FIBRE OPTIC SOLUTIONS

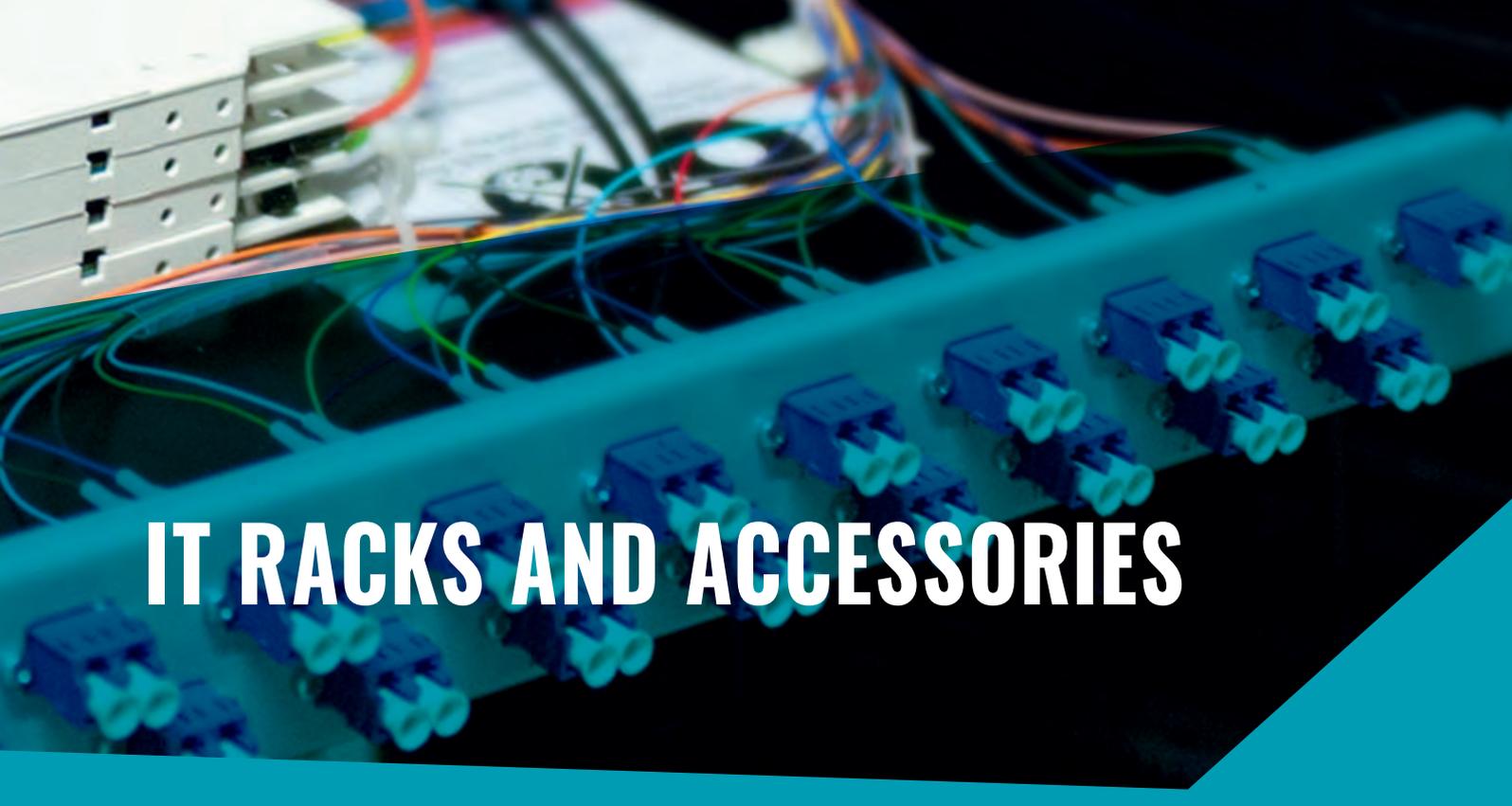2023

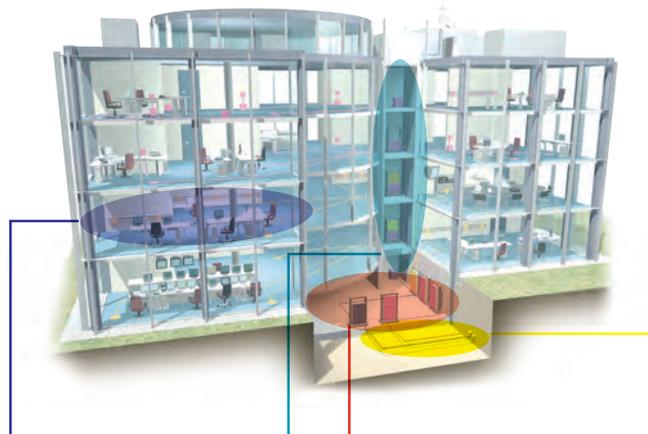**DÄTWYLER**

CONTENTS

IT RACKS AND ACCESSORIES

Conclusive fibre optic systems

Datwyler, as an experienced and innovative cable manufacturer, supplies complete fibre optic cabling solutions - including services and support in the areas of consultation, planning, engineering, design, development, training, installation and documentation, if requested.

Datwyler has a comprehensive offering of fibre optic cables and components for high-density, high-speed data network solutions.

Our solutions are designed, overall and in detail, to fully meet the demands of the future. They are adapted to meet customer's needs and ensure a network infrastructure that will support future applications for a long time to come.

PREMISES NETWORKS

Application spaces

From a communications pathway perspective, premises networks consist of four primary sections:

Backbone (Campus)	OS2
Data Centre	OS2, OM4, OM5
Riser	OS2, OM3, OM4
Horizontal (Desk)	OM3, OM4

The premises network outlined on the right side, or portions thereof, may also be called a local area network (LAN) or enterprise network.

Top 5 design considerations
- Link length
- Application
- Future performance
- Power budget
- Environmental requirements

Two major fibre classifications
The two major classifications of optical fibre are single-mode and multimode.

Horizontal (Desk)
The horizontal serves the desk or application workspace

Riser
The riser joins together equipment in a floor-level telecommunications closet and upper floor closets or zones.

Data Centre
The data centre is a facility dedicated to data-intensive applications, where racks of interconnected equipment manage large amounts of information.

Backbone (Campus)
The backbone is typically the longest run in a premises network, often interbuilding.

SINGLE-MODE FIBRE

Single-mode fibres are best suited for longer distance applications (>1 km). Single-mode fibre is designed to carry only one mode of light, and thus does not experience modal dispersion like multimode fibre.
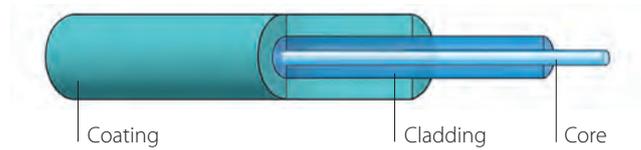
Coating   Cladding   Core
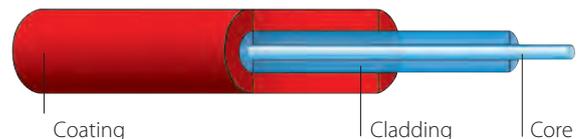
Single-mode E9/125

Optical single-mode fibre cable transmission performance parameters

Classification	Optical fibre type and cable type	Wavelenght [nm]	Modenfeld-Durchmesser [nm]	Cladding diameter [nm]	Coating diameter [nm]	Typical attenuation wired [db/km]	Maximum attenuation wired [db/km]
ITU-T G.652.D BLO	Singlemode E9/125 OS2	1310 1550 1625	9.2 +/- 0.4 10.4 +/- 0.5	125 +/- 0.7	242 +/- 5	0.34 0.21 0.23	0.4 0.3 0.3
ITU-T G.652.D / ITU-T G.657.A1	Singlemode E9/125 OS2	1310 1550 1625	9.2 +/- 0.4 10.4 +/- 0.5	125 +/- 0.7	242 +/- 5	0.34 0.21 0.23	0.4 0.3 0.3
ITU-T G.657.A2	Singlemode E9/125 OS2	1310 1550 1625	8.6 +/- 0.4 9.6 +/- 0.5	125 +/- 0.7	242 +/- 5	0.36 0.22 0.25	0.4 0.3 0.32

The fibre designation (OS2) corresponds to the designation of ISO/IEC 11801 or EN 50173. OS2 is commonly referred to as "low water peak" single-mode fibre and is characterized by having a low attenuation coefficient in the vicinity of 1383 nm.

MULTIMODE FIBRE

Multimode fibres are suitable for premises applications where the links are a few hundred meters long and there are many connectors. The larger core diameter of multimode fibre allows the use of affordable 850 nm transmittor diodes as well as low-cost connectors. Multimode fibre uses a graded index profile to minimize modal dispersion. This design maximizes bandwidth while maintaining large cores for simplified system assembly and lower network costs. For multimode fibres, bandwidth is the major limiting factor in network design.

Multimode G50/125

Optical multimode fibre cable transmission performance parameters

Classification	Optical fibre type and cable type	Speed	Wavelenght [nm]	Attenuation typical (cabled) [db/km]	Attenuation maximum (cabled) [db/km]	OFL bandwidth as per TIA/EIA 455-204 and IEC 60793-1-41 [MHz x km]	High-Performance EMB bandwidth as per TIA/EIA 455-220A and IEC 60793-1-49 [MHz x km]
ISO/IEC 11801/EN 50173 TIA 492AAAC OM3 bend optimized 850 nm laser-optimised	Multimode 50/125 µm	≥ 10 Gb/s	850 1300	2.5 0.5	2.7 0.7	1500 500	≥ 2000 n/a
ISO/IEC 11801/EN 50173 TIA 492AAAD OM4 bend optimized 850 nm laser-optimised	Multimode 50/125 µm	≥ 10 Gb/s	850 1300	2.5 0.5	2.7 0.7	3500 500	≥ 4700 n/a
ISO/IEC 11801/EN 50173 TIA 492AAAE OM5 bend optimized 850 nm laser-optimised	Multimode 50/125 µm	≥ 10 Gb/s	850 953 1300	2.5 1.8 0.6	2.7 1.8 1.0	3500 1850 500	≥ 4700 ≥ 2470 n/a

The fibre designation (OM3 up to OM5) corresponds to the designation of ISO/IEC 11801 or EN 50173.
Laser-optimised fibres are defined by their Effective Modal Bandwidth (minEMB, 850 nm VCSEL laser).

Multimode fibre link lenghts and data rates
Although fibre bandwidth is a critical factor in determining link length and data rate, it is not the only one. Transmitter and receiver characteristics are as important as fibre bandwidth in determining supportable link lengths at specified data rates.
At high data rates (40/100 Gbit/s) also the attenuation of the connectors limit the link length.

