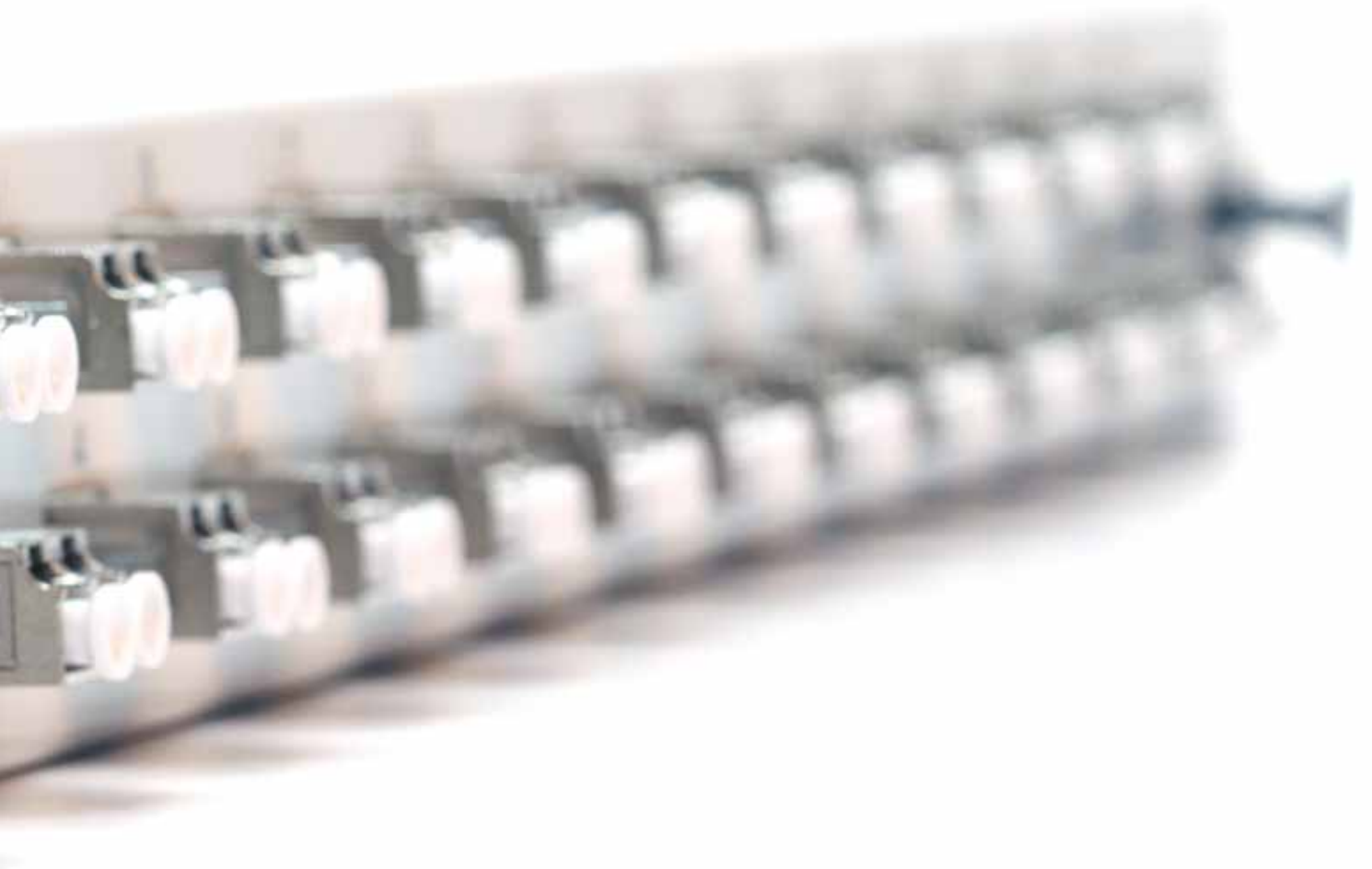


Fiber Optic



Splice Boxes
MTP® / MPO
Subracks 19"
Fiber Wall distributors
Splice distributor
Fiber-Pigtails
Accessories
Fiber-Adapter
Attenuators
Field installable connectors
IP 67 connectors
Connectors

Duplex Jumper
Simplex Jumper
Launching Fiber
Outlets
Ethernet Distances
Trunk Cable pre-assembled
Raw Cable
FTTx
Closures
Fiber Tools
Fiber Checker
Cleaning Sets



- 1 splice cassette with 1 splice holder each per 12 fiber pigtails
- 6 x Self adhesive fiber tray
- Up to 4 splice cassettes adaptable
- Front panel screwed
- Depth adjustable
- Cable entry backside, with 1 x PG16 gland
- Coloured Adapter

Special assembly possible at short notice!



LC Pigtails to LC-Duplex Adapter completely assembled, slideless unit splice box 19" 1U, RAL7035

Art.-No.	Pigtail	Adapter
50/125μ OM2		
B70901.12	12 x LC coloured	6 x LC duplex beige
B70901.24	24 x LC coloured	12 x LC duplex beige
B70901.48	48 x LC coloured	24 x LC duplex beige
50/125μ OM3		
B70901.12OM3	12 x LC coloured	6 x LC duplex aqua
B70901.24OM3	24 x LC coloured	12 x LC duplex aqua
B70901.48OM3	48 x LC coloured	24 x LC duplex aqua
50/125μ OM4		
B70901.12OM4	12 x LC coloured	6 x LC duplex violet
B70901.24OM4	24 x LC coloured	12 x LC duplex violet
B70901.48OM4	48 x LC coloured	24 x LC duplex violet
9/125μ OS2		
B70921.12	12 x LC/UPC coloured	6 x LC duplex blue
eB70921.24	24 x LC/UPC coloured	12 x LC duplex blue
B70921.48	48 x LC/UPC coloured	24 x LC duplex blue

further options

B70901TS.xx	with splice box in black RAL9005
B70911.xx	with OM1 62,5/125 μ Pigtails
BA70901.xx	with splice box ready to splice (s. S.14)

LC Pigtails to LC-Duplex Adapter completely assembled, sliding unit splice box 19" 1U, RAL7035

Art.-No.	Pigtail	Adapter
50/125μ OM2		
B71901.12	12 x LC coloured	6 x LC duplex beige
B71901.24	24 x LC coloured	12 x LC duplex beige
B71901.48	48 x LC coloured	24 x LC duplex beige
50/125μ OM3		
B71901.12OM3	12 x LC coloured	6 x LC duplex aqua
B71901.24OM3	24 x LC coloured	12 x LC duplex aqua
B71901.48OM3	48 x LC coloured	24 x LC duplex aqua
50/125μ OM4		
B71901.12OM4	12 x LC coloured	6 x LC duplex violet
B71901.24OM4	24 x LC coloured	12 x LC duplex violet
B71901.48OM4	48 x LC coloured	24 x LC duplex violet
9/125μ OS2		
B71921.12	12 x LC/UPC coloured	6 x LC duplex blue
B71921.24	24 x LC/UPC coloured	12 x LC duplex blue
B71921.48	48 x LC/UPC coloured	24 x LC duplex blue

further options

B71901TS.xx	with splice box in black RAL9005
B71911.xx	with OM1 62,5/125 μ Pigtails
BA71901.xx	with splice box ready to splice (s. S.14)



- 1 splice cassette with 1 splice holder each per 12 fiber pigtails
- 6 x Self adhesive fiber tray
- Up to 4 splice cassettes adaptable
- Front panel screwed
- Depth adjustable
- Cable entry backsided, with 1 x PG16 gland
- Metal Adapter

Special assembly possible at short notice!



← depth adjustable! →

LC Pigtails to LC-Duplex Adapter completely assembled, slideless unit splice box 19" 1U, RAL7035

Art.-No.	Pigtail	Metal Adapter
50/125μ OM2		
B70902.12	12 x LC coloured	6 x LC duplex
B70902.24	24 x LC coloured	12 x LC duplex
B70902.48	48 x LC coloured	24 x LC duplex
B70902V.48	48 x LC coloured	24 x LC duplex shifted
50/125μ OM3		
B70902.12OM3	12 x LC coloured	6 x LC duplex
B70902.24OM3	24 x LC coloured	12 x LC duplex
B70902.48OM3	48 x LC coloured	24 x LC duplex
B70902V.48OM3	48 x LC coloured	24 x LC duplex shifted
50/125μ OM4		
B70902.12OM4	12 x LC coloured	6 x LC duplex
B70902.24OM4	24 x LC coloured	12 x LC duplex
B70902.48OM4	48 x LC coloured	24 x LC duplex
B70902V.48OM4	48 x LC coloured	24 x LC duplex shifted
9/125μ OS2		
B70922.12	12 x LC/UPC coloured	6 x LC duplex
B70922.24	24 x LC/UPC coloured	12 x LC duplex
B70922.48	48 x LC/UPC coloured	24 x LC duplex
B70922V.48	48 x LC/UPC coloured	24 x LC duplex shifted

further options

B70902TS.xx	with splice box in black RAL9005
B70912.xx	with OM1 62,5/125 μ Pigtails
BA70902.xx	with splice box ready to splice (s. S.14)

LC Pigtails to LC-Duplex Adapter completely assembled, sliding unit splice box 19" 1U, RAL7035

Art.-No.	Pigtail	Metal Adapter
50/125μ OM2		
B71902.12	12 x LC coloured	6 x LC duplex
B71902.24	24 x LC coloured	12 x LC duplex
B71902.48	48 x LC coloured	24 x LC duplex
B71902V.48	48 x LC coloured	24 x LC duplex shifted
50/125μ OM3		
B71902.12OM3	12 x LC coloured	6 x LC duplex
B71902.24OM3	24 x LC coloured	12 x LC duplex
B71902.48OM3	48 x LC coloured	24 x LC duplex
B71902V.48OM3	48 x LC coloured	24 x LC duplex shifted
50/125μ OM4		
B71902.12OM4	12 x LC coloured	6 x LC duplex
B71902.24OM4	24 x LC coloured	12 x LC duplex
B71902.48OM4	48 x LC coloured	24 x LC duplex
B71902V.48OM4	48 x LC coloured	24 x LC duplex shifted
9/125μ OS2		
B71922.12	12 x LC/UPC coloured	6 x LC duplex
B71922.24	24 x LC/UPC coloured	12 x LC duplex
B71922.48	48 x LC/UPC coloured	24 x LC duplex
B71922V.48	48 x LC/UPC coloured	24 x LC duplex shifted

further options

B71902TS.xx	with splice box in black RAL9005
B71912.xx	with OM1 62,5/125 μ Pigtails
BA71902.xx	with splice box ready to splice (s. S.14)



- 1 splice cassette with 1 splice holder each per 12 fiber pigtails
 - 6 x Self adhesive fiber tray
 - Up to 4 splice cassettes adaptable
 - Front panel screwed
 - Depth adjustable
 - Cable entry backsided, with 1 x PG16 gland
 - Plastic Adapter
- Special assembly possible at short notice!



E2000®/APC Pigtails to E2000®/APC Adapter completely assembled, slideless unit splice box 19" 1U, RAL7035

Art.-No.	Pigtail	Adapter
50/125µ OM2		
B70503.12	12 x E2000°	12 x E2000°
B70503.24	24 x E2000°	24 x E2000°
50/125µ OM3		
B70503.12OM3	12 x E2000°	12 x E2000°
B70503.24OM3	24 x E2000°	24 x E2000°
50/125µ OM4		
B70503.12OM4	12 x E2000°	12 x E2000°
B70503.24OM4	24 x E2000°	24 x E2000°
9/125µ OS2		
B70533.12	12x E2000°/APC coloured	12 x E2000° green
B70533.24	24 x E2000°/APC coloured	24 x E2000° green

further options

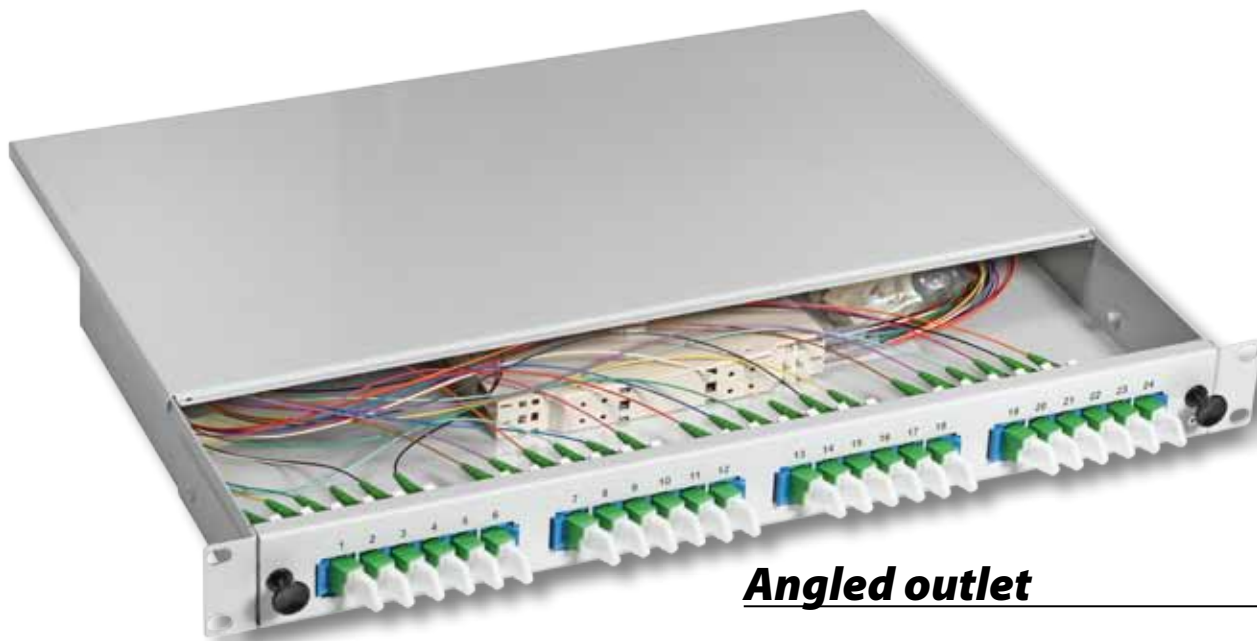
B70503TS.xx	with splice box in black RAL9005
B70513.xx	with OM1 62,5/125µ Pigtails
BA70503.xx	with splice box ready to splice (s. S.14)

E2000®/APC Pigtails to E2000®/APC Adapter completely assembled, sliding unit splice box 19" 1U, RAL7035

Art.-No.	Pigtail	Adapter
50/125µ OM2		
B71503.12	12 x E2000°	12 x E2000°
B71503.24	24 x E2000°	24 x E2000°
50/125µ OM3		
B71503.12OM3	12 x E2000°	12 x E2000°
B71503.24OM3	24 x E2000°	24 x E2000°
50/125µ OM4		
B71503.12OM4	12 x E2000°	12 x E2000°
B71503.24OM4	24 x E2000°	24 x E2000°
9/125µ OS2		
B71533.12	12x E2000°/APC coloured	12 x E2000° green
B71533.24	24 x E2000°/APC coloured	24 x E2000° green

further options

B71503TS.xx	with splice box in black RAL9005
B71513.xx	with OM1 62,5/125µ Pigtails
BA71503.xx	with splice box ready to splice (s. S.14)



Angled outlet

- 1 splice cassette with 1 splice holder each per 12 fiber pigtails
 - 6 x Self adhesive fiber tray
 - Up to 4 splice cassettes adaptable
 - Front panel screwed
 - Depth adjustable
 - Cable entry backsided, with 1 x PG16 gland
 - 24 Plastic Adapter angled
- Special assembly possible at short notice!*



E2000®/APC Pigtails to E2000®/APC Adapter Angled completely assembled, slideless unit splice box 19" 1U, RAL7035

Art.-No.	Pigtail	Adapter
9/125µ OS2		
B70533SA.24	24 x E2000®/APC coloured	24 x E2000® green

further options

B70533SATS.24	with splice box in black RAL9005	
BA70533SA.24	with splice box ready to splice (s. S.14)	

E2000®/APC Pigtails to E2000®/APC Adapter Angled completely assembled, sliding unit splice box 19" 1U, RAL7035

Art.-No.	Pigtail	Adapter
9/125µ OS2		
B71533SA22	24 x E2000®/APC coloured	24 x E2000® green

further options

B71533SATS.24	with splice box in black RAL9005	
BA71533SA.24	with splice box ready to splice (s. S.14)	



- 1 splice cassette with 1 splice holder each per 12 fiber pigtails
- 6 x Self adhesive fiber tray
- Up to 4 splice cassettes adaptable
- Front panel screwed
- Depth adjustable
- Cable entry backsided, with 1 x PG16 gland
- Coloured Adapter

Special assembly possible at short notice!
ST Pigtails to SC/ST-Duplex adapter on request!



SC Pigtails to SC-Duplex Adapter completely assembled, slideless unit splice box 19" 1U, RAL7035

Art.-No.	Pigtail	Adapter
50/125μ OM2		
B70203.12	12 x SC coloured	6 x SC duplex beige
B70203.24	24 x SC coloured	12 x SC duplex beige
B70203.48	48 x SC coloured	24 x SC duplex beige
50/125μ OM3		
B70203.12OM3	12 x SC coloured	6 x SC duplex aqua
B70203.24OM3	24 x SC coloured	12 x SC duplex aqua
B70203.48OM3	48 x SC coloured	24 x SC duplex aqua
50/125μ OM4		
B70203.12OM4	12 x SC coloured	6 x SC duplex violet
B70203.24OM4	24 x SC coloured	12 x SC duplex violet
B70203.48OM4	48 x SC coloured	24 x SC duplex violet
9/125μ OS2		
B70223.12	12 x SC coloured	6 x SC duplex blue
B70223.24	24 x SC coloured	12 x SC duplex blue
B70223.48	48 x SC coloured	24 x SC duplex blue

further options

B70203TS.xx	with splice box in black RAL9005
B70213.xx	with OM1 62,5/125μ Pigtails
BA70203.xx	with splice box ready to splice (s. S.14)

SC Pigtails to SC-Duplex Adapter completely assembled, sliding unit splice box 19" 1U, RAL7035

Art.-No.	Pigtail	Adapter
50/125μ OM2		
B71203.12	12 x SC coloured	6 x SC duplex beige
B71203.24	24 x SC coloured	12 x SC duplex beige
B71203.48	48 x SC coloured	24 x SC duplex beige
50/125μ OM3		
B71203.12OM3	12 x SC coloured	6 x SC duplex aqua
B71203.24OM3	24 x SC coloured	12 x SC duplex aqua
B71203.48OM3	48 x SC coloured	24 x SC duplex aqua
50/125μ OM4		
B71203.12OM4	12 x SC coloured	6 x SC duplex violet
B71203.24OM4	24 x SC coloured	12 x SC duplex violet
B71203.48OM4	48 x SC coloured	24 x SC duplex violet
9/125μ OS2		
B71223.12	12 x SC coloured	6 x SC duplex blue
B71223.24	24 x SC coloured	12 x SC duplex blue
B71223.48	48 x SC coloured	24 x SC duplex blue

further options

B71203TS.xx	with splice box in black RAL9005
B71213.xx	with OM1 62,5/125μ Pigtails
BA71203.xx	with splice box ready to splice (s. S.14)



- 1 splice cassette with 1 splice holder each per 12 fiber pigtails
- 6 x Self adhesive fiber tray
- Up to 4 splice cassettes adaptable
- Front panel screwed
- Depth adjustable
- Cable entry backsided, with 1 x PG16 gland
- Metal Adapter

Special assembly possible at short notice!



ST Pigtails to ST Adapter completely assembled, slideless unit splice box 19" 1U, RAL7035

Art.-No.	Pigtail	Adapter
50/125μ OM2		
B70006.12	12 x ST coloured	12 x ST/ST
B70006.24	24 x ST coloured	24 x ST/ST
50/125μ OM3		
B70006.12OM3	12 x ST coloured	12 x ST/ST
B70006.24OM3	24 x ST coloured	24 x ST/ST
50/125μ OM4		
B70006.12OM4	12 x ST coloured	12 x ST/ST
B70006.24OM4	24 x ST coloured	24 x ST/ST
9/125μ OS2		
B70023.6	6 x ST coloured	6 x ST/ST
B70023.12	12 x ST coloured	12 x ST/ST
B70023.24	24 x ST coloured	24 x ST/ST
further options		
B70006TS.xx	with splice box in black RAL9005	
B70016.xx	with OM1 62,5/125 μ Pigtails	
BA70006.xx	with splice box ready to splice (s. S.14)	

ST Pigtails to ST-Adapter completely assembled, sliding unit splice box 19" 1U, RAL7035

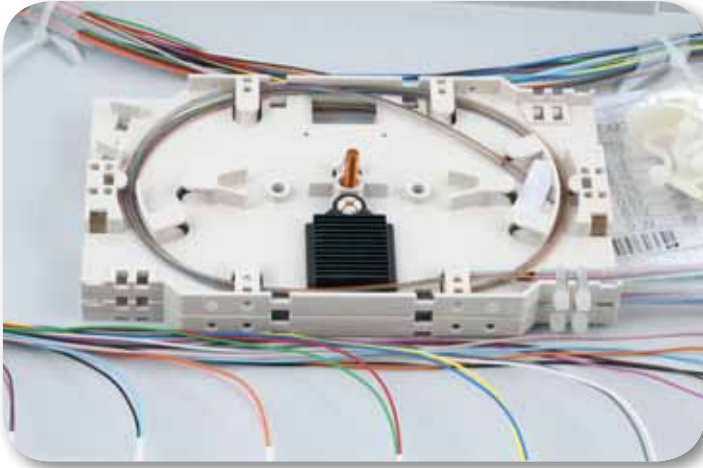
Art.-No.	Pigtail	Adapter
50/125μ OM2		
B71006.12	12 x ST coloured	12 x ST/ST
B71006.24	24 x ST coloured	24 x ST/ST
50/125μ OM3		
B71006.12OM3	12 x ST coloured	12 x ST/ST
B71006.24OM3	24 x ST coloured	24 x ST/ST
50/125μ OM4		
B71006.12OM4	12 x ST coloured	12 x ST/ST
B71006.24OM4	24 x ST coloured	24 x ST/ST
9/125μ OS2		
B71023.6	6 x ST coloured	6 x ST/ST
B71023.12	12 x ST coloured	12 x ST/ST
B71023.24	24 x ST coloured	24 x ST/ST
further options		
B71006TS.xx	with splice box in black RAL9005	
B71016.xx	with OM1 62,5/125 μ Pigtails	
BA71006.xx	with splice box ready to splice (s. S.14)	

Splice boxes 19"/1U completely assembled and ready to splice

Key to order for splice box ready to splice:

Every splice box completely assembled is also available for ready to splice.



Please add a simple **A** to item number B71902.48 to get **BA71902.48** for a splice box prepared and ready to splice.



