

# **BROADBAND NETWORKS / FTTX PRODUCT GUIDE**

**2021**

# WE DO IT. FOR YOU.

# TURNKEY SOLUTIONS FROM A SINGLE SOURCE

Successful digitalization starts with Datwyler's pioneering IT infrastructure:

- **Fibre networks/FTTx**
- **Intelligent buildings**
- **Data centres**

With our innovative systems, products and services we enable you to scale your business with ease.

**We pursue a modular approach.**

As an expert turnkey partner we can, if you wish, hand over your complete ready-to-use IT infrastructure: on time, with the services previously arranged, in the version you want and at the cost agreed.

In collaboration with experienced local partners we are also happy to support you in business and engineering planning at the preliminary stage of your project as well as turnkey execution in the passive network sector right through to acceptance, documentation and maintenance of the systems and installations implemented.

## PRODUCTS

### Fibre networks/FTTx

#### Central office/PoP

- Optical distribution frames (ODF)
- FO trunk cables
- Terminal boxes
- Street cabinets
- Points of Presence (PoP)

#### Outdoor

- FO outdoor cables
- Splice closures
- Shafts and manholes
- Micro tubes
- Accessories
- Street cabinets

#### Indoor

- BEP terminals
- FO distribution boxes
- Multimedia boxes
- Patch cables
- Racks and enclosures
- FO indoor cables

#### Tools

- Tube and fibre planning tool
- Labelling tool

## SERVICES

#### Pre-study

- Strategy and feasibility:
  - Business model
  - Network design (P2P, PON, G-PON)
  - Business plan (successive levels of detail)
  - Models of cooperation
  - Partner models
  - Assistance in raising state subsidies

#### PoP specification

- Application for residential and business customers:
  - FTTx project
  - Full project
  - Subproject
  - Synergies
- Use for in-house requirements:
  - Administration
  - Plants
  - Cable network

#### Project development

- Acquisition support
- Building inspections
- Strategic cell design
- Master plan for conduits
- Processes and organisation
- Resources (project management, team)

#### Resources

- Material / logistics:
  - Materialisation
  - Training
  - Development
  - Logistics
- Areas of application:
  - Central office / PoP
  - Outdoor
  - Indoor
  - Tools
- Partners:
  - Establishing a network

#### Implementation

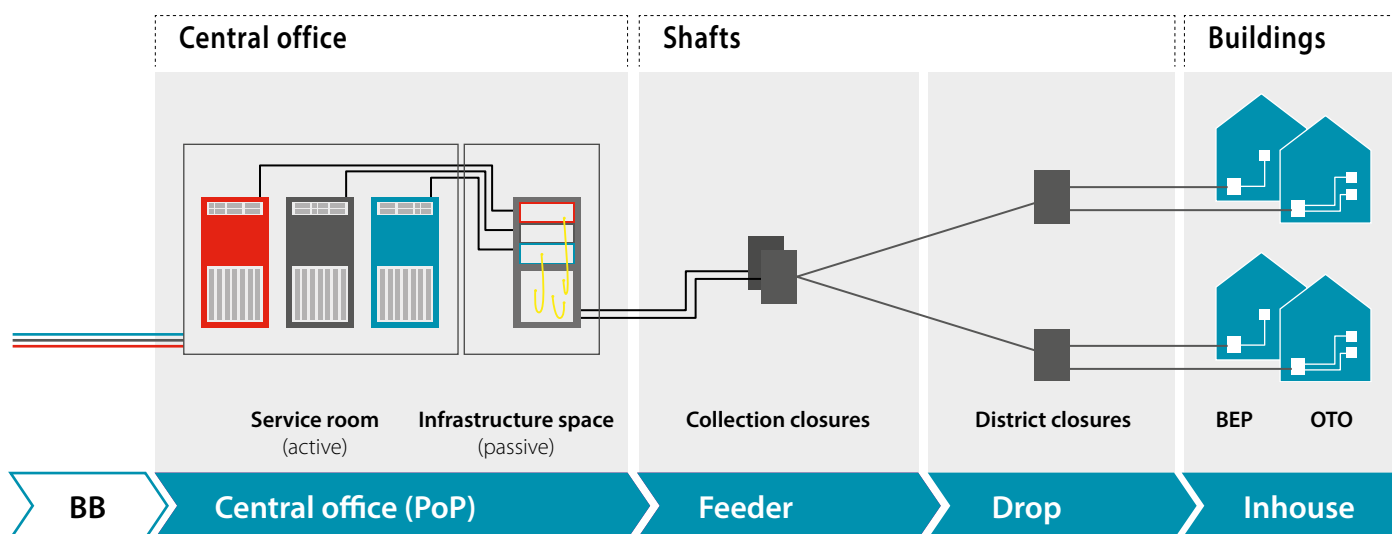
- Contract models
- Project management
- Coordination of local partners
- Operative cell design
- Network construction
- Documentation
- Commissioning
- Training

#### Operation (L1+)

- Activation and switch-over
- New connections and expansions
- Maintenance
- Continuous documentation

IF YOU ARE INTERESTED  
SIMPLY TALK TO US

## THE CENTRAL OFFICE - THE HEART OF THE FIBRE OPTIC INFRASTRUCTURE



### Central office (PoP)

#### Optical Distribution Frames (ODF)

##### 42U / 19" and 21" (ETSI), passive

The Datwyler ODF solution provides users with a flexible cable/tube access from bottom and top, needs-based expansion possibilities, integrated intelligent cable management with 35 mm bend radius control and optimised strain relief, and a future proof modular design. Suitable for backbone and distribution networks, particularly for PoPs in the carrier section.

ODF with welded sheet steel frame, front and back doors, side panels, top and bottom plates.

Vertical profiles.

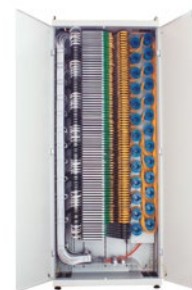
Comes with integrated cable/tube distribution, cable management, bend radius control and strain relief.

Set of adjustable feet as standard.

Earthing kit: optional.

Optionally delivered without doors and side panels (bayable).

Pre-assembled ODFs on request.



Article No.	Product	Height	Weight [kg]	Height [mm]	Width [mm]	Depth [mm]	PU
19694000ZY	ODF, 42U frame with doors and walls	42 U	120	2200	1200	300	1 pc.

#### ODF subracks, Standard

##### 1U, 2U, 3U, 48-144 fibres

The Datwyler ODF subracks are particularly suitable for high-density applications in telco/carrier networks.

They provide advanced splice and patch systems and cable management.

Smooth and convenient swing-out system.

Cable glands to secure the incoming fibres.

Strain relief for all cables.

Bend radius control for fibres.

Suitable for backbone and distribution networks, particularly for PoPs in the carrier section.

Also suitable for data centres and LAN projects (19").

Capacity: 1U up to 48, 2U up to 96, 3U up to 144 fibres (72 duplex adapters)

Colour: Light grey, RAL 7035 (powder-coated)



Article No.	Product	Height	Number of fibres	Number of adapters	Adapters
19694900ZY	ODF subrack, Standard	1 U	48	24	LCD/APC
19694800ZY	ODF subrack, Standard	2 U	96	48	LCD/APC
19694700ZY	ODF subrack, Standard	3 U	144	72	LCD/APC



## ODF subracks, Easy Access

### 1U, 2U, 3U, 48-144 fibres

The Datwyler ODF subracks are particularly suitable for high-density applications in telco/carrier networks. They provide advanced splice and patch systems and cable management. Smooth and convenient telescopic sliding system. Cable glands to secure the incoming fibres. Strain relief for all cables. Bend radius control for fibres. Suitable for backbone and distribution networks, particularly for PoPs in the carrier section. Also suitable for data centres and LAN projects (19").