Bend optimized multimode fibres (G50/125)
With higher bit-rate transmissions (≥ 10 Gbit/s) the attenuation budgets are constantly decreasing.
Thus, one has to focus on high-grade products when selecting the fibre optic components.
The optical fibres should provide an enhanced transmission reliability and reduce the risks of additional losses
that may arise as a result of typical faulty use and of mechanical stress.
This is the reason why Datwyler use the bend optimized G50/125 fibre for OM3 up to OM5 fibre categories:
In case that the minimum bending radius is undercut, this leads not necessarily to failure of a connection.
However, too small bending radii should be avoided to extend the lifetime of fibre optic cables (and optical fibres).
The bend optimized G50/125 fibres are fully compatible with "traditional" G50/125 fibres as described in the standard.

FIBRE OPTIC SOLUTIONS
Cables

With selected items from our wide range of fibre optic products.
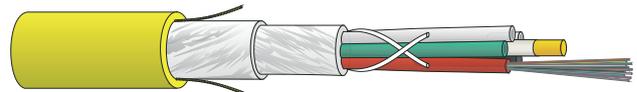For more information and products please visit ITinfra.datwyler.com

FIBRE OPTIC CABLES

FO Indoor J-B(ZN)BH
for indoor use

metal-free, dry interstices,
gel-free loose tube, rodent protection,
flame retardant

FO Indoor ZGGFR / J-B(ZN)BH

FO Indoor szGGFR / J-B(ZN)BH

FO Indoor ZGGFR, up to 12 fibres

J-B(ZN)BH Description	n x m	Fibres number	Article No. E9/125 G.652.D BLO sheath colour: yellow	Article No. G50/125 OM3 sheath colour: turquoise	Article No. G50/125 OM4 sheath colour: heather violet
FO Indoor ZGGFR	1 x 4	4	19603100DZ	19603300DZ	19603600DZ
FO Indoor ZGGFR	1 x 6	6	19605700DZ	19605800DZ	19605900DZ
FO Indoor ZGGFR	1 x 8	8	19603200DZ	19603400DZ	19603700DZ
FO Indoor ZGGFR	1 x 12	12	19456300DZ	19603500DZ	19597400DZ

The "D" in these article numbers stands for Euroclass D_{ca}. For higher fire performance requirements, Datwyler offers these cables also with Class C_{ca} or even $B2_{ca}$ performance.
For the available Euroclasses please refer to the online data sheets on ITinfra.datwyler.com.

FO Indoor szGGFR, 24-144 fibres

	n x m	Fibres	Article No.	Article No.	Article No.
FO Indoor szGGFR	2 x 12	24	19456400DZ	19605300DZ	19602500DZ
FO Indoor szGGFR	4 x 12	48	19456600DZ	19605400DZ	19602600DZ
FO Indoor szGGFR	8 x 12	96	19602900DZ	19605500DZ	19602700DZ
FO Indoor szGGFR	12 x 12	144	19596800DZ	19605600DZ	19602800DZ

The "D" in these article numbers stands for Euroclass D_{ca}. For higher fire performance requirements, Datwyler offers these cables also with Class C_{ca} or even $B2_{ca}$ performance.

FO Indoor FTTH
2.2 mm, 2.8 mm LS0H, for indoor use

flame retardant
in accordance with IEC 60794-2-20

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

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

FO Indoor FTTH / I-M(ZN)H, up to 4 fibres, coating buffer, 2.2 mm

I-M(ZN)H Description	Fibres number	Article No. E9/125 G.652.D BLO sheath colour: yellow
FO Indoor FTTH	4	19455000DZ

FO Indoor FTTH STB / I-V(ZN)H, up to 4 fibres, semi tight buffer, 2.8 mm

FO Indoor FTTH 2.8, 4x1	4	19341000DZ

The "D" in these article numbers stands for Euroclass D_{ca}. For higher fire performance requirements, Datwyler offers these cables also with Class C_{ca} or even $B2_{ca}$ performance.
For the available Euroclasses please refer to the online data sheets on ITinfra.datwyler.com.

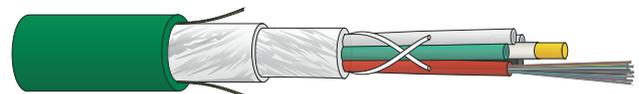## FO Universal U-DQ(ZN)BH
For indoor and outdoor use

metal-free, dry interstices,
rodent protection, flame retardant, longitudinally watertight,
in accordance with IEC 60332.1and IEC 60332.3 C

FO Universal U-DQ(ZN)BH 1 x m, ≤ 24 fibres

FO Universal U-DQ(ZN)BH 2 x 12, 24 fibres

FO Universal U-DQ(ZN)BH n x m, 36-144 fibres

FO Universal ZGGFR, ≤ 24 fibres

U-DQ(ZN)BH Description	n x m	Fibres Anzahl	Article No. E9/125 G.652.D green	Article No. yellow	Article No. G50/125 OM3 green	Article No. turquoise	Article No. G50/125 OM4 green	Article No. heather violet
FO Universal ZGGFR	1 x 4	4	19020300DZ		18598900DZ		19271200DZ	
FO Universal ZGGFR	1 x 6	6	19020400DZ	19342100DZ	19011200DZ	19342500DZ	19336000DZ	19342900DZ
FO Universal ZGGFR	1 x 8	8	19020500DZ		18595900DZ		18736300DZ	19442200DZ
FO Universal ZGGFR	1 x 12	12	19007700DZ	19342200DZ	18635000DZ	19342600DZ	19125100DZ	19343000DZ
FO Universal ZGGFR	2 x 12	24	19007100DZ	19342300DZ	18643200DZ	19342700DZ	19125200DZ	19343100DZ
FO Universal ZGGFR	1 x 24	24	18735400DZ		19175500DZ		19271300DZ	
FO Universal-Hybrid ZGGFR	1x 12 E9 + 1x 12 G50*	24			19013700DZ		19012400DZ	

* 12 fibres E9 in the red tube, 12 fibres G50 in the green tube

The "D" in these article numbers stands for Euroclass D_{ca}.

FO Universal wbGGFR, 36-144 fibres

U-DQ(ZN)BH Description	n x m	Fibres Anzahl	Article No. E9/125 G.652.D green	Article No. yellow	Article No. G50/125 OM3 green	Article No. turquoise	Article No. G50/125 OM4 green	Article No. heather violet
FO Universal wbGGFR	2x12	24	19261300EZ		on request		on request	
FO Universal wbGGFR	3x12	36	19020700EZ		on request		19267800EZ	
FO Universal wbGGFR	4x12	48	19020800EZ	19342400EZ	18648600EZ	19342800EZ	19127800EZ	19343200EZ
FO Universal wbGGFR	5x12	60	19020900EZ		18664200EZ		on request	
FO Universal wbGGFR	6x12	72	19021000EZ		18653900EZ		on request	
FO Universal wbGGFR	8x12	96	18674700EZ		18654000EZ		19271400EZ	19449900EZ
FO Universal wbGGFR	10x12	120	19021100EZ		18653600EZ		auf Anfrage	
FO Universal wbGGFR	12x12	144	19021200EZ		19171000EZ		19271500EZ	

The "E" in these article numbers stands for Euroclass E_{ca}.
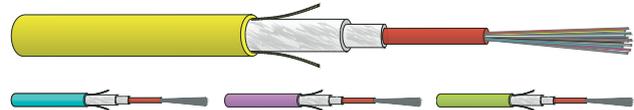
Also available with **sheath colour according to fibre type** (OS2 = yellow, OM3 = turquoise, OM4 = violet, OM5 = lime) on request.
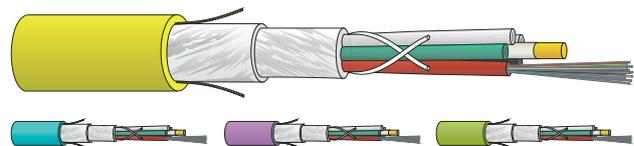
FO Universal DLTS U-BQ(ZN)BH
for indoor and outdoor use

metal-free, dry interstices, gel-free loose tube,
rodent protection, flame redardant,
longitudinally watertight

FO Universal DLTS U-BQ(ZN)BH, 1 x m, ≤ 24 fibres

FO Universal DLTS U-BQ(ZN)BH, n x m, 12-144 fibres

FO Universal DLTS ZGGFR, ≤ 24 fibres

U-BQ(ZN)BH 1 x m Description	Fibres number	Article No. E9/125 G.652.D OS2 (sheath colour: yellow)	Article No.	Article No.	Article No. G50/125 OM3 (sheath colour: turquoise)	Article No.	Article No.
Euroclasses		D_{ca}	C_{ca}	$B2_{ca}$	D_{ca}	C_{ca}	$B2_{ca}$
FO Universal DLTS 1 x 4	4	19706600DZ	19706600CZ	19706600BZ	19708000DZ	19708000CZ	19708000BZ
FO Universal DLTS 1 x 6	6	19706700DZ	19706700BZ	19706700BZ	19708100DZ	19708100CZ	19708100BZ
FO Universal DLTS 1 x 8	8	19706800DZ	19706800CZ	19706800BZ	19708200DZ	19708200CZ	19708200BZ
FO Universal DLTS 1 x 12	12	19618100DZ	19618100CZ	19618100BZ	19708300DZ	19708300CZ	19708300BZ
FO Universal DLTS 1 x 24	24	19618200DZ	19618200CZ	19618200BZ	19708400DZ	19708400CZ	19708400BZ

Description	number	G50/125 OM4 (sheath colour: heather violet)			G50/125 OM5 (sheath colour: lime)		
Euroclasses		D_{ca}	C_{ca}	$B2_{ca}$	D_{ca}	C_{ca}	$B2_{ca}$
FO Universal DLTS 1 x 4	4	19708500DZ	19708500CZ	19708500BZ	on request	on request	on request
FO Universal DLTS 1 x 6	6	19708600DZ	19708600CZ	19708600BZ	on request	on request	on request
FO Universal DLTS 1 x 8	8	19708700DZ	19708700CZ	19708700BZ	on request	on request	on request
FO Universal DLTS 1 x 12	12	19618500DZ	19618500CZ	19618500BZ	19706400DZ	19706400CZ	19706400BZ
FO Universal DLTS 1 x 24	24	19618600DZ	19618600CZ	19618600BZ	19706500DZ	19706500CZ	19706500BZ