LC Pigtails to LC-Adapter completely assembled, sliding unit splice box 19" 1U, RAL7035, ready to splice

Art.-No.	Bezeichnung
BA71902.48	Splice box 24LC-Duplex completely assembled, ready to splice

Colour code DIN VDE0888

											
RD	GN	BL	YE	WT	GR	BN	VT	TQ	BK	OR	PK
1: RD	2: GN	3: BL	4: YE	5: WT	6: GR	7: BN	8: VT	9: TQ	10: BK	11: OR	12: PK

Ready to splice, prepared for splicing:

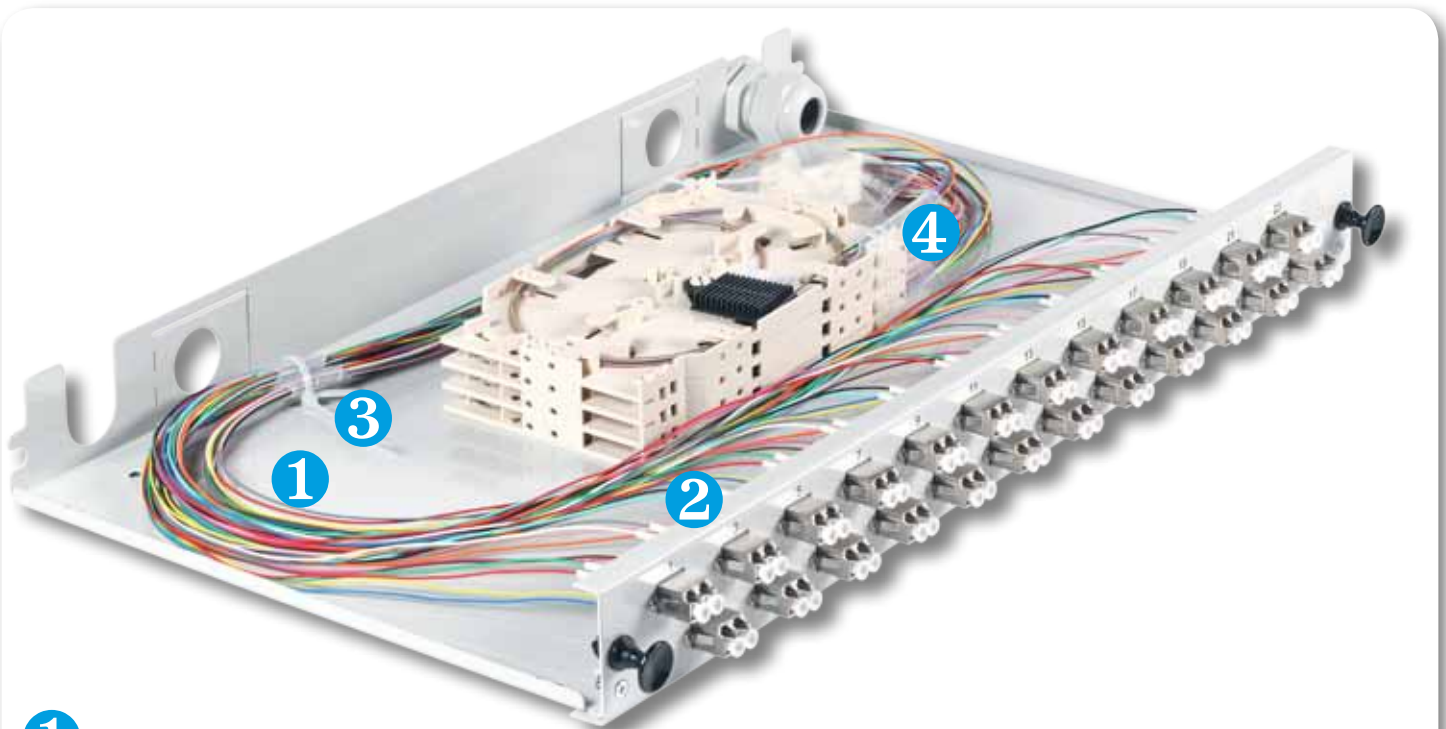
coloured Pigtails are mated acc. to colour code DIN VDE0888.

Fibers are routed accurately by fibre management and are placed in splice cassette.

Secondary buffer (900µ) of inserted fibres is stripped and length adjusted.

Primary buffered fibers (250µ) inside of splice cassette are routed and shorted to same lengths.

Colour coded primary buffered fibers (250µ) allow fast and easy identification.



- 1** Pigtails with colour colour coded primary and secondary buffer.
- 2** Mated connectors acc. to colour code DIN VDE0888.
- 3** Accurate management of coloured pigtail-fibers.
- 4** Shorted and stripped fibers are placed in splice cassette.

Splice boxes 19"/1 - 3 U „Highend“

telescopic pull-out

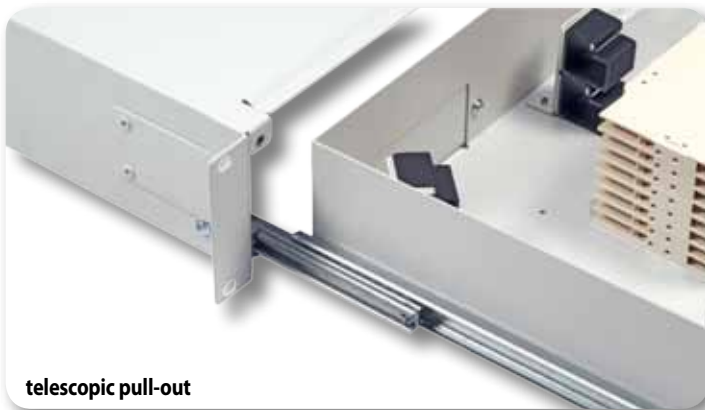
captive thumb screws

shifted adapter

multiple fiber management



captive thumb screw



telescopic pull-out



1 U



2 U



3 U

Art.-No.	Description
1U	
53612.1V2	Splice box 19"/1U, telescopic pull-out, 24 x LC duplex, E2000® simplex, SC simplex
2U	
53612.2V2	Splice box 19"/2U, telescopic pull-out, 48 x LC duplex, E2000® simplex, SC simplex
3U	
53612.3V2	Splice box 19"/3U, telescopic pull-out, 72 x LC duplex, E2000® simplex, SC simplex

- sliding unit with telescopic pull-out
- quick lock with captive screw
- 1-level fiber tray 1U, max. 4 cassettes
- 2-level fiber tray 2U, max. 8 cassettes
- 3-level fiber tray 3U, max. 12 cassettes
- material steel sheet 1.5 mm
- colour RAL7035, light grey
- front panel screwed, unassembled
- one 45°-cable entry back sided, prepared for M25
- cable fixing clamp
- delivery unassembled

Also assembled available!

Art.-No.	Description
102251	cable entry 45° prepared for M25, suitable for 53612.1V2, 53612.2V2 and 53612.3V2



depth adjustable
telescopic pull-out
quick lock

Splice box 19" 1U, with telescopic pull-out and quick lock

Art.-No.	Description
53640TS.1	24 ST or FC (D-hole)
53640TS.2	12 ST or FC (D-hole)
53640TS.3	24 SC duplex vertical
53640TS.4	12 SC duplex vertical
53640TS.9	12 SC simplex, LC duplex
53640TS.10	24 SC simplex, LC duplex
53640TS.11	12 E2000® simplex
53640TS.12	24 E2000® simplex

- sliding unit with telescopic pull-out, depth adjustable up to 60 mm
- unassembled
- steel sheet 1.5 mm
- colour RAL9005, black
- dimensions (W x H x D) 483 x 44.5 x 280 mm
- 6 x adhesive fiber tray
- cable entry back sided, prepared for cable gland PG16/M20



depth adjustable
telescopic pull-out
2-keylock-security-system



Splice box 19" 1U, with telescopic pull-out and 2-keylock-system

Art.-No.	Description
53641TS.1	24 ST or FC (D-hole)
53641TS.2	12 ST or FC (D-hole)
53641TS.3	24 SC duplex vertical
53641TS.4	12 SC duplex vertical
53641TS.9	12 SC simplex, LC duplex
53641TS.10	24 SC simplex, LC duplex
53641TS.11	12 E2000® simplex
53641TS.12	24 E2000® simplex

- sliding unit with telescopic pull-out, depth adjustable up to 60 mm
- unassembled
- steel sheet 1.5 mm
- colour RAL9005, black
- dimensions (W x H x D) 483 x 44.5 x 280 mm
- 6 x adhesive fiber tray
- cable entry back sided, prepared for cable gland PG16/M20



Splice box 19" 1U without front panel, RAL7035, sliding unit and slideless unit, combinable with all front panels

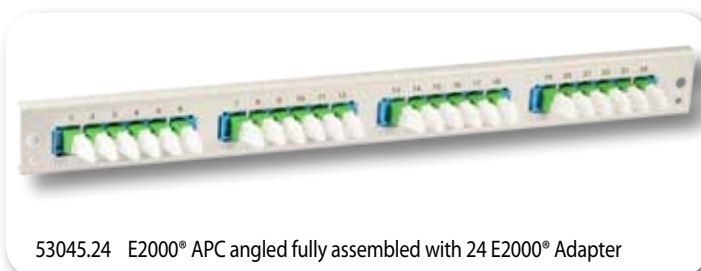
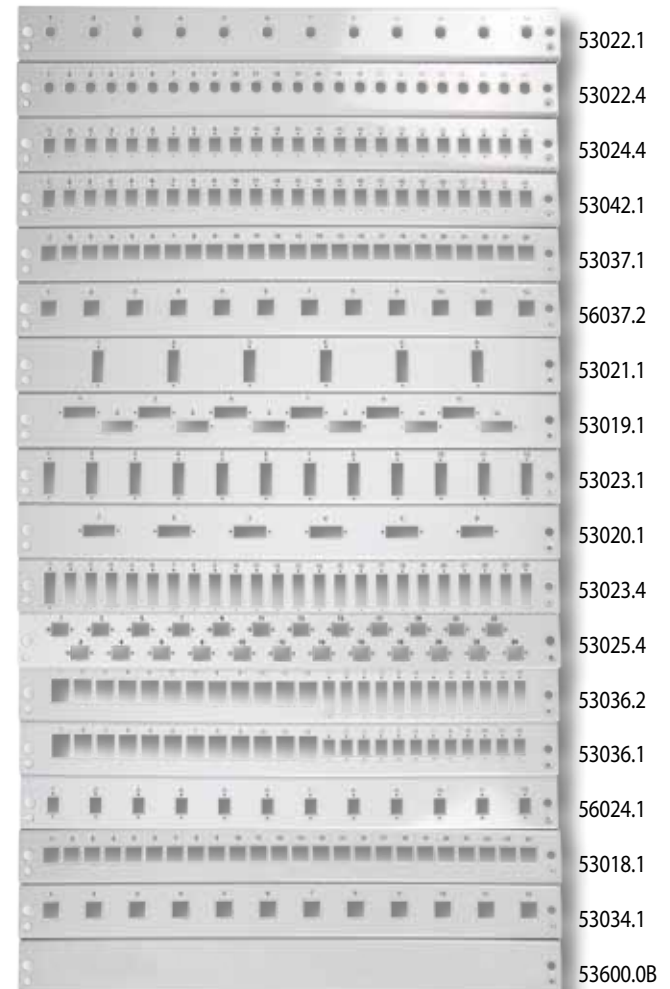
Art.-No.	Type
53601.0	Splice box 19" 1U, unassembled
53600.0	Splice box 19" 1U, unassembled

- steel sheet 1.5 mm
- with cover nut (Article 80555.1) for max. 4 splice cassettes
- cable entry backsided, prepared for PG16/M20
- Dimensions (W) x (H) x (D) 483 x 44.5 x 244 mm



Front panel 1U for splice boxes RAL7035 light grey

Art.-No.	Type
53022.1	12 ST or FC (D-hole)
53022.4	24 ST or FC (D-hole)
53024.4	24 LC duplex, E2000° simplex, SC simplex
53042.1	24 MTP / MPO
53037.1	24 LC duplex square-cut
53037.2	12 LC duplex square-cut
53021.1	6 SC duplex, LC quad vertical
53019.1	12 SC duplex, LC quad horizontally shifted
53023.1	12 SC duplex, LC quad vertical
53020.1	6 SC duplex, LC quad horizontal
53023.4	24 SC duplex, LC quad vertical
53025.4	24 LC duplex, E2000° simplex, SC simplex horizontally shifted
53036.2	12 Keystone + 12 SC duplex vertical (LC quad)
53036.1	12 Keystone + 12 LC duplex, E2000° simplex, SC simplex
53024.1	12 LC duplex, E2000° simplex, SC simplex
53018.1	6 LC duplex, E2000° simplex, SC simplex
53034.1	12 E2000° Duplex Compact (RdM)
53600.0B	Dummy plate
53045.24	E2000° APC angled fully assembled with 24 E2000° Adapter



Splice box 19" 1U, slideless unit, depth adjustable RAL7035 light grey, RAL9005 black

Art.-No.	RAL9005	Type
53601.1	53601TS.1	24 ST or FC (D-hole)
53601.2	53601TS.2	12 ST or FC (D-hole)
53601.3	53601TS.3	24 SC duplex vertical
53601.4	53601TS.4	12 SC duplex vertical
53601.6	53601TS.6	6 SC duplex vertical
53601.7	53601TS.7	6 SC duplex horizontal
53601.8	53601TS.8	12 SC duplex horizontally shifted
53601.9	53601TS.9	12 LC duplex, E2000® simplex, SC simplex
53601.10	53601TS.10	24 LC duplex, E2000® simplex, SC simplex
53601.16	53601TS.16	12 LC duplex square-cut
53601.17	53601TS.17	24 LC duplex square-cut

- slideless unit, unassembled
- depth adjustable
- steel sheet 1.5 mm
- colour RAL7035 (53601.x) / RAL9005 (53601TS.x)
- dimensions (W) x (H) x (D) 483 x 44.5 x 244 mm
- 6 x adhesive fiber tray
- front panel screwed
- with cover nut (Article 80555.1) for max. 4 splice cassettes
- cable entry backsided, prepared for PG16/M20



Splice box 19" 1U, slideless unit, depth adjustable RAL7035 light grey, RAL9005 black

Art.-No.	RAL9005	Type
53601.1	53600TS.1	24 ST or FC (D-hole)
53601.2	53600TS.2	12 ST or FC (D-hole)
53601.3	53600TS.3	24 SC duplex vertical
53601.4	53600TS.4	12 SC duplex vertical
53601.6	53600TS.6	6 SC duplex vertical
53601.7	53600TS.7	6 SC duplex horizontal
53601.8	53600TS.8	12 SC duplex horizontally shifted
53601.9	53600TS.9	12 LC duplex, E2000® simplex, SC simplex
53601.10	53600TS.10	24 LC duplex, E2000® simplex, SC simplex
53601.16	53600TS.16	12 LC duplex square-cut
53601.17	53600TS.17	24 LC duplex square-cut

- sliding unit, unassembled
- depth adjustable
- steel sheet 1.5 mm
- colour RAL7035 (53601.x) / RAL9005 (53601TS.x)
- dimensions (W) x (H) x (D) 483 x 44.5 x 244 mm
- 6 x adhesive fiber tray
- front panel screwed
- with cover nut (Article 80555.1) for max. 4 splice cassettes
- cable entry backsided, prepared for PG16/M20





Splice box 19" 2U, slideless unit

Art.-No.	Type
53602.1	48 ST or FC (D-hole)
53602.2	24 ST or FC (D-hole)
53602.3	48 SC duplex vertical
53602.4	24 SC duplex vertical

- Slideless unit
- Unassembled
- Steel sheet 1.5 mm
- RAL7035
- Dimensions (W) x (H) x (D) 483 x 89.0 x 244 mm
- For max. 8 splice cassettes
- Cable entry backsided, prepared for PG16
- 6 x self-adhesive fiber tray
- Front panel screwed
- Also available assembled



Splice box 19" 3U, slideless unit

Art.-No.	Type
53609.1	72 ST or FC (D-hole)
53609.3	72 SC duplex

- Slideless unit
- Unassembled
- Steel sheet 1.5 mm
- RAL7035
- Dimensions (W) x (H) x (D) 483 x 135.0 x 244 mm
- For max. 12 splice cassettes
- Cable entry backsided, prepared for PG16/M20
- 6 x self-adhesive fiber tray
- Front panel screwed
- Also available assembled



Splice box 19" 2U, sliding unit

Art.-No.	Type
53610.1	48 ST or FC (D-hole)
53610.2	24 ST or FC (D-hole)
53610.3	48 SC duplex vertical
53610.4	24 SC duplex vertical
53610.5	24 SC duplex horizontal
53610.8	48 LC duplex, E2000® simplex, SC simplex
53610.9	24 E2000® simplex (2x12)

- Sliding unit
- Unassembled
- Steel sheet 1.5 mm
- RAL7035
- Dimensions (W) x (H) x (D) 483 x 89.0 x 244 mm
- For max. 10 splice cassettes
- 6 x self-adhesive fiber tray
- Front panel/sliding with quick lock
- Cable entry backsided, prepared for PG16/M20
- Also available assembled



This overlengthbox characterizes an intelligent fiber/cable-routing. An unique cable guiding and the rotating deflection elements realize an excellent cable management. This overlengthbox stands for the handling with too long patchcables.

Holding capacity:

Cable	Capacity
3,0mm	32 cable-lengths 2,5m
2,0mm	48 cable-lengths 2,5m
1,6mm	60 cable-lengths 2,5m

Cable Overlengthbox 19" 1U sliding unit, RAL9005

Art.-No.	Type
691639TS	Cable overlengthbox 19" 1U, sliding unit, RAL9005

- Safe and easy cable feeding
- Cable entry right, left or both-sided
- Bending radius limiter for any application
- Frontsided labelling possible
- Telescopic sliding unit
- Input/output plastic deflection
- Dimensions (W)x(H)x(D) 440 x 45 x 280mm



53010.5



KVT25/17



53026.1

53025.1

53030.1

53028.1

Standard and special cable glands

Art.-No.	Type	PU
53010.5	Cable gland PG16, PVC, incl. PVC nuts	50
53012.1	Metric M20 polyamide, incl. lock nut, also fits in PG16	50
KVT25/17	Seperable cable gland + nut M25, 17 mm inner diameter	10

Dust Covers

Art.-No.	Type	PU
53026.1	for LC duplex, E2000® simplex, SC simplex holes	100
53028.1	for SC duplex, LC quad, ST duplex holes	100
53025.1	for ST or FC (D-hole)	100
53030.1	for LC duplex square-cut holes	100



MTP® / MPO

Structured cabling for datacenter



MTP/MPO provides a modular system for high flexibility and rapid reaction to changes in cabling, standardised per IEC61754-7, TIA 604-5A.

The applications are alongside the serial 10 Gigabit the parallel optical 40 Gigabit and 100 Gigabit Ethernet, Fibre Channel and Infiniband.

The IEEE802.3ba standard, 40GBASE-SR4 and 100GBASE-SR10, stipulate the following values (amongst others):

an OM3 channel can be 100m long and the channel attenuation can be up to 1.9dB, whereby only 1.5dB is permitted from connectors and splices.

An OM4 channel can be 150m long and the channel attenuation can be up to 1.5dB, whereby only 1.0dB is permitted from connectors and splices.

We already take this very tight attenuation allowance into consideration today, for example, with the LowLoss Fanout cassettes, which exhibit around 0.35dB instead of 1.0dB.

The following pages show two different solutions:

1. A high quality distribution box with telescopic pull-out, with a distribution panel for max. 8 x MTP / MPO – adapter.

Thus, up to 96 fibres can be distributed per 1HE. The 900µm Fanout cable converts MTP/MPO to LC or SC mating faces.

2. On the other hand the cassette-based solution with up to 72 fibres per U. Three completely assembled cassettes as Fanout units in a distribution box round off the cabling system.

The preassembled, factory-tested MTP/MPO trunk cables are fitted with the premium cable divider and can thus be simply installed in M25 holes or PG16 U-holes.

The MTP/MPO cabling principle competes with the conservative, long-standing trunks with LC or SC connectors. In doing so advantages such as packaging density, plug & play and simple adaptation of different connectors with higher attenuation characteristics are also yielded.

MPO = MTP, MPO: Multi Fiber Push On, MTP: Multi Termination Plug
MTP is registered trademark of US-Conec Ltd.



Distribution box for assembled MTP/MPO-cassettes with quick lock

Art.-No.	Front panel	Drawer	Colour
DC53600TS.MTP	3 x mounting hole	quick lock	RAL9005

Accessories

Art.-No.	Description
DCBK80000	Dummy plate RAL9005

- sliding unit distribution box for 3 cassettes
- front panel / sliding with quick lock
- unassembled
- 19" 1U steel sheet 1.5 mm
- 6 x adhesive fiber trays
- 2 cable entries back sided, prepared for M25
- dimensions (B) x (H) x (T) 483 x 44.5 x 244 mm



Completely assembled MTP/MPO-Fanout cassettes LowLoss

Art.-No.	MTP/MPO	Adapter violet	OM4 Fanout 900µm
DCBK81213.12LL	1	6 x SC duplex	1 MTP(M) / 12 x SC coloured
DCBK81912.12LL	1	6 x LC duplex	2 MTP(M) / 12 x LC coloured
DCBK81913.24LL	2	6 x LC quad	2 MTP(M) / 12 x LC coloured
Art.-No.	MTP/MPO	Adapter aqua	OM3 Fanout 900µm
DCBK81213.12OM3	1	6 x SC duplex	1 MTP(M) / 12 x SC coloured
DCBK81912.12OM3	1	6 x LC duplex	2 MTP(M) / 12 x LC coloured
DCBK81913.24OM3	2	6 x LC quad	2 MTP(M) / 12 x LC coloured
Art.-No.	MTP/MPO	Adapter blue	OS2 Fanout 900µm
DCBK81223.12OS2	1	6 x SC duplex	1 MTP(M) / 12 x SC coloured
DCBK81922.12OS2	1	6 x LC duplex	2 MTP(M) / 12 x LC coloured
DCBK81923.24OS2	2	6 x LC quad	2 MTP(M) / 12 x LC coloured

- MTP/MPO-Male Fanout units 900µm coloured in OM3, OM4 or OS2
- SC or LC-adapter in OM3 aqua, OM4 violet or OS2 blue
- LowLoss description means: attenuation per cassette max. 0,35dB
- MTP/MPO-adapter
- quick lock



MTP®/MPO Distribution box LowLoss

Completely assembled distribution boxes with telescopic pull-out MTP/MPO Fanout to SC-Duplex, LC-Duplex or LC-Quad

Art.-No.	Fanout OM4 LowLoss	Adapter	MPO
DCBT81203.24	2 x MTP / 12 x SC	12 x SC duplex	2
DCBT81203.48	4 X MTP / 12 x SC	24 x SC duplex	4
DCBT81902.24	2 X MTP / 12 x LC	12 x LC duplex	2
DCBT81902.48	4 X MTP / 12 x LC	24 x LC duplex	4
DCBT81902.96	2 X MTP / 12 x LC	24 x LC quad	8

Art.-No.	Fanout OM3 LowLoss	Adapter	MPO
DCBT81203.24OM3	2 x MTP / 12 x SC	12 x SC duplex	2
DCBT81203.48OM3	4 X MTP / 12 x SC	24 x SC duplex	4
DCBT81902.24OM3	2 X MTP / 12 x LC	12 x LC duplex	2
DCBT81902.48	4 X MTP / 12 x LC	24 x LC duplex	4
DCBT81902.96	2 X MTP / 12 x LC	24 x LC quad	8

Art.-No.	Fanout OS2 LowLoss	Adapter	MPO
DCBT81203.24OS2	2 x MTP / 12 x SC	12 x SC duplex	2
DCBT81203.48OS2	4 X MTP / 12 x SC	24 x SC duplex	4
DCBT81902.24OS2	2 X MTP / 12 x LC	12 x LC duplex	2
DCBT81902.48	4 X MTP / 12 x LC	24 x LC duplex	4
DCBT81902.96	2 X MTP / 12 x LC	24 x LC quad	8