Capacity: 24 ports per tray - 1U up to 48, 2U up to 96, 3U up to 144 fibres (72 duplex adapters)  
 Material: 1.5 mm sheet steel  
 Colour: Light grey, RAL 7035 (powder-coated)  
 Weight: 5 kg (empty)

Article No.	Product	Height	Number of fibres	Number of adapters	Adapters
19694600ZY	ODF subrack, Easy Access	1 U	48	24	LCD/APC
19694500ZY	ODF subrack, Easy Access	2 U	96	48	LCD/APC
19694400ZY	ODF subrack, Easy Access	3 U	144	72	LCD/APC

## ODF subracks, Pull-Out

### 1U, 2U, 3U, 48-144 fibres

The Datwyler ODF subracks are particularly suitable for high-density applications in telco/carrier networks. They provide advanced splice and patch systems and cable management. Modules are rear mounted for improved side access. Single fibre trays and connected patch cords can slide in and out independently as one pull-out unit. Splice cassette design allows splicing on one side and cable storage on the other side. Folding cassettes (up to 135 degree) for ease of installation and maintenance. Cable glands to secure the incoming fibres. Strain relief for all cables. Bend radius control for fibres. Suitable for backbone and distribution networks, particularly for PoPs in the carrier section. Also suitable for data centres and LAN projects (19").



Capacity: 24 ports per tray - 1U up to 48, 2U up to 96, 3U up to 144 fibres (72 duplex adapters)  
 Material: Sheet steel  
 Colour: Light grey, RAL 7035 (powder-coated)  
 Weight: 4 kg (empty)  
 Dimensions: W x D x H: 486 x 258 x 133 mm

Article No.	Product	Height	Number of fibres	Number of adapters	Adapters
19694300ZY	ODF subracks, Pull-Out	1U	48	24	LCD/APC
19694200ZY	ODF subracks, Pull-Out	2U	96	48	LCD/APC
19694100ZY	ODF subracks, Pull-Out	3U	144	72	LCD/APC

## FO simplex patch cord

### E9/125 G.657.A1 OS2

Datwyler offers a broad range of terminated connectors for individual customer needs. Single cables with 2.0 mm are used for all patch cords.



### FO simplex patch cord SC/PC - LC/APC

Article No.	Product	Sheath	Sheath colour	Connector type side A	Length	Connector type side B	Type of fibre
344781	FO simplex patch cord SC/PC - LC/APC, E9/125 G.657.A1 OS2	LS0H	yellow	LC/APC	1 m	SC/PC	G.657.A1
344782	FO simplex patch cord SC/PC - LC/APC, E9/125 G.657.A1 OS2	LS0H	yellow	LC/APC	2 m	SC/PC	G.657.A1
344783	FO simplex patch cord SC/PC - LC/APC, E9/125 G.657.A1 OS2	LS0H	yellow	LC/APC	3 m	SC/PC	G.657.A1

### FO simplex patch cord SC/PC - SC/APC

Article No.	Product	Sheath	Sheath colour	Connector type side A	Length	Connector type side B	Type of fibre
344784	FO simplex patch cord SC/PC - SC/APC, E9/125 G.657.A1 OS2	LS0H	yellow	SC/APC	1 m	SC/PC	G.657.A1
344785	FO simplex patch cord SC/PC - SC/APC, E9/125 G.657.A1 OS2	LS0H	yellow	SC/APC	2 m	SC/PC	G.657.A1
344786	FO simplex patch cord SC/PC - SC/APC, E9/125 G.657.A1 OS2	LS0H	yellow	SC/APC	3 m	SC/PC	G.657.A1

Other lengths and connector types on request.

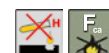


## Outdoor cables

### FO Outdoor wbKT Micro / A-DQ(ZN)2Y, up to 144 fibres

Very compact, metal-free fibre optic outdoor cable with up to 144 fibres in stranded loose tubes.

Easily cut-back, installation friendly cable construction with dry interstices. Sheath colour: black.



Article No.	Product	Number of fibres	Fibre type	Loose tubes	Sheath Ø [mm]	Weight [kg/km]	Bending radius [mm]	Tensile load [N]	Crush resistance continuous [N]	short term [N]	Fire load [kWh/m]
19170600FZ	FO Outdoor Micro 1 x 12	12	E9/125 G.652.D	5	6.6	27	150	1000	600	1600	0.247
19008000FZ	FO Outdoor Micro 2 x 12	24	E9/125 G.652.D	5	6.6	27	150	1000	600	1600	0.247
19023000FZ	FO Outdoor Micro 4 x 12	48	E9/125 G.652.D	5	6.6	27	150	1000	600	1600	0.247
19023100FZ	FO Outdoor Micro 5 x 12	60	E9/125 G.652.D	5	6.6	27	150	1000	600	1600	0.247
19023200FZ	FO Outdoor Micro 6 x 12	72	E9/125 G.652.D	6	6.5	27	150	1000	600	1600	0.234
19181300FZ	FO Outdoor Micro 8 x 12	96	E9/125 G.652.D	8	6.6	30	250	2500	600	1400	0.303
19181400FZ	FO Outdoor Micro 6 x 24	144	E9/125 G.652.D	6	8.2	30	250	2500	600	1400	0.344

### FO Outdoor ZT S-Micro / A-D2Y, up to 24 fibres

Very thin, metal-free fibre optic outdoor cable with up to 24 fibres in one central loose tube.

Easily cut back, installation friendly cable construction. Optimised for injection into microducts.

Sheath colour: black.



Article No.	Product	Number of fibres	Fibre type	Loose tubes	Sheath Ø [mm]	Weight [kg/km]	Bending radius [mm]	Tensile load [N]	Crush resistance continuous [N]	short term [N]	Fire load [kWh/m]
19343400FZ	FO Outdoor S-Micro 1 x 4	4	E9/125 G.652.D BLO	1	2.4	5	40	100	400	1200	0.12
19604800FZ	FO Outdoor S-Micro 1 x 6	6	E9/125 G.652.D BLO	1	2.4	5	40	100	400	1200	0.12
19346000FZ	FO Outdoor S-Micro 1 x 12	12	E9/125 G.652.D BLO	1	2.4	5	40	100	400	1200	0.12
19343300FZ	FO Outdoor S-Micro 1 x 24	24	E9/125 G.652.D BLO	1	2.4	6	40	100	400	1200	0.12

### FO Outdoor wbKT S-Micro / A-DQ(ZN)2Y, up to 288 fibres

Highly compact, metal-free fibre optic outdoor cable with up to 288 fibres in stranded loose tubes and with dry interstices.

Easily cut-back, installation-friendly cable construction. Optimised for injection into microducts.

Sheath colour: black.