FO Universal DLTS wbGGFR, 12-144 fibres

U-BQ(ZN)BH n x m Description	Fibres number	Article No. E9/125 G.652.D OS2 (sheath colour: yellow)	Article No.	Article No.	Article No. G50/125 OM3 (sheath colour: turquoise)	Article No.	Article No.
Euroclasses		D_{ca}	C_{ca}	$B2_{ca}$	D_{ca}	C_{ca}	$B2_{ca}$
FO Universal DLTS 1 x 12	12	19710100DZ	19710100CZ	19710100BZ	on request	on request	on request
FO Universal DLTS 2 x 12	24	19618300DZ	19618300CZ	19618300BZ	19710600DZ	19710600CZ	19710600BZ
FO Universal DLTS 4 x 12	48	19618400DZ	19618400CZ	19618400BZ	19710700DZ	19710700CZ	19710700BZ
FO Universal DLTS 6 x 12	72	19710200DZ	19710200CZ	19710200BZ	on request	on request	on request
FO Universal DLTS 8 x 12	96	19710300DZ	19710300CZ	19710300BZ	19710800DZ	19710800CZ	19710800BZ
FO Universal DLTS10 x 12	120	19710400DZ	19710400CZ	19710400BZ	on request	on request	on request
FO Universal DLTS12 x 12	144	19710500DZ	19710500CZ	19710500BZ	19710900DZ	19710900CZ	19710900BZ

Description	number	G50/125 OM4 (sheath colour: heather violet)			G50/125 OM5 (sheath colour: lime)		
Euroclasses		D_{ca}	C_{ca}	$B2_{ca}$	D_{ca}	C_{ca}	$B2_{ca}$
FO Universal DLTS 1 x 12	12	on request	on request	on request	on request	on request	on request
FO Universal DLTS 2 x 12	24	19618700DZ	19618700CZ	19618700BZ	19706900DZ	19706900CZ	19706900BZ
FO Universal DLTS 4 x 12	48	19618800DZ	19618800CZ	19618800BZ	19707000DZ	19707000CZ	19707000BZ
FO Universal DLTS 6 x 12	72	on request	on request	on request	on request	on request	on request
FO Universal DLTS 8 x 12	96	19708800DZ	19708800CZ	19708800BZ	on request	on request	on request
FO Universal DLTS10 x 12	120	on request	on request	on request	on request	on request	on request
FO Universal DLTS12 x 12	144	19708900DZ	19708900CZ	19708900BZ	on request	on request	on request

FO Universal ... Safety / U-DQ(ZN)BH
Safety cables E30 for indoor and outdoor use

metal-free, water resistant, rodent protection,
in accordance with IEC 60332-1-2 and IEC 60332-3-24

**30 minutes System Circuit Integrity
according to DIN 4102-12***

FO Universal ZGGFR Safety / U-DQ(ZN)BH
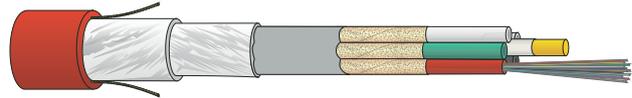
FO Universal wbGGFR Safety / U-DQ(ZN)BH

FO Universal ZGGFR Safety

U-DQ(ZN)BH Description	1 x m	Fibres number	Article No. E9/125 G.652.D	Article No. G50/125 OM3	Article No. G50/125 OM4
FO Universal ZGGFR Safety	1 x 4	4	187288	190604	193447
FO Universal ZGGFR Safety	1 x 6	6	191867	191851	193448
FO Universal ZGGFR Safety	1 x 8	8	196130	196120	193449
FO Universal ZGGFR Safety	1 x 12	12	190719	191796	193450

FO Universal wbGGFR Safety

U-DQ(ZN)BH Description	1 x m	Fibres number	Article No. E9/125 G.652.D	Article No. G50/125 OM3	Article No. G50/125 OM4
FO Universal wbGGFR Safety	2 x 12	24	190223	187360	193454
FO Universal wbGGFR Safety	3 x 12	36	190224	on request	193455
FO Universal wbGGFR Safety	4 x 12	48	190225	191191	193456
FO Universal wbGGFR Safety	5 x 12	60	190226	190605	193457

* Please find the necessary E30-tested and certified fire safety system components on our website.

FIBRE OPTIC SOLUTIONS
Cables

With selected items from our wide range of fibre optic products.
For more information and products please visit ITinfra.datwyler.com

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

central tube design, non metallic,
water resistant, rodent protection

FO Outdoor ZGGT HP / A-DQ(ZN)B2Y, 1 x m, ≤ 24 fibres

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

non metallic, dry interstices,
water resistant, rodent protection

FO Outdoor wbGGT HP / A-DQ(ZN)B2Y, n x m, 12-576 fibres

FO Outdoor wbGGT SMALL / A-DQ(ZN)B2Y
Small, 2-layer

non metallic, dry interstices,
water resistant, rodent protection
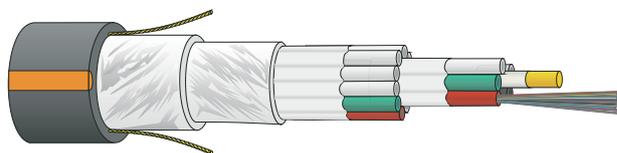
FO Outdoor wbGGT HP / A-DQ(ZN)B2Y, n x m, 12-432 fibres

FO Outdoor ZGGT HP, ≤ 24 fibres

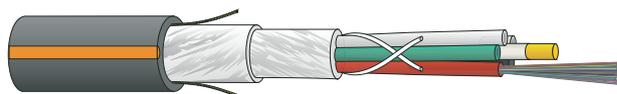| A-DQ(ZN)B2Y Description	1 x m	Fibres number	Article No. E9/125 G.652.D	Article No. G50/125 OM3	Article No. G50/125 OM4
FO Outdoor ZGGT HP	1 x 4	4	19016600FZ	19112100FZ	19608900FZ
FO Outdoor ZGGT HP	1 x 6	6	19016700FZ	19074700FZ	on request
FO Outdoor ZGGT HP	1 x 8	8	19016800FZ	on request	on request
FO Outdoor ZGGT HP	1 x 12	12	19016900FZ	18636100FZ	19261000FZ
FO Outdoor ZGGT HP	1 x 24	24	19014900FZ	19264500FZ	19216700FZ

FO Outdoor wbGGT HP, 12-432 fibres

A-DQ(ZN)B2Y Description	n x m	Fibres number	Article No. E9/125 G.652.D	Article No. G50/125 OM3	Article No. G50/125 OM4
FO Outdoor wbGGT HP	1 x 12	12	19005900FZ	19065100FZ	on request
FO Outdoor wbGGT HP	2 x 12	24	18674800FZ	19036800FZ	19444400FZ
FO Outdoor wbGGT HP	4 x 12	48	18738500FZ	19036900FZ	on request
FO Outdoor wbGGT HP	6 x 12	72	19017200FZ	on request	on request
FO Outdoor wbGGT HP	8 x 12	96	18676000FZ	on request	19617400FZ
FO Outdoor wbGGT HP	12 x 12	144	18739400FZ	19031100FZ	on request
FO Outdoor wbGGT HP	6 x 24	144	19076400FZ	on request	on request
FO Outdoor wbGGT HP	8 x 24	192	19127000FZ	on request	on request
FO Outdoor wbGGT HP	9 x 24	216	19069600FZ	on request	on request
FO Outdoor wbGGT HP	12 x 24	288	19032500FZ	on request	on request
FO Outdoor wbGGT HP	18 x 24	432	19017800FZ	on request	on request
FO Outdoor wbGGT HP	24 x 24	576	19720400FZ	on request	on request

FO Outdoor wbGGT SMALL, ≤ 432 fibres

A-DQ(ZN)B2Y Description	n x m	Fibres number	Article No. E9/125 G.652.D
FO Outdoor wbGGT SMALL	18 x 24	432	19261900FZ

Outdoor cable with steel armor (rodent protection) on request.

FO patch panel OV-E, 19"/1U, loaded
Splice box with shelf for excess tube lengths below the drawer

For the termination of fibre optic cables - maximum of 48 fibres.
Loaded with FO adapters, ready for splicing, with prepared pigtails (per 2 m, colour code: IEC 60304).
Telescopic, folding drawer with stop.
Shelf for excess tube lengths below the drawer.
Cable mounting plate at the rear.
Splice cassettes are hinged, can be easily folded up.

Splice box OV-E, 19"/1U, extractable
configuration example with 12 LC Duplex adapters APC and 24 pigtails

Article No.	Product	Colour front plate	Number of adapter	adapter	Colour adapter	Fibre type	Pigtail type, length
41516002ZY	Splice box OV-E, extractable, 1U	aluminium	6	LCD	blue	E9/125 G.652.D, OS2	12x LC, 2 m
41516402ZY	Splice box OV-E, extractable, 1U	aluminium	12	LCD	blue	E9/125 G.652.D, OS2	24x LC, 2 m
41516802ZY	Splice box OV-E, extractable, 1U	aluminium	24	LCD	blue	E9/125 G.652.D, OS2	48x LC, 2 m
41516102ZY	Splice box OV-E, extractable, 1U	aluminium	6	LCD/APC	green	E9/125 G.652.D, OS2	12x LC/APC, 2 m
41516502ZY	Splice box OV-E, extractable, 1U	aluminium	12	LCD/APC	green	E9/125 G.652.D, OS2	24x LC/APC, 2 m
41516902ZY	Splice box OV-E, extractable, 1U	aluminium	24	LCD/APC	green	E9/125 G.652.D, OS2	48x LC/APC, 2 m
41517202ZY	Splice box OV-E, extractable, 1U	aluminium	6	LSH/APC	green	E9/125 G.652.D, OS2	6x LSH/APC, 2 m
41517302ZY	Splice box OV-E, extractable, 1U	aluminium	12	LSH/APC	green	E9/125 G.652.D, OS2	12x LSH/APC, 2 m
41517402ZY	Splice box OV-E, extractable, 1U	aluminium	24	LSH/APC	green	E9/125 G.652.D, OS2	24x LSH/APC, 2 m
41517502ZY	Splice box OV-E, extractable, 1U	aluminium	24	LSH-C/APC	green	E9/125 G.652.D, OS2	48x LSH/APC, 2 m
41516202ZY	Splice box OV-E, extractable, 1U	aluminium	6	LCD	turquoise	G50/125, OM3	12x LC, 2 m
41516602ZY	Splice box OV-E, extractable, 1U	aluminium	12	LCD	turquoise	G50/125, OM3	24x LC, 2 m
41517002ZY	Splice box OV-E, extractable, 1U	aluminium	24	LCD	turquoise	G50/125, OM3	48x LC, 2 m
41516302ZY	Splice box OV-E, extractable, 1U	aluminium	6	LCD	violet	G50/125, OM4	12x LC, 2 m
41516702ZY	Splice box OV-E, extractable, 1U	aluminium	12	LCD	violet	G50/125, OM4	24x LC, 2 m
41517102ZY	Splice box OV-E, extractable, 1U	aluminium	24	LCD	violet	G50/125 OM4	48x LC, 2 m

Variants on request.

