V" anvil and squeeze.

Rottary Cutter



Size(mm.)	Art.Nr.	MOQ
3 - 14	79-041.038C	1

Key Features :

- Rottary microduct cutter

For clean and right angled cuts on pipes :

- Fast Cut: Quick cutting with just a few turns
- Flexible casing, allows cutting on smaller diameters
- Less space required, ideal for hard-to-reach places
- No deformation of the pipe: self-clamping and self-alignment
- Readjustment not necessary

Cutter



Size(mm.)	Art.Nr.	MOQ
40	79-041.062	1

Reifer



Size(mm.)	Art.Nr.	MOQ
32	79-0410.25	1
40	79-0410.30	1
50	79-0410.35	1

Inside Beveler w. Blade



Art.Nr.	MOQ
79-041.037	1

Pipe-prep and Deburring

- Ideal for deburring edges, pipes and steel, aluminium, brass, copper sheet, cast-iron and plastic plates
- Replaceable blades
- Grip recess is raised at the end and prevents slippage out of the hand
- One-handed use with the retractable locking head
- Offset surfaces provide a good torque

Inside/Outside Beveler



Size(mm.)	Art.Nr.	MOQ
4 -36	79-041.019	1

Key Features :

- Quick and easy deburring

Pull Eye (1)



Size(mm.)	Art.Nr.	MOQ
32	50-10PE118U	1
40	50-12PE142U	1
50	50-12PE173U	1
63	50-20PE228U	1

Pull Eye(2)



Size(mm.)	Art.Nr.	MOQ
32	50-11PE118U	1
40	50-11PE142U	1
50	50-11PE173U	1
63	50-11PE228U	1

PASSIVE OPTICAL TERMINAL BOX



FPT-DW-1

Passive optical terminal box

PRODUCT DETAILS :

- Box material : Polymer synthetic plastic
- Box size (mm) : 210x175x50
- Fiber tray capacity : 12 core
- Weight (kg) : 0.5-0.6
- Protection grade : IP65



Professional terminal box used in FTTH projects. Excellent sealing , reusable. For outdoor installations (wall-mounted, pole-mounted - using different accessories)

Optimal for cable protection under 12mm Diameter. 1:8 SC or 1:16 LC micro-splitter. (also SC single core or LC double core adapters)

PASSIVE OPTICAL TERMINAL BOX



FPT-DW-9

Passive optical terminal box



Professional terminal box used in FTTH projects. Flame retardant, dust-proof, UV-secure , compact structured. For outdoor installations (wall-mounted)

SC adapter is applicable

PRODUCT DETAILS :

- Box material : Polymer synthetic plastic
- Box size (mm) : 165x131x34
- Fiber tray capacity : 2 core
- Weight (kg) : 0.2-0.3
- Protection grade : IP65

TERMINAL BOX



FPT-FN-1

Terminal box



Professional terminal box used in FTTH projects.
For indoor installations (wall-mounted).

It applies to wiring and protection of 4 cores indoor terminal. SC, FC, and E2000 adapters are applicable.
The maximum capacity is 4F.

PRODUCT DETAILS :

- Box material : Polymer synthetic plastic
- Box size (mm) : 150x110x30
- Fiber tray capacity : 4 core
- Weight (kg) : 0.2-0.3

FIBER OPTICAL TERMINAL BOX



FPT-FN-12

Fiber optical terminal box



Professional terminal box used in FTTH projects.
For indoor installations (wall-mounted).

It can be used universally with standard A86 splice box. SC adaptor and FC adapter are both applicable.

PRODUCT DETAILS :

- Box material : Polymer synthetic plastic
- Box size (mm) : 165x131x34
- Fiber tray capacity : 2 core
- Weight (kg) : 0.2-0.3
- Protection grade : IP65

FIBER OPTICAL TERMINAL BOX



FPT-C1

Fiber optical terminal box



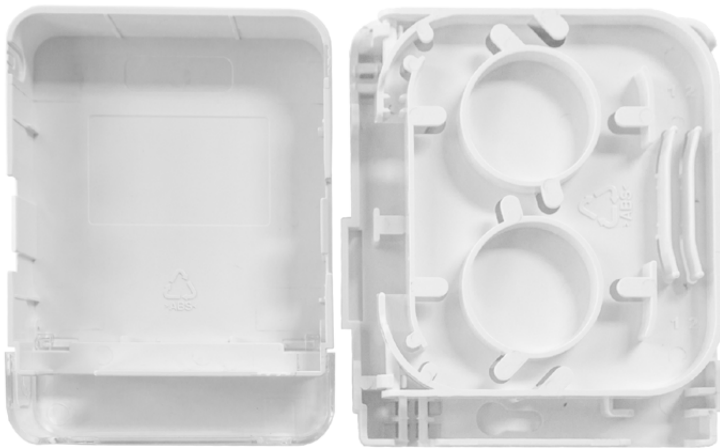
Professional terminal box used in FTTH projects.
For indoor installations (wall-mounted).