900µm MPO (Male) Fanout LowLoss

- telescopic pull-out
- depth adjustable up to 60 mm
- 19" 1U RAL9005
- front panel / sliding with quick lock
- dimensions (W) x (H) x (D) 483 x 44.5 x 280 mm
- cable entry back sided, prepared for M25



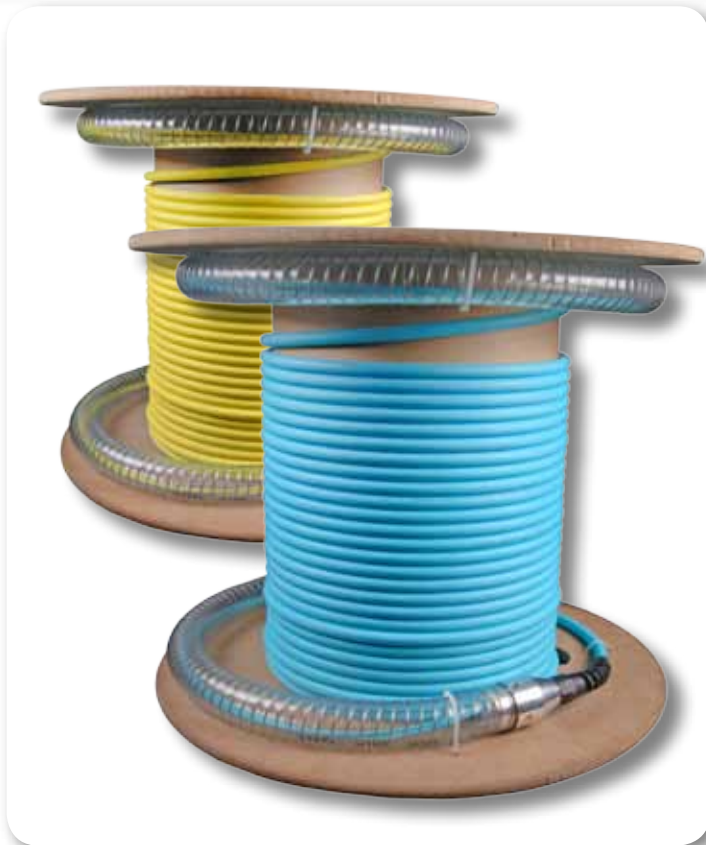
distribution plate for 8 x MTP®/MPO



MTP®/MPO Adapter

Completely assembled with:

- adapter LC duplex, LC quad or SC duplex
- distribution plate for 8 x MTP/MPO adapter
- MTP/MPO adapter
- LowLoss Fanout 900µm MTP/MPO-Male to 12 x LC or 12 x SC, Länge 40cm
- fiber quality OM4, OM3 or OS2 acc.to colour code DIN VDE 0888
- LowLoss description means: attenuation per Fanout max. 0,35dB
- 6 x adhesive fiber trays



MTP®/MPO-Female Mini-Breakout Trunk Cable1:1

- both-sided Premium cable divider plus cable gland
- delivery: one way drum with both-sided protection tube
- cable colours: OM4 and OM3 aqua, OS2 yellow
- available lengths from 10m to 150m in 10m steps

Art.-No.	MTP/MPO female	Fibers	Furcation length
DCIB12MTP.x	2 x both-sides	24 x OM4	600 mm
DCOMTP36.x	3 x both-sides	36 x OM4	600 mm
DCOMTP48.x	4 x both-sides	48 x OM4	600 mm
DCOMTP72.x	6 x both-sides	72 x OM4	600 mm
DCOMTP96.x	8 x both-sides	96 x OM4	600 mm

Art.-No.	MTP/MPO female	Fibers	Furcation length
DCIB12YMTP.x	2 x both-sides	24 x OM3	600 mm
DCOMTP36.x	3 x both-sides	36 x OM3	600 mm
DCOMTP48.x	4 x both-sides	48 x OM3	600 mm
DCOMTP72.x	6 x both-sides	72 x OM3	600 mm
DCOMTP96.x	8 x both-sides	96 x OM3	600 mm

Art.-No.	MTP/MPO female	Fibers	Furcation length
DCIB12SMTTP.x	2 x both-sides	24 x OS2	600 mm
DCOMTP36.x	3 x both-sides	36 x OS2	600 mm
DCOMTP48.x	4 x both-sides	48 x OS2	600 mm
DCOMTP72.x	6 x both-sides	72 x OS2	600 mm
DCOMTP96.x	8 x both-sides	96 x OS2	600 mm



MTP®/MPO-Female Patchcable OM4, OM3 and OS2 LowLoss

Art.-No.	MTP/MPO female	Fiber
DCIB4XMTP.x	1 x both-sides	OM4
DCIB4YMTP.x	1 x both-sides	OM3
DCIB4SMTTP.x	1 x both-sides	OS2

- colours: OM4 and OM3 aqua, OS2 yellow
- available lengths from 10m to 150m in 10m steps



MTP®/MPO-Female Fanout cable OM4, OM3 and OS2 LowLoss

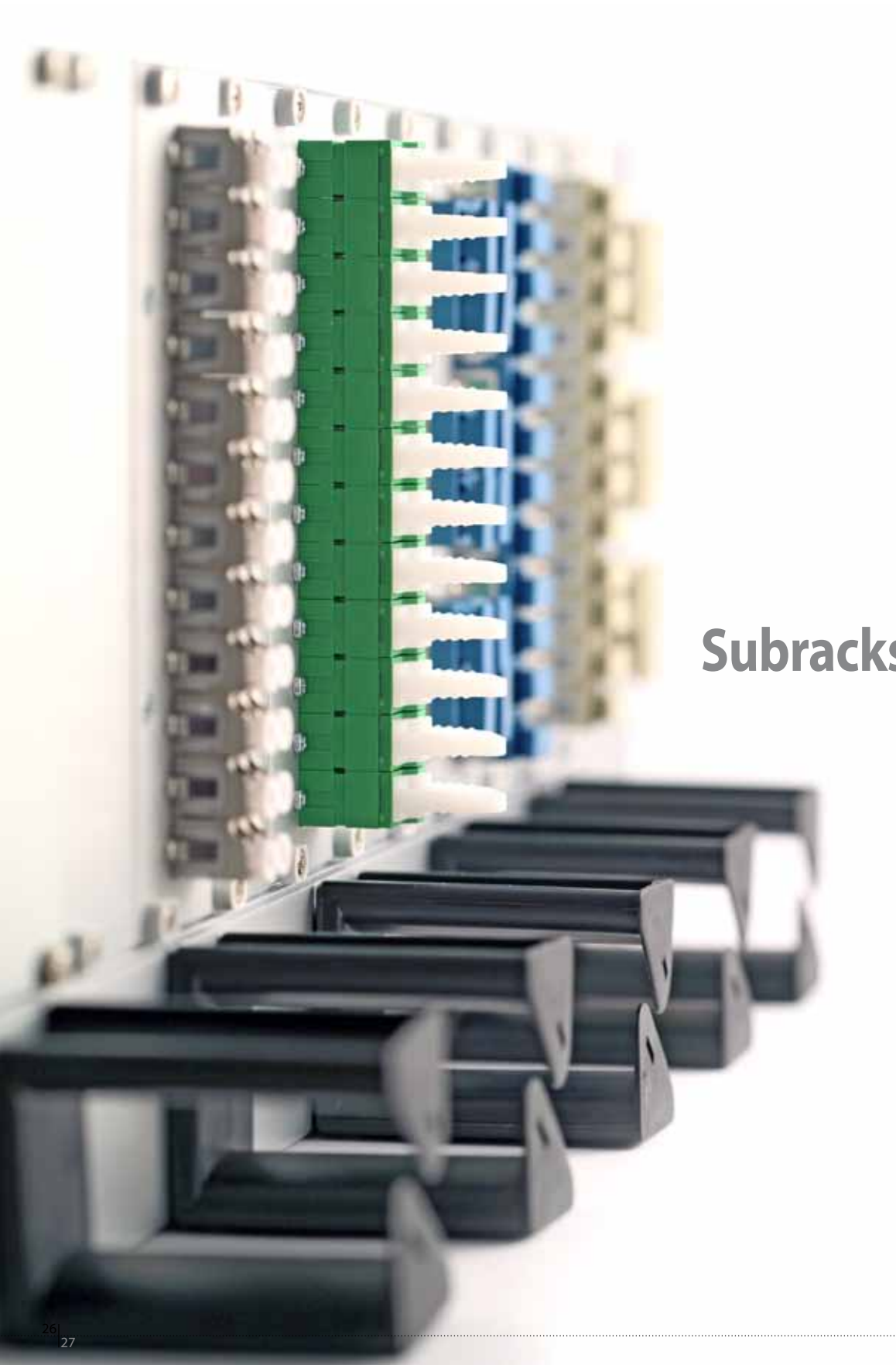
Art.-No.	OM4 Fanout 2mm	MTP/MPO	Furcation length
O04000.xLL	1 MTP / 12 x SC	Female	500 mm
O04001.xLL	1 MTP / 12 x LC	Female	500 mm

Art.-No.	OM3 Fanout 2mm	MTP/MPO	Furcation length
O04101.xLL	1 MTP / 12 x SC	Female	500 mm
O04009.xLL	1 MTP / 12 x LC	Female	500 mm

Art.-No.	OS2 Fanout 2mm	MTP/MPO	Furcation length
O04103.xLL	1 MTP / 12 x SC/UPC	Female	500 mm
O04007.xLL	1 MTP / 12 x LC/UPC	Female	500 mm

- MTP/MPO-Female Fanout LowLoss cable acc. to colour code DIN VDE 0888
- LowLoss description means: attenuation per Fanout max. 0,35dB
- 12-fiber ribboncable divided to 12 x 2,0mm cable with LC or SC connectors

Standard lengths in metres:
2.0 - 5.0



Subracks 19"



53711.21

53711.10



Subrack 4U / 84 DU

Art.-No.	Type
53711.1	Subrack with 84DU and integrated 1U cable overlength box

Accessories

Art.-No.	Accessories
53711.10	Dummy plate Alu, 3U/7DU, anodised, incl. screws
53711.21	Dummy plate Alu, 3U/14DU, anodised, incl. screws

- 19"/3U subrack with 84DU and integrated 1U cable overlength box
- 4U aluminium side walls for installation in 19" rack
- 84DU depth adjustable subrack with 1DU splitting
- Cable overlength box to the back/front sliding unit
- Front mounted cable routing panel with 5 cable brackets
- Total depth 295 mm





Plug In Module 3U/7DU completely assembled with pigtails and adapter

Art.-No.	Pigtail	Fiber	Adapter
Singlemode OS2 9/125μ			
B88204.12	12 x E2000®/APC coloured	OS2	12 x E2000® green
B88206.12	12 x LC/APC coloured	OS2	12 x LC simplex green
B88202.12	12 x LC/UPC coloured	OS2	6 x LC duplex blue
B88202.24	24 x LC/UPC coloured	OS2	6 x LC quad blue
B88205.12	12 x SC/APC coloured	OS2	6 x SC simplex green
B88201.6	12 x SC/UPC coloured	OS2	6 x SC duplex blue
B88201.12	12 x SC/UPC coloured	OS2	12 x SC simplex blue

- 1 x splice cassette including cover
- 12 pigtails with 1 x splice holder (12 x crimp)
- 24 pigtails with 2 x splice holder (12 x crimp)
- Overlength cassette
- Labelling strip



Plug In Module 3U/7DU completely assembled with pigtails and adapter

Art.-No.	Pigtail	Fiber	Adapter
Singlemode OS2 9/125μ			
B88001.6	12 x SC coloured	OM2	6 x SC duplex beige
B88001.6OM3	12 x SC coloured	OM3	6 x SC duplex aqua
B88001.6OM4	12 x SC coloured	OM4	6 x SC duplex violet
B88001.12	12 x SC coloured	OM2	12 x SC simplex beige
B88001.12OM3	12 x SC coloured	OM3	12 x SC simplex aqua
B88001.12OM4	12 x SC coloured	OM4	12 x SC simplex violet
B88002.12	12 x LC coloured	OM2	6 x LC duplex beige
B88002.12OM3	12 x LC coloured	OM3	6 x LC duplex aqua
B88002.12OM4	12 x LC coloured	OM4	6 x LC duplex violet
B88002.24	24 x LC coloured	OM2	6 x LC quad beige
B88002.24OM3	24 x LC coloured	OM3	6 x LC quad aqua
B88002.24OM4	24 x LC coloured	OM4	6 x LC quad violet

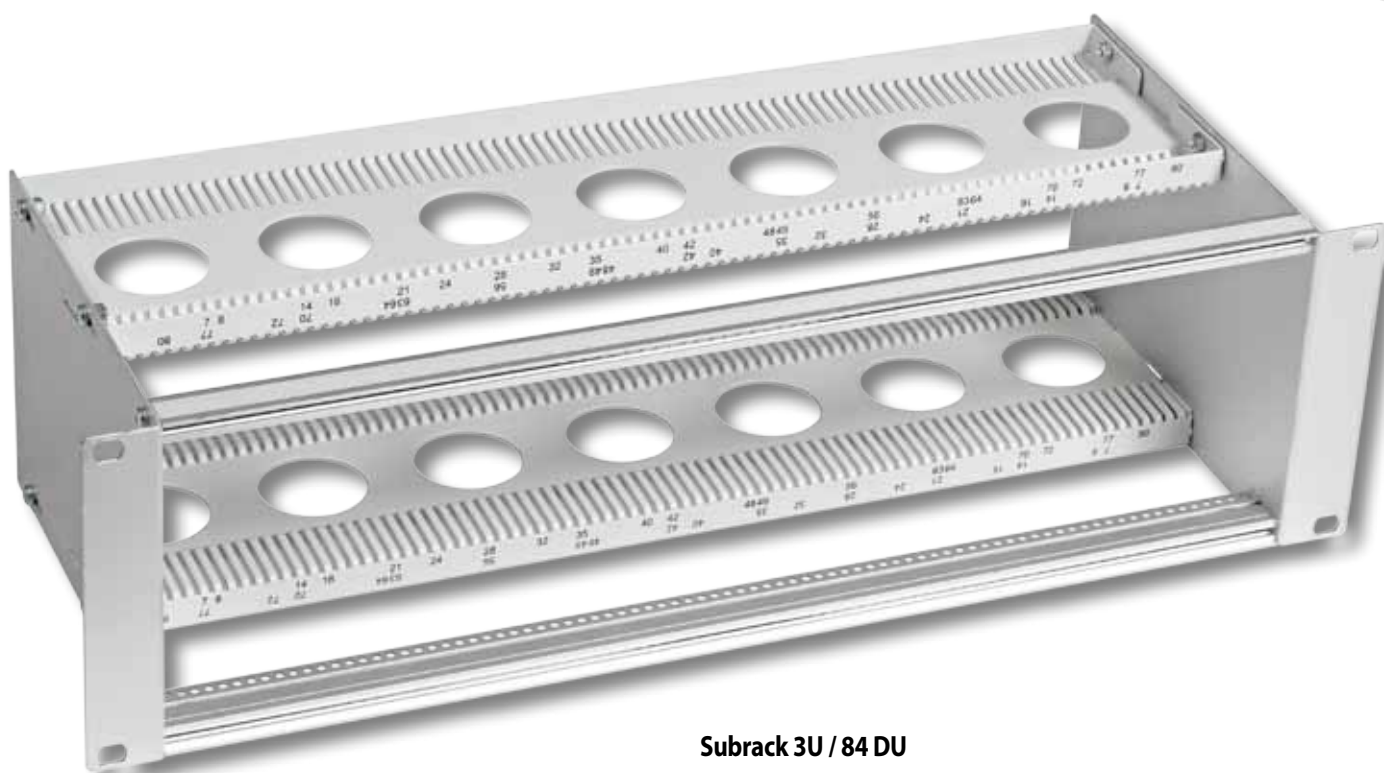
- 1 x splice cassette including cover
- 12 pigtails with 1 x splice holder (12 x crimp)
- 24 pigtails with 2 x splice holder (12 x crimp)
- Overlength cassette
- Labelling strip



Plug In Module 3U/14DU completely assembled with pigtails and adapter

Art.-No.	Pigtail	Fiber	Adapter
Singlemode OS2 9/125μ			
B88205.24	24 x SC/APC coloured	OS2	12 x SC duplex green
B88201.24	24 x SC/UPC coloured	OS2	12 x SC duplex blue

- 1 x splice cassette including cover
- 12 pigtails with 1 x splice holder (12 x crimp)
- 24 pigtails with 2 x splice holder (12 x crimp)
- Overlength cassette
- Labelling strip



Subrack 3U / 84 DU

Art.-No.	Type
53733.1	Subrack 3U / 84DU

- 19"/3U subrack with 84DU, 1DU = 5,08mm
- 3U aluminium side walls for installation in 19" rack
- 84DU depth adjustable module bracket with 1DU splitting
- Total depth 227 mm



Plug In Module 3U/7DU Unassembled

Art.-No.	Type
53711.12	12 LC duplex, E2000® simplex, SC simplex
53711.5	6 LC duplex, E2000® simplex, SC simplex
53711.6	6 SC duplex or LC quad
53711.7	12 ST or FC simplex
53711.13	6 Keystone without splice-and overlength cassette

- For all established adapter
- 3U/7DU aluminium front plate
- Labelling strip
- Alu mounting plate with splice cassette and overlength cassette
- Integrated strain relief for central tube
- Modul fixing with screws



Plug In Module 3U/14DU Unassembled

Art.-No.	Type
53711.24	12 SC duplex with splice-and overlength cassette
53711.14	12 Keystone without splice-and overlength cassette

- For all established adapter
- 3U / 14DU aluminium front plate
- Module fixing with screws
- Labelling strip (53711.24)
- Alu mounting plate with splice cassette and overlength cassette (53711.24)
- Integrated strain relief for central tube (53711.24)



Fiber Wall distributors Splice distributors



Wall Distributor, Splice Housing

Art.-No.	Type
53604.1V1	FO wall distributor, splice housing, RAL7035, unassembled

- Housing with two separately lockable swivel doors, 2 different locks each with 2 keys, with 2 cable entries for PG16
- 2 cable entries with sealing from strip, height-adjustable
- Additional strain relief clamps and guiding clips for fixing with cable ties
- Max. 5 splice cassettes and one distribution plate can be fitted
- Fixing of distribution plate with 2 M3 screws
- Dimensions (W) x (H) x (D) 445 x 445 x 95 mm
- Steel sheet 1.5 mm
- Weight: about 5.2 kg



Distribution Plate, RAL7035

Art.-No.	Type
53604.3	for 48 LC duplex, E2000® simplex or SC simplex adapter
53031.2	for 48 SC duplex or 48 LC quad adapter
53604.4	for 24 SC duplex or 24 LC quad adapter
53604.2	for 48 ST simplex or FC simplex adapter (D-hole)

- Steel sheet 1.5 mm
- also suitable for 2U splice boxes





Mini Wall Distributor

Art.-No.	Type
53605.1	Mini Wall Distributor, RAL7035, unassembled

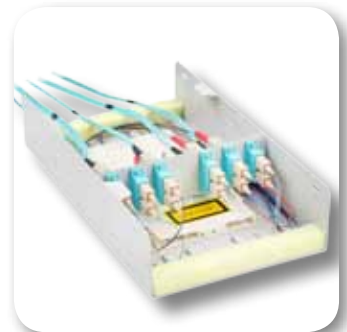
- Housing with lockable swivel lid, 2 keys
- 4 cable entries with dust-tight sealing strips for incoming and outgoing cable
- Strain relief via cable ties
- A maximum of 8 splice cassettes or 4 splice cassettes and one distribution plate can be fitted
- Dimensions (W) x (H) x (D) 320 x 280 x 54 mm
- Steel sheet 1.5 mm
- Weight approx. 2 kg

Distribution Plate, RAL7035

Art.-No.	Type
53605.3	for 24 LC duplex, E2000® simplex or SC simplex adapter
53605.4	for 12 SC duplex or 12 LC quad adapter
53605.2	for 24 ST simplex or FC simplex adapter (D-hole)
53605.5	for 12 ST simplex or FC simplex adapter (D-hole)

- 2 pieces of plastic screws (53697.1) are necessary for fixing the distribution plate
- Steel sheet 1.5 mm





Compact Splice Distributor Set

Art.-No.	Type
53603.1	Compact Splice Distributor Set, RAL7035, unassembled

- Housing with lockable swivel lid, 2 keys
- 2 openings with dust-tight strips for incoming and outgoing cables, for fastening with cable ties
- Holders for max. 4 splice cassettes or 1 splice cassette plus one distributor plate
- Steel sheet 1.5 mm
- Dimensions (W) x (H) x (D) 150 x 265 x 55 mm
- Scope of supply includes: 1 x distributor plate for 12 x ST or FC (D-hole) adapters and 1 x distributor plate for 6 x SC duplex or 6 x LC quad adapters

Distribution Plate, RAL7035

Art.-No.	Type
53603.4	for 6 LC duplex, E2000® simplex or SC simplex adapter
53603.3	for 6 SC duplex or 6 LC quad adapter
53603.2	for 12 ST simplex or FC simplex adapter (D-hole)

- Steel sheet 1.5 mm





Micro Splice Distributor for 4 SC-Adapter, unassembled

Art.-No.	Type	PU
53701.1	for 4 SC-simplex adapter and 5 crimpsplices	1

Accessories

Art.-No.	Accessories	PU
53702.1	Cable duct fixing	1
53703.1	Protective splice holder for 5 splices	1

Plastic splice box including accessories

- 1 x adapter plate for 4 x SC simplex adapters
- 1 x splice holder for 5 splices, 2 x cable clips
- 4 x cable grommets, 4 x cable ties
- Wall- mounting or cable duct installation possible
- 2 cable entries (top/bottom) or 1 x through rear wall possible
- For connection of optical fibre cable via splice or for max. 4 fibres via connector
- Dimensions (W) x (H) x (D) 160 x 110 x 30 mm