Article No.	Product	Number of fibres	Fibre type	Loose tubes	Sheath Ø [mm]	Weight [kg/km]	Bending radius [mm]	Tensile load [N]	Crush resistance continuous [N]	short term [N]	Fire load [kWh/m]
19269300FZ	FO Outdoor S-Micro 2 x 12	24	E9/125 G.652.D BLO	2	4.2	17	250	750	400	1200	0.09
19215000FZ	FO Outdoor S-Micro 4 x 12	48	E9/125 G.652.D BLO	4	4.2	17	250	750	400	1200	0.09
19215900FZ	FO Outdoor S-Micro 8 x 12	96	E9/125 G.652.D	8	6.6	42	250	1900	400	1200	0.18
19214900FZ	FO Outdoor S-Micro 8 x 12	96	E9/125 G.652.D BLO	8	6.6	42	250	1900	400	1200	0.18
19709000FZ	FO Outdoor S-Micro 12 x 12	144	E9/125 G.652.D BLO	12	8.2	58	300	1900	400	1200	0.345
19450000FZ	FO Outdoor S-Micro 6 x 24	144	E9/125 G.652.D	6	6.5	33	250	1300	400	1200	0.18
19262500FZ	FO Outdoor S-Micro 9 x 24	216	E9/125 G.652.D	9	8.4	58	300	1900	400	1200	0.325
19600000FZ	FO Outdoor S-Micro 12 x 24	288	E9/125 G.652.D	12	10.4	88	300	2900	400	1200	0.562

### FO Outdoor wbKT C-Micro / A-DQ(ZN)2Y, 72 fibres

Highly compact, metal-free fibre optic outdoor cable with 72 fibres (200 µm).

Dry interstices and stranded loose tubes.

Easily cut-back, installation-friendly cable construction.

Optimised for injection into microducts.

Sheath colour: black.



Article No.	Product	Number of fibres	Fibre type	Loose tubes	Sheath Ø [mm]	Weight [kg/km]	Bending radius [mm]	Tensile load [N]	Crush resistance continuous [N]	short term [N]	Fire load [kWh/m]
19618000FZ	FO Outdoor C-Micro 3 x 24	72	E9/125 G.652.D BLO200	3	4.1	18	100	700	400	1200	0.09

You will find detailed information on the types of fibre here:





## Outdoor cables

### FO Outdoor ZGGT HP / A-DQ(ZN)B2Y

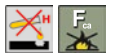
Robust, metal-free fibre optic outdoor cable with one central loose tube and up to 24 fibres. High tensile strength and high radial load strength for the highest transmission security. Lightweight and installation friendly cable construction. Non-metallic rodent protection. The two coloured ripcords are easy to identify and enable the safe opening of the cable sheath. HDPE cable sheath, easy to lay. Sheath colour: black.



Article No.	Product	Number of fibres	Fibre type	Loose tubes	Sheath Ø [mm]	Weight [kg/km]	Bending radius [mm]	Tensile load [N]	Crush resistance continuous [N]	short term [N]	Fire load [kWh/m]
19016600FZ	FO Outdoor HP 1 x 4	4	E9/125 G.652.D	1	8.2	75	130	2500	6000	10.000	0.558
19016700FZ	FO Outdoor HP 1 x 6	6	E9/125 G.652.D	1	8.2	75	130	2500	6000	10.000	0.558
19016800FZ	FO Outdoor HP 1 x 8	8	E9/125 G.652.D	1	8.2	75	130	2500	6000	10.000	0.558
19016900FZ	FO Outdoor HP 1 x 12	12	E9/125 G.652.D	1	8.2	75	130	2500	6000	10.000	0.558
19014900FZ	FO Outdoor HP 1 x 24	24	E9/125 G.652.D	1	8.6	80	135	2500	6000	10.000	0.589

### FO Outdoor wbGGT HP / A-DQ(ZN)B2Y

Robust, metal-free fibre optic outdoor cable with stranded loose tubes in one layer. High crush resistance for high transmission reliability. Easy handling due to the use of dry strand interstices. Non-metallic rodent protection. The two coloured ripcords are easy to identify and enable the safe opening of the cable sheath. HDPE cable sheath, easy to lay. Sheath colour: black.



Article No.	Product	Number of fibres	Fibre type	Loose tubes	Sheath Ø [mm]	Weight [kg/km]	Bending radius [mm]	Tensile load [N]	Crush resistance continuous [N]	short term [N]	Fire load [kWh/m]
19005900FZ	FO Outdoor HP 1 x 12	12	E9/125 G.652.D	5	12.0	136	180	9000	3000	8000	1.04
18674800FZ	FO Outdoor HP 2 x 12	24	E9/125 G.652.D	5	12.0	136	180	9000	3000	8000	1.04
18738500FZ	FO Outdoor HP 4 x 12	48	E9/125 G.652.D	5	12.0	136	180	9000	3000	8000	1.04
19017100FZ	FO Outdoor HP 5 x 12	60	E9/125 G.652.D	5	12.0	136	180	9000	3000	8000	1.04
19017200FZ	FO Outdoor HP 6 x 12	72	E9/125 G.652.D	6	12.8	151	195	9000	3000	8000	1.137
18676000FZ	FO Outdoor HP 8 x 12	96	E9/125 G.652.D	8	14.0	179	210	9000	3000	8000	1.305
19017500FZ	FO Outdoor HP 10 x 12	120	E9/125 G.652.D	10	15.4	209	230	9000	3000	8000	1.491
18739400FZ	FO Outdoor HP 12 x 12	144	E9/125 G.652.D	12	16.9	246	255	9000	3000	8000	1.707
19076400FZ	FO Outdoor HP 6 x 24	144	E9/125 G.652.D	6	13.8	173	205	9000	3000	8000	1.291
19069600FZ	FO Outdoor HP 9 x 24	216	E9/125 G.652.D	10	17.0	279	255	9000	3000	8000	1.993
19032500FZ	FO Outdoor HP 12 x 24	288	E9/125 G.652.D	12	18.8	296	285	9000	3000	8000	2.435
19017800FZ	FO Outdoor HP 2L 18 x 24	432	E9/125 G.652.D	18	20.2	336	515	5000	2000	3500	3.115

### FO Outdoor ZKT Micro / A-DQ(ZN)2Y, up to 24 fibres

Very thin, metal-free fiber optic outdoor cable with up to 24 fibres in one central loose tube. Easily cut-back, installation friendly cable construction. Sheath colour: black.



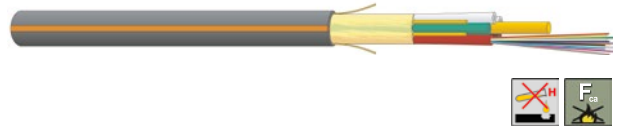
Article No.	Product	Number of fibres	Fibre type	Loose tubes	Sheath Ø [mm]	Weight [kg/km]	Bending radius [mm]	Tensile load [N]	Crush resistance continuous [N]	short term [N]	Fire load [kWh/m]
19022700FZ	FO Outdoor Micro 1 x 12	12	E9/125 G.652.D	1	4.0	13	100	500	600	1600	0.165
19134900FZ	FO Outdoor Micro 1 x 12	12	E9/125 G.652.D BLO	1	4.0	13	100	500	600	1600	0.165
19123500FZ	FO Outdoor Micro 1 x 24	24	E9/125 G.652.D	1	4.0	15	100	500	600	1600	0.165
19135000FZ	FO Outdoor Micro 1 x 24	24	E9/125 G.652.D BLO	1	4.0	15	100	500	600	1600	0.165



## Outdoor cables

### FO Outdoor wbKT Micro / A-DQ(ZN)2Y, up to 144 fibres

Very compact, metal-free fibre optic outdoor cable with up to 144 fibres in stranded loose tubes.  
Easily cut-back, installation friendly cable construction with dry interstices.  
Sheath colour: black.