1 SC or 2 double LC adapters are applicable.

PRODUCT DETAILS :

- Box material : Polymer synthetic plastic
Box size (mm) : 148x90x16

FIBER OPTICAL TERMINAL BOX



FPT-1F

Fiber optical terminal box



Professional terminal box used in FTTH projects.
For indoor installations (wall-mounted).

1 SC or 1 double LC adapter is applicable.

PRODUCT DETAILS :

- Box material : Polymer synthetic plastic
Box size (mm) : 115x86x23

FIBER OPTICAL TERMINAL BOX



FPT-2C

Fiber optical terminal box

Professional terminal box used in FTTH projects.
For indoor installations (wall-mounted).

2 SC or 4 LC adapters are applicable.

PRODUCT DETAILS :

- Box material : Polymer synthetic plastic
Box size (mm) : 86x86x24

FIBER OPTICAL TERMINAL BOX



FPT-2D

Fiber optical terminal box



Professional terminal box used in FTTH projects.
For indoor installations (wall-mounted).

2 SC or 2 double LC adapters are applicable.

PRODUCT DETAILS :

- Box material : Polymer synthetic plastic
Box size (mm) : 105x82,5x22,5

FIBER OPTICAL TERMINAL BOX



FPT-2H

Fiber optical terminal box



Professional terminal box used in FTTH projects.
For indoor installations (wall-mounted).

2 SC or 4 LC adapters are applicable.

PRODUCT DETAILS :

- Box material : Polymer synthetic plastic
- Box size (mm) : 84x130x24

FIBER OPTICAL TERMINAL BOX



FPT-4F

Fiber optical terminal box

Professional terminal box used in FTTH projects.
For indoor installations (wall-mounted).

4 SC or 4 double LC adapters are applicable.

PRODUCT DETAILS :

- Box material : Polymer synthetic plastic
Box size (mm) : 100,5x80,5x28,8

PASSIVE OPTICAL TERMINAL BOX



FPT-FN-4

Passive optical terminal box

Professional terminal box used in FTTH projects.
For indoor installations (wall-mounted).

It can be used universally with standard A86 splice box. SC adapter and FC adapter are both applicable.

PRODUCT DETAILS :

- Box material : Polymer synthetic plastic
- Box size (mm) : 86x27x86
- Fiber tray capacity : -
- Weight (kg) : 0.06-0.1

PASSIVE OPTICAL TERMINAL BOX



FPT-DW-2

Passive optical terminal box

PRODUCT DETAILS :

- Box material : Polymer synthetic plastic
Box size (mm) : 208x153x52
Fiber tray capacity : 4 core
Weight (kg) : 0.5-0.6
Protection grade : IP65



Professional terminal box used in FTTH projects. Excellent sealing , reusable. For outdoor installations.

Optimal for cable protection under 12mm Diameter. 1:2SC or 1:4LC micro-splitter is applicable, and it also can be installed with SC or LC double cores adapters.

Maximum of LC adapter is 4 cores while 2 cores is the maximum for SC adapter

PASSIVE OPTICAL TERMINAL BOX



FPT-DW-3

Passive optical terminal box

PRODUCT DETAILS :

- Box material : Polymer synthetic plastic
- Box size (mm) : 258x186x61
- Fiber tray capacity : 12 or 24 core
- Weight (kg) : 0.9-1.0
- Protection grade : IP65



Professional terminal box used in FTTH projects.
Excellent sealing , reusable. For outdoor installations.

Optimal for cable protection under 12mm Diameter.
1:8SC or 1:16LC micro-splitter is applicable, and it also
can be installed with SC double cores or 4 cores LC
adapters.

Maximum of LC adapter is 24 cores while 12 cores is
the maximum for SC adapter.