Micro Splice Distributor With Telecom Splice Cassette, unassembled

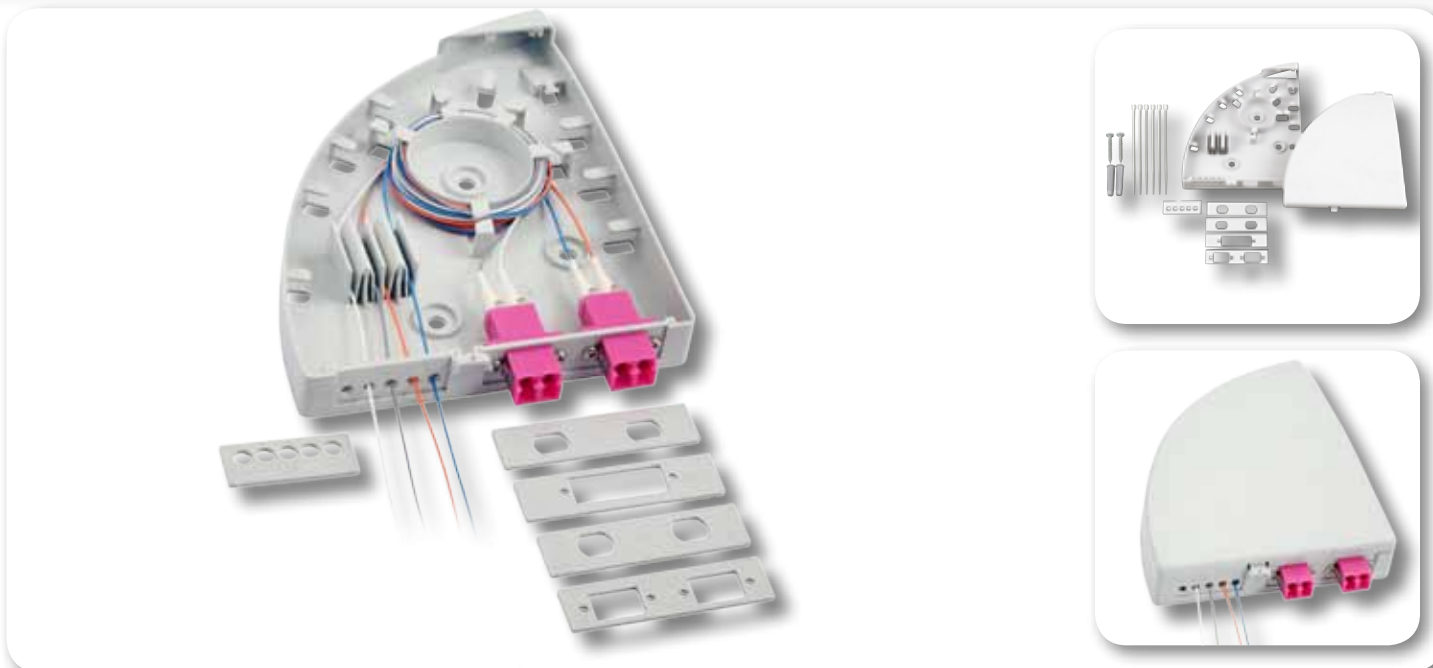
Art.-No.	Type	PU
53700.1	with Telecom splice cassette	1

Accessories

Art.-No.	Accessories	PU
53702.1	Cable duct fixing	1
53703.1	Protective splice holder for 5 splices	1

Plastic splice box including accessories:

- 1 x splice cassette, 1 splice holder for 12 splices
- 2 x cable grommets, 2 x cable ties
- Wall mounting or cable duct installation possible
- 2 cable entries (top/bottom) or 1 x through rear wall possible
- For connection of optical fibre cable via splice
- Dimensions (W) x (H) x (D) 160 x 110 x 30 mm



Micro Splice Distributor Housing, unassembled

Art.-No.	Type	PU
53712.1	Micro splice distributor housing, RAL7035	1

Accessories

Art.-No.	Accessories	PU
83030.1	DIN Rail clip, M5 thread	1
81834.1	Screw M5 x 8 mm for 83030.1	1

- Wall-, cable duct- or DIN Rail mounting possible (clip + screw please order separately)
- Plastic housing with holder for adapters: 2 x SC simplex, 2 x LC duplex, 2 x E2000®, 2 x FC, 2 x ST, 1 x SC duplex, 1 x LC quad
- Holder for 4 x shrink splice protection
- 2 x cable entries with 5 holes 5 mm or 3 mm
- Pre-stamped outlines for fiber depot
- Scope of supply: 5 x holders for several adapters, 2 x cable entries, 2 x S6 dowel and screws, 6 x cable ties
- IP20
- Dimensions (W) x (H) x (D) 110 x 140 x 20 mm



FO Mini Splice Distributor

Art.-No.	Type
53704.1	FO Mini Splice Distributor

Accessories

Art.-No.	Accessories	PU
83030.2	DIN Rail clip, M4 thread	1
81834.2	Screw M4 x 8 mm for 83030.2	1

- With splice holder for 12 crimp splices
- Wall-, duct- or DIN Rail mounting (clip + screw please order separately)
- Housing and cover made of plastic
- 2 entries for incoming and outgoing cables
- 4 cable ties for strain relief
- Dimensions (W) x (H) x (D) 64 x 141.5 x 24 mm
- Weight approx. 30 g



Industrial Splice Distributor for DIN Rail metal housing, unassembled

Art.-No.	Type
53705.1V3	Industrial Splice Distributor, without Front panel

Accessories

Art.-No.	Accessories
53705.2V2	Front panel for 6 x SC Duplex or LC quad
53705.3V2	Front panel for 6 x LC duplex or SC Simplex
53705.4V2	Front panel for 12 x SC Simplex

- Rugged metal housing
- DIN Rail holder with screwset included
- Incl. splice cassette, splice holder and 1 x cable gland M20
- Dimensions (W x H x D): 61 x 115 x 113 mm

[delivery without adapter](#)



Micro Splice Distributor IP54, unassembled

Art.-No.	Type	PU
53714.1	Micro Splice Distributor Housing II, RAL7035	1

- Plastic housing including holding for 4 x SC simplex or 4 x LC duplex adapters, splice cassette and shrink splice holder for 8 splices
- 2 x PG16 and 1 x PG9 screwing
- Lockable cover
- Scope of supply: chart label, metal splice depot for adapters
- Splice cassette and shrink splice holder 8 x
- 1 x key, 2 x PG16, 1 x PG9, 2 x dowel M8, 2 x screws 2.9 x 9.5
- Dimensions (W) x (H) x (D) 103 x 185 x 93 mm



Micro Splice Distributor IP54

Art.-No.	Type	PU
53713.1	Micro Splice Distributor Housing I, RAL7035	1
53715.1	Base for Micro Splice Distributors I and II, RAL7035	1

- Plastic housing including holder for 8 shrink splices
- 1 x PG13.5 and 1 x PG9 screwing
- Lockable cover
- Scope of supply: chart label, metal splice depot, shrink splice holders 8-level, 1 x key, 1 x PG13.5, 1 x PG9, 2 x dowel M8, 2 x screws 2.9 x 9.5
- Dimensions (W) x (H) x (D) 103 x 185 x 78 mm



Splice Distributor Housing IP54

Art.-No.	Type	PU
53720.1	IP54 FO splice housing set with wide range of accessories	1

- Plastic housing IP54 light grey, suitable for wall-mounting
- Lockable cover (screw) with 3,5mm hole for sealing
- With the following accessories:
 - Basic module plate for fixing one splice cassette and one mounting bracket
 - Splice cassette with cover
 - Mounting bracket with 12 LC duplex, SC simplex or E2000® simplex mounting holes
 - Mounting bracket with 6 x SC duplex mounting holes
 - Mounting bracket for 12 x ST simplex holes
 - 3 x PG cable glands (2 x PG11, 1 x PG16)
 - 4 x fixing screws for wall-mounting
- Dimensions (W) x (H) x (D) 190 x 375 x 115 mm



Splice Distributor Housing-Set IP66 RAL7035

Art.-No.	Type	PU
53710.1	Splice Distributor Housing with wide range of accessories	1

- Plastic housing with holders for max. 3 splice cassettes or 2 splice cassettes (53100.200) and 1 distributor plate
- Mounting bracket with 6 x SC duplex or LC quad mounting holes
- Mounting bracket for 12 x ST or FC simplex holes
- Prepared cable entries for 2 x M16/M25 and 4 x M20/M32
- Dimensions (W) x (H) x (D) 180 x 255 x 100 mm

House Connection Box (APL) for FTTH - Applications e.g. Fiber-To-The-Home (FTTH), Fiber-To-The-Board (FTTB)

This new house connection box enables clear and secure fiber management and fulfills not only the requirements to actual standards, but also for future applications.

Basing on a IP54 plastic housing with 3 cable entries, the box comes in modern, attractive design. This new house connection box is universally suitable and serves for all common applications, like e.g. PON, G-PON and „Point-to-Point“.



Characteristics

- Attractive design
- Hinged splice cassette for up to 12 splices
- Patching for up to 8 adapter LC duplex, SC simplex or E2000® simplex
- Holder for up to 12 splices
- Cable fixing and holder for gas blocker
- Easy and fast installation
- Suitable for house connection, building connection and as distribution box
- Easy feed-in and feed-out of the patch cables
- Access security with lead seal or lock
- Grounding
- Cable entries 3 x PG16 incl. cable glands

Technical Specifications

- Cable entries: 1
- Cable outlets: 2
- Capacity: up to 12 Fibers
- Dimensions (H x B x T): 210 x 175 x 45 mm
- Temperature range: -25°C .. +70°C
- Material: plastic, white
- Degree of protection: IP54


Art.-No.	Description	Splice Type	Fiber Capacity	Max. Adapter
53706.1	Connection box IP54 unassembled	Crimp	max. 12	8 x LC duplex, E2000® simplex or SC simplex


Please order pigtails and adapter separately:

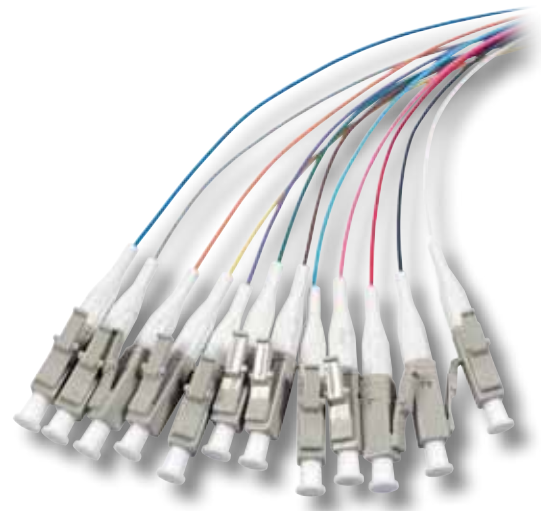
Adapter	LC-duplex	SC-simplex	Pigtails	12 x LC coloured	12 x SC coloured
Singlemode OS1/OS2	53350.31 / blue	53302.31 / blue	Singlemode OS1/OS2	O0481.2 / blue	O1022.2 / blue
Singlemode OS1/OS2 APC	53343.31 / green	53302.32 / green	Singlemode OS1/OS2 APC	O0482.2 / green	O1015.2 / green



Fiber-Pigtails Accessories

Pigtail set LC/APC OM4 50/125, 12 Different Colours, 2M			
Part Number: 03483.2		Quantity: 12 pcs	
Pigtailset LC/APC OM4			
1 RD IL: 0.05 dB	7 BK IL: 0.07 dB	8 VT IL: 0.12 dB	
2 GN IL: 0.11 dB	8 VT IL: 0.12 dB	9 TQ IL: 0.02 dB	
3 BL IL: 0.15 dB	9 TQ IL: 0.02 dB	10 BK IL: 0.08 dB	
4 YE IL: 0.07 dB	10 BK IL: 0.08 dB	11 GR IL: 0.09 dB	
5 WT IL: 0.09 dB	11 GR IL: 0.09 dB	12 PK IL: 0.10 dB	
6 OR IL: 0.03 dB	12 PK IL: 0.10 dB		
Bar Code: 			
Batch: 20110913			

Pigtail Set LC/UPC OS2 9/125µ 12 Different colours, 2 M			
Part Number: 00481.2		Quantity: 12 pcs	
Pigtailset LC/UPC OS2			
1 RD IL: 0.05 dB	RL: 56 dB	7 BK IL: 0.07 dB	RL: 67 dB
2 GN IL: 0.11 dB	RL: 68 dB	8 VT IL: 0.12 dB	RL: 59 dB
3 BL IL: 0.15 dB	RL: 62 dB	9 TQ IL: 0.02 dB	RL: 69 dB
4 YE IL: 0.07 dB	RL: 69 dB	10 BK IL: 0.08 dB	RL: 72 dB
5 WT IL: 0.09 dB	RL: 68 dB	11 GR IL: 0.09 dB	RL: 58 dB
6 OR IL: 0.03 dB	RL: 70 dB	12 PK IL: 0.10 dB	RL: 67 dB
Bar Code: 			
Batch: 20110913			

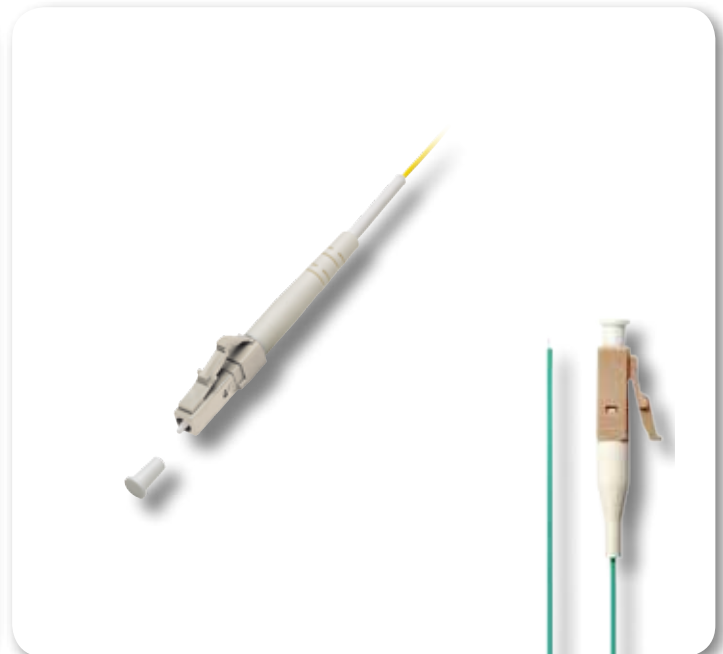
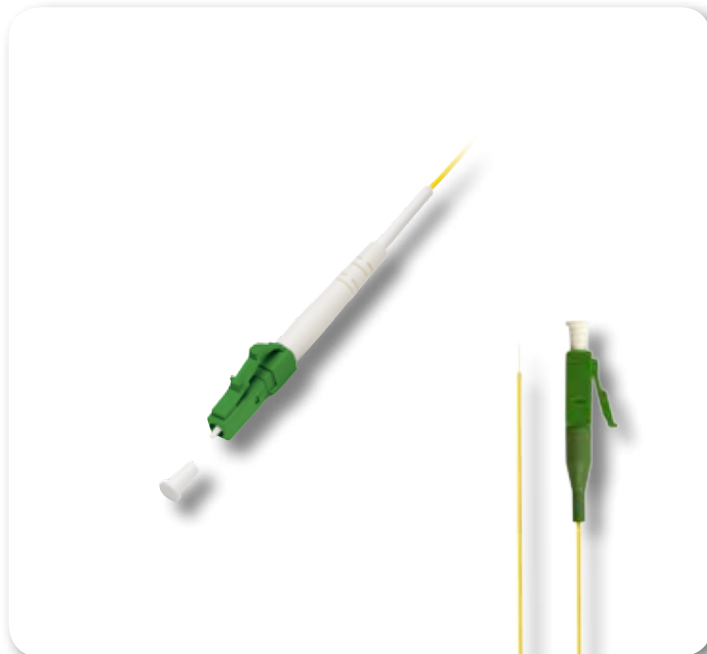


LC Fiber Pigtail Set Coloured

Art.-No.	Fiber	Fiber colour	Connector type	Quality	PU
00482.2	9/125µ	12-coloured	LC/APC green 8°	OS2	1
00481.2	9/125µ	12-coloured	LC/UPC blue	OS2	1
03483.2	50/125µ	12-coloured	LC beige	OM4	1
03482.2	50/125µ	12-coloured	LC beige	OM3	1
03484.2	50/125µ	12-coloured	LC beige	OM2	1



- 12 coloured pigtails with dyed fibers 900µ and 250µ in the colours red, green, yellow, white, grey, brown, violet, turquoise, black, orange, pink
- Standard code DIN VDE 0888
- 6 Pigtails each are bounded onto a carrying paper sheet providing easy access to every single fiber pigtail
- Every PU contains an individual measuring protocol



LC Fiber Pigtail APC

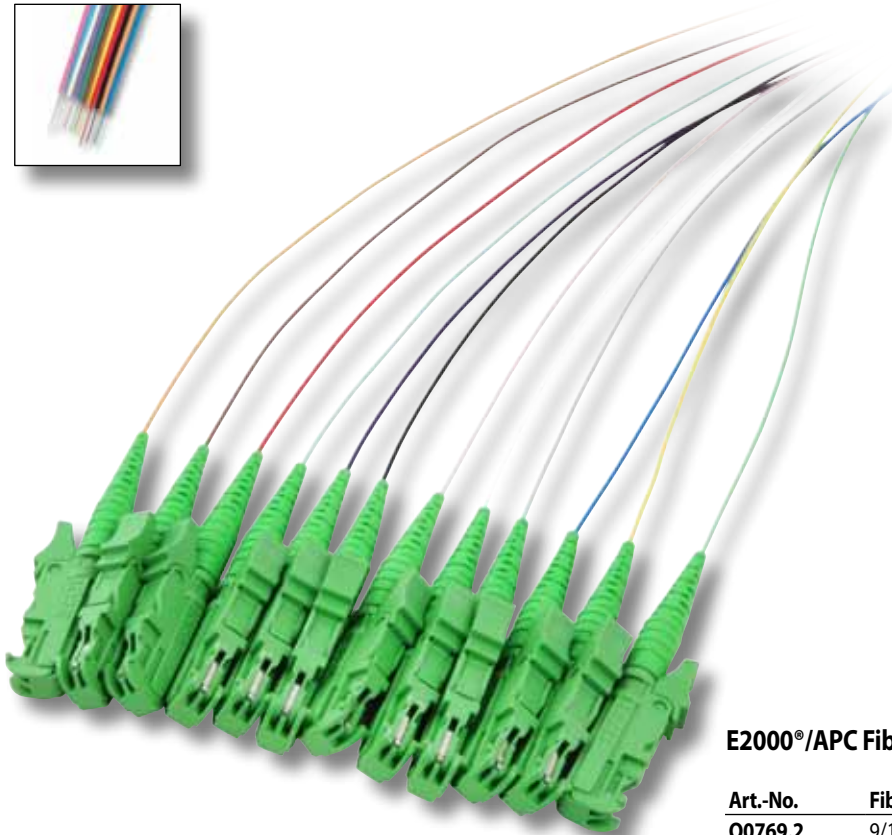
Art.-No.	Fiber	Fiber colour	Connector type	Quality	PU
00485.2	9/125µ	yellow	LC/APC green 8°	OS2	12

- 12 Pigtails with yellow fiber coating 900µ in each packing unit.
- Each PU includes an individual measuring protocol.

LC Fiber Pigtail

Art.-No.	Fiber	Fiber colour	Connector type	Quality	PU
00480.2	9/125µ	yellow	LC/UPC blue	OS2	12
03686.2	50/125µ	violet	LC beige	OM4	12
03681.2	50/125µ	aqua	LC beige	OM3	12
03481.2	50/125µ	green	LC beige	OM2	12
03491.2	62.5/125µ	blue	LC beige	OM1	12

- 12 Pigtails with fiber coating 900µ in each packing unit.
- Each PU includes an individual measuring protocol.



E2000®/APC Fiber Pigtail Set Coloured

Art.-No.	Fiber	Fiber colour	Connector type	Quality	PU
00769.2	9/125μ	12-coloured	E2000® green 8°	OS2	1

- 12 coloured pigtails with dyed fibers 900μ and 250μ in the colours red, green, yellow, white, grey, brown, violet, turquoise, black, orange, pink
- Standard code DIN VDE 0888




E2000® Fiber Pigtail

Art.-No.	Fiber	Colour	Connector type	Quality	PU
00770.2	9/125μ	yellow	E2000® / APC green 8°	OS2	12
00779.2	9/125μ	yellow	E2000® blue	OS2	12
0079012	50/125μ	aqua	E2000® beige	OM3	12
00789.2	50/125μ	green	E2000® beige	OM2	12
00799.2	62.5/125μ	blue	E2000® beige	OM1	12


- 12 Pigtails with fiber coating 900μ in each packing unit.
- Each PU includes an individual measuring protocol

Pigtail set SC/PC OM3 50/125, 12 Different Colours, 2M	
Part Number: O3325.2 Quantity: 12 pcs	
SC/PC	
1 RD IL: 0.05 dB	7 BK IL: 0.07 dB
2 GN IL: 0.11 dB	8 VT IL: 0.12 dB
3 BL IL: 0.15 dB	9 TQ IL: 0.02 dB
4 YE IL: 0.07 dB	10 BK IL: 0.08 dB
5 WT IL: 0.09 dB	11 OR IL: 0.09 dB
6 GR IL: 0.03 dB	12 PK IL: 0.10 dB

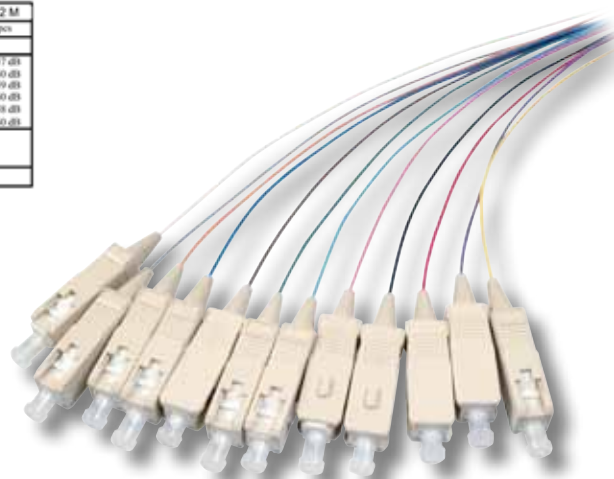
Bar Code: 

Batch: 20110903

Pigtail Set SC/UPC OS2 9/125µ 12 Different colours, 2 M	
Part Number: O1022.2 Quantity: 12 pcs	
SC/UPC	
1 RD IL: 0.08 dB RL: 60 dB	7 BK IL: 0.07 dB RL: 57 dB
2 GN IL: 0.10 dB RL: 58 dB	8 VT IL: 0.10 dB RL: 60 dB
3 BL IL: 0.12 dB RL: 57 dB	9 TQ IL: 0.11 dB RL: 59 dB
4 YE IL: 0.07 dB RL: 59 dB	10 BK IL: 0.07 dB RL: 60 dB
5 WT IL: 0.10 dB RL: 60 dB	11 OR IL: 0.09 dB RL: 58 dB
6 GR IL: 0.07 dB RL: 59 dB	12 PK IL: 0.08 dB RL: 60 dB

Bar Code: 

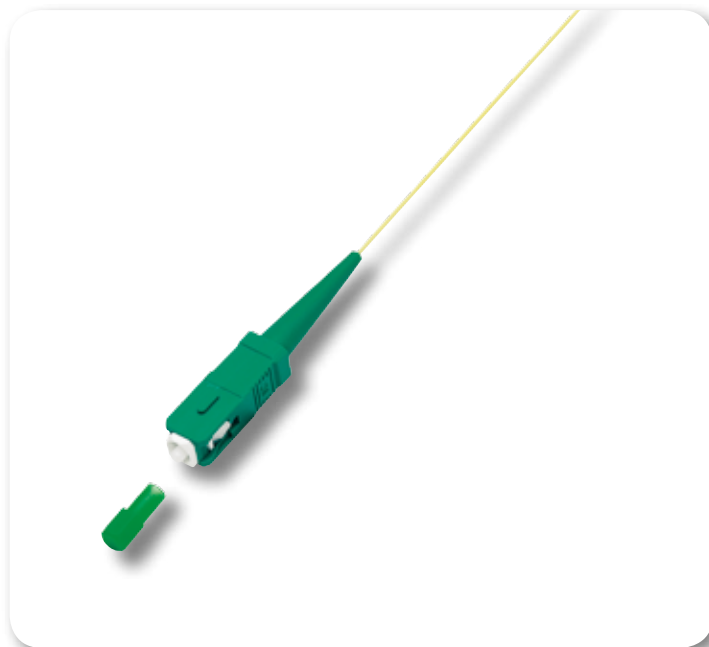
Batch: 20110911



SC Fiber Pigtail Set Coloured

Art.-No.	Fiber	Fiber colour	Connector type	Quality	PU
O1015.2	9/125µ	12-coloured	SC/APC green 8°	OS2	1
O1022.2	9/125µ	12-coloured	SC/UPC blue	OS2	1
O3326.2	50/125µ	12-coloured	SC beige	OM4	1
O3325.2	50/125µ	12-coloured	SC beige	OM3	1
O3324.2	50/125µ	12-coloured	SC beige	OM2	1