Article No.	Product	Number of fibres	Fibre type	Loose tubes	Sheath Ø [mm]	Weight [kg/km]	Bending radius [mm]	Tensile load [N]	Crush resistance continuous [N]	short term [N]	Fire load [kWh/m]
19170600FZ	FO Outdoor Micro 1 x 12	12	E9/125 G.652.D	5	6.6	27	150	1000	600	1600	0.247
19008000FZ	FO Outdoor Micro 2 x 12	24	E9/125 G.652.D	5	6.6	27	150	1000	600	1600	0.247
19023000FZ	FO Outdoor Micro 4 x 12	48	E9/125 G.652.D	5	6.6	27	150	1000	600	1600	0.247
19023100FZ	FO Outdoor Micro 5 x 12	60	E9/125 G.652.D	5	6.6	27	150	1000	600	1600	0.247
19023200FZ	FO Outdoor Micro 6 x 12	72	E9/125 G.652.D	6	6.5	27	150	1000	600	1600	0.234
19181300FZ	FO Outdoor Micro 8 x 12	96	E9/125 G.652.D	8	6.6	30	250	2500	600	1400	0.303
19181400FZ	FO Outdoor Micro 6 x 24	144	E9/125 G.652.D	6	8.2	30	250	2500	600	1400	0.344

### FO Outdoor ZT S-Micro / A-D2Y, up to 24 fibres

Very thin, metal-free fibre optic outdoor cable with up to 24 fibres in one central loose tube.  
Easily cut back, installation friendly cable construction.  
Optimised for injection into microducts.  
Sheath colour: black.



Article No.	Product	Number of fibres	Fibre type	Loose tubes	Sheath Ø [mm]	Weight [kg/km]	Bending radius [mm]	Tensile load [N]	Crush resistance continuous [N]	short term [N]	Fire load [kWh/m]
19343400FZ	FO Outdoor S-Micro 1 x 4	4	E9/125 G.652.D BLO	1	2.4	5	40	100	400	1200	0.12
19604800FZ	FO Outdoor S-Micro 1 x 6	6	E9/125 G.652.D BLO	1	2.4	5	40	100	400	1200	0.12
19346000FZ	FO Outdoor S-Micro 1 x 12	12	E9/125 G.652.D BLO	1	2.4	5	40	100	400	1200	0.12
19343300FZ	FO Outdoor S-Micro 1 x 24	24	E9/125 G.652.D BLO	1	2.4	6	40	100	400	1200	0.12

### FO Outdoor wbKT S-Micro / A-DQ(ZN)2Y, up to 288 fibres

Highly compact, metal-free fibre optic outdoor cable with up to 288 fibres in stranded loose tubes and with dry interstices.  
Easily cut-back, installation-friendly cable construction.  
Optimised for injection into microducts.  
Sheath colour: black.



Article No.	Product	Number of fibres	Fibre type	Loose tubes	Sheath Ø [mm]	Weight [kg/km]	Bending radius [mm]	Tensile load [N]	Crush resistance continuous [N]	short term [N]	Fire load [kWh/m]
19269300FZ	FO Outdoor S-Micro 2 x 12	24	E9/125 G.652.D BLO	2	4.2	17	250	750	400	1200	0.09
19215000FZ	FO Outdoor S-Micro 4 x 12	48	E9/125 G.652.D BLO	4	4.2	17	250	750	400	1200	0.09
19215900FZ	FO Outdoor S-Micro 8 x 12	96	E9/125 G.652.D	8	6.6	42	250	1900	400	1200	0.18
19214900FZ	FO Outdoor S-Micro 8 x 12	96	E9/125 G.652.D BLO	8	6.6	42	250	1900	400	1200	0.18
19214900FZ	FO Outdoor S-Micro 12 x 12	144	E9/125 G.652.D BLO	12	8.2	58	300	1900	400	1200	0.345
19450000FZ	FO Outdoor S-Micro 6 x 24	144	E9/125 G.652.D	6	6.5	33	250	1300	400	1200	0.18
19705100FZ	FO Outdoor S-Micro 6 x 24	144	E9/125 G.652.D BLO	6	6.5	33	250	1300	400	1200	0.18
19339600FZ	FO Outdoor S-Micro 8 x 24	192	E9/125 G.652.D BLO	9	8.4	56	300	1900	400	1200	0.325
19262500FZ	FO Outdoor S-Micro 9 x 24	216	E9/125 G.652.D	9	8.4	58	300	1900	400	1200	0.325
19600000FZ	FO Outdoor S-Micro 12 x 24	288	E9/125 G.652.D	12	10.4	88	300	2900	400	1200	0.562

### FO Outdoor wbKT C-Micro / A-DQ(ZN)2Y, 72 Fasern

Highly compact, metal-free fibre optic outdoor cable with 72 fibres (200 µm).  
Dry interstices and stranded loose tubes.  
Easily cut-back, installation-friendly cable construction.  
Optimised for injection into microducts.  
Sheath colour: black.



Article No.	Product	Number of fibres	Fibre type	Loose tubes	Sheath Ø [mm]	Weight [kg/km]	Bending radius [mm]	Tensile load [N]	Crush resistance continuous [N]	short term [N]	Fire load [kWh/m]
19618000FZ	FO Outdoor C-Micro 3 x 24	72	E9/125 G.652.D BLO200	3	4.1	18	100	700	400	1200	0.09



You will find detailed information on the types of fibre here:







## FO cable - Micro duct dimensions

S-Micro

Cable family	Designation (VDE)	Article No.	Article	Number of fibres	Fibre type	Sheath Ø [mm]	Micro duct dimensions (inner diameter)									
							4	5	5.5	6	8	10	12	14	15	16
	<b>ZT S-Micro A-D2Y</b>	19343400FZ	FO Outdoor S-Micro 1 x 4	4	E9/125 G.652.D BLO	2.4	✓	✓	✓	✓	✓					
		19604800FZ	FO Outdoor S-Micro 1 x 6	6	E9/125 G.652.D BLO	2.4	✓	✓	✓	✓	✓					
		19346000FZ	FO Outdoor S-Micro 1 x 12	12	E9/125 G.652.D BLO	2.4	✓	✓	✓	✓	✓					
		19343300FZ	FO Outdoor S-Micro 1 x 24	24	E9/125 G.652.D BLO	2.4	✓	✓	✓	✓	✓					
	<b>wbKT S-Micro A-DQ(ZN)2Y</b>	19269300FZ	FO Outdoor S-Micro 2 x 12	24	E9/125 G.652.D BLO	4.2			✓	✓	✓					
		19215000FZ	FO Outdoor S-Micro 4 x 12	48	E9/125 G.652.D BLO	4.2			✓	✓	✓					
		19214900FZ	FO Outdoor S-Micro 8 x 12	96	E9/125 G.652.D BLO	6.6					✓	✓				
		19709000FZ	FO Outdoor S-Micro 12 x 12	144	E9/125 G.652.D OS2	8.2						✓	✓	✓	✓	
		19450000FZ	FO Outdoor S-Micro 6 x 24	144	E9/125 G.652.D OS2	6.5					✓	✓				
		19339600FZ	FO Outdoor S-Micro 8 x 24	192	E9/125 G.652.D BLO	8.4						✓	✓	✓	✓	
		19262500FZ	FO Outdoor S-Micro 9 x 24	216	E9/125 G.652.D OS2	8.4						✓	✓	✓	✓	
		19600000FZ	FO Outdoor S-Micro 12 x 24	288	E9/125 G.652.D OS2	10.4							✓	✓	✓	✓