FO patch panel OV-S, 19"/1U, loaded
Splice box with adapters and pigtails

For the termination of fibre optic cables - maximum of 96 fibres.
Drawer extractable.
Front panel numbered.
Loaded with FO adapters, ready for splicing, with prepared pigtails
(per 2 m, colour code: IEC 60304).

Splice box OV-S, 19"/1U, extractable,
configuration example with 24 LCD/APC adapters
and 48 pigtails

19"/1U splice box, E9/125 G.652.D, OS2

Article No.	Product	Colour front plate	Number of adapters	Adapter	Colour adapter	Fibre type	Pigtail type
41521000ZY	Splice box OV-S	light grey	6	LCD	blue	E9/125 G.652.D, OS2	12x LC
41535700ZY	Splice box OV-S	black	6	LCD	blue	E9/125 G.652.D, OS2	12x LC
41521400ZY	Splice box OV-S	light grey	12	LCD	blue	E9/125 G.652.D, OS2	24x LC
41534100ZY	Splice box OV-S	black	12	LCD	blue	E9/125 G.652.D, OS2	24x LC
41521800ZY	Splice box OV-S	light grey	24	LCD	blue	E9/125 G.652.D, OS2	48x LC
41533700ZY	Splice box OV-S	black	24	LCD	blue	E9/125 G.652.D, OS2	48x LC
41522200ZY	Splice box OV-S	light grey	6	SCD	blue	E9/125 G.652.D, OS2	12x SC
41536400ZY	Splice box OV-S	black	6	SCD	blue	E9/125 G.652.D, OS2	12x SC
41522600ZY	Splice box OV-S	light grey	12	SCD	blue	E9/125 G.652.D, OS2	24x SC
41523000ZY	Splice box OV-S	light grey	24	SCD	blue	E9/125 G.652.D, OS2	48x SC
41538800ZY	Splice box OV-S	black	24	SCD	blue	E9/125 G.652.D, OS2	48x SC
41531300ZY	Splice box OV-S	light grey	6	LSH/APC	green	E9/125 G.652.D, OS2	6x LSH/APC
41531500ZY	Splice box OV-S	light grey	12	LSH/APC	green	E9/125 G.652.D, OS2	12x LSH/APC
41531700ZY	Splice box OV-S	light grey	24	LSH/APC	green	E9/125 G.652.D, OS2	24x LSH/APC
41544200ZY	Splice box OV-S	light grey	12	LCD/APC	green	E9/125 G.652.D, OS2	24x LC/APC
41544300ZY	Splice box OV-S	light grey	24	LCD/APC	green	E9/125 G.652.D, OS2	48x LC/APC
41527500ZY	Splice box OV-S	light grey	24	LCQ	blue	E9/125 G.652.D, OS2	96x LC
41533100ZY	Splice box OV-S	black	24	LCQ	blue	E9/125 G.652.D, OS2	96x LC
41523400ZY	Splice box OV-S	light grey	6	ST	metal	E9/125 G.652.D, OS2	6x ST
41523800ZY	Splice box OV-S	light grey	12	ST	metal	E9/125 G.652.D, OS2	12x ST
41524200ZY	Splice box OV-S	light grey	24	ST	metal	E9/125 G.652.D, OS2	24x ST

Variants on request.

Splice box OV-S, 19"/1U, extractable,
configuration example with 24 LCD adapters
and 48 pigtails

19"/1U, Splice box, G50/125 OM4

Article No.	Product	Colour front plate	Number of adapters	Adapter	Colour adapter	Fibre type	Pigtail type
41534000ZY	Splice box OV-S	black	6	LCD	heather violet	G50/125 OM4	12x LC
41521300ZY	Splice box OV-S	light grey	6	LCD	heather violet	G50/125 OM4	12x LC
41531200ZY	Splice box OV-S	black	12	LCD	heather violet	G50/125 OM4	24x LC
41521700ZY	Splice box OV-S	light grey	12	LCD	heather violet	G50/125 OM4	24x LC
41533000ZY	Splice box OV-S	black	24	LCD	heather violet	G50/125 OM4	48x LC
41522100ZY	Splice box OV-S	light grey	24	LCD	heather violet	G50/125 OM4	48x LC
41533200ZY	Splice box OV-S	black	24	LCQ	heather violet	G50/125 OM4	96x LC
41529500ZY	Splice box OV-S	light grey	24	LCQ	heather violet	G50/125 OM4	96x LC
41537300ZY	Splice box OV-S	black	6	LSH	heather violet	G50/125 OM4	6x LSH
41532500ZY	Splice box OV-S	light grey	6	LSH	heather violet	G50/125 OM4	6x LSH
41537600ZY	Splice box OV-S	black	12	LSH	heather violet	G50/125 OM4	12x LSH
41532600ZY	Splice box OV-S	light grey	12	LSH	heather violet	G50/125 OM4	12x LSH
41537900ZY	Splice box OV-S	black	24	LSH	heather violet	G50/125 OM4	24x LSH
41532700ZY	Splice box OV-S	light grey	24	LSH	heather violet	G50/125 OM4	24x LSH
41522500ZY	Splice box OV-S	light grey	6	SCD	heather violet	G50/125 OM4	12x SC
41522900ZY	Splice box OV-S	light grey	12	SCD	heather violet	G50/125 OM4	24x SC
41523300ZY	Splice box OV-S	light grey	24	SCD	heather violet	G50/125 OM4	48x SC

Variants on request.

Splice box OV-S, 19"/1U, extractable,
configuration example with 24 LCD adapters
and 48 pigtails

19"/1U splice box, G50/125 OM3

Article No.	Product	Colour front plate	Number of adapters	Adapter	Colour adapter	Fibre type	Pigtail type
41521200ZY	Splice box OV-S	light grey	6	LCD	turquoise	G50/125 OM3	12x LC
41533600ZY	Splice box OV-S	black	6	LCD	turquoise	G50/125 OM3	12x LC
41521600ZY	Splice box OV-S	light grey	12	LCD	turquoise	G50/125 OM3	24x LC
41522000ZY	Splice box OV-S	light grey	24	LCD	turquoise	G50/125 OM3	48x LC
41536100ZY	Splice box OV-S	black	24	LCD	turquoise	G50/125 OM3	48x LC
41522400ZY	Splice box OV-S	light grey	6	SCD	turquoise	G50/125 OM3	12x SC
41533300ZY	Splice box OV-S	black	6	SCD	turquoise	G50/125 OM3	12x SC
41522800ZY	Splice box OV-S	light grey	12	SCD	turquoise	G50/125 OM3	24x SC
41523200ZY	Splice box OV-S	light grey	24	SCD	turquoise	G50/125 OM3	48x SC
41531400ZY	Splice box OV-S	light grey	6	LSH	beige	G50/125 OM3	6x LSH
41531600ZY	Splice box OV-S	light grey	12	LSH	beige	G50/125 OM3	12x LSH
41531800ZY	Splice box OV-S	light grey	24	LSH	beige	G50/125 OM3	24x LSH
41529800ZY	Splice box OV-S	light grey	24	LCQ	turquoise	G50/125 OM3	96x LC
41523600ZY	Splice box OV-S	light grey	6	ST	metal	G50/125 OM3	6x ST
41524000ZY	Splice box OV-S	light grey	12	ST	metal	G50/125 OM3	12x ST
41524400ZY	Splice box OV-S	light grey	24	ST	metal	G50/125 OM3	24x ST

Variants on request.

FO patch panel OV-S, 19"/1U, loaded
Breakout box with adapters

Made of powder-coated sheet steel.
For the termination of pre-assembled fibre optic cables - maximum of 96 fibres.
Extractable drawer.
Numbered front panel, labeling strips as accessories (not for versions with LCQ adapters).
Loaded with a maximum of 24 FO adapters.

Breakout box OV-S, 19"/1U, extractable,
configuration example with 6 SCD adapters

19"/1U breakout box, E9/125 OS2

Article No.	Product	Colour front plate	Number of adapters	Adapter	Colour adapter	Fibre category
441525000ZY	Breakout box OV-S	light grey	6	LCD	blue	OS2
41542300ZY	Breakout box OV-S	black	6	LCD	blue	OS2
41525400ZY	Breakout box OV-S	light grey	12	LCD	blue	OS2
41542400ZY	Breakout box OV-S	black	12	LCD	blue	OS2
41525800ZY	Breakout box OV-S	light grey	24	LCD	blue	OS2
41526200ZY	Breakout box OV-S	light grey	6	SCD	blue	OS2
41526600ZY	Breakout box OV-S	light grey	12	SCD	blue	OS2
41527000ZY	Breakout box OV-S	light grey	24	SCD	blue	OS2
41531900ZY	Breakout box OV-S	light grey	6	LSH/APC	green	OS2
41532100ZY	Breakout box OV-S	light grey	12	LSH/APC	green	OS2
41532300ZY	Breakout box OV -S	light grey	24	LSH/APC	green	OS2
41520700ZY	Breakout box OV-S	light grey	24	LCQ	blue	OS2

Variants on request.

Breakout box OV-S, 19"/1U, extractable,
configuration example with 6 SCD adapters

19"/1HE breakout box, G50/125 OM4

Article No.	Product	Colour front plate	Number of adapters	Adapter	Colour adapter	Fibre category
41547400ZY	Breakout box OV-S	light grey	6	LSH	heather violet	OM4
41547500ZY	Breakout box OV-S	light grey	12	LSH	heather violet	OM4
41547600ZY	Breakout box OV-S	light grey	24	LSH	heather violet	OM4
41525300ZY	Breakout box OV-S	light grey	6	LCD	heather violet	OM4
41542500ZY	Breakout box OV-S	black	6	LCD	heather violet	OM4
41525700ZY	Breakout box OV-S	light grey	12	LCD	heather violet	OM4
41542700ZY	Breakout box OV-S	black	12	LCD	heather violet	OM4
41526100ZY	Breakout box OV-S	light grey	24	LCD	heather violet	OM4
41534300ZY	Breakout box OV-S	black	24	LCD	heather violet	OM4
41526500ZY	Breakout box OV-S	light grey	6	SCD	heather violet	OM4
41543100ZY	Breakout box OV-S	black	6	SCD	heather violet	OM4
41526900ZY	Breakout box OV-S	light grey	12	SCD	heather violet	OM4
41543300ZY	Breakout box OV-S	black	12	SCD	heather violet	OM4
41527300ZY	Breakout box OV-S	light grey	24	SCD	heather violet	OM4
41543600ZY	Breakout box OV-S	black	24	SCD	heather violet	OM4
41529600ZY	Breakout box OV-S	light grey	24	LCQ	heather violet	OM4

Variants on request.