PASSIVE OPTICAL TERMINAL BOX



FPT-A24/B24

Passive optical terminal box

PRODUCT DETAILS :

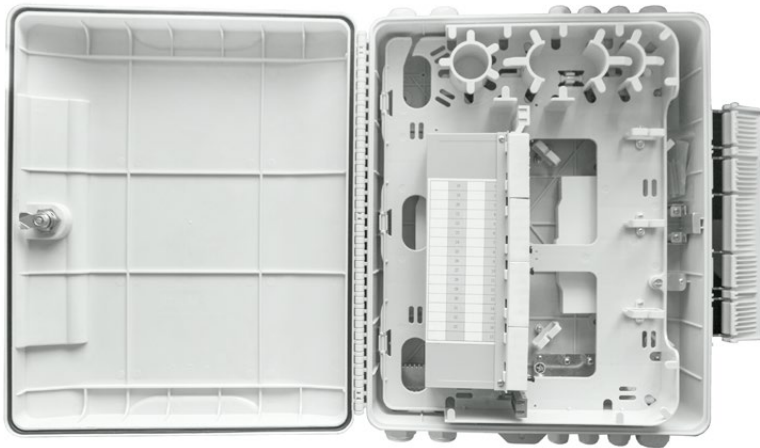
- Box material : Polymer synthetic plastic
Box size (mm) : 374×264×112
Fiber tray capacity : 24 core
Weight (kg) : 2.1-3.0
Protection grade : IP65



Professional terminal box used in FTTH projects. For outdoor installations. (wall-mounted, pole-mounted using different accessories)

Equipped with reliable fiber optic cable, soft cable fixed device. It is allowed to install the cassette optical splitter (1:4 ,1:8 ,1:16) and matched adapters. Equipped with fiber splice protection and blade PLC splitter fixing devices.

TERMINAL DISTRIBUTION BOX



FPT-A48/B48

Terminal distribution box

Professional terminal box used in FTTH projects. For outdoor installations. (wall-mounted, pole-mounted using different accessories)

Equipped with reliable fiber optic cable, soft cable fixed device. It is allowed to install the cassette optical splitter (1:4, 1:8, 1:16) and matched adapters. Equipped with fiber splice protection and blade PLC splitter fixing devices.

PRODUCT DETAILS :

- Box material : Polymer synthetic plastic
- Box size (mm) : 504×374×134
- Fiber tray capacity : 48 core
- Weight (kg) : 4.8-5.2
- Protection grade : IP65

SPLICE CLOSURE



FPT-9401

Splice closure

PRODUCT DETAILS :

- Box material : Modified polymer plastic
Box size (mm) : 295×220×90
Weight (kg) : 2.1-2.3



Excellent seal performance, reusable.
Installation Method: Wall-mounted,
pole-mounted, manhole.

Feature:

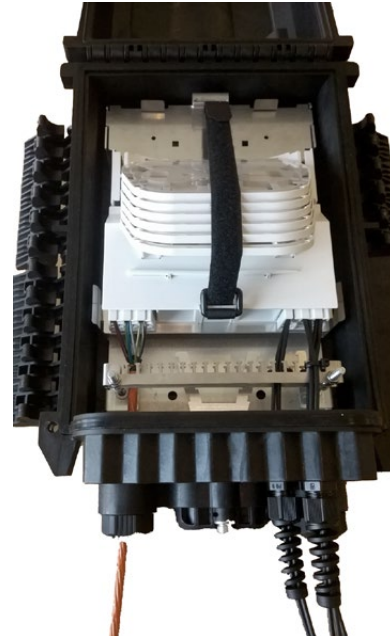
- Distinguishable design, mechanical seal of spiral pattern, compact appearance.
- Cable, welding, wiring and interface connection protection can be provided.
- Vulcanized silicone sealing units can meet demands for $\Phi 10 \sim 17.5$ cables

SPLICE CLOSURE



FPT-8202

Splice closure



Excellent sealing performance, reusable. Protection grade is IP 68. Installation method: wall-mounted, pipe-lined, pole-mounted

Feature:

- One uncut cable port(applicable to cable diameter D10~D17.5mm), 24 cable ports (applicable to 8-type cable, the size is 2*3mm), 24 adapters can be installed.
- It is 24F/cover tray, the maximum is 96F (4 cover trays), splitters can be installed on the cover tray (one 1:16 splitter or two 1:8 splitters).

PRODUCT DETAILS :

- Box material : Modified polymer plastic
Box size (mm) : 380×245×130
Weight (kg) : 3.0-3.5

STREET CABINET FOR MICROINFRASTRUCTURE



SC804020

Professional street cabinet used in FTTH projects. Excellent performance , flexible structure. For small and medium areas. Easy installation process.

SC804020 is an innovative solution that is the optimal balance between size, density and access.

Optimal for cable protection.