C-Micro

	<b>ZKT Micro A-DQ(ZN)2Y</b>	19170200FZ	FO Outdoor Micro 1 x 2	2	E9/125 G.652.D OS2	4.0			✓	✓	✓	✓				
		19065800FZ	FO Outdoor Micro 1 x 4	4	E9/125 G.652.D OS2	4.0			✓	✓	✓	✓				
		19170300FZ	FO Outdoor Micro 1 x 6	6	E9/125 G.652.D OS2	4.0			✓	✓	✓	✓				
		19170400FZ	FO Outdoor Micro 1 x 8	8	E9/125 G.652.D OS2	4.0			✓	✓	✓	✓				
		19170500FZ	FO Outdoor Micro 1 x 10	10	E9/125 G.652.D OS2	4.0			✓	✓	✓	✓				
		19022700FZ	FO Outdoor Micro 1 x 12	12	E9/125 G.652.D OS2	4.0			✓	✓	✓	✓				
		19123500FZ	FO Outdoor Micro 1 x 24	24	E9/125 G.652.D OS2	4.0			✓	✓	✓	✓				
	<b>wbKT Micro A-DQ(ZN)2Y</b>	19170600FZ	FO Outdoor Micro 1 x 12	12	E9/125 G.652.D OS2	6.6					✓	✓	✓			
		19008000FZ	FO Outdoor Micro 2 x 12	24	E9/125 G.652.D OS2	6.6					✓	✓	✓			
		19022900FZ	FO Outdoor Micro 3 x 12	36	E9/125 G.652.D OS2	6.6					✓	✓	✓			
		19023000FZ	FO Outdoor Micro 4 x 12	48	E9/125 G.652.D OS2	6.6					✓	✓	✓			
		19023100FZ	FO Outdoor Micro 5 x 12	60	E9/125 G.652.D OS2	6.6					✓	✓	✓			
		19023200FZ	FO Outdoor Micro 6 x 12	72	E9/125 G.652.D OS2	6.5					✓	✓	✓			
		19181300FZ	FO Outdoor Micro 8 x 12	96	E9/125 G.652.D OS2	7.6						✓	✓	✓		
		19181400FZ	FO Outdoor Micro 6 x 24	144	E9/125 G.652.D OS2	8.2						✓	✓	✓	✓	

The particulars provided are non-binding recommendations without engagement. The blowing-in lengths achievable depend on installation, equipment and quality of the duct.

- ✓ Possible combinations with restricted installation lengths
- ✓ Recommended combinations





## Tube systems

### Micro ducts

The microducts serve as mechanical protection for fibre optic minicables. They are suitable for direct burial (DB) or for installation in duct systems (DI). Made from high density polyethylene (HDPE) or low smoke halogen free (LSHF) material.



Article No.*	Product	Installation type	Material	PU (drum and m)
3432xx	Micro duct DB 7/4 mm	direct burial	HDPE	6000 m
3433xx	Micro duct DB 8/5 mm	direct burial	HDPE	4800 m
3434xx	Micro duct DB 10/6 mm	direct burial	HDPE	3000 m
3436xx	Micro duct DB 12/8 mm	direct burial	HDPE	2000 m
3437xx	Micro duct DB 14/10 mm	direct burial	HDPE	1350 m
3438xx	Micro duct DB 16/12 mm	direct burial	HDPE	1000 m
3439xx	Micro duct DB 18/14 mm	direct burial	HDPE	2200 m
3435xx	Micro duct DI 5/3.5 mm	laying in pipes	HDPE	5000 m
3446xx	Micro duct DI 7/5.5 mm	laying in pipes	HDPE	6000 m
3440xx	Micro duct DI 8/6 mm	laying in pipes	HDPE	4800 m
3441xx	Micro duct DI 10/8 mm	laying in pipes	HDPE	3000 m
3442xx	Micro duct DI 12/10 mm	laying in pipes	HDPE	2000 m
3443xx	Micro duct DI 14/12 mm	laying in pipes	HDPE	1350 m
3444xx	Micro duct DI 16/14 mm	laying in pipes	HDPE	1000 m
3445xx	Micro duct DI 18/16 mm	laying in pipes	HDPE	1250 m
3447xx	Micro duct DI 5/3.5 mm	laying in pipes	LSHF	5000 m
3448xx	Micro duct DB 10/5.5 mm	direct burial	LSHF	3000 m
3449xx	Micro duct DB 14/10 mm	direct burial	LSHF	1350 m

Order quantity complies with drum capacity (no cuts!)

\* Please replace the "xx" by the two digits for the required colour (see below) when ordering

Micro ducts are available in different colours: full colour or with stripes

Colour	Addition to article no.	Colour	Addition to article no.	Colour	Addition to article no.
transparent	60	brown	67	yellow	74
red	61	purple	68	blue	75
dark green	62	light green	69	dark green	76
light blue	63	black	70	green	77
dark yellow	64	orange	71	dark brown	78
white	65	rose	72	light brown	79
grey	66	ivory	73		

### Micro duct bundles

Micro ducts are used for the mechanical protection of fibre optic micro cables. For direct burial (DB) or for the laying in pipe systems (DI). The micro ducts are made from high density polyethylene (HDPE) or low smoke halogen free (LSHF) material. Bundles are available in different variants. We'll be pleased to advise you.



Article No.	Product	Installation type	Material	PU (drum and m)
343208	Multi micro duct HPPE DB 12x7/4 mm, orange	direct burial	HDPE	3500 m
343209	Multi micro duct LSHF DI 12x5/3.5 mm, white	laying in pipes	LSHF	800 m

### Micro duct accessories

Straight connectors, reduction connectors, end caps, waterproof end caps, gas block connectors, divisible gas blocks, safety clips, rubber protection caps, plastic caps, cutting tools (duct shear, minicutter, stripper), deburring tools, etc. are available on request. We'll be pleased to advise you.

# Drop / Feeder Cabling



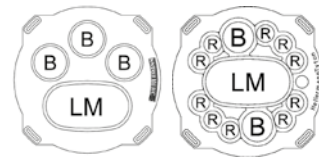
## Dome closures

Our five lines of dome closures are available with two different fibre management systems: Integrated Routing (IR) and Tubed (TB) for use in underground, direct burial and aerial application. SE trays come with optional GPON/splitter holder (70 x 20 x 6 mm).

### Type FST (TB)

Cover size	Width D1 x D2	Length L	Hellapon™ Small tray	
			single tray	splices (max.)
A	110 x 110 mm	310 mm	3(1)	72

Port	Number of ports	Cable diameter	
		Cablelok™	heat shrink
LM	1	2x 4.0 – 15.0 mm	2x 8.0 – 22.0 mm
B	2 or 3	4.8 – 16.5 mm	6.0 – 19.0 mm
R	10	1.7 – 9.5 mm	-



4 ports

13 ports



Article No.	Product	Dimensions	Base cable entries/seal	Number and type of tray	Splice type	Fibres (maximum)
345901	FSTTB-AXBTA15	110 x 110 x 310 mm	13 ports Cablelok	1 Hellapon Small	Crimp	24
345916	FSTTB-AXXTA35	110 x 110 x 310 mm	13 ports Cablelok	3 Hellapon Small	Crimp	72
345921	FSTTB-AXBFA15	110 x 110 x 310 mm	4 ports Cablelok	1 Hellapon Small	Crimp	24
345916	FSTTB-AXXFA35	110 x 110 x 310 mm	4 ports Cablelok	3 Hellapon Small	Crimp	72

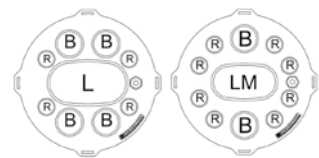
Please visit our website for other variants and accessories

Part number identification:		Enclosure type	Size	Basket	Tray type	Base	Number of trays	Splice type
		F	S	T	T	B	A	X
Step 1: size		Step 2: base		Step 3: number of trays		Step 4: splice type		
X – no trays		T – 13 ports		1 – 1 VE		1 – heat shrink		
B – Loop tray, with 1 Hellapon Small tray		F – 4 ports, with max. 1 Hellapon Small tray		2 – 2 VE		5 – ANT crimp		
				3 – 3 VE		7 – X no insert		