Breakout box OV-S, 19"/1U, extractable,
configuration example with 6 SCD adapters

19"/1HE breakout box, G50/125 OM3

Article No.	Product	Colour front plate	Number of adapters	Adapter	Colour adapter	Fibre category
41525200ZY	Breakout box OV-S	light grey	6	LCD	turquoise	OM3
41542600ZY	Breakout box OV-S	black	6	LCD	turquoise	OM3
41525600ZY	Breakout box OV-S	light grey	12	LCD	turquoise	OM3
41542800ZY	Breakout box OV-S	black	12	LCD	turquoise	OM3
41526000ZY	Breakout box OV-S	light grey	24	LCD	turquoise	OM3
41543000ZY	Breakout box OV-S	black	24	LCD	turquoise	OM3
41526400ZY	Breakout box OV-S	light grey	6	SCD	turquoise	OM3
41543200ZY	Breakout box OV-S	black	6	SCD	turquoise	OM3
41526800ZY	Breakout box OV-S	light grey	12	SCD	turquoise	OM3
41533500ZY	Breakout box OV-S	black	12	SCD	turquoise	OM3
41527200ZY	Breakout box OV-S	light grey	24	SCD	turquoise	OM3
41543500ZY	Breakout box OV-S	black	24	SCD	turquoise	OM3
41528000ZY	Breakout box OV-S	light grey	24	LCQ	turquoise	OM3

Variants on request.

Blank covers and shutters

Shutter for SC Duplex

Shutter for LC Duplex and SC Simplex

Blank cover plugs: ST/FC

SC/LSH/LCD

SCD/LCQ

Article No.	Description	Fibre type	Cover material	Colour	PU
1414887	Shutter for SCD	SM	polymer	blau	1 pc.
1414888	Shutter for SCD	SM	polymer	grün	1 pc.
1414889	Shutter for SCD	MM	polymer	beige	1 pc.
414498	Shutter for SCD	MM	polymer	türkis	1 pc.
414499	Shutter for SCD	MM	polymer	violett	1 pc.
414494	Shutter for LCD or SC simplex	SM	polymer	blau	1 pc.
414495	Shutter for LCD or SC simplex	SM	polymer	grün	1 pc.
414492	Shutter for LCD or SC simplex	MM	polymer	beige	1 pc.
414493	Shutter for LCD or SC simplex	MM	polymer	türkis	1 pc.
414496	Shutter for LCD or SC simplex	MM	polymer	violett	1 pc.
418560	Blank cover for LSH-C				1 pc.
418596	Blank cover for SC/LSH/LCD (21,5 mm)				1 pc.
1414224	Blank cover for SCD /LCQ				1 pc.
1414225	Blank cover for ST/FC				1 pc.
418535	Self-tapping screw M 2.5 x 6 mm				50 pcs.
418599	Screws and nuts M2				50 pcs.

Fibre optic couplers

SC Duplex

ST

LC Duplex with flange

LC Duplex without flange

LC/APC Quad

Article No.	Coupler	Fibre type	Sleeve	Cover material	Colour	Mounting	2 pieces M2 screws	PU
1414886	ST	MM/SM	ceramic	metal		D hole		1 pc.
418506	SC/APC	SM	ceramic	Polymer	green	flange	without	1 pc.
418507	SCD	MM	PB	Polymer	beige	flange	without	1 pc.
418508	SCD	MM	ceramic	Polymer	beige	flange	without	1 pc.
418509	SCD	MM	PB	Polymer	türkis	flange	without	1 pc.
418510	SCD	MM	ceramic	Polymer	türkis	flange	without	1 pc.
418534	SCD	MM	PB	Polymer	violet	flange	without	1 pc.
418532	SCD	MM	ceramic	Polymer	violet	flange	without	1 pc.
418511	SCD	SM	ceramic	Polymer	blue	flange	without	1 pc.
418512	SCD/APC	SM	ceramic	Polymer	green	flange	without	1 pc.
418513	LCD	MM	ceramic	Polymer	beige	flange	without	1 pc.
418516	LCD	MM	ceramic	Polymer	türkis	flange	without	1 pc.
418531	LCD	MM	ceramic	Polymer	violet	flange	without	1 pc.
418514	LCD	SM	ceramic	Polymer	blue	flange	without	1 pc.
418515	LCD/APC	SM	ceramic	Polymer	green	flange	without	1 pc.
418525 [1]	LCD	MM	ceramic	Polymer	beige	threaded flange	without	1 pc.
418526 [1]	LCD	SM	ceramic	Polymer	blue	threaded flange	without	1 pc.
418527 [1]	LCD/APC	SM	ceramic	Polymer	green	threaded flange	without	1 pc.
418528 [1]	LCD	MM	ceramic	Polymer	türkis	threaded flange	without	1 pc.
418533 [1]	LCD	MM	ceramic	Polymer	violet	threaded flange	without	1 pc.
418517	LCQ	MM	ceramic	Polymer	beige	flange	without	1 pc.
418518	LCQ	MM	ceramic	Polymer	türkis	flange	without	1 pc.
418530	LCQ	MM	ceramic	Polymer	violet	flange	without	1 pc.
418519	LCQ	SM	ceramic	Polymer	blue	flange	without	1 pc.
418520	LCQ/APC	SM	ceramic	Polymer	green	flange	without	1 pc.

[1] These couplers are used with Datwyler FO-DCS subracks 7HP/3U - Article No. 417212.

Duplex patch cord
LSH - LCD/APC, OS2

Duplex patch cord
LSH - LSH, OM3

Duplex patch cord
LCD - LSH, OM4

Duplex patch cord
LCD - LCD, OM5

Duplex patch cord Fig. 0, OS2

Connector type		Fibre type	polarity	Length in m / Article No.									
Side A	Side B			1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m
LCD	LCD	E9/125 G.652.D OS2	A to B	423311	423312	423313	423314	423315	423316	423317	423318	423319	423320
LCD	LCD/APC	E9/125 G.652.D OS2	A to B	423911	423912	423913	423914	423915	423916	423917	423918	423919	423920
LCD	LSH	E9/125 G.652.D OS2	A to B	423411	423412	423413	423414	423415	423416	423417	423418	423419	423420
LCD	LSH/APC	E9/125 G.652.D OS2	A to B	423811	423812	423813	423814	423815	423816	423817	423818	423819	423820
LCD/APC	LCD/APC	E9/125 G.652.D OS2	A to B	429911	429912	429913	429914	429915	429916	429917	429918	429919	429923
LCD/APC	LSH/APC	E9/125 G.652.D OS2	A to B	428911	428912	428913	428914	428915	428916	428917	428918	428919	428920
LSH	LSH	E9/125 G.652.D OS2	A to B	424411	424412	424413	424414	424415	424416	424417	424418	424419	424420
LSH	LSH/APC	E9/125 G.652.D OS2	A to B	424811	424812	424813	424814	424815	424816	424817	424818	424819	424820
LSH	LCD/APC	E9/125 G.652.D OS2	A to B	424911	424912	424913	424914	424915	424916	424917	424918	424919	424920
LSH/APC	LSH/APC	E9/125 G.652.D OS2	A to B	428811	428812	428813	428814	428815	428817	428816	428818	428819	428820

Duplex patch cord Fig. 0, OM3

Connector type		Fibre type	polarity	Length in m / Article No.									
Side A	Side B			1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m
LCD	LCD	G50/125 OM3	A to B	423331	423332	423333	423334	423335	423336	423337	423338	423339	423340
LCD	LSH	G50/125 OM3	A to B	423431	423432	423433	423434	423435	423436	423437	423438	423439	423440
LSH	LSH	G50/125 OM3	A to B	424431	424432	424433	424434	424435	424436	424437	424438	424439	424440

Duplex patch cord Fig. 0, OM4

Connector type		Fibre type	polarity	Length in m / Article No.									
Side A	Side B			1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m
LCD	LCD	G50/125 OM4	A to B	433341	433342	433343	433344	433345	433346	433347	433348	433349	433350
LCD	LSH	G50/125 OM4	A to B	42349000ZY	42349100ZY	42349200ZY	42349300ZY	42349400ZY	42349500ZY	42349600ZY	42349700ZY	42349800ZY	42349900ZY

Duplex patch cord Fig. 0, OM5

Connector type		Fibre type	polarity	Length in m / Article No.									
Side A	Side B			1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m
LCD	LCD	G50/125 OM5	A to B	433041	433042	433043	433044	433045	433046	433047	433048	433049	433050

Datwyler offers fiber optic patch cables for individual needs
with a wide range of connector types: ITinfra.datwyler.com.

Duplex patch cord
LSH - LCD/APC, OS2

Duplex patch cord
SCD - SCD, OM3

Duplex patch cord
LCD - ST, OM4

Duplex patch cord Fig. 8, OS2

Connector type		Fibre type	polarity	Length in m / Article No.									
Side A	Side B			1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m
LCD	LCD	E9/125 G.652.D OS2	A to B	42331108ZY	42331208ZY	42331308ZY	42331408ZY	42331508ZY	42331608ZY	42331708ZY	42331808ZY	42331908ZY	42332008ZY
LCD	LCD/APC	E9/125 G.652.D OS2	A to B	42391108ZY	42391208ZY	42391308ZY	42391408ZY	42391508ZY	42391608ZY	42391708ZY	42391808ZY	42391908ZY	42392008ZY
LCD	LSH	E9/125 G.652.D OS2	A to B	42341108ZY	42341208ZY	42341308ZY	42341408ZY	42341508ZY	42341608ZY	42341708ZY	42341808ZY	42341908ZY	42342008ZY
LCD	LSH/APC	E9/125 G.652.D OS2	A to B	42381108ZY	42381208ZY	42381308ZY	42381408ZY	42381508ZY	42381608ZY	42381708ZY	42381808ZY	42381908ZY	42382008ZY
LCD/APC	LCD/APC	E9/125 G.652.D OS2	A to B	42991108ZY	42991208ZY	42991308ZY	42991408ZY	42991508ZY	42991608ZY	42991708ZY	42991808ZY	42991908ZY	42992008ZY
LCD/APC	LSH/APC	E9/125 G.652.D OS2	A to B	42891108ZY	42891208ZY	42891308ZY	42891408ZY	42891508ZY	42891608ZY	42891708ZY	42891808ZY	42891908ZY	42892008ZY
LSH	LSH	E9/125 G.652.D OS2	A to B	42441108ZY	42441208ZY	42441308ZY	42441408ZY	42441508ZY	42441608ZY	42441708ZY	42441808ZY	42441908ZY	42442008ZY
LSH	LSH/APC	E9/125 G.652.D OS2	A to B	42481108ZY	42481208ZY	42481308ZY	42481408ZY	42481508ZY	42481608ZY	42481708ZY	42481808ZY	42481908ZY	42482008ZY
LSH	LCD/APC	E9/125 G.652.D OS2	A to B	42491108ZY	42491208ZY	42491308ZY	42491408ZY	42491508ZY	42491608ZY	42491708ZY	42491808ZY	42491908ZY	42492008ZY
LSH/APC	LSH/APC	E9/125 G.652.D OS2	A to B	42881108ZY	42881208ZY	42881308ZY	42881408ZY	42881508ZY	42881608ZY	42881708ZY	42881808ZY	42881908ZY	42882008ZY