PRODUCT DETAILS :

- Number of Houses: 6-24
Max Fiber: 288
Cabinet material : Aluminium
Cabinet size (mm) : 1303x406x200
- 12-288 optical fibers
- Breakout possibility
- Rubber sealings elements $\varnothing 2 - \varnothing 12\text{mm}$
- Easy mounting in sections
- Made in Aluminium
- Different combinatios
- Violence protected with different lock systems
- Standard cable size from $\varnothing 2 - \varnothing 12\text{mm}$

FPT Lubric Micro 4-20mm & FPT Lubric Pipe 25-60mm



Size	Art.Nr.	MOQ
500ml	Lubric-micro 0,5l	12pcs in box
25l	Lubric-micro 25l	-
500ml	Lubric-pipe 0,5l	12pcs in box
25l	Lubric-pipe 25l	-

FPT Lubric Allround Gliss



Size	Art.Nr.	MOQ
1l	Lubric-gliss 1,0l	-
25l	Lubric-gliss 25l	-

A special water based lubricant for fiber optical installations. LUBRIC allows to prelube the pipe or cable before/during the blowing procedure. It adheres perfectly to the cable or internal pipe surface and leaves a very tiny film. Lubric protects cables against dirt and retains its lubricating power even when water is present.

LUBRIC reduces surface friction and increases the blowing distance. Due to it's consistency, fluidity and low evaporation rate, LUBRIC is recommended for all cable/pipe installations.

Materials :

- Water emulsion of different kind of polymers

Technical Specification:

- White liquid
- None odour
- Viscosity 120 sec. Ford cup diam. mm 4 at 20°C
- Mass Density 1,030 (+/-) 0,03 gr/cm³
- PH 7,5 (+/-) 0,5
- Non Inflammable
- Temperature -5°C to +70° C
- Biodegradable
- Non-toxic

Application :

1. Shake bottle
2. Fill the dispenser
3. Or prelubricate the cable /pipe using a sponge

Suggested quantities :

5 ml x 1000 m for internal Ø 4 mm
 10 ml x 1000 m for internal Ø 8 mm
 15 ml x 1000 m for internal Ø 12 mm
 20 ml x 1000 m for internal Ø 14 mm
 25 ml x 1000 m for internal Ø 16 mm
 35 ml x 1000 m for internal Ø 20 mm
 60 ml x 1000 m for internal Ø 25-30 mm
 70 ml x 1000 m for internal Ø 30-40 mm
 80 ml x 1000 m for internal Ø 40-60 mm

Compact Receiver



Art.Nr.	MOQ
CMPR-001	1

Compact Receiver is an easy-to-use wire, cable and duct sonde locator. CR is compatible with all 10kHz and 33kHz transmitters and sondes, as well as 512HZ sondes for metal ducts. It also supports 33kHz frequency used by other vendors such as radiodetection.

CR can be used to trace and pinpoint duct sondes and underground cables from several metres depth. Indoors CR be used e.g. to locate floor heating cables and wires inside walls.

Technical Specification:

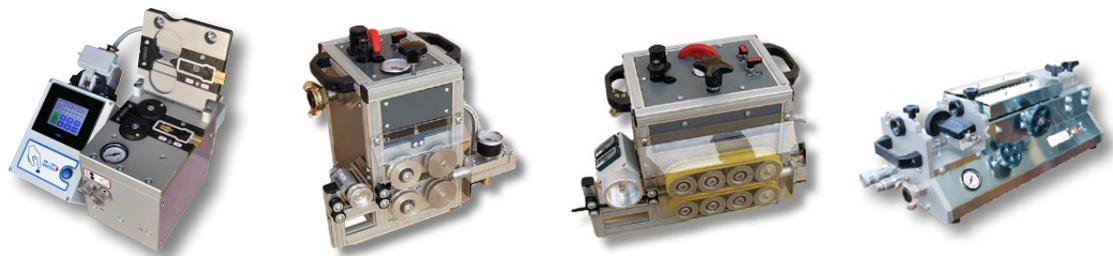
- Adjustments**
2 buttons for power on/off, 7-step gain adjustment and change of receiving frequency
- Connectors**
Male connector for interchangeable probes
- Sondes : 6,4mm, 7,5mm, 9,5mm,18,0mm
- LED indicators**
Green LED for power on and low battery indication, 12 red LEDs for received signal strength display (24 levels), for firmware version display, for battery status display and for active operating frequency display
- Sound indicators**
Internal speaker for tracing signal and for other audible indications
- Batteries**
3pcs. 1.5V IEC LR03 (AAA) alkaline batteries. Low battery warning at approx. 3.7V
- Enclosure material & size**
Stainless steel and aluminium, 180 x Ø40 mm, weight approx. 230g (batteries included, no probes)
- Protection class**
IEC 60529 IP44
- Environmental conditions**
Usage -40...+60°C (dry or moist conditions)