### Type FRBU (TB)

Cover size	Width D1 x D2	Length L	Hellapon™ Medium tray	
			single tray	splices (max.)
A	110 x 110 mm	435 mm	6(6)	144
B	110 x 110 mm	505 mm	6(6)	144

Port	Number of ports	Kabeldurchmesser	
		Cablelok™	heat shrink
L	1	2x 5.5 – 20.0 mm	2x 10.0 – 24.0 mm
LM	1	2x 4.0 – 15.0 mm	2x 8.0 – 22.0 mm
B	2 or 3	4.8 – 16.5 mm	6.0 – 19.0 mm
R	10	1.7 – 9.5 mm	-



9 ports

11 ports



Article No.	Product	Dimensions	Base cable entries/seal	Number and type of tray	Splice type	Fibres (maximum)
346041	FRBTD-BXBEC35	130 x 130 x 505 mm	11 ports Cablelok	3 Hellapon Medium, pivoting	Crimp	72
346056	FRBTD-BXXEC65	130 x 130 x 505 mm	11 ports Cablelok	6 Hellapon Medium, pivoting	Crimp	144
346076	FRBTD-BXBNC35	130 x 130 x 505 mm	9 ports Cablelok	3 Hellapon Medium, pivoting	Crimp	72
346091	FRBTD-BXBNC35	130 x 130 x 505 mm	9 ports Cablelok	6 Hellapon Medium, pivoting	Crimp	144

Please visit our website for other variants and accessories.

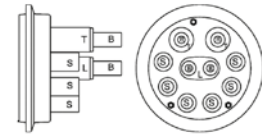
Cablelok™ and Hellapon™ are registered trademarks of HellermannTyton.

Part number identification:		Enclosure type	Size	Basket	Base	Tray type	Number of trays	Splice type
		F	R	B	T	B		
Step 1: size		Step 2: basket		Step 3: base		Step 4: tray type		Step 5: number of trays
AX – A length		X – no basket		N – 9 ports		A – Hellapon Small, stacked*		1 – 1 pack
BX – B length		B – Loop basket, only with 3 side hinged Hellapon Medium splice trays		E – 11 ports		B – Hellapon Medium stacked*		2 – 2 packs
						C – Hellapon Medium pivoting*		3 – 3 packs
								4 – 4 packs
								5 – 5 packs
								6 – 6 packs



## Type FML-IR

Port	Number of ports	Cable diameter	
		Cablelok™	heat shrink
L	1	2x 5.5 – 20.0 mm	2x 10.0 – 24.0 mm
T	2	5.5 – 29.0 mm	8.0 – 35.0 mm
S	6	5.0 – 20.0 mm	12.0 – 26.0 mm
B	4	4.8 – 16.5 mm	6.0 – 19.0 mm



10 ports



Article No.	Product	Dimensions	Base cable entries/seal	Number and type of tray	Splice type	Fibres (maximum)
345781	FMLIR-CXXCSX	C: 220 x 275 x 748 mm	Cablelok, heat shrink	30 IR Single Element (SE)	Crimp	720
345801	FMLIR-BCXCSX	BC: 220 x 275 x 668 mm	Cablelok, heat shrink	24 IR Single Element (SE)	Crimp	576
345821	FMLIR-BXXCSX	B: 220 x 275 x 598 mm	Cablelok, heat shrink	18 IR Single Element (SE)	Crimp	432

Please visit our website for other variants and accessories.

Part number identification

Enclosure type

Length

Basket

Tray type

F

M

L

I

R

C

Step 1: length

Step 2: basket or double stack

Step 3: base

Step 4: tray type (splice type)

BX – B length

BC – BC length

CX – C length

B – Loop storage basket

X – no loop storage basket

C – Standard

WX – SE splice trays (heat shrink splice protection)

SX – SE splice trays (crimp splice protection)

XW – SC splice trays (crimp splice protection)

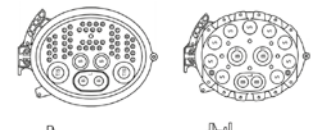
XN – SC-B splice trays (heat shrink splice protection)

XS – SC-B splice trays (crimp splice protection)

XX – no splice trays, order separately

## Type FDN-IR

Port	Number of ports	Cable diameter	
		Cablelok™	heatshrink
L	1	2x 5.5 – 20.0 mm	2x 10.0 – 24.0 mm
T	2	5.5 – 29.0 mm	8.0 – 35.0 mm
S	4	5.0 – 20.0 mm	12.0 – 26.0 mm
B	2	4.8 – 16.5 mm	6.0 – 19.0 mm
R	52	1.7 – 9.5 mm	-



59 ports

16 ports



Article No.	Product	Dimensions	Base cable entries/seal	Number and type of tray	Splice type	Fibres (maximum)
346158	FDNIR-CXXASX	C: 312 x 222 x 789 mm	Cablelok, heat shrink	36 IR Single Element (SE)	Crimp	864
346172	FDNIR-BXXASX	B: 312 x 222 x 663 mm	Cablelok, heat shrink	24 IR Single Element (SE)	Crimp	576
345651	FDNIR-ABXCSX	AB: 312 x 222 x 561 mm	Cablelok, heat shrink	12 IR Single Element (SE)	Crimp	288
345681	FDNIR-AXXCSX	B: 312 x 222 x 455 mm	Cablelok, heat shrink	6 IR Single Element (SE)	Crimp	144

Please visit our website for other variants and accessories.

Cablelok™ is a registered trademark of HellermannTyton.

Part number identification

Enclosure type

Length

Basket

Tray type

F

D

N

I

R

Step 1: length

Step 2: basket or double stack

Step 3: base

Step 4: tray type (splice type)

AX – A length

AB – AB length

BX – B length

CX – C length

B – Loop storage basket

X – no loop storage basket

C – 59 ports

A – 16 ports

WX – SE splice trays (heat shrink splice protection)

SX – SE splice trays (crimp splice protection)

XW – SC splice trays (crimp splice protection)

XN – SC-B splice trays (heat shrink splice protection)

XS – SC-B splice trays (splice protection)

XX – no splice trays, order separately



## Type UFC-IR

Port	Number of ports	Cable diameter	
		Cablelok™	heat shrink
L	1	2x 5.5 – 20.0 mm	2x 10.0 – 24.0 mm
LM	1	2x 4.0 – 15.0 mm	2x 8.0 – 22.0 mm
T	2	5.5 – 29.0 mm	8.0 – 35.0 mm
S	10	5.0 – 20.0 mm	12.0 – 26.0 mm
B	16	4.8 – 16.5 mm	6.0 – 19.0 mm



27 Ports

Article No.	Product	Dimensions	Base cable entries/seal	Number and type of tray	Splice type	Fibres (maximum)
345201	UFCIR-CXDCSX	C: 312 x 222 x 789 mm	Cablelok, heat shrink	60 IR Single Element (SE)	Crimp	1440
345261	UFCIR-BCDCSX	BC: 312 x 222 x 598 mm	Cablelok, heat shrink	36 IR Single Element (SE)	Crimp	864
345321	UFCIR-BXDCSX	C: 312 x 222 x 549 mm	Cablelok, heat shrink	24 IR Single Element (SE)	Crimp	576
345241	UFCIR-CXXCSX	C: 312 x 222 x 789 mm	Cablelok, heat shrink	30 IR Single Element (SE)	Crimp	720
345301	UFCIR-BCXCSX	BC: 312 x 222 x 598 mm	Cablelok, heat shrink	18 IR Single Element (SE)	Crimp	432
345361	UFCIR-BXXCSX	C: 312 x 222 x 549 mm	Cablelok, heat shrink	12 IR Single Element (SE)	Crimp	288

Please visit our website for other variants and accessories.