- 12 coloured pigtails with dyed fibers 900µ and 250µ in the colours red, green, yellow, white, grey, brown, violet, turquoise, black, orange, pink
- Standard code DIN VDE 0888
- 6 Pigtails each are bounded onto a carrying paper sheet providing easy access to every single fiber pigtail
- Every PU contains an individual measuring protocol



SC/APC Fiber Pigtail


Art.-No.	Fiber	Fiber colour	Connector type	Quality	PU
O1019.2	9/125µ	yellow	SC/APC green 8°	OS2	12


- 12 Pigtails with yellow fiber coating 900µ in each packing unit.
- Each PU includes an individual measuring protocol



SC Fiber Pigtail

Art.-No.	Fiber	Fiber colour	Connector type	Quality	PU
O1023.2	9/125µ	yellow	SC/UPC blue	OS2	12
O3685.2	50/125µ	violet	SC beige	OM4	12
O3623.2	50/125µ	aqua	SC beige	OM3	12
O3323.2	50/125µ	green	SC beige	OM2	12
O3333.2	62.5/125µ	blue	SC beige	OM1	12

Pigtail set ST/PC OM2 50/125, 12 Different Colours , 2M	
Part Number: O3304.2	Quantity: 12 pcs
Pigtailsset ST/PC OM2	
1 RD IL: 0.05 dB	7 BN IL: 0.07 dB
2 GN IL: 0.11 dB	8 VT IL: 0.12 dB
3 BL IL: 0.15 dB	9 TQ IL: 0.02 dB
4 YE IL: 0.07 dB	10 BK IL: 0.08 dB
5 WT IL: 0.09 dB	11 OR IL: 0.09 dB
6 GR IL: 0.03 dB	12 PK IL: 0.10 dB
Bar Code: 	
Batch: 20110910	

Pigtail set ST/UPC OS2 9/125, 12 Different Colours , 2M			
Part Number: O1004.2		Quantity: 12 pcs	
Pigtailsset ST/UPC OS2			
1 RD IL: 0.05 dB	RL: 56 dB	7 BN IL: 0.07 dB	RL: 67 dB
2 GN IL: 0.11 dB	RL: 68 dB	8 VT IL: 0.12 dB	RL: 59 dB
3 BL IL: 0.15 dB	RL: 62 dB	9 TQ IL: 0.02 dB	RL: 69 dB
4 YE IL: 0.07 dB	RL: 69 dB	10 BK IL: 0.08 dB	RL: 72 dB
5 WT IL: 0.09 dB	RL: 68 dB	11 OR IL: 0.09 dB	RL: 58 dB
6 GR IL: 0.03 dB	RL: 70 dB	12 PK IL: 0.10 dB	RL: 67 dB
Bar Code: 			
Batch: 20110913			



ST Fiber Pigtail Set Coloured

Art.-No.	Fiber	Fiber colour	Connector type	Quality	PU
O1004.2	9/125µ	12-coloured	ST/UPC	OS2	1
O3307.2	50/125µ	12-coloured	ST	OM4	1
O3305.2	50/125µ	12-coloured	ST	OM3	1
O3304.2	50/125µ	12-coloured	ST	OM2	1



- 12 coloured pigtails with dyed fibers 900µ and 250µ in the colours red, green, yellow, white, grey, brown, violet, turquoise, black, orange, pink
- Standard code DIN VDE 0888
- 6 Pigtails each are bounded onto a carrying paper sheet providing easy access to every single fiber pigtail
- Every PU contains an individual measuring protocol



ST Fiber Pigtail

Art.-No.	Fiber	Fiber colour	Connector type	Quality	PU
O1003.2	9/125µ	yellow	ST/UPC	OS2	12
O3687.2	50/125µ	violet	ST	OM4	12
O3603.2	50/125µ	aqua	ST	OM3	12
O3303.2	50/125µ	green	ST	OM2	12
O3313.2	62.5/125µ	blue	ST	OM1	12

- 12 Pigtails with fiber coating 900µ in each packing unit.
- Each PU includes an individual measuring protocol

FC Fiber Pigtail

Art.-No.	Fiber	Fiber colour	Connector type	Quality	PU
O0490.2	9/125µ	yellow	FC/APC 8°	OS2	12
O1133.2	9/125µ	yellow	FC/UPC	OS2	12
O3442.2	50/125µ	aqua	FC	OM3	12
O3443.2	50/125µ	green	FC	OM2	12
O3453.2	62.5/125µ	blue	FC	OM1	12

- 12 Pigtails with fiber coating 900µ in each packing unit.
- Each PU includes an individual measuring protocol



Splice Cassette

Art.-No.	Description	PU
53100.200	Splice Cassette for 2 x 12 Splice Holders	5
53100.201	Cover for Splice Cassette, white	5

- For 2 x 12 splice holders (max. 24 arc splices)
- Stackable
- Dimensions (W) x (H) x (D) 155 x 8 x 92 mm



Splice Cassette PRO

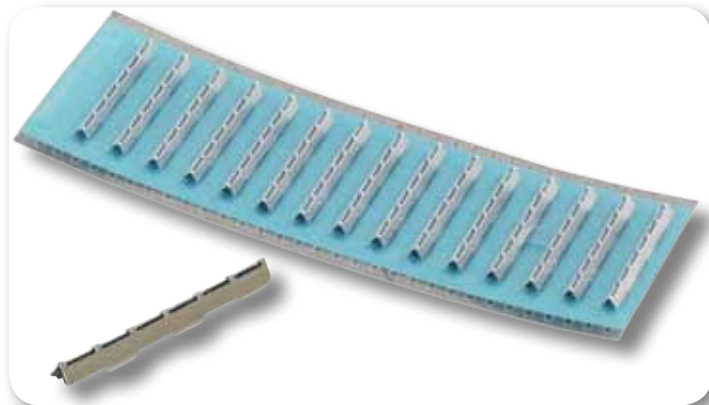
Art.-No.	Description	PU
53100.10	Splice Cassette incl. 2 x Holders for 12 Splices	5
53100.110	Cover for Splice Cassette	5

- With 2 splice holder for 24 crimp splice protectors (max. 24 arc splices)
- Stackable
- Dimensions (W) x (H) x (D) 160 x 5 x 125 mm



Accessories for Splice Cassette

Art.-No.	Description	PU
53100.21	Splice Holder for 12 x Arc Splices Crimp	10
53100.7	Splice Holder for 6 x Arc Splices with Shrink Tube (white)	10
53100.8	Splice Holder for 6 x Arc Splices with Shrink Tube (black)	10
53100.6	Strain-relief (for mounting on splice cassette 53100.200)	50



Crimp Splice Protection for arc splices

Art.-No.	Description	PU
53100.3	Crimp splice protector for arc splices	150



Thermo Splice Protection for arc splices

Art.-No.	Description	PU
53100.9	Shrink tube splice protector, length 61 mm, transparent	100
53100.91	Shrink tube splice protector, length 45 mm, transparent	100



Splice Protection Crimper

Art.-No.	Description	PU
53100.50	Splice Protection Crimper	1
53100.51	Mounting bracket	1

- Crimping tool for crimp splice protector
- Optimizes crimp quality and fiber protection



Fiber-Adapter
Attenuators
Field installable connectors
IP 67 connectors
Connectors



Keystone Adapter Frame

Art.-No.	Type
Housing colour white	
37501WS.1	Keystone adapter frame for flangeless adapter
Housing colour black	
37501SW.1	Keystone adapter frame for flangeless adapter

- For keystone openings suitable in any patchpanel or outlet
- For flangeless adapter E2000® simplex APC, LC duplex or SC simplex
- Keystone adapter frames are combinable with any flangeless adapter



LC Duplex Flangeless Adapter with Plastic Housing

Art.-No.	Type	Housing	Sleeve	PU
53514.1	Multimode OM2	beige	Ceramic	1
53516.1	Multimode OM3	aqua	Ceramic	1
53517.1	Multimode OM4	violet	Ceramic	1
53515.1	Singlemode	blue	Ceramic	1
53519.1	Singlemode APC	green	Ceramic	1

- Flangeless adapter are good for high density and could be used as keystone modules in consumption with keystone adapter frames



Keystone Adapter LC Duplex Multimode

Art.-No.	Type
Housing colour white	
EB528	Keystone Adapter LC duplex Multimode
Housing colour black	
EB531	Keystone Adapter LC duplex Multimode

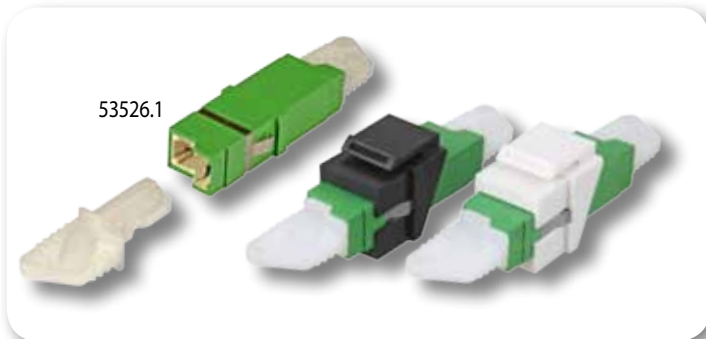
- For Keystone openings
- Snap-In mounting
- Adapter with metal sleeve



SC Simplex Flangeless Adapter with Plastic Housing

Art.-No.	Type	Housing	Sleeve	PU
53510.1	Multimode OM2	beige	Ceramic	1
53512.1	Multimode OM3	aqua	Ceramic	1
53513.1	Multimode OM4	violet	Ceramic	1
53511.1	Singlemode	blue	Ceramic	1
53518.1	Singlemode APC	green	Ceramic	1

- Flangeless adapter are good for high density and could be used as keystone modules in consumption with keystone adapter frames



Keystone Adapter FO E2000®/APC singlemode

Art.-No.	Type
EB535	Keystone Adapter E2000® APC white housing
EB536	Keystone Adapter E2000® APC black housing
53526.1	E2000® APC green flangeless adapter

- E2000® APC green adapter (RdM) with ceramic sleeve
- Housing material white or black



Keystone Adapter SC and ST Simplex Multimode

Art.-No.	Type	Housing
EB530	SC simplex beige	white
EB529	ST simplex metal	white
EB533	SC simplex beige	black
EB532	ST simplex metal	black

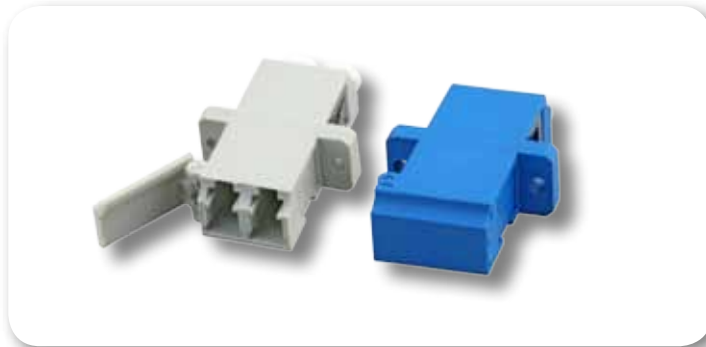
- For Keystone openings
- Snap-In mounting
- Adapter with metal sleeve



LC Duplex Adapter with Metal Housing

Art.-No.	Type	Housing	Sleeve	PU
53348.1	Multimode	Metal	Metal	1
53343.1	Singlemode	Metal	Ceramic	1
53343.2	Singlemode APC	Metal	Ceramic	1

- Breakout SC simplex hole
- With 2 x M2 screws
- With snap-in fixing



LC Duplex Adapter with Laser protection flap

Art.-No.	Type	Housing	Sleeve	PU
53358.1	Multimode	beige	Metal	1
53359.1	Singlemode	blue	Ceramic	1

Accessories

Art.-No.	Accessories	PU
80550.1	Self-tapping screw	100
80715.1	Screw M2 x 8 with nut	100



LC Quad Adapter in Metal Housing

Art.-No.	Type	Housing	Sleeve	PU
53352.1	Multimode	Metal	Metal	1
53353.1	Singlemode	Metal	Ceramic	1

- Breakout SC duplex hole
- With 2 x M2 screws
- With snap-in fixing

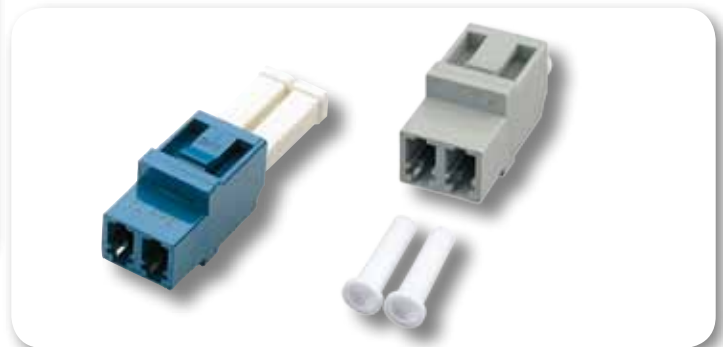


LC Duplex Adapter with Plastic Housing

Art.-No.	Type	Housing	Sleeve	PU
53348.31	Multimode OM2	beige	Metal	1
53357.31	Multimode OM3	aqua	Ceramic	1
53334.1	Multimode OM4	violet	Ceramic	1
53350.31	Singlemode	blue	Ceramic	1
53343.31	Singlemode APC	green	Ceramic	1

Accessories

Art.-No.	Accessories	PU
80550.1	Self-tapping screw	100
80715.1	Screw M2 x 8 with nut	100



LC Duplex Adapter with Plastic Housing, square-cut

Art.-No.	Type	Housing	Sleeve	PU
53346.5	Multimode	beige	Metal	1
53339.5	Multimode	beige	Ceramic	1
53345.5	Singlemode	blue	Ceramic	1

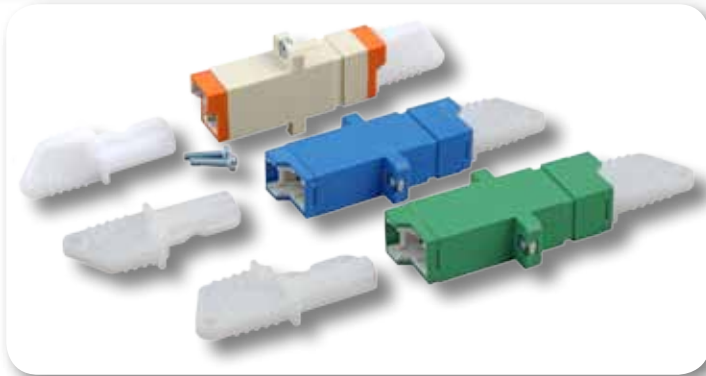


LC Quad Adapter with Plastic Housing

Art.-No.	Type	Housing	Sleeve	PU
53352.3	Multimode OM2	beige	Metal	1
53355.31	Multimode OM3	aqua	Ceramic	1
53335.1	Multimode OM4	violet	Ceramic	1
53353.3	Singlemode	blue	Ceramic	1

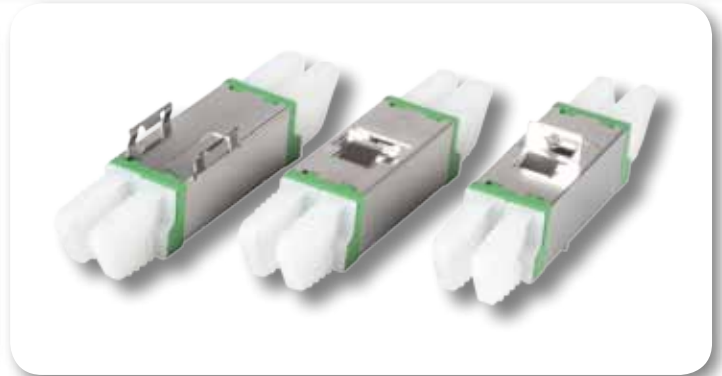
Accessories

Art.-No.	Accessories	PU
80550.1	Self-tapping screw	100
80715.1	Screw M2 x 8 with nut	100



E2000® Simplex Adapter

Art.-No.	Type	Housing	PU
53529.1	Multimode RdM	beige	1
53531.1	Singlemode RdM	blue	1
53532.1	Singlemode APC RdM	green	1



E2000® Duplex Compact Adapter Singlemode

Art.-No.	Type	Mounting	Sleeve	PU
53522.1	APC RdM green	Baseplate	Ceramic	1
53524.1	APC RdM green	Clip	Ceramic	1
53523.1	APC RdM green	Clip + M2	Ceramic	1



SC Duplex Adapter with Metal Housing

Art.-No.	Type	Housing	Sleeve	PU
53312.3	Multimode	Metal	Metal	1
53312.34	Multimode	Metal	Ceramic	1
53316.34	Singlemode	Metal	Ceramic	1
53319.3	Singlemode APC	Metal	Ceramic	1

- With 2 x M2 screws
- With snap-in fixing



SC Duplex Adapter with Metal Housing

Art.-No.	Type	Housing	Sleeve	PU
53303.5	Multimode	Metal	Ceramic	1
53316.5	Singlemode	Metal	Ceramic	1
53316.51	Singlemode APC	Metal	Ceramic	1

- With 2 x M2 screws

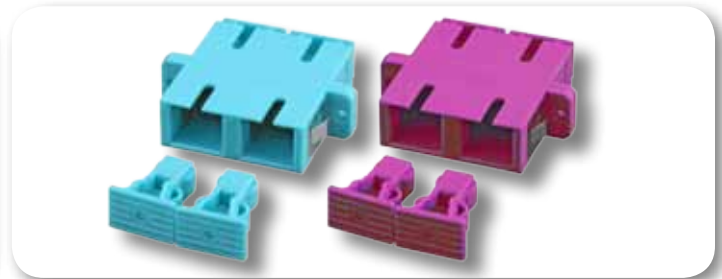


SC Duplex Adapter with Plastic Housing

Art.-No.	Type	Housing	Sleeve	PU
53303.31	Multimode	beige	Metal	1
53303.32	Multimode	beige	Ceramic	1
53316.3	Singlemode	blue	Ceramic	1
53316.35	Singlemode	green	Ceramic	1

Accessories

Art.-No.	Accessories	PU
80550.1	Self-tapping screw	100
80715.1	Screw M2 x 8 with nut	100

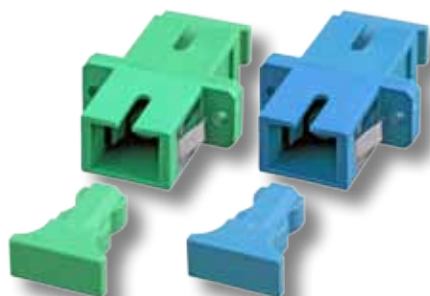


SC Duplex Adapter with Plastic Housing OM3/OM4

Art.-No.	Type	Housing	Sleeve	PU
53356.1	Multimode OM3	aqua	Ceramic	1
53333.1	Multimode OM4	violet	Ceramic	1

Accessories

Art.-No.	Accessories	PU
80550.1	Self-tapping screw	100
80715.1	Screw M2 x 8 with nut	100



SC Simplex Adapter with Plastic Housing

Art.-No.	Type	Housing	Sleeve	PU
53302.3	Multimode	beige	Metal	1
53302.31	Singlemode	blue	Ceramic	1
53302.32	Singlemode APC	green	Ceramic	1

Accessories

Art.-No.	Accessories	PU
80550.1	Self-tapping screw	100
80715.1	Screw M2 x 8 with nut	100



Laser Protection Flap for SC Adapter

Art.-No.	Type	Housing	Colour	PU
53215.1	duplex	plastic	blue	1
53215.2	simplex	plastic	blue	1
53215.3	simplex	plastic	beige	1

- For snapping on to SC adapter
- Self closing



ST Simplex Adapter with Metal Housing

Art.-No.	Type	Housing	Sleeve	PU
53102.31	Multimode	Metal	Metal	1
53103.3	Singlemode	Metal	Ceramic	1



ST / ST Duplex Adapter in Metal Housing

Art.-No.	Type	Housing	Sleeve	PU
53313.34	Singlemode	Metal	Ceramic	1
53314.34	Multimode	Metal	Metal	1

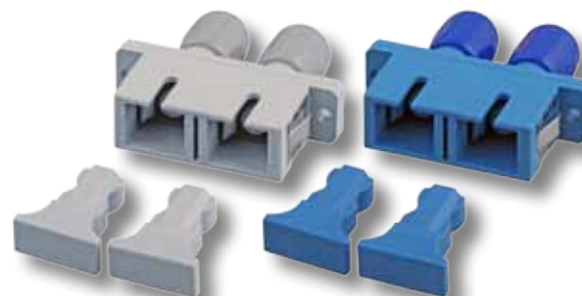
- With 2 M2 x 10 screws
- Hole pattern: SC duplex



ST / SC Duplex Adapter with Metal Housing hybrid adapter

Art.-No.	Type	Housing	Sleeve	PU
53307.3	Multimode	Metal	Metal	1
53307.34	Multimode	Metal	Ceramic	1
53320.34	Singlemode	Metal	Ceramic	1

- With 2 M2 x 10 screws
- With snap-in fixing



ST / SC Duplex Adapter with Plastic Housing hybrid adapter

Art.-No.	Type	Housing	Sleeve	PU
53305.3	Multimode	beige	Metal	1
53305.31	Multimode	beige	Ceramic	1
53320.3	Singlemode	blue	Ceramic	1

Accessories

Art.-No.	Accessories	PU
80550.1	Self-tapping screw	100
80715.1	Screw M2 x 8 with nut	100



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ST / SC Duplex Adapter with Metal Housing hybrid adapter

Art.-No.	Type	Housing	Sleeve	PU
53305.5	Multimode	Metal	Ceramic	1
53320.5	Singlemode	Metal	Ceramic	1

• With 2 x M2 screws



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ST Simplex Adapter with Metal Housing

Art.-No.	Type	Housing	Sleeve	PU
53102.5	Multimode	Metal	Ceramic	1
53103.5	Singlemode	Metal	Ceramic	1



MTP* / MPO and MTRJ Adapter

Art.-No.	Type	Housing	Breakout	PU
53416.1	MTRJ	black	SC-simplex	1
53458.1	MTP / MPO	black	MTP / MPO	1



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DIN Adapter with Metal Housing

Art.-No.	Type	Sleeve	Breakout	PU
53326.5	Singlemode	Ceramic	ST (D-hole)	1



FC Adapter with Metal Housing

Art.-No.	Type	Sleeve	Breakout	PU
53336.3	Multimode	Metal	ST (D-hole)	1
53344.3	Singlemode	Ceramic	ST (D-hole)	1



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FSMA Adapter with Metal Housing