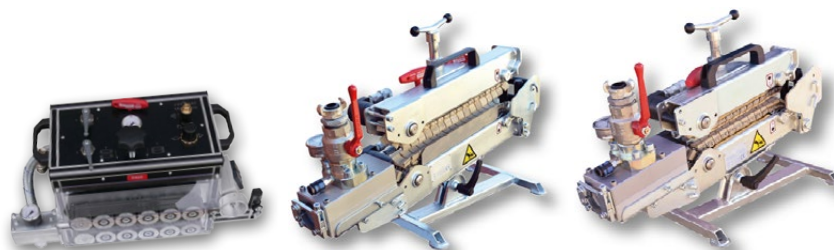
6,4mm range 2,3m 7,5mm range 5,7m 9,0mm range 5,1m 18,0mm range 10,0m



for straight ducts min. ID 8mm for straight ducts min.ID 10mm for straight ducts min.ID 15mm for straight ducts min.ID 26mm



Model	Fiber MicroBlow (FMB)	Fiber Blow (FB)	Fiber Standard (FS)	Fiber Flow (FF)
Usage	Inside Plant	Outside Plant	Outside Plant	In/Outside Plant
Fiber/Cable Diameter	0,8-3 mm	5-9 mm		4-12 mm
Tube Size (OD)	5-16 mm	8-16 mm	8-16 mm	7-20 mm
Product number	FMB-10001	FB-10003	FS-10004	FF-10006
Install Speed to	100 m/min.	100 m/min.	100 m/min.	100 m/min.
Distance	Up to 2.5 km	-	-	Up to 3.5 km
Recommended Airflow Recommended Pressure	200-500 l/pr. min. 8-16 bar air	- max 15 bar	- max 15 bar	1.000 l/pr. min. 8-16 bar air
Length: Width: Height: Weight:	Machine: 25 cm 15 cm 22 cm 9,7 kg. Control Box: 25 cm 16 cm 13 cm 1,9 kg.	330 mm 220 mm 280 mm 7 kg.	480 mm 220 mm 280 mm 9 kg.	650 mm 225 mm 210 mm 24 kg.
Unique Features	Automatic Buckle Detection Adjustable Torque Preset Automatic Stop Adjustable Speed Control Speed, Torque & Count Display Air Pressure & Flow Regulation Easy to Operate Simple Maintenance	Use with Air Compact Light weight Flexible Adaptability Great resistance Distance and Speed measurment Ease of Use Simple Maintenance	Use with Air Compact Light weight Flexible Adaptability Great resistance Distance and Speed measurment Ease of Use Simple Maintenance	Use with Air or Water Push Force Monitor Rugged Construction Flexible Adaptability Adjustable Torque Distance and Speed measurment Ease of Use Simple Maintenance



Model	Fiber Kat Micro (FKT)	Fiber Compact (FC)	Fiber MultiPower (FMP)
Usage	In/Outside Plant	Outside Plant	Outside Plant
Fiber/Cable Diameter	3-12 mm	8-25 mm	8-32 mm
Tube Size (OD)	7-20 mm	18-70 mm	18-70 mm
Product number	FKT-10007	FC-10008	FMP-10009
Install Speed to	120 m/min.	80 m/min.	80 m/min.
Distance	-	Up to 10 km*	Up to 10 km*
Recommended Airflow Recommended Pressure	- 7 bar	8.000-12.000 l/pr. min. 8-12 bar air	8.000-12.000 l/pr. min. 8-12 bar air
Length: Width: Height: Weight:	540 mm 240 mm 290 mm 12 kg.	650 mm 230 mm 350 mm 38 kg.	700 mm 230 mm 350 mm 40 kg.
Unique Features	Use with Air Adjustable Speed Control Speed, Torque & Count Display Air Pressure & Flow Regulation Easy to Operate Simple Maintenance *Model Log Box	Use with Air or Water Installs Single Cable Rugged Construction Flexible Adaptability Adjustable Torque Distance and Speed measurement Ease of Use Simple Maintenance	Use with Air or Water Jets Tubes or Cable Rugged Construction Flexible Adaptability Adjustable Torque Distance and Speed measurement Ease of Use Simple Maintenance