Cablelok™ is a registered trademark of HellermannTyton.

Part number identification:		Enclosure type	Length	Basket	Tray type
		U F C I R			
<b>Step 1: length</b>	<b>Step 2: basket or double stack</b>	<b>Step 3: base</b>	<b>Step 4: tray type (splice type)</b>		
BX – B length	B – Loop storage basket	C – Standard	WX – SE trays (heat shrink)		
BC – BC length	X – no loop storage basket	H – Heat shrink	SX – SE trays (crimp)		
CX – C length	D – Double tray stack		XW – SC trays (crimp)		
			XN – SC-B trays (heat shrink)		
			XS – SC-B trays (crimp)		
			XX – no trays, order separately		

## Cablelok™

Mechanical seal Cablelok for cables of different diameters.  
Tool-less installation within 2 minutes (heat shrink: 20 minutes).  
Can be used repeatedly.



Article No.	Product	Entry type	PU
345xxx	Cablelok seal for type R entry / xxx165 Ø 1.7 - 2.0 mm / xxx166 Ø 2x1.7 - 2.0 mm / xxx849 Ø 2.0 - 3.0 mm / xxx937 Ø 2x 2.0 - 3.0 mm / xxx167 Ø 3.0 - 3.8 mm / xxx168 Ø 2x3.8 - 4.8 mm / xxx169 Ø 3.8 - 5.2 mm / xxx170 Ø 5.2 - 8.0 mm / xxx171 Ø 6.0 - 8.5 mm / xxx172 Ø 8.0 - 9.5 mm / xxx173 cap	R	1 pc.
345xxx	Cablelok seal for type B entry / xxx160 Ø 4.8 - 9.0 mm / xxx161 Ø 8.0 - 14.0 mm / xxx162 Ø 13.0 - 16.5 mm / xxx163 cap	B	1 pc.
345xxx	Cablelok seal for type S entry / xxx174 Ø 5.0 - 8.5 mm / xxx175 Ø 8.0 - 12.0 mm / xxx176 Ø 2x 10.0 - 11.5 mm / xxx177 Ø 12.0 - 16.0 mm / xxx178 Ø 16.0 - 20.0 mm / xxx947 Ø 5x6.8 - 7.2 mm / xxx179 cap	S	1 pc.
345xxx	Cablelok seal for type T entry / xxx180 Ø 15.5 - 20.0 mm / xxx181 Ø 20.5 - 23.5 mm / xxx182 Ø 23.5 - 25.5 mm / xxx183 Ø 24.5 - 29.0 mm / xxx184 cap	T	1 pc.
345xxx	Cablelok seal for type L loop entry / xxx081 Ø 2x 5.5 - 9.5 mm / xxx082 Ø 2x 9.0 - 12.5 mm / xxx083 Ø 2x 12.0 - 15.0 mm / xxx084 Ø 2x 15.0 - 18.5 mm / xxx085 Ø 2x 18.3 - 20.0 mm / xxx086 cap	L	1 pc
45xxx	Cablelok seal for type LM loop entry / xxx087 Ø 2x 4.0 - 6.5 mm / xxx088 Ø 2x 6.0 - 9.5 mm / xxx089 Ø 2x 9.0 - 12.5 mm / xxx090 Ø 2x 12.5 - 15.0 mm / xxx091 cap	LM	1 pc

Cablelok™ is a registered trademark of HellermannTyton.



## Building Entry Point terminal

### IP54

Building Entry Point box for access, in-house and floor distribution.  
Ideal as Building Entry Point (BEP) for transmission system operators (TSO).



Article No.	Product	Number of adapters	Adapters	Colour (adapter)	Pigtails
41866300ZY	FO Building Entry Point terminal	6	LSH/APC	green	6 x LSH/APC
41865700ZY	FO Building Entry Point terminal	3	LCD/APC	green	6 x LC/APC
41865800ZY	FO Building Entry Point terminal	5	LCD/APC	green	10 x LC/APC
41866200ZY	FO Building Entry Point terminal	6	LCD/APC	green	12 x LC/APC
41866100ZY	FO Building Entry Point terminal	6	SC/APC	green	6 x SC/APC

Article No.	Product	Number of adapters	Adapters	Colour (adapter)	Pigtails
41866400ZY	FO Building Entry Point terminal	6	SCD/APC	green	12 x SC/APC
41866500ZY	FO Building Entry Point terminal	3	LCQ/APC	green	12 x LC/APC
41866600ZY	FO Building Entry Point terminal	12	LSH/APC	green	12 x LSH/APC

Article No.	Product	Number of adapters	Adapters	Colour (adapter)	Pigtails
41865900ZY	FO Building Entry Point terminal	6	LCQ/APC	green	22 x LC/APC
41866700ZY	FO Building Entry Point terminal	12	SCD/APC	green	24 x SC/APC
41866800ZY	FO Building Entry Point terminal	6	LCQ/APC	green	24 x LC/APC
41866900ZY	FO Building Entry Point terminal	24	LSH/APC	green	24 x LSH/APC

## Data outlets, surface mounted

### AP 80 x 80, SC/APC or LCD/APC design

surface mounted, also on top of installation cups



Article No.	Product	Adapters	Pigtails	Colour	PU
41860500ZY	FTTH data outlet AP	1x SC	1x SC	pure white (RAL 9010)	1 pc.
41860600ZY	FTTH data outlet AP	1x LCD/APC		pure white (RAL 9010)	1 pc.
41860700ZY	FTTH data outlet AP	2x LCD/APC		pure white (RAL 9010)	1 pc.
41860800ZY	FTTH data outlet AP	1x LCD/APC	2x LC/APC	pure white (RAL 9010)	1 pc.
41860900ZY	FTTH data outlet AP	2x LCD/APC	4x LC/APC	pure white (RAL 9010)	1 pc.
41861000ZY	FTTH data outlet AP	1x SC/APC		pure white (RAL 9010)	1 pc.
41861100ZY	FTTH data outlet AP	2x SC/APC		pure white (RAL 9010)	1 pc.
41861200ZY	FTTH data outlet AP	1x SC/APC	1x SC/APC	pure white (RAL 9010)	1 pc.
41861300ZY	FTTH data outlet AP	2x SC/APC	2x SC/APC	pure white (RAL 9010)	1 pc.

Other versions on request.

Pre-assembled FTTH data outlet also available with fiber optic indoor cable.

All APC adapters with integrated laser protection.

### AP 88 x 88, SC/APC or LCD/APC design

surface mounted



Article No.	Product	Description	Colour	PU
309278	FTTH data outlet AP 88 x 88, 1x LCD coupler, 2x LC/APC pigtail G.657.A	incl. cover frame	pure white (RAL 9010)	1 pc.
309317	FTTH data outlet AP 88 x 88, 2x LCD coupler, 4x LC/APC pigtail G.657.A	incl. cover frame	pure white (RAL 9010)	1 pc.
309351	FTTH data outlet AP 88 x 88, 1x LCD coupler, without pigtails	incl. cover frame	pure white (RAL 9010)	1 pc.
309369	FTTH data outlet AP 88 x 88, 2x LCD coupler, without pigtails	incl. cover frame	pure white (RAL 9010)	1 pc.

### OTO Cover AP data outlet / retrofitting kit



The OTO Cover AP data outlet is available as a complete outlet with one or two couplings or as a Cover kit for retrofitting existing outlets.

FTTH inhouse data outlet with inner cover and protective outer cover for 2 or 4 fibres.

Both covers with labeling window, outer cover with imprint "Optical Fibre" and port numbering.