Art.-No.	Type	Sleeve	Breakout	PU
53310.5	Multimode	Ceramic	ST (D-hole)	1



Attenuators

Singlemode 9/125 μ

53360.x	SC / SPC	53361.x	SC / APC	53362.x	FC / SPC
53363.x	FC / APC	53364.x	ST / SPC	53368.x	LC / SPC
53369.x	MU / SPC				

- SPC = Return Loss max. 45 dB
- APC = Return Loss max. 60 dB
- Suitable for CWDM!
- attenuation in dB:
 - 1.0 - 2.0 - 3.0 - 4.0 - 5.0 - 10.0 - 15.0 - 20.0

Attenuators

Multimode 50/125 μ

53365.x	SC / SPC	53366.x	FC / SPC	53367.x	ST / SPC
53370.x	LC / SPC				

- Return Loss max. 45 dB
- 850 nm for all attenuators
- Attenuators in 62.5/125 μ on request
- attenuation in dB:
 - 1.0 - 2.0 - 3.0 - 4.0 - 5.0 - 10.0 - 15.0 - 20.0



Hybrid Adapter Simplex

Art.-No.	Description	Housing	Sleeve	PU
53341.1	LC/SC Multimode	Metal	Polymer	1
53341.2	LC/ST Multimode	Metal	Polymer	1

- Breakout SC-simplex



Fiber Adapter Plug / Jack

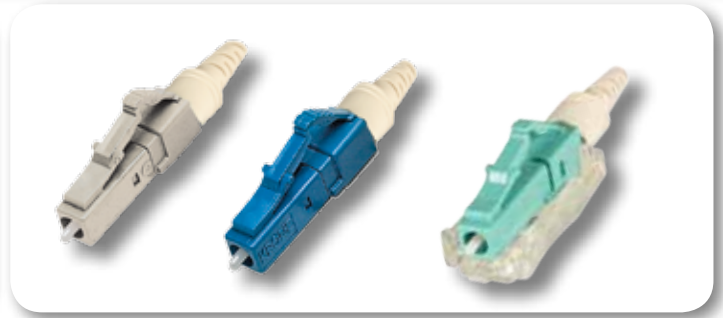
Art.-No.	Plug / Jack
Multimode 50/125μ OM2	
53420.1	SC / ST
53422.1	SC / LC
53426.1	LC / SC
Multimode 50/125μ OM3	
53432.1	SC / LC



SC Connectors Field Installable

Art.-No.	Type	Type	Colour	PU
53199.1	Singlemode	9/125µ OS2	blue	12
53200.1	Multimode	50/125µ OM3	aqua	12
53201.1	Multimode	50/125µ OM2	black	12

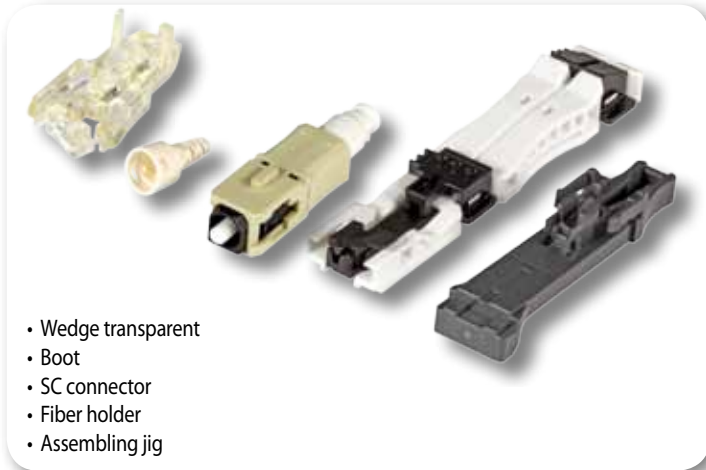
- Compatible with all standard SC connectors and adapter
- Easy installation in less than 2 minutes
- No need of special tools or glue
- No need of electrical power
- All necessary parts for assembly are included
- One set (12 pieces) of field installable connectors contains:
12 x connectors with wedge
12 x boots
1 x Assembling jig
1 x Fiber holder



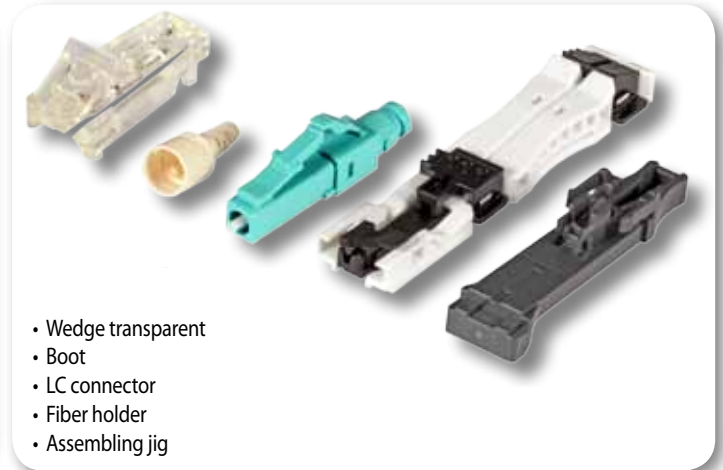
LC Connectors Field Installable

Art.-No.	Type	Type	Colour	PU
53196.1	Singlemode	9/125µ OS2	blue	12
53197.1	Multimode	50/125µ OM3	aqua	12
53198.1	Multimode	50/125µ OM2	black	12

- Compatible with all standard LC connectors and adapter
- Easy installation in less than 2 minutes
- No need of special tools or glue
- No need of electrical power
- All necessary parts for assembly are included
- One set (12 pieces) of field installable connectors contains:
12 x connectors with wedge
12 x boots
1 x Assembling jig
1 x Fiber holder



- Wedge transparent
- Boot
- SC connector
- Fiber holder
- Assembling jig



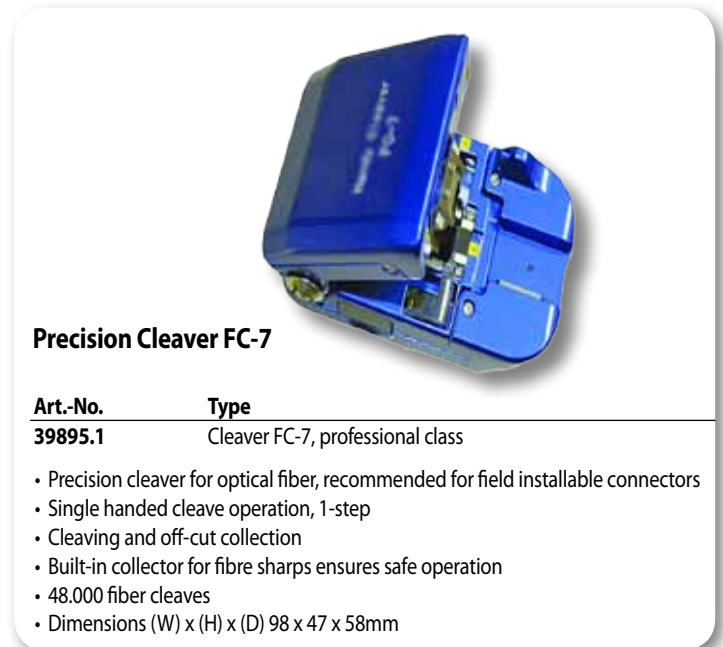
- Wedge transparent
- Boot
- LC connector
- Fiber holder
- Assembling jig



Miller® Fiber Stripper

Art.-No.	Type
39956.1	Miller® Tool FO-103-S "One-Hole"

- Opening for stripping the coating 250µ to 125µ
- Precision-made 127µ v-notch, no adjustment required



Precision Cleaver FC-7

Art.-No.	Type
39895.1	Cleaver FC-7, professional class

- Precision cleaver for optical fiber, recommended for field installable connectors
- Single handed cleave operation, 1-step
- Cleaveing and off-cut collection
- Built-in collector for fibre sharps ensures safe operation
- 48.000 fiber cleaves
- Dimensions (W) x (H) x (D) 98 x 47 x 58mm



LC Duplex - IP67 Industrial Connector

Art.-No.	Type	Housing	Connector	PU
53188.1	Singlemode	black	blue	1
53189.1	Multimode	black	beige	1

- LC duplex connector IP67 for harsh industrial environments
- Plastic housing with bayonet locking acc. to IEC 61076-3-106
- Chemical resistance
- Durable mechanical mating, minimum of 500 matings
- Cable entry with integrated gland and bend protection
- Suitable for cables OD 5,0 - 8,0mm with 2,0mm or 3,0mm jacketed subunits
- Temperature range -40°C -- +70°C



LC Duplex - IP67 Industrial Adapter

Art.-No.	Type	Housing	Plug	PU
53190.1	Singlemode	black	blue	1
53191.1	Multimode	black	----	1

- LC duplex adapter IP67 for harsh industrial environments
- Plastic housing with bayonet locking acc. to IEC 61076-3-106
- M28 thread with nut
- Chemical resistance
- Durable mechanical mating, minimum of 500 matings
- Kompatible with all standard LC connectors
- For all cases with wall thickness up to max. 5,0mm
- Temperature range -40°C -- +70°C



IP67 LC Duplex preassembled with Universal Breakoutcable

Art.-No.	Description	Fiber	connector	PU
53192.x	Singlemode	E9/125μ	blue	1
53193.x	Multimode OM2	G50/125μ	beige	1
53194.x	Multimode OM3	G50/125μ	beige	1
53195.x	Multimode OM4	G50/125μ	beige	1

- LC duplex connection cable IP67
- Plastic housing with bayonet locking acc. to IEC 61076-3-106
- Chemical resistance
- Durable mechanical mating, minimum of 500 matings
- Cable entry with integrated gland and bend protection
- U-V(ZN)HQBH Universal Indoor/Outdoor Breakoutcable
- UV-resistant, LSZH halogenfree, metalfree, black colour
- Cables are both-sided assembled with IP67 LC-Duplex connectors Singlemode or Multimode, length of choice

Further combinations of cables and connectors on request



LC Connectors

Art.-No.	Type	Colour	for Cablediameter	PU
53233.9	Multimode	beige	2,0 mm	100
53233.8	Multimode	beige	2,0 mm	100
53232.6	Singlemode	blue	2,0 mm	100
53232.7	Singlemode APC	green	2,0 mm	100
53234.6	Duplex clip	transparent	2,0 mm	100



SC Connectors

Art.-No.	Type	Colour	PU
Multimode			
53206.3	Plug & crimp ferrule	beige	100
53205.30	Duplex clip	beige	100
Singlemode			
53213.3	Plug & crimp ferrule	blue	100
53205.31	Duplex clip	blue	100

• Complete for 1.8 mm cable, incl. Crimpset



FC Connectors

Plug, crimp ferrule and boot

Art.-No.	Type	Colour	PU
53216.3	Multimode	black	100
53216.4	Multimode	red	100
53227.3	Singlemode	black	100
53227.4	Singlemode	red	100
53227.5	Singlemode APC	green	100



ST Connectors

Plug & crimp ferrule

Art.-No.	Type	PU
53202.3	Multimode	100
53210.3	Singlemode	100



Crimping Tool for ST, SC, FC and LC

Art.-No.	Type
39959.1	Crimping tool for ST, SC, FC and LC

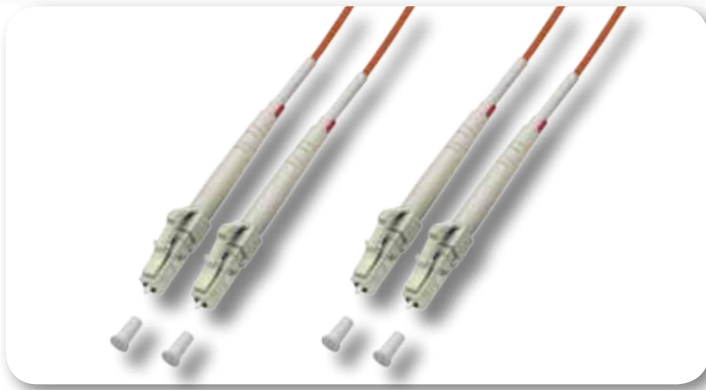


Boots for ST and SC plugs

Art.-No.	Type	Colour	PU
53202.32	for ST Ø 3.0 mm	black	100
53202.33	for ST Ø 3.0 mm	red	100
53202.31	for ST & SC Ø 0.9 mm	black	100
53206.31	for SC Ø 3.0 mm	red	100
53206.32	for SC Ø 3.0 mm	black	100



Duplex Jumper



LC / LC Duplex Jumper

Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
O0350.x	OS2 yellow	2 x LC/UPC blue	1
O0319.x	OM4 violet	2 x LC beige	1
O0312.x	OM3 aqua	2 x LC beige	1
O0310.x	OM2 orange	2 x LC beige	1
O0330.x	OM1 orange	2 x LC beige	1



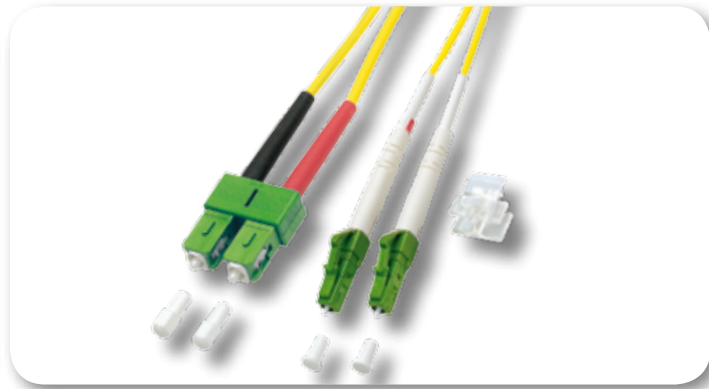
**LC/APC / LC/APC Duplex Jumper
LC/APC / LC/UPC Duplex Jumper**

Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
O0381.x	OS2 yellow	LC/APC green 8°	1
O0384.x	OS2 yellow	LC/APC green 8°, LC/UPC blue	1



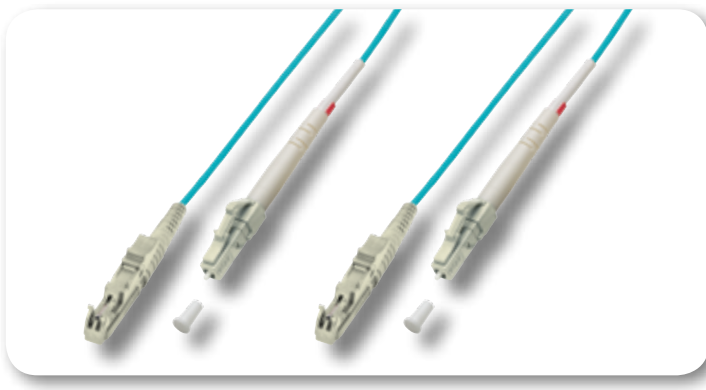
LC / SC Duplex Jumper

Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
O0360.x	OS2 yellow	LC/UPC + SC/UPC blue	1
O0323.x	OM4 violet	LC and SC beige	1
O0314.x	OM3 aqua	LC and SC beige	1
O0320.x	OM2 orange	LC and SC beige	1
O3061.x	OM1 orange	LC and SC beige	1



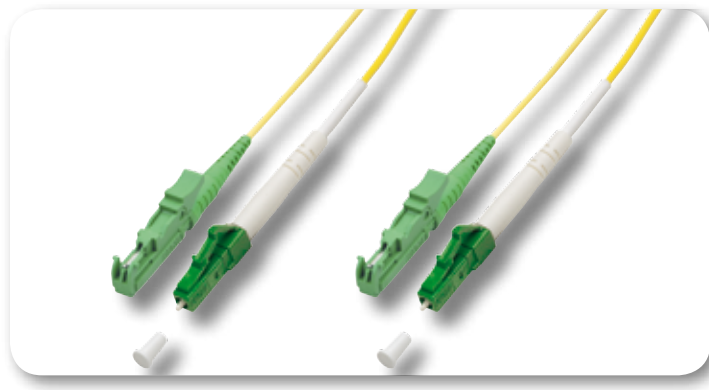
**LC/APC / SC/APC Duplex Jumper
LC/APC / SC/UPC Duplex Jumper**

Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
O0387.x	OS2 yellow	LC/APC green 8°, SC/APC green 8°	1
O0383.x	OS2 yellow	LC/APC green 8°, SC/UPC blue	1



LC / E2000® Duplex Jumper

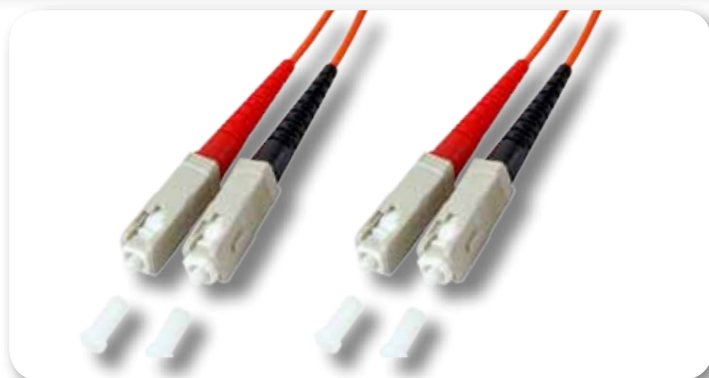
Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
O0364.x	OS2 yellow	LC/UPC blue, E2000®/UPC blue	1
O0341.x	OM4 violet	LC beige, E2000® beige	1
O0315.x	OM3 aqua	LC beige, E2000® beige	1
O0411.x	OM2 orange	LC beige, E2000® beige	1
O0421.x	OM1 orange	LC beige, E2000® beige	1



LC/APC / E2000®/APC Duplex Jumper

Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
O0389.x	OS2 yellow	LC/APC green 8°, E2000®/APC green 8°	1

Standard lengths in metres: 0.5 - 1.0 - 2.0 - 3.0 - 5.0 - 7.5 - 10.0 - 15.0 - 20.0



SC / SC Duplex Jumper

Art.-No.	Fiber/Jacket 3,0mm	Connector type	PU
O2513.x	OS2 yellow	SC/UPC blue, SC/UPC blue	1
O0318.x	OM4 violet	SC beige, SC beige	1
O7413.x	OM3 aqua	SC beige, SC beige	1
O6413.x	OM2 orange	SC beige, SC beige	1
O6423.x	OM1 orange	SC beige, SC beige	1



SC/APC / SC/APC Duplex Jumper

Art.-No.	Fiber/Jacket 3,0mm	Connector type	PU
O2561.x	OS2 gelb	SC/APC green 8°	1



SC / ST Duplex Jumper

Art.-No.	Fiber/Jacket 3,0mm	Connector type	PU
O2073.x	OS2 yellow	SC/UPC blue, ST/UPC	1
O0347.x	OM4 violet	SC beige, SC beige	1
O7353.x	OM3 aqua	SC beige, SC beige	1
O6353.x	OM2 orange	SC beige, SC beige	1
O6363.x	OM1 orange	SC beige, SC beige	1



SC/APC / LC/UPC Duplex Jumper

Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
O0362.x	OS2 yellow	SC/APC green 8°, LC/UPC blue	1



SC / E2000® Duplex Jumper

Art.-No.	Fiber/Jacket	Connector type	PU
O0940.x	OS2 yellow	SC/UPC blue, E2000®/UPC blue	1
O0342.x	OM4 violet	LC, E2000® beige or bk.	1
O0953.x	OM3 aqua	LC, E2000® beige or bk.	1
O0949.x	OM2 orange	LC, E2000® beige or bk.	1
O0959.x	OM1 orange	LC, E2000® beige or bk.	1



SC/UPC / E2000®/APC Duplex Jumper

Art.-No.	Fiber/Jacket 3,0mm	Connector type	PU
O0939.x	OS2 yellow	SC/UPC, E2000®/APC green 8°	1

Standard lengths in metres: 0.5 - 1.0 - 2.0 - 3.0 - 5.0 - 7.5 - 10.0 - 15.0 - 20.0



LC / ST Duplex Jumper

Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
00361.x	OS2 yellow	LC/UPC blue and ST/UPC	1
00326.x	OM4 violet	LC beige and ST	1
00313.x	OM3 aqua	LC beige and ST	1
00321.x	OM2 orange	LC beige and ST	1
00371.x	OM1 orange	LC beige and ST	1



E2000®/APC / ST Duplex Jumper

Art.-No.	Fiber/Jacket 3,0mm	Connector type	PU
00920.x	OS2 yellow	E2000®/APC green 8°, ST/UPC	1



ST / E2000® Duplex Jumper

Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
00909.x	OS2 yellow	ST/UPC, E2000®/UPC blue	1
00343.x	OM4 violet	ST, E2000® beige o. sw.	1
00907.x	OM3 aqua	ST, E2000® beige o. sw.	1
00919.x	OM2 orange	ST, E2000® beige o. sw.	1
00929.x	OM1 orange	ST, E2000® beige o. sw.	1



E2000®/APC / LC/UPC Duplex Jumper

Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
00937.x	OS2 yellow	E2000®/APC green 8°, LC/UPC blue	1



LC/UPC / DIN/UPC Duplex Jumper

Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
00349.x	OS2 yellow	LC/UPC blue, DIN/UPC	1



E2000®/APC / E2000®/APC Duplex Jumper

Art.-No.	Fiber/Jacket 3,0mm	Connector type	PU
00933.x	OS2 yellow	E2000®/APC green 8°	1

Standard lengths in metres: 0.5 - 1.0 - 2.0 - 3.0 - 5.0 - 7.5 - 10.0 - 15.0 - 20.0



ST / ST Duplex Jumper

Art.-No.	Fiber/Jacket 3,0mm	Connector type	PU
O2003.x	OS2 yellow	ST/UPC	1
O0348.x	OM4 violet	ST	1
O7013.x	OM3 aqua	ST	1
O6013.x	OM2 orange	ST	1
O6023.x	OM1 orange	ST	1



MTRJ / MTRJ Duplex Jumper

Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
O0724.x	OS2 yellow	MTRJ black	1
O0650.x	OM3 aqua	MTRJ black	1
O0700.x	OM2 orange	MTRJ black	1
O0701.x	OM1 orange	MTRJ black	1



ST / MTRJ Duplex Jumper

Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
O0723.x	OS2 yellow	ST/UPC, MTRJ black	1
O0660.x	OM3 aqua	ST, MTRJ black	1
O0710.x	OM2 orange	ST, MTRJ black	1
O0711.x	OM1 orange	ST, MTRJ black	1



SC / MTRJ Duplex Jumper

Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
O0722.x	OS2 yellow	SC/UPC blue, MTRJ black	1
O0670.x	OM3 aqua	SC beige, MTRJ black	1
O0720.x	OM2 orange	SC beige, MTRJ black	1
O0721.x	OM1 orange	SC beige, MTRJ black	1



LC / MTRJ Duplex Jumper

Art.-No.	Fiber/Jacket	Connector type	PU
O0704.x	OS2 yellow	LC/UPC blue, MTRJ	1
O0680.x	OM3 aqua	LC beige, MTRJ	1
O0730.x	OM2 orange	LC beige, MTRJ	1
O0705.x	OM1 orange	LC beige, MTRJ	1



LC / LC Duplex Compact Jumper, Roundcable 3,0mm

Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
O03012.x	OS2 gelb	LC/UPC blau	1
O03011.x	OM3 aqua	LC beige	1
O03010.x	OM2 orange	LC beige	1

Standard lengths in metres: 0.5 - 1.0 - 2.0 - 3.0 - 5.0 - 7.5 - 10.0 - 15.0 - 20.0

SOLID!