Duplex patch cord Fig. 8, OM3

Connector type		Fibre type	polarity	Length in m / Article No.									
Side A	Side B			1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m
LCD	LCD	G50/125 OM3	A to B	42333108ZY	42333208ZY	42333308ZY	42333408ZY	42333508ZY	42333608ZY	42333708ZY	42333808ZY	42333908ZY	42334008ZY
SCD	SCD	G50/125 OM3	A to B	42113108ZY	42113208ZY	42113308ZY	42113408ZY	42113508ZY	42113608ZY	42113708ZY	42113808ZY	42113908ZY	42114008ZY
SCD	ST	G50/125 OM3	A to B	42123108ZY	42123208ZY	42123308ZY	42123408ZY	42123508ZY	42123608ZY	42123708ZY	42123808ZY	42123908ZY	42124008ZY
ST	ST	G50/125 OM3	A to B	42223108ZY	42223208ZY	42223308ZY	42223408ZY	42223508ZY	42223608ZY	42223708ZY	42223808ZY	42223908ZY	42224008ZY
LCD	ST	G50/125 OM3	A to B	42233108ZY	42233208ZY	42233308ZY	42233408ZY	42233508ZY	42233608ZY	42233708ZY	42233808ZY	42233908ZY	42234008ZY
LCD	SCD	G50/125 OM3	A to B	42133108ZY	42133208ZY	42133308ZY	42133408ZY	42133508ZY	42133608ZY	42133708ZY	42133808ZY	42133908ZY	42134008ZY

Duplex patch cord Fig. 8, OM4

Connector type		Fibre type	polarity	Length in m / Article No.									
Side A	Side B			1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m
LCD	LCD	G50/125 OM4	A to B	43334108ZY	43334208ZY	43334308ZY	43334408ZY	43334508ZY	43334608ZY	43334708ZY	43334808ZY	43334908ZY	43335008ZY
LCD	SCD	G50/125 OM4	A to B	43134108ZY	43134208ZY	43134308ZY	43134408ZY	43134508ZY	43134608ZY	43134708ZY	43134808ZY	43134908ZY	43135008ZY
SCD	SCD	G50/125 OM4	A to B	43114108ZY	43114208ZY	43114308ZY	43114408ZY	43114508ZY	43114608ZY	43114708ZY	43114808ZY	43114908ZY	43115008ZY
LCD	ST	G50/125 OM4	A to B	42230108ZY	42230208ZY	42230308ZY	42230408ZY	42230508ZY	42230608ZY	42230708ZY	42230808ZY	42230908ZY	42231008ZY

Pigtails

Connector type	Fibre type	Fibre pigtail 2 m	Set of 12 fibre pigtails 2 m*
SC	E09/OS2	421121	421122
SC	G50/OM4	421144	421145
SC	G50/OM3	421141	421142
ST	E09/OS2	422221	422222
ST	G50/OM4	422244	422245
ST	G50/OM3	422241	422242
LC	E09/OS2	423321	423322
LC	G50/OM4	423348	423349
LC	G50/OM3	423341	423342
SC/APC	E9/OS2	427721	427722
LC/APC	E9/OS2	429921	429922
LSH/APC	E9/OS2	428821	309631

* Set has 12 fibre pigtails in 12 colours (according to IEC 60304)

Connector termination: optical performance values

Datwyler offers a broad range of terminated connectors
for individual customer needs.
These can be supplied in Simplex as well as in Duplex variants.
Most types are available as APC/HRL variants, too.
We are also able to deliver terminations for higher optical
performance requirements.

ST   LC

Ferrule material:	zyrconia
	MPO: polymer
Lifetime:	1000 connections with
	stable attenuation values
Test conditions IL:	IEC 61300-3-4
Test conditions RL:	IEC 61300-3-6
Reproducibility of the IL value:	during the whole lifetime a
	maximum of +/- 0.1 dB
Operating temperature:	-10° C up to +60° C

MTP®/MPO   SC

Connector	IL [dB] typical	IL [dB] maximum	RL [dB] typical	RL [dB] minimum	Grade (IEC 61755)
MM	0.15	0.3	35	30	better than Bm2m
SM	0.12	0.25	55	50	better than B2
SM/APC	0.12	0.25	70	65	better than B1
MTP®/MPO MM	0.15	0.3	25	20	better than Bm2m
MTP®/MPO SM	0.1	0.25	65	60	better than C1

All connectors are tested with our Simplex, Duplex and Mini Zipcord cables as well as our pigtails.

Please note
Our single fibre cables and the
connectors of our Duplex patch cables
are marked with cable clips "A" and "B".

There is a single Duplex clip enclosed
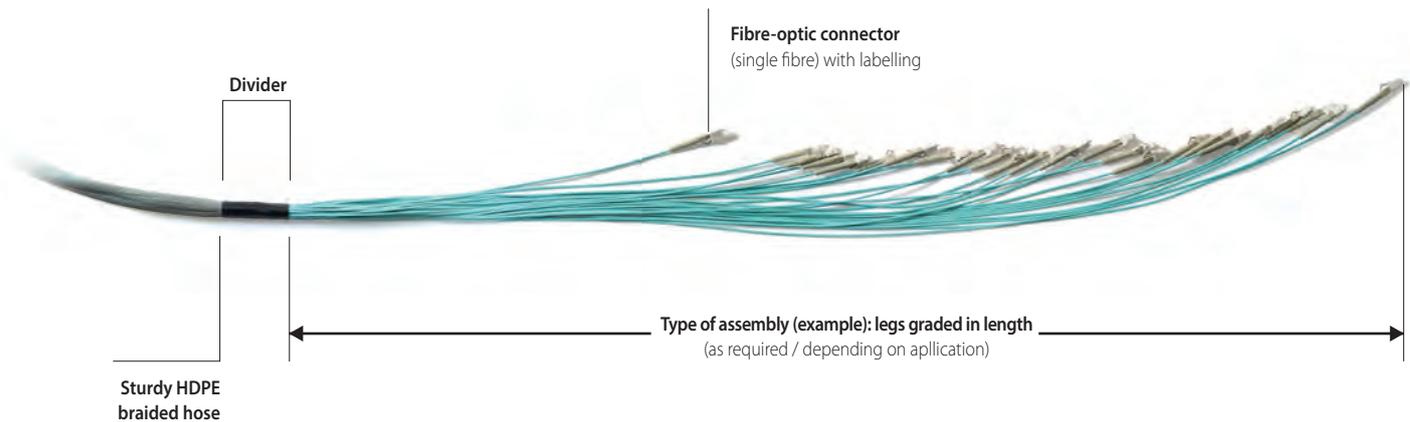to enable a change of polarity.

Wiring of a FO Duplex patch cable A to B

A   B
B   A

MTP® is a registered brand name of US Conec.

FLEXIBLE TRUNKS

Length determination & design
of pre-assembled FO trunks

Divider

Fibre-optic connector
(single fibre) with labelling

**Sturdy HDPE
braided hose**

Type of assembly (example): legs graded in length
(as required / depending on apllication)

Description
A Datwyler FO flexible trunk consists of up to 24 single fibre cables (per 2.0 mm) that are combined in a sturdy HDPE braided hose and have pre-assembled connectors on both ends. FO flexible trunks come in customized lengths and gradations.
This solution is suitable especially for data centre cabling, rack-to-rack connections and multiple patch links.
Delivery with optical attenuation measurement report.

Rack A

Rack B

fixing point

L
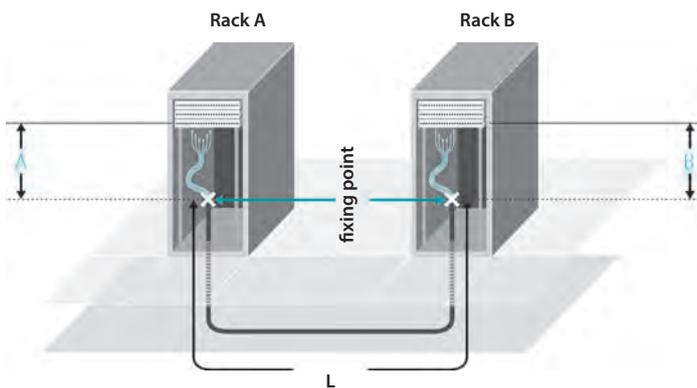
Length definition
The following criteria are decisive for all pre-assembled Datwyler FO trunks:

L = Length between dividers / fixing points
(= purchase order length)
A = Type of assembly side A:
as required / depending on application,
legs graded in length or of equal length
B = Type of assembly side B:
as required / depending on application,
legs graded in length or of equal length

FIBRE-OPTIC TRUNKS

Pre-assembly of loose-tube cables
with all current FO connector types

Trunk termination
Up to 48 fibres, with all current FO connectors.
After the divider (screwable) each single fibre
is protected by aramide yarn and has its own sheath.
Single fibre termination graded in length (max. 2 m after divider).
Comes in crush-resistant hose (IP67), optional with braided sleeving only.
Delivery with optical attenuation measurement report (with OTDR: optional at an extra charge).

Trunk termination (article numbers are valid for both sides)

Number of fibres	Multimode connector types					Single-mode connector types					
	ST	SC	LC	LSH	ST	SC	LC	LSH	SC/APC	LSH/APC	LC/APC
2	4118_000ZY	-	-	-	-	41181000ZY	-	-	-	-	-
4	4060_800ZY	40642100ZY	41660100ZY	41713100ZY	417218_ZY	40724400ZY	41509600ZY	41721900ZY	41500100ZY	41722200ZY	41549200ZY
6	4077_800ZY	40765800ZY	41501800ZY	41721300ZY	407719_ZY	40777800ZY	41501400ZY	41501000ZY	41722100ZY	41500600ZY	41549300ZY
8	4067_800ZY	40777700ZY	41502800ZY	41721400ZY	405818_ZY	41092300ZY	41713200ZY	41722000ZY	41500200ZY	41722300ZY	41549400ZY
12	40640300ZY	40679400ZY	41501900ZY	41721500ZY	40772000ZY	40703500ZY	41501500ZY	41501100ZY	41500300ZY	41500700ZY	41549500ZY
24	40678000ZY	40859700ZY	41502000ZY	41721600ZY	40852900ZY	40624200ZY	41501600ZY	41501200ZY	41500400ZY	41500800ZY	41549600ZY
48	-	-	41502100ZY	-	-	40676800ZY	41501700ZY	-	-	41500900ZY	41549700ZY

LCD-U on request (up to 96 fibres)

Pre-assembly of breakout cables
with all current FO connector types

Breakout assembly
Termination of up to 24 single-fibre cables, with all current FO connectors.
Single fibre termination optionally graded in length.
Delivery with optical attenuation measurement report.
Comes in braided sleeving (optional at an extra charge: with cable gland
and/or crush-resistant hose protection).