Integrated fibre access tray for cable and pigtails.

Splice protection support for heat and shrink splices.

Available with one or two LC/APC couplings or with LC/APC pigtails.

Couplers with integrated laser protection and captive dust protection caps.



Article No.	Product	Description	Adapters	Pigtails	PU
309697	OTO Cover AP retrofitting kit	for existing OTO data outlets			1 pc.
309676	OTO Cover AP data outlet	with mounting plate	1x LC/APC duplex	2x LC/APC	1 pc.
309677	OTO Cover AP data outlet	with mounting plate	2x LC/APC duplex	4x LC/APC	1 pc.
30962700ZY	OTO Cover AP data outlet	with mounting plate	1x LC/APC duplex		1 pc.
30962800ZY	OTO Cover AP data outlet	with mounting plate	2x LC/APC duplex		1 pc.



## FTTH data outlet Squeeze AP surface mounted

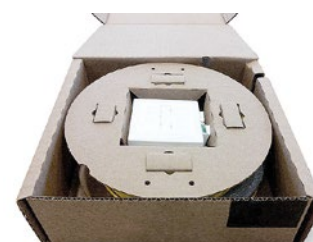


Article No.	Product	Description	Colour	PU
3800476	FTTH data outlet Squeeze AP	with 1 LC/APC duplex coupling, without cover	white	1 pc.
3800473	FTTH data outlet Squeeze AP	with 2 LC/APC duplex couplings, without cover	white	1 pc.
3800474	Squeeze mounting bracket for OTO	for installation in distribution box / perforated plate	white	1 pc.
3800484	Squeeze retrofitting kit for 4 fibres	1 LC/APC coupling with dust protection covers	white	1 pc.
3800480	TV/FM MAS60 cover set	2x IEC, Feller standard compatible	white	1 pc.
3800482	TV/FM MAS60 cover set	2x IEC/MD, Feller standard compatible	white	1 pc.
3800483	TV/FM MAS60 cover set	1x F + 2x IEC, Feller standard compatible	white	1 pc.
3800475	Squeeze blind cover		white	1 pc.
3800477	Squeeze cover	for Feller standard, D = 43 mm	white	1 pc.
3800478	Squeeze cover	for Feller standard due, D = 50 mm	white	1 pc.
3800479	Squeeze cover	for Feller standard due, D = 58 mm	white	1 pc.

## Preassembled inhouse installation kits

### FTTH inhouse installation kit

with cable I-V(ZN)H + data outlet 80 x 80 mm AP (surface mounted), preassembled



Article No.	Product	Number of adapters	Adapters	Pigtails	Length (cable)
41861500ZY	FTTH inhouse installation kit, 1x LCD/APC	1	LCD/APC	2x LC/APC	10 m
41863400ZY	FTTH inhouse installation kit, 2x LCD/APC	2	LCD/APC	4x LC/APC	10 m

Other configurations and lengths on request.

Other lengths  
can be found at:



### FTTH inhouse cabling solution with data outlet 88 x 88 mm AP (surface mounted) preassembled



Article No.	Product	Connectors	Adapters	Length (cable)	PU
309616	FO Indoor FTTH cable, 2.2 mm, with 88 x 88 mm AP	2x LC/APC	1x LC/APC duplex	20 m	1 set in box
309616	FO Indoor FTTH cable, 2.2 mm, with 88 x 88 mm AP	4x LC/APC	2x LC/APC duplex	20 m	1 set in box

Other configurations and lengths on request.



### FTTH inhouse cabling solution with data outlet OTO Cover AP (surface mounted) preassembled



Article No.	Product	Connectors	Adapters	Length (cable)	PU
30963300ZY	FO Indoor cable with OTO Cover AP	2x LC/APC	1x LC/APC duplex	30 m	1 set in box
30963400ZY	FO Indoor cable with OTO Cover AP	2x LC/APC	1x LC/APC duplex	40 m	1 set in box
30963500ZY	FO Indoor cable with OTO Cover AP	2x LC/APC	1x LC/APC duplex	60 m	1 set in box
30963600ZY	FO Indoor cable with OTO Cover AP	4x LC/APC	2x LC/APC duplex	30 m	1 set in box
30963700ZY	FO Indoor cable with OTO Cover AP	4x LC/APC	2x LC/APC duplex	40 m	1 set in box
30963800ZY	FO Indoor cable with OTO Cover AP	4x LC/APC	2x LC/APC duplex	60 m	1 set in box

## FTTH inhouse cabling solution with data outlet Squeeze AP (or without) preassembled



### Cable with 2x LC/APC connector, Squeeze with 1x LC/APC duplex

Article No.	Length (cable)
3800485	5 m
3800486	10 m
3800487	15 m
3800488	20 m
3800489	25 m
3800490	30 m
3800491	40 m
3800492	50 m
3800493	60 m
3800494	70 m
3800495	80 m
3800496	90 m

### Cable with 4x LC/APC connector, Squeeze with 2x LC/APC duplex

Article No.	Length (cable)
3800497	5 m
3800498	10 m
3800499	15 m
3800472	20 m
3800471	25 m
3800470	30 m
3800469	40 m
3800468	50 m
3800467	60 m
3800466	70 m
3800465	80 m
3800464	90 m

### Cable with 2x LC/APC connector (without data outlet Squeeze)

Article No.	Length (cable)
3800463	5 m
3800409	10 m
3800410	15 m
3800411	20 m
3800412	25 m
3800413	30 m
3800414	40 m
3800415	50 m
3800416	60 m
3800417	70 m
3800419	80 m
3800420	90 m

### Cable with 4x LC/APC connector (without data outlet Squeeze)

Article No.	Length (cable)
3800421	5 m
3800260	10 m
3855454	15 m
3855455	20 m
3855456	25 m
3855457	30 m
3855458	40 m
3855459	50 m
3855460	60 m
3855461	70 m
3855462	80 m
3855463	90 m

## Indoor cables

### FO Indoor FTTH / I-M(ZN)H, 2.2 mm, LS0H

Easy to handle fibre optic cable with 4 optical fibres.  
Very small outer diameter (2.2 mm) due to innovative coating buffer.  
Flame retardant halogen-free FR/LS0H sheath. Very low fire load.  
Robust sheath for easy installation into tube systems occupied by other cables.



Article No.	Product	Number of fibres	Sheath colour	Fibre type	Sheath Ø [mm]	Weight [kg/km]	Bending radius [mm]	Tensile load [N]	Crush resistance continuous [N]	Fire load [kWh/m]
19455000DZ	FO Indoor FTTH 2.2, LS0H 1 x 4	4	yellow	E9/125 G.652.D BLO	2.2	4.0	25	400	500	0.023

Variants also in the Euroclass C<sub>ca</sub> and B2<sub>ca</sub>, further information can be found at [www.ITinfra.datwyler.com](http://www.ITinfra.datwyler.com)

### FO Indoor FTTH STB / I-V(ZN)H, 2.8 mm, LS0H

Easy to handle fibre optic cable with 4 optical fibres.  
Very small outer diameter (2.8 mm) due to innovative construction with 0.6 mm semi-tight buffers.  
Flame retardant halogen-free LS0H sheath. Very low fire load.  
Robust sheath for easy installation into tube systems occupied by other cables.



Article No.	Product	Number of fibres	Sheath colour	Fibre type	Sheath Ø [mm]	Weight [kg/km]	Bending radius [mm]	Tensile load [N]	Crush resistance continuous [N]	Fire load [kWh/m]
19341000DZ	FO Indoor FTTH 2.8, LS0H 4 x 1	4	yellow	E9/125 G.652.D BLO	2.8	8.0	25	400	500	0.043

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