Crush-resistance = 30.000 N per square centimeter equals 3 tons / cm²

- Stainless steel spiral coil and stainless steel braid for high mechanical protection
- Non-crushable, shock-proof, bend-resistant
- Very high flexibility
- High lateral pressure and tensile resistance

Available lengths in metres: 1.0 - 2.0 - 3.0 - 5.0



LC / SC Duplex Jumper steel armored

Art.-No.	Fiber	Jacket	Connector type	PU
O6506.x	I-V (BS) H 2G 50/125µ OM2	grey	LC and SC beige	1
O6507.x	I-V (BS) H 2E 9/125µ OS2	blue	LC and SC blue	1



LC / LC Duplex Jumper steel armored

Art.-No.	Fiber	Jacket	Connector type	PU
O6504.x	I-V (BS) H 2G 50/125µ OM2	grey	LC beige	1
O6505.x	I-V (BS) H 2E 9/125µ OS2	blue	LC blue	1



LC / ST Duplex Jumper steel armored

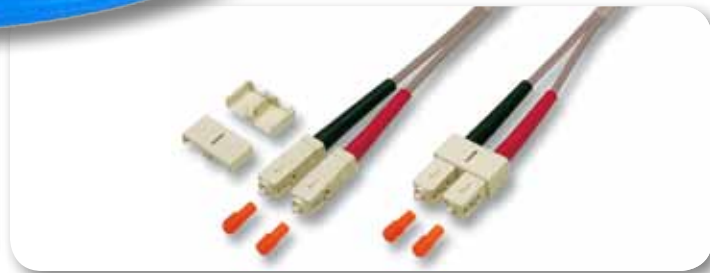
Art.-No.	Fiber	Jacket	Connector type	PU
O6508.x	I-V (BS) H 2G 50/125µ OM2	grey	LC beige and ST	1
O6509.x	I-V (BS) H 2E 9/125µ OS2	blue	LC blue and ST	1



LC / LC Duplex Compact Jumper, steel armored round cable

Art.-No.	Fiber	Jacket	PU
O65100.x	I-V (BS) H 2G 50/125µ OM2	grey	1
O65101.x	I-V (BS) H 2E 9/125µ OS2	blue	1

• OM3, OM4 and other connectors available on request



SC / SC and SC / ST Duplex Jumper steel armored

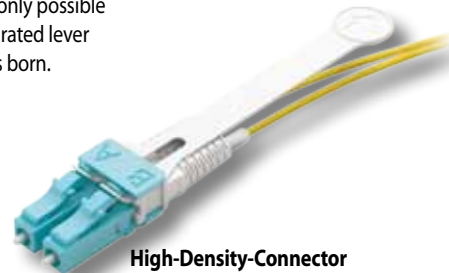
Art.-No.	Fiber	Jacket	Connector type	PU
O6500.x	I-V (BS) H 2G 50/125µ OM2	grey	SC beige	1
O6501.x	I-V (BS) H 2E 9/125µ OS2	blue	SC blue	1
O6502.x	I-V (BS) H 2G 50/125µ OM2	grey	SC beige and ST	1
O6503.x	I-V (BS) H 2E 9/125µ OS2	blue	SC blue and ST	1

Standard lengths in metres: 0.5 - 1.0 - 2.0 - 3.0 - 5.0



**Singlemode G.657A2
High Density LC-Duplex to LC-Duplex Standard**

The pictures left and right showing in very high density installed LC-Duplex adapter. Due to this high density it is impossible to patch with standard LC-Duplex jumper. Patching is only possible with new designed LC-Duplex connector with integrated lever for locking/unlocking, High Density with LC-HD was born.



High-Density-Connector



6 LC-Duplex Adapter Standard-Density

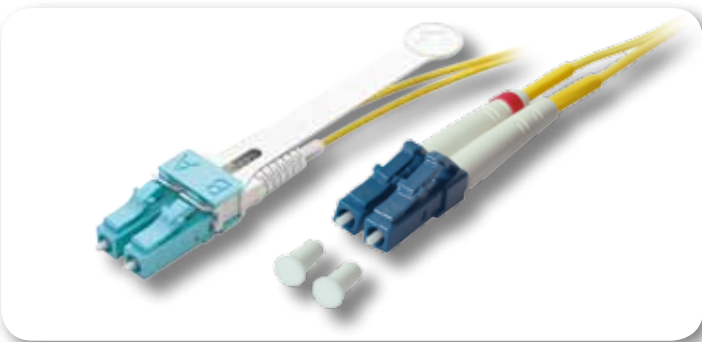
This picture shows enough space between installed LC-Duplex adapter for patching with standard LC-Duplex jumper..



You can (nearly) fold it !

ITU-T	Bending Radius		
	15mm	10mm	7,5mm
G.657A1	< 0,025dB	< 0,75dB	-
G.657A2	< 0,03dB	< 0,1dB	< 0,5dB

Attenuation in dB at 1550nm for 1 turn with bending radius acc. to table.

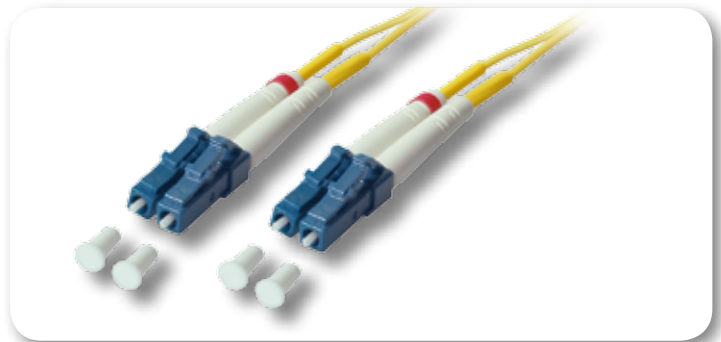


High Density LC/UPC to Standard LC/UPC Duplex Jumper

Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
O0350HD.x	G.657A2 yellow	LC-HD/UPC / LC/UPC blue	1
O0319HD.x	OM4 violet	LC-HD / LC beige	1
O0312HD.x	OM3 aqua	LC-HD / LC beige	1

- LC-HD connector with integrated lever for locking/unlocking
- HD lever and connector are inseparable linked
- Extremely high density for LC-Duplex applications possible

Standard lengths in metres: 1.0 - 2.0 - 3.0 - 5.0



**LC/UPC / LC/UPC Duplex Jumper
with bend-insensitive fiber ITU-T G.657A2**

Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
O0350Bl.x	OS2 yellow	LC/UPC blue	1

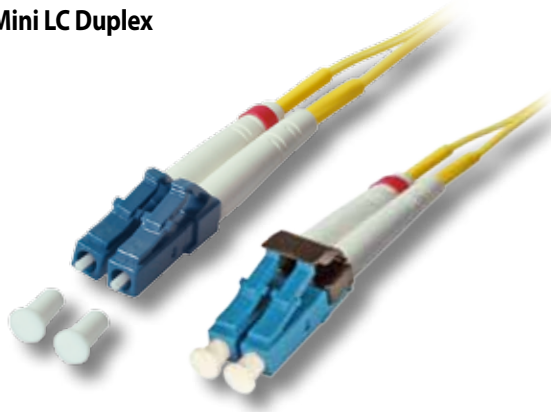
**LC/UPC / SC/UPC Duplex Jumper
with bend-insensitive fiber ITU-T G.657A2**

Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
O0360Bl.x	OS2 yellow	LC/UPC blue / SC/UPC blue	1

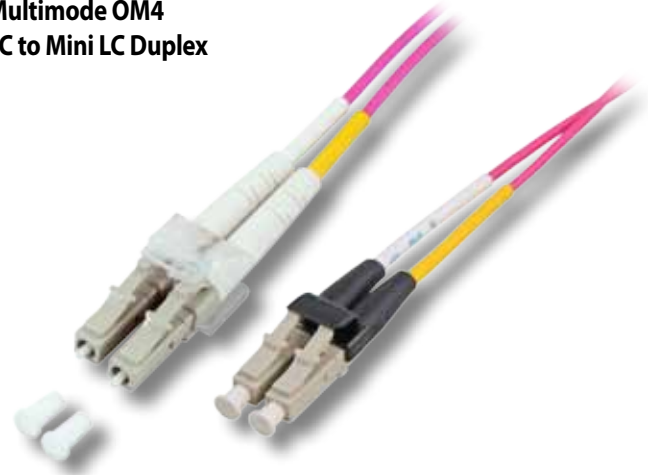
- Compatible to ITU-T G.652D and OS2
- Very dense bendings are possible without loss of energy, see table
- Other fiber qualities and types of connectors on request

Standard lengths in metres: 0.5 - 1.0 - 2.0 - 3.0 - 5.0 - 7.5 - 10.0 - 15.0 - 20.0

**Singlemode G.657A2
LC to Mini LC Duplex**



**Multimode OM4
LC to Mini LC Duplex**



LC/UPC / Mini LC/UPC Duplex Jumper

Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
00350Mini.x	G.657A2 gelb	LC/UPC blue / Mini LC blue	1

- Mini LC-Duplex with a pitch of 5,25mm was especially designed for the brandnew generation of mini transceiver (mSFP).
- Standard pitch of LC-Duplex ferrules is 6,25mm.
- Mini transceiver offer very high density as a big advantage.
- Compatible to standard LC-Duplex, except of different pitch.

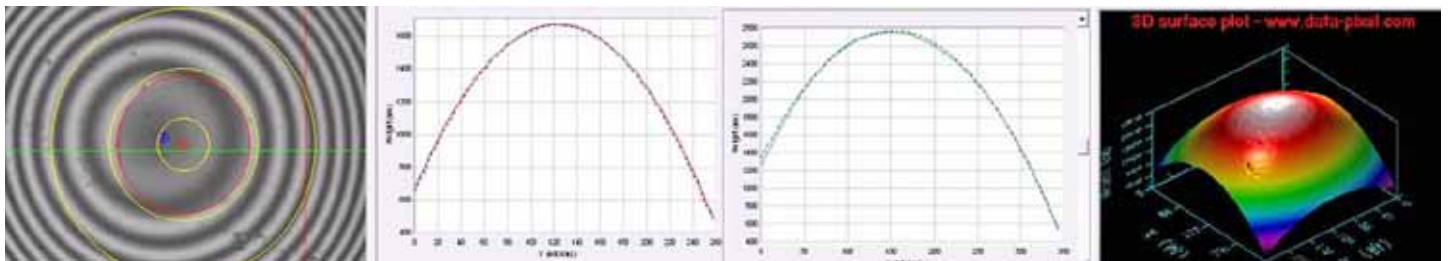
Standard lengths in metres: 1.0 - 2.0 - 3.0 - 5.0

LC / Mini LC Duplex Jumper

Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
00319Mini.x	OM4 violet	LC beige / Mini LC beige	1
00312Mini.x	OM3 aqua	LC beige / Mini LC beige	1

- Mini LC-Duplex with a pitch of 5,25mm was especially designed for the brandnew generation of mini transceiver (mSFP).
- Standard pitch of LC-Duplex ferrules is 6,25mm.
- Mini transceiver offer very high density as a big advantage.
- Compatible to standard LC-Duplex, except of different pitch.

Standard lengths in metres: 1.0 - 2.0 - 3.0 - 5.0



**LC/UPC / LC/UPC Duplex Jumper
with Interferometer Protocol**

Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
00350IT.x	OS2 yellow	LC/UPC blue	1

- 100%-Interferometer testing for each LC-plug.
- Hence best transmission values are guaranteed.
- Interferometer protocol enclosed each assembly.

Standard lengths in metres: 0.5 - 1.0 - 2.0 - 3.0 - 5.0 - 7.5 - 10.0 - 15.0 - 20.0



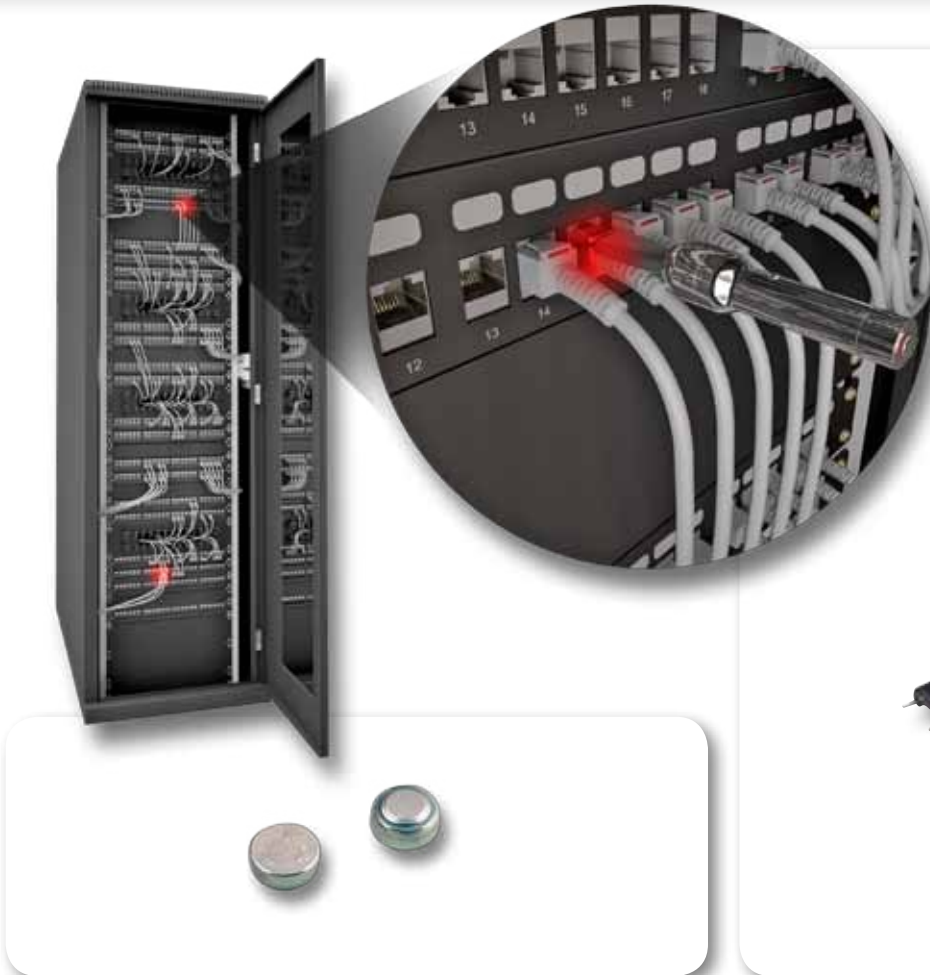
**LC/UPC / SC/UPC Duplex Jumper
with Interferometer Protocol**

Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
00360IT.x	OS2 yellow	LC/UPC blue / SC/UPC blue	1

- 100%-Interferometer testing for each LC-plug and SC-plug.
- Hence best transmission values are guaranteed.
- Interferometer protocol enclosed each assembly.



DC10001



Battery for Detector

Art.-No.	Type	PU
DC10002	Battery LR41	1

- Necessary for fully replacement of the batteries in the detector: 4 pcs.

INFRALAN® LED Detector

Art.-No.	Type
DC10001	INFRALAN® VC45 Detector

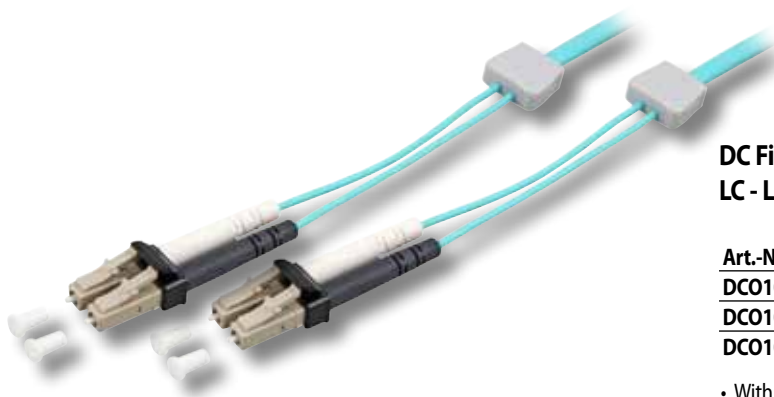
- For activating the LED patch cables
- Different flash-signals (short/long) or a continuous lighting can be generated
- Included in delivery: detector, 4 x coin cell LR41, etui

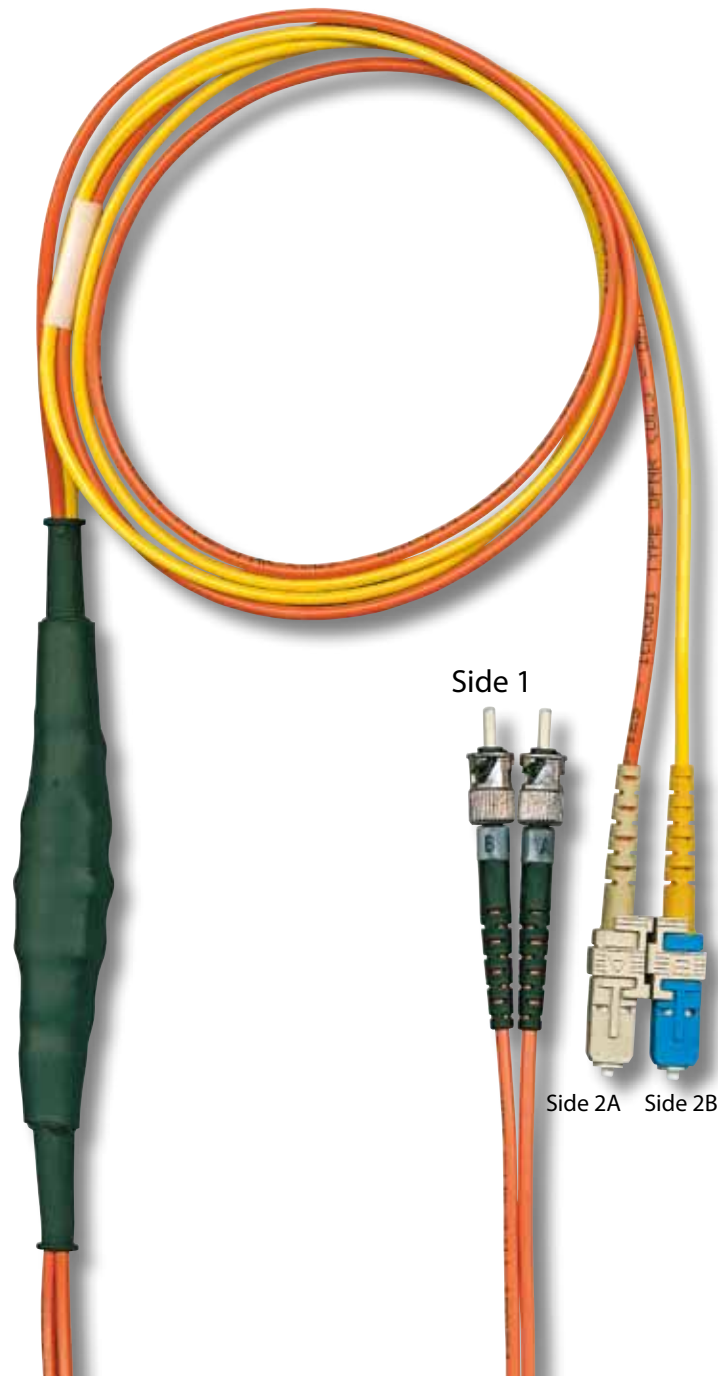
**DC Fiber Optic Patch Cable
LC - LC with LED for routing tracing**

Art.-No.	Fiber	Jacket 2,0mm	Connector type	PU
DCO1017.x	9/125µ OS2	yellow	LC duplex	1
DCO1041.x	50/125µ OM4	violet	LC duplex	1
DCO1001.x	50/125µ OM3	aqua	LC duplex	1

- With illuminated cable splitters plugs for traceability of the cable run
- Optical detection up to 200 m
- Designed for the use in office, industry and data centres
- Contacting detector in both cable splitters of the patch cables LED's are activated, which allows an explicit allocation of the patching
- The patch cable offers a maximum of data security by minimizing of operation failures (mis-patchings, disconnections)

Available lengths in metres:
0.5 - 1.0 - 2.0 - 3.0 - 5.0 - 7.5 - 10.0 - 15.0 - 20.0





Mode-Conditioning Duplex Jumper for Gigabit Ethernet 1000BaseLX

Art.-No.	Side 1	Side 2A	Side 2B
O6356.x	2 x ST 50/125 μ	1 x SC 50/125 μ	1 x SC 9/125 μ
O6357.x	2 x ST 62.5/125 μ	1 x SC 62.5/125 μ	1 x SC 9/125 μ
O6358.x	2 x SC 50/125 μ	1 x SC 50/125 μ	1 x SC 9/125 μ
O6359.x	2 x SC 62.5/125 μ	1 x SC 62.5/125 μ	1 x SC 9/125 μ
O6360.x	2 x ST 50/125 μ	1 x LC 50/125 μ	1 x LC 9/125 μ
O6370.x	2 x ST 62.5/125 μ	1 x LC 62.5/125 μ	1 x LC 9/125 μ
O6371.x	2 x SC 50/125 μ	1 x LC 50/125 μ	1 x LC 9/125 μ
O6376.x	2 x SC 62.5/125 μ	1 x LC 62.5/125 μ	1 x LC 9/125 μ

- IEEE802.3z Gigabit Ethernet 1000BaseLX
- Allows full Gigabit Ethernet link distance
- Reduces Differential Mode Delay (DMD)
- Low insertion loss
- Usable for patching active components to the passive network instead of standard duplex jumpers

Standard lengths in metres:

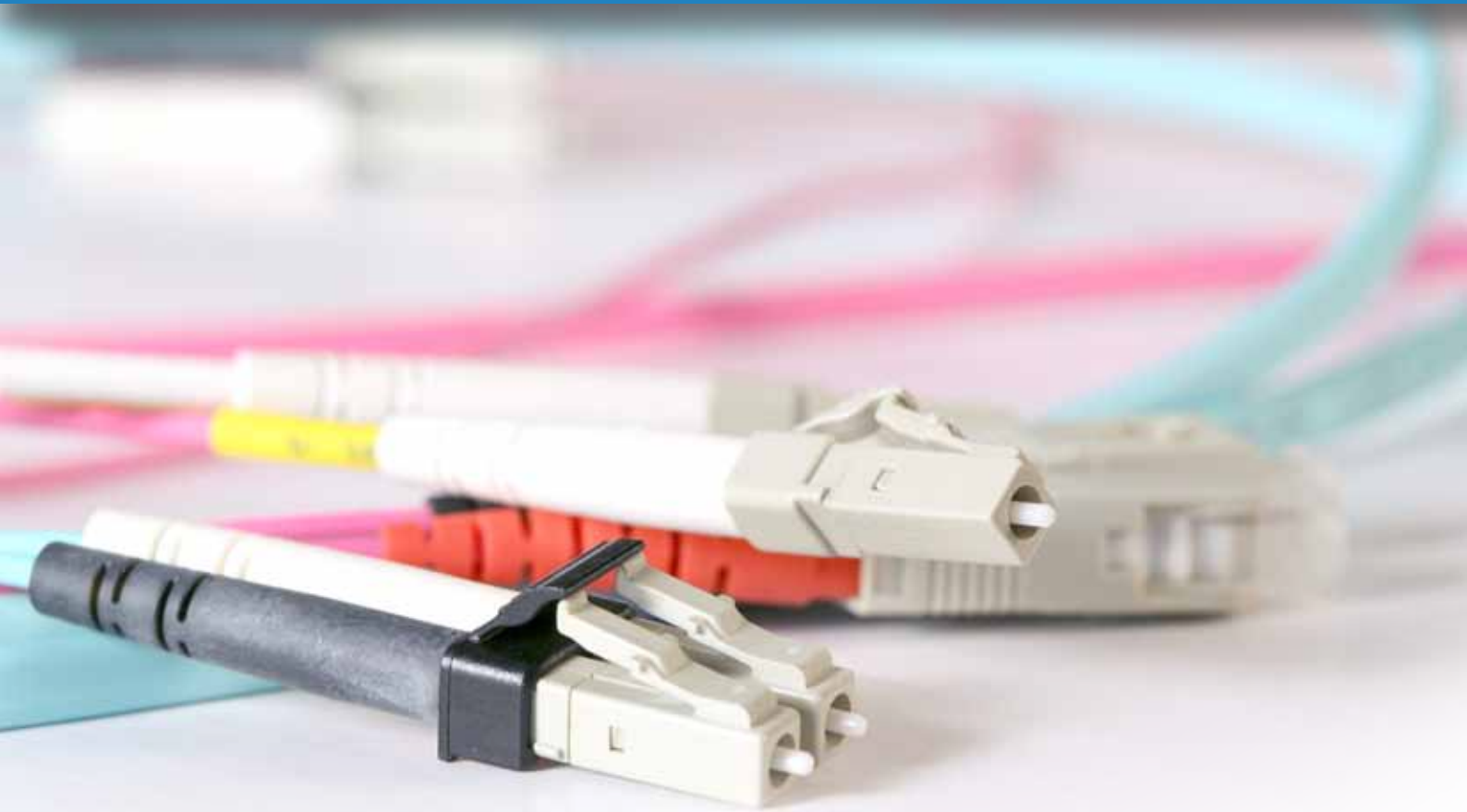
2.0 - 3.0 - 5.0

These specially designed patch cables have a single-mode cable spliced to a multimode patch cable with a defined core excentricity. This has the effect that the laser spot is not focused on to the DMD-susceptible core centre, but onto the DMD-insensitive core edge area of the Multimode fiber.