Breakout assembly	Connector type	Number of connectors	Multimode fibre Article No.	Single-mode fibre Article No.
on one cable end	SC	4	1410596	415023
on one cable end	SC	8	1410597	415024
on one cable end	SC	12	1410598	415025
on one cable end	SC	24	415083	415081
on one cable end	LC	4	415085	415090
on one cable end	LC	8	415086	415091
on one cable end	LC	12	415087	415092
on one cable end	LC	24	415088	415093

Attention: please order the breakout cable seperately - according to your individual needs.
When ordering a trunk cable please ensure that the specified length of the trunk cable is defined by the length of the longest single-fibre cable. This means: the total length of the trunk cable is the length of the cable between the two splits plus the additional length of the longest single-fibre cable on both sides.

WE DO IT. FOR YOU.

Your successful digitalization starts with Datwyler's pioneering IT infrastructure:

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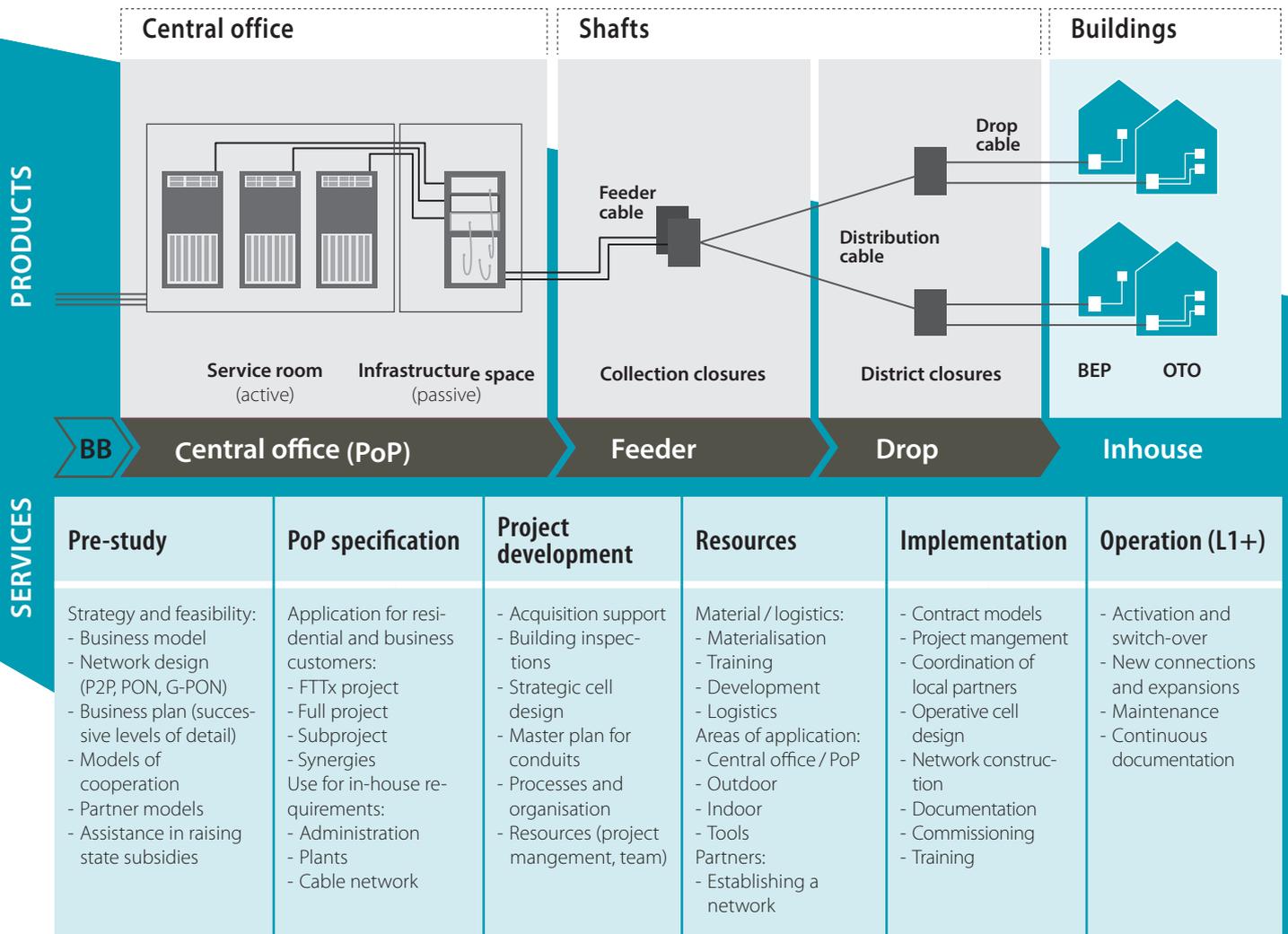- **Intelligent buildings**
- **Data centres**

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

TURNKEY SOLUTIONS FROM A SINGLE SOURCE

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.

THE CENTRAL OFFICE - THE HEART OF FIBRE OPTIC INFRASTRUCTURE

PRODUCTS

Central office	Shafts	Buildings

Service room (active) — Infrastructure space (passive) — Collection closures — District closures — BEP — OTO

Feeder cable — Distribution cable — Drop cable

BB	Central office (PoP)	Feeder	Drop	Inhouse

SERVICES

Pre-study	PoP specification	Project development	Resources	Implementation	Operation (L1+)
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	Application for residential and business customers: - FTTx project - Full project - Subproject - Synergies Use for in-house requirements: - Administration - Plants - Cable network	- Acquisition support - Building inspections - Strategic cell design - Master plan for conduits - Processes and organisation - Resources (project mangement, team)	Material / logistics: - Materialisation - Training - Development - Logistics Areas of application: - Central office / PoP - Outdoor - Indoor - Tools Partners: - Establishing a network	- Contract models - Project mangement - Coordination of local partners - Operative cell design - Network construction - Documentation - Commissioning - Training	- Activation and switch-over - New connections and expansions - Maintenance - Continuous documentation

FO Indoor FTTH

2.2 mm, 2.8 mm LS0H, for indoor use
flame retardant, in accordance with IEC 60794-2-20

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

FO Indoor FTTH STB / I-V(ZN)H, 2,8mm, LS0H

FO Indoor FTTH / I-M(ZN)H, up to 4 fibres, Coating buffer, 2.2 mm

I-M(ZN)H Description	Fibres number	Article No. E9/125 G.652.D BLO Sheath colour: yellow	Article No. G50/125 OM4 Sheath colour: heather violet
FO Indoor FTTH	4	19455000DZ	

FO Indoor FTTH STB / I-V(ZN)H, up to 4 fibres, Semi Tight Buffer, 2.8 mm

FO Indoor FTTH 2.8, 4x1	4	19341000DZ	19440500DZ

The "D" in these article numbers stands for Euroclass D_{ca}. For higher fire performance requirements, Datwyler offers these cables also with Class C_{ca} or even $B2_{ca}$ performance.
For the available Euroclasses please refer to the online data sheets on ITinfra.datwyler.com.

FTTH data outlet AP 80 x 80

SC/APC or LCD/APC design
surface mounted, also on top of installation cups

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

FTTH in-house installation kit
Cable & data outlet, preassembled
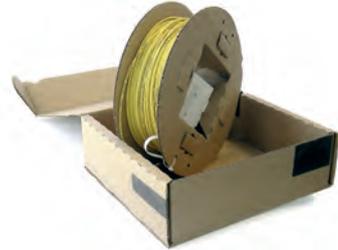
Article No.	Description	Cable length	PU
41861500ZY	2x LC/APC in LCD/APC adapter	10 m	1 set
41861600ZY	2x LC/APC in LCD/APC adapter	15 m	1 set
41861700ZY	2x LC/APC in LCD/APC adapter	20 m	1 set
41861800ZY	2x LC/APC in LCD/APC adapter	25 m	1 set
41861900ZY	2x LC/APC in LCD/APC adapter	30 m	1 set
41862000ZY	2x LC/APC in LCD/APC adapter	35 m	1 set
41862100ZY	2x LC/APC in LCD/APC adapter	40 m	1 set
41862200ZY	2x LC/APC in LCD/APC adapter	45 m	1 set
41862300ZY	2x LC/APC in LCD/APC adapter	50 m	1 set
41862400ZY	2x LC/APC in LCD/APC adapter	55 m	1 set
41862500ZY	2x LC/APC in LCD/APC adapter	60 m	1 set
41863400ZY	4x LC/APC in 2 LCD/APC adapter	10 m	1 set
41863500ZY	4x LC/APC in 2 LCD/APC adapter	15 m	1 set
41863600ZY	4x LC/APC in 2 LCD/APC adapter	20 m	1 set
41863700ZY	4x LC/APC in 2 LCD/APC adapter	25 m	1 set
41863800ZY	4x LC/APC in 2 LCD/APC adapter	30 m	1 set
41863900ZY	4x LC/APC in 2 LCD/APC adapter	35 m	1 set
41864000ZY	4x LC/APC in 2 LCD/APC adapter	40 m	1 set
41864100ZY	4x LC/APC in 2 LCD/APC adapter	45 m	1 set
41864200ZY	4x LC/APC in 2 LCD/APC adapter	50 m	1 set
41864300ZY	4x LC/APC in 2 LCD/APC adapter	55 m	1 set
41864400ZY	4x LC/APC in 2 LCD/APC adapter	60 m	1 set
41814500ZY	4x LC/APC in 2 LCD/APC adapter	65 m	1 set
41814600ZY	4x LC/APC in 2 LCD/APC adapter	70 m	1 set
41814700ZY	4x LC/APC in 2 LCD/APC adapter	75 m	1 set

DROP / FEEDER CABLING
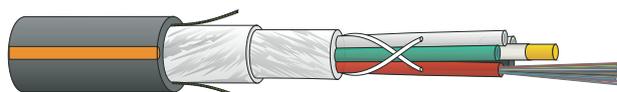
FO Outdoor ZGGT HP / A-DQ(ZN)B2Y
HighP

Central loose tube, metal-free,
longitudinally watertight, rodent protection

FO Outdoor ZGGT HP / A-DQ(ZN)B2Y, 1 x m, ≤ 24 fibres

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

Metal-free, trockene dry interstices,
longitudinally watertight, rodent protection

FO Outdoor wbGGT HP / A-DQ(ZN)B2Y, n x m, 12-576 fibres

FO Outdoor ZKT Micro / A-DQ(ZN)2Y
Micro

Very compact, metal-free, dry interstices,
stranded loose tubes, easily cut-back, installation-friendly

FO Outdoor ZKT Micro / A-DQ(ZN)2Y, 1 x m , ≤ 24 fibres

FO Outdoor ZGGT HP, up to 24 fibres

A-DQ(ZN)B2Y Description	1 x m	Fibres number	Article No. with E9/125 G.652.D
FO Outdoor ZGGT HP	1 x 4	4	19016600FZ
FO Outdoor ZGGT HP	1 x 6	6	19016700FZ
FO Outdoor ZGGT HP	1 x 8	8	19016800FZ
FO Outdoor ZGGT HP	1 x 12	12	19016900FZ
FO Outdoor ZGGT HP	1 x 24	24	19014900FZ

FO Outdoor wbGGT HP, 12-576 fibres

A-DQ(ZN)B2Y Description	n x m	Fibres number	Article No. with E9/125 G.652.D
FO Outdoor wbGGT HP	1 x 12	12	19005900FZ
FO Outdoor wbGGT HP	2 x 12	24	18674800FZ
FO Outdoor wbGGT HP	3 x 12	36	19005800FZ
FO Outdoor wbGGT HP	4 x 12	48	18738500FZ
FO Outdoor wbGGT HP	5 x 12	60	19017100FZ
FO Outdoor wbGGT HP	6 x 12	72	19017200FZ
FO Outdoor wbGGT HP	8 x 12	96	18676000FZ
FO Outdoor wbGGT HP	9 x 12	108	19017400FZ
FO Outdoor wbGGT HP	10 x 12	120	19017500FZ
FO Outdoor wbGGT HP	12 x 12	144	18739400FZ
FO Outdoor wbGGT HP	6 x 24	144	19076400FZ
FO Outdoor wbGGT HP	8 x 24	192	19127000FZ
FO Outdoor wbGGT HP	9 x 24	216	19069600FZ
FO Outdoor wbGGT HP	12 x 24	288	19032500FZ

FO Outdoor ZKT Micro, up to 24 fibres

A-DQ(ZN)B2Y Description	1 x m	Fibres number	Sheath Ø mm	Article No. with E9/125 G.652.D BLO
FO Outdoor ZKT Micro	1 x 2	2	4	19170200FZ
FO Outdoor ZKT Micro	1 x 4	4	4	19065800FZ
FO Outdoor ZKT Micro	1 x 6	6	4	19170300FZ
FO Outdoor ZKT Micro	1 x 8	8	4	19170400FZ
FO Outdoor ZKT Micro	1 x 10	10	4	19170500FZ
FO Outdoor ZKT Micro	1 x 12	12	4	19022700FZ
FO Outdoor ZKT Micro	1 x 24	24	4	19123500FZ

FO Outdoor wbKT Micro / A-DQ(ZN)2Y
Micro

Very thin, metal-free, stranded loose tubes,
easily cut-back, installation friendly

FO Outdoor ZT S-Micro / A-D2Y
S-Micro

Very thin, metal-free, with one central loose tube,
easily cut-back, installation friendly,
optimised for injection into microducts

FO Outdoor wbKT S-Micro / A-DQ(ZN)2Y
S-Micro

Very compact, metal-free, dry interstices,
stranded loose tubes, easily cut-back, installation-friendly,
optimised for injection into microducts

FO Outdoor wbKT C-Micro / A-DQ(ZN)2Y
C-Micro

Highly compact, metal-free, dry interstices,
stranded loose tubes, easily cut-back, installation-friendly,
optimised for injection into microducts

FO Outdoor wbKT Micro / A-DQ(ZN)2Y, n x m, ≤ 144 fibres

FO Outdoor ZT S-Micro / A-D2Y, 1 x m, ≤ 24 fibres

FO Outdoor wbKT S-Micro / A-DQ(ZN)2Y, 1 x m, 12-288 fibres

FO Outdoor wbKT C-Micro / A-DQ(ZN)2Y, n x m, with 72 fibres (200 µm)

FO Outdoor wbKT Micro, up to 144 fibres

A-DQ(ZN)2Y Description	n x m	Fibres number	Sheath Ø mm	Article No. with E9/125 G.652.D BLO
FO Outdoor wbKT Micro	1 x 12	12	6.6	19170600FZ
FO Outdoor wbKT Micro	2 x 12	24	6.6	19008000FZ
FO Outdoor wbKT Micro	3 x 12	36	6.6	19022900FZ
FO Outdoor wbKT Micro	4 x 12	48	6.6	19023000FZ
FO Outdoor wbKT Micro	5 x 12	60	6.6	19023100FZ
FO Outdoor wbKT Micro	6 x 12	72	6.5	19023200FZ
FO Outdoor wbKT Micro	8 x 12	96	7.6	19181300FZ
FO Outdoor wbKT Micro	6 x 24	144	8.2	19181400FZ

FO Outdoor ZT S-Micro, up to 24 fibres

A-D2Y Description	1 x m	Fibres number	Sheath Ø mm	Article No. with E9/125 G.652.D BLO
FO Outdoor ZT S-Micro	1 x 4	4	2.4	19343400FZ
FO Outdoor ZT S-Micro	1 x 6	6	2.4	19604800FZ
FO Outdoor ZT S-Micro	1 x 12	12	2.4	19346000FZ
FO Outdoor ZT S-Micro	1 x 24	24	2.4	19343300FZ

FO Outdoor wbKT S-Micro, up to 288 fibres

A-DQ(ZN)2Y Description	n x m	Fibres number	Sheath Ø mm	Article No. with E9/125 G.652.D BLO
FO Outdoor wbKT S-Micro	2 x 12	24	4.2	19269300FZ
FO Outdoor wbKT S-Micro	4 x 12	48	4.2	19215000FZ
FO Outdoor wbKT S-Micro	8 x 12	96	6.6	19215900FZ
FO Outdoor wbKT S-Micro	12 x 12	144	8.2	19709000FZ
FO Outdoor wbKT S-Micro	6 x 24	144	6.5	19450000FZ
FO Outdoor wbKT S-Micro	8 x 24	192	8.4	19339600FZ
FO Outdoor wbKT S-Micro	9 x 24	216	8.4	19262500FZ
FO Outdoor wbKT S-Micro	12 x 24	288	10.4	19600000FZ

FO Outdoor wbKT C-Micro, 72 fibres

A-DQ(ZN)2Y Description	n x m	Fibres number	Sheath Ø mm	Article No. with E9/125 G.652.D BLO200
FO Outdoor wbKT C-Micro	3 x 24	72	4.1	19618000FZ

FO CABLE - MICRO DUCT DIMENSIONS

Cable family	VDE designation	Art. No.	Article	No. of fibres	Fibre type	Sheath Ø [mm]	4	5	5,5	6	8	10	12	14	15	16
ZT S-Micro	**A-D2Y**	19343400FZ	FO Outdoor S-Micro 1x4	4	E9/125 G.652.D BLO	2,4	✓	✓	✓	✓	✓					
		19604800FZ	FO Outdoor S-Micro 1x6	6	E9/125 G.652.D BLO	2,4	✓	✓	✓	✓	✓					
		19346000FZ	FO Outdoor S-Micro 1x12	12	E9/125 G.652.D BLO	2,4	✓	✓	✓	✓	✓					
		19343300FZ	FO Outdoor S-Micro 1x24	24	E9/125 G.652.D BLO	2,4	✓	✓	✓	✓	✓					
wbKT S-Micro	**A-DQ(ZN)2Y**	19269300FZ	FO Outdoor S-Micro 2x12	24	E9/125 G.652.D BLO	4,2			✓	✓	✓					
		19215000FZ	FO Outdoor S-Micro 4x12	48	E9/125 G.652.D BLO	4,2			✓	✓	✓					
		19215900FZ	FO Outdoor S-Micro 8x12	96	E9/125 G.652.D BLO	6,6						✓	✓			
		19709000FZ	FO Outdoor S-Micro 12x12	144	E9/125 G.652.D BLO	8,2							✓	✓	✓	✓
		19450000FZ	FO Outdoor S-Micro 6x24	144	E9/125 G.652.D BLO	6,5						✓	✓			
		19339600FZ	FO Outdoor S-Micro 8x24	192	E9/125 G.652.D BLO	8,4							✓	✓	✓	✓
		19262500FZ	FO Outdoor S-Micro 9x24	216	E9/125 G.652.D BLO	8,4							✓	✓	✓	✓
		19600000FZ	FO Outdoor S-Micro 12x24	288	E9/125 G.652.D BLO	10,4								✓	✓	✓
wbKT C-Micro	**A-DQ(ZN)2Y**	19618000FZ	FO Outdoor C-Micro 3x24	72	E9/125 G.652.D BLO200	4,1			✓	✓	✓	✓				
ZKT Micro	**A-DQ(ZN)2Y**	19170200FZ	FO Outdoor Micro 1x2	2	E9/125 G.652.D BLO	4,0			✓	✓	✓	✓				
		19065800FZ	FO Outdoor Micro 1x4	4	E9/125 G.652.D BLO	4,0			✓	✓	✓	✓				
		19170300FZ	FO Outdoor Micro 1x6	6	E9/125 G.652.D BLO	4,0			✓	✓	✓	✓				
		19170400FZ	FO Outdoor Micro 1x8	8	E9/125 G.652.D BLO	4,0			✓	✓	✓	✓				
		19170500FZ	FO Outdoor Micro 1x10	10	E9/125 G.652.D BLO	4,0			✓	✓	✓	✓				
		19022700FZ	FO Outdoor Micro 1x12	12	E9/125 G.652.D BLO	4,0			✓	✓	✓	✓				
		19123500FZ	FO Outdoor Micro 1x24	24	E9/125 G.652.D BLO	4,0			✓	✓	✓	✓				
wbKT Micro	**A-DQ(ZN)2Y**	19170600FZ	FO Outdoor Micro 1x12	12	E9/125 G.652.D BLO	6,6						✓	✓	✓		
		19008000FZ	FO Outdoor Micro 2x12	24	E9/125 G.652.D BLO	6,6						✓	✓	✓		
		19022900FZ	FO Outdoor Micro 3x12	36	E9/125 G.652.D BLO	6,6						✓	✓	✓		
		19023000FZ	FO Outdoor Micro 4x12	48	E9/125 G.652.D BLO	6,6						✓	✓	✓		
		19023100FZ	FO Outdoor Micro 5x12	60	E9/125 G.652.D BLO	6,6						✓	✓	✓		
		19023200FZ	FO Outdoor Micro 6x12	72	E9/125 G.652.D BLO	6,5						✓	✓	✓		
		19181300FZ	FO Outdoor Micro 8x12	96	E9/125 G.652.D BLO	7,6						✓	✓	✓		
		19181400FZ	FO Outdoor Micro 6x24	144	E9/125 G.652.D BLO	8,2						✓	✓	✓	✓	

Micro duct dimensions (inner diameter)

The information provided is a non-binding recommendation without guarantee.
The achievable blowing-in lengths depend on the installation, equipment and quality of the pipe.

✓ Possible combinations with limited installation lengths
✓ Recommended combinations

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