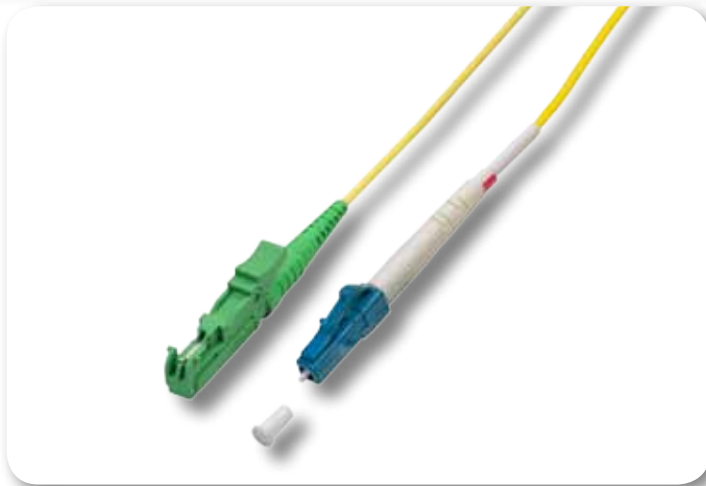
Mode-Conditioning jumper are used at both ends of the fiber optical link. The singlemode end of the first jumper ist connected with the transwith port (TX) at the begin and the second singlemode end with the transwith port (TX) at the end of the link.

Application is to optimize multimode links and extend the length-restriction for Gigabit Ethernet 1000BaseLX (1300nm).

In the window „850nm“ singlemode fibers are undefined, so Mode-Conditioning is not possible for Ethernet protocol 1000BaseSX.

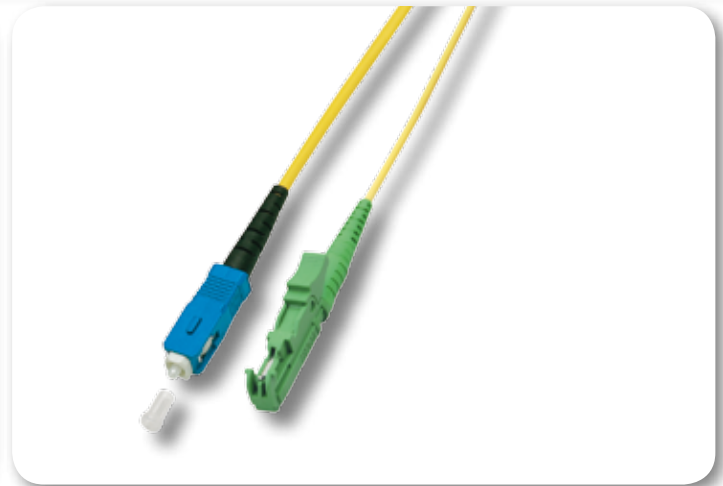


Simplex Jumper Launching Fiber Outlets Ethernet Distances



E2000®/APC / LC/UPC Simplex Jumper

Art.-No.	Fiber/Jacket	Cable	Connector
01420.x	OS2 yellow	2.0 mm	E2000®/APC green 8°, LC/UPC blue



E2000®/APC / SC/UPC Simplex Jumper

Art.-No.	Fiber/Jacket	Cable	Connector
00923.x	OS2 yellow	3.0 mm	E2000®/APC green 8°, SC/UPC blue



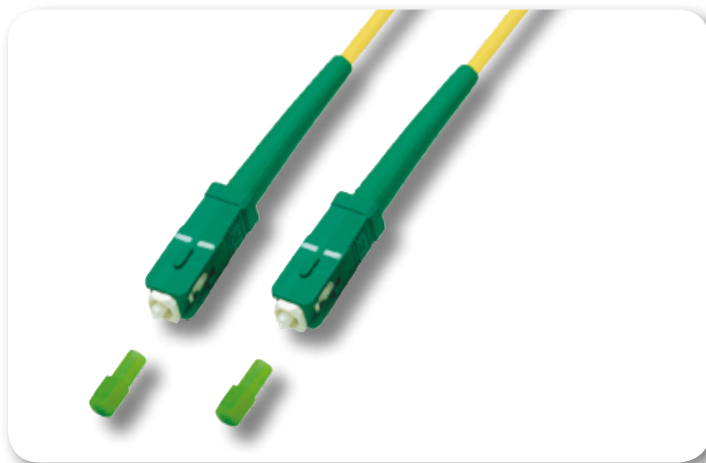
E2000®/APC / E2000®/APC Simplex Jumper

Art.-No.	Fiber/Jacket	Cable	Connector
00833.x	OS2 yellow	3.0 mm	E2000®/APC green 8°



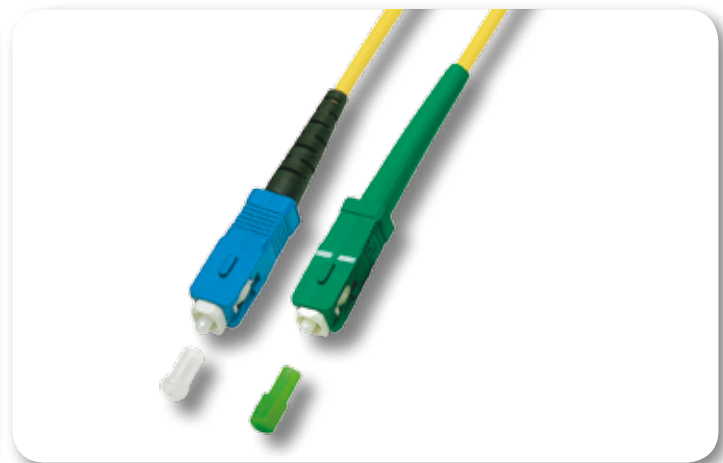
SC/APC / LC/UPC Simplex Jumper

Art.-No.	Fiber/Jacket	Cable	Connector
00946.x	OS2 yellow	2.0 mm	SC/APC green 8°, LC/UPC blue



SC/APC / SC/APC Simplex Jumper

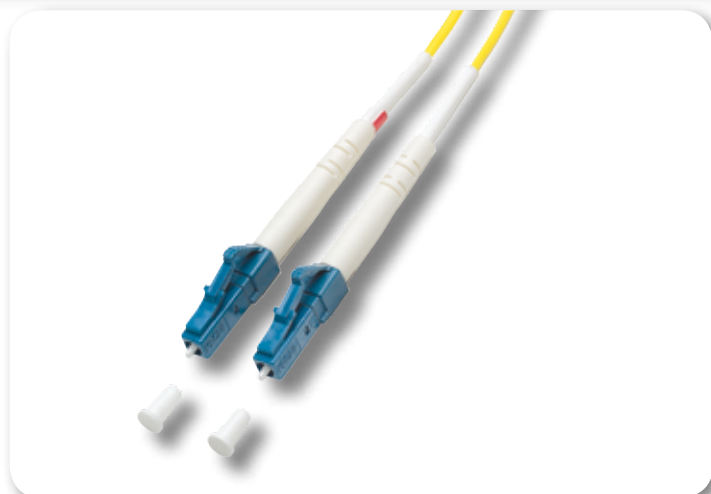
Art.-No.	Fiber/Jacket	Cable	Connector
00944.x	OS2 yellow	3.0 mm	SC/APC green 8°



SC/APC / SC/UPC Simplex Jumper

Art.-No.	Fiber/Jacket	Cable	Connector
00928.x	OS2 yellow	3.0 mm	SC/APC green 8°, SC/UPC blue

Standard lengths in metres: 0.5 - 1.0 - 2.0 - 3.0 - 5.0 - 7.5 - 10.0 - 15.0 - 20.0



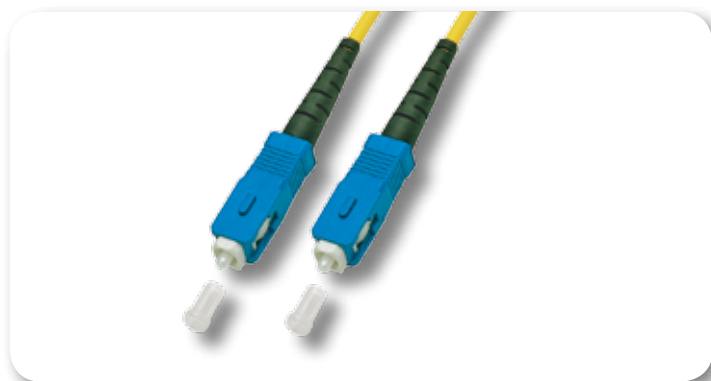
LC/UPC / LC/UPC Simplex Jumper

Art.-No.	Fiber/Jacket	Cable	Connector
00948.x	OS2 yellow	2.0 mm	LC/UPC blue



LC/UPC / SC/UPC Simplex Jumper

Art.-No.	Fiber/Jacket	Cable	Connector
00947.x	OS2 yellow	2.0 mm	LC/UPC blue, SC/UPC blue



SC/UPC / SC/UPC Simplex Jumper

Art.-No.	Fiber/Jacket	Cable	Connector
01323.x	OS2 yellow	3.0 mm	SC/UPC blue



LC / E2000® Simplex Jumper

Art.-No.	Fiber/Jacket	Cable	Connector
05721.x	OM1 orange	2.0 mm	LC beige/E2000® beige
05711.x	OM2 orange	2.0 mm	LC beige/E2000® beige
05711.xOM3	OM3 aqua	2.0 mm	LC beige/E2000® beige
05711.xOM4	OM4 violet	2.0 mm	LC beige/E2000® beige
00863.x	OS2 yellow	2.0 mm	LC/UPC blue, E2000®/UPC blue



E2000® / SC Simplex Jumper

Art.-No.	Fiber/Jacket	Cable	Connector
00859.x	OM1 orange	3.0 mm	E2000® beige, SC beige
00849.x	OM2 orange	3.0 mm	E2000® beige, SC beige
00839.x	OS2 yellow	3.0 mm	E2000®/UPC blue, SC/UPC blue



E2000® / ST Simplex Jumper

Art.-No.	Fiber/Jacket	Cable	Connector
05721.x	OM1 orange	2.0 mm	E2000® beige, ST
05711.x	OM2 orange	2.0 mm	E2000® beige, ST
00863.x	OS2 yellow	2.0 mm	E2000®/UPC blue, ST/UPC

Standard lengths in metres: 0.5 - 1.0 - 2.0 - 3.0 - 5.0 - 7.5 - 10.0 - 15.0 - 20.0



Solid - Functional - Lockable



Steel-Armored Cable Assembly



Aluminium Launching Fiber-Box

- Launching fiber in an robust aluminium box
- Exceptionally protected design
- Integrated metal mounting-plate with foamed rubber coating
- Integrated cable duct with bending protection
- Steel-reinforced cable, 3 m per plug for optimal fiber protection
- Holding capacity 2000 m pigtail fiber
- Recommended launching fiber quantity per box: 2 (special assembling on request)

Ordering example:
OV1K 50 SC X E2 A 0500 OS2

	Fiber	Plug 1	Ferrule Plug 1	Plug 2	Ferrule Plug 2	Fiber Length in Metres	Fiber Quality
OV1K Alu-case for 1 pre-launch fiber	50 Multimode 50/125µ	SC SC Plug	X PC Standard	SC SC Plug	X PC Standard	0500 500 Metres	OM1 62.5/125µ
		LC LC Plug		LC LC Plug			OM2 50/125µ
OV2K Alu-case for 2 pre-launch fiber	62 Multimode 62.5/125µ	FC FC Plug	A	FC FC Plug	A APC 8°	xxxxx Length at customers choice	OM3 50/125µ
		DI DIN Plug		DI DIN Plug			OM4 50/125µ
OV1B Standard box plastic	09 Singlemode 9/125µ	E2 E2000® Plug	A APC 8°	E2 E2000® Plug	A APC 8°	xxxxx Length at customers choice	OS2 9/125µ
		ST ST Plug		ST ST Plug			



Launching Fiber Box Standard OV1B

- Pre-launch fiber in
- Launching fiber in the standard plastic box
- Integrated hard fiber metal mounting-plate
- Integrated cable duct
- Holding capacity 1000 m pigtail fiber
- Recommended launching fiber quantity per box: 1 (special assembling on request)



delivery without Adapter

Multi System FO Outlet

Art.-No.	Colour
ET-25170	RAL9010, pure-white
ET-25171	RAL1013, pearl-white

- Clip and screw lock for the adapter plates
 - Die-cast housing, duct/in wall mount
 - Faceplate ABS 50 x 50 mm
 - With laser symbol and text field
 - Incl. 9 unassembled adapter plates for SC-simplex, SC-duplex, E2000®-simplex, MTRJ, AMP/MTRJ, ST, FC, DIN, LC-duplex and a blanking plate
- Supplied without adapters



Frame Set for Ackermann Floor Tanks

Art.-No.	Type
ET-25173.1	2-level frame set for 2 x adapter sheet
ET-25173.2	3-level frame set for 3 x adapter sheet
ET-25173.3	3 x RJ45 modules
ET-25173.4	Adapter sheet for 3 x SC duplex adapters
ET-25173.5	3 x SC simplex or LC duplex

- Frame set for 2 resp. 3 adapter sheet for installation in Ackermann floor tanks
- Modular construction for mixing Twisted Pair and FO
- Angled construction for an one level cable management, with enough room for labelling and inscription



FO Frame Set for E2000® simplex, SC simplex or LC duplex

Art.-No.	Type
ET-25085FO	Fiber Optic Frame Set RAL9010

- 2 Ports for E2000®simplex, SC simplex or LC duplex
- Cover and cenral plate 50x50mm acc. to DIN49075, compatible to all switch programs with adapter plate of switch program manufacturer
- Integrated label behind transparent cover
- Delivery contains:
 - 1 x metal frame
 - 1 x plastic cover
 - 1 x plastic central plate
 - 4 x M2-screws

OM-Classifikation ISO/IEC 11801		OM1	OM2	OM3	OM4
Min. modal bandwidth with overfilled launch for all core modes [MHz*km]	850 nm	200	500	1500	3500
	1300 nm	500	500	500	500
Min. modale bandwidth (effective) laser bandwidth [MHz*km]	850 nm	n/s	n/s	2000	4700
Gigabit Ethernet 1000 BaseSX	850 nm	275 m	550 m	1000 m	> 1000 m
Gigabit Ethernet 1000 BaseLX	1300 nm	550 m	550 m	550 m	550 m
10 Gigabit Ethernet 10 GBaseSX	850 nm	-/-	-/-	300 m	550 m
Attenuation [dB/km]	1300 nm	1.5	1.5	1.5	1.5
	850 nm	3.5	3.5	3.5	3.5

According to IEEE 802.3, OM4 draft acc. to ISO/IEC 11801 and EN50173

Fiber Type	Core/Coating	Attenuation [dB/km]		BLP [MHz*km]	BLP [MHz*km]	Gigabit	Gigabit	10Gigabit	40 Gigabit
		1300nm	850nm	LED stimulate (OFL)	Laser stimulate (EMB)	1000BaseSX	1000BaseLX	10GBaseSX	
OM1	62.5/125µ	1.5	3.5	200	(n.a.)	275 m	550 m	ca. 30 m	-
OM2	50/125µ	1.5	3.5	500	(n.a.)	550 m	550 m	ca. 80 m	-
OM3	50/125µ	1.5	3.5	1500	2000	1000 m	550 m	300 m	100m
OM4	50/125µ	1.5	3.5	3500	4700	>1000 m	550 m	550 m	150m

BLP = Bandwidth-Length-Product

Number	Parameters	Abbreviation	Property
1	Cable type	I	Indoor cable
		A	Outdoor cable
		AT	Breakout cable
2	Fiber guard	F	Fiber with 250 µm Buffer
		V	Full core, i.e. F with 900 µm buffer
		H	Hollow core, one fiber dry
		W	Hollow core filled with GEL
		B	Bundled core, many fibers dry
		D	Bundled core filled with GEL
		S	Metal strand as cable core
3	Central element	S	Metal strand as cable core
4	Cable filling	F	Hollow core filled with GEL
5	Outer jacket	H	Halogen-free material
		Y	PVC (polyvinyl chloride)
		2Y	PE (poly ethylene)
		(L)2Y	Sheath with PE
		(D)2Y	PE with plastic barrier layer
		(ZN)2Y	PE with non-metallic strain relief
		(BN)2Y	PE with non-metallic glas-fiber yarn armouring
		4Y	PA (rodent-proof polyamide)
6	Armouring	11Y	PUR (polyurethane, elastic, chemically resistant)
		B	Armouring, general
		BY	Armouring plus PVC protective sheath
		B2Y	Armouring plus PE protective sheath
		Q	Swelling fleece wrap
7	Number of fibers	e.g.: 6	6 full cores or cable
		4 x 6	4 bundle cores, each with 6 fibers
8	Fiber type	E	Single-mode fiber (Single-mode)
		G	Gradient index fiber (Multi-mode)
		S	Step index fiber, glass/glass
		K	Step index fiber, glass/plastic
		P	Plastic fiber
9	Fiber core	µm	e.g.: 9, 50 or 62.5
10	Fiber jacket	µm	e.g.: 125
11	Attenuation	dB/km	at the wavelength of Nr. 12
12	Wavelength	B	850 nm
		F	1300 nm (MM) and 1310 nm (SM)
		H	1550 nm
13	Dispersion	MHz x km	Bandwidth on multimode fibers
		ns/km	with single-mode also ps/nm/km
14	Special types	LG	Layer stranding of the cable
		SZ	SZ stranding of the cable



Trunk Cable Pre-assembled Raw Cable



Characteristics and advantages of Trunk cables:

- 2 up to 48 fibers per cable (other Trunks available on request)
- Pre-assembled, polished and factory-tested
- Both-sided assembled with stepped plug whips
- Ready to use, no need for expensive splice- and measuring equipment
- With Premium or Standard cable divider at customers choice
- Attenuation protocol for each assembled connector included in delivery
- All possible combinations of connectors like LC, E2000, SC and ST available
- Identification with cable markers
- Delivery depending on length and type: one way drum or cable ring

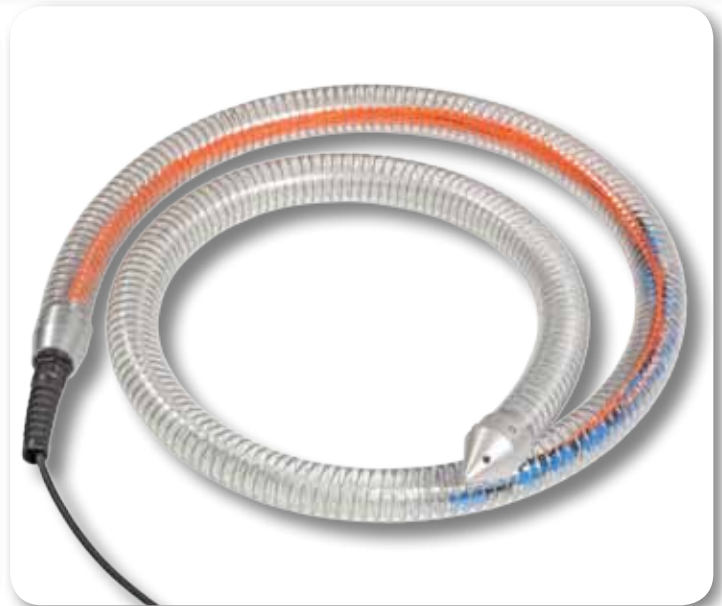


Cable Divider, Drawing-In and Plug Protection Tube "Premium 1"

Art.-No.	Type	PU
B9000.2	Cable Divider "Premium 1" up to 24 fibers	2

- Professional drawing-in tube with metal cable divider
- M20 x 1.5 cable gland with strain relief and bend protection
- Possible cable diameter 6 - 12 mm
- Both-sided 1.7 mm groove for fixing in the U-shaped PG16 opening of the splice box
- M25 fixing with included counter nut
- Protection tube armoured with steel spiral coil
- Metal head with 4 mm openings for the tie element

Suitable for all splice boxes



Cable Divider, Drawing-In and Plug Protection Tube "Premium 2"

Art.-No.	Type	PU
B9000.2-24	Cable Divider "Premium 2" from 24 fibers	2

- Professional drawing-in tube with metal cable divider
- M25 to M20 reducer for cable entry
- M20 x 1.5 cable gland with strain relief and bend protection
- Possible cable diameter 6 - 12 mm (with M25x1,5: 13 - 18mm)
- Both-sided 1.7 mm groove for fixing in the U-shaped PG16 opening of the splice box
- M25 fixing with included counter nut
- Protection tube armoured with steel spiral coil
- Metal head with 4 mm openings for the tie element

Suitable for splice boxes 1U slideless unit, 2U and 3U splice boxes

Detail



Drawing-In Tube Standard

Art.-No.	Type	PU
B9000.1	Drawing-in Tube Standard	1

- Line outside diameter max. 6-15 mm, solid, flexible plastic tube
- Outside diameter 40 mm
- Reusable

The both-sided Premium cable divider has to be ordered in addition to assembled Trunk cable.

Ordering example with cable divider, protection tube and drawing-in tube:

Art.-No.	Cable divider	PU
08122.400	U-DQ(ZN)BH 4E9/125µ with LC connectors 400 m	1
B9000.2	Premium 1 cable divider	2

Standard drawing-in tube has to be ordered in addition to assembled Trunk cable as well as necessary cable gland.

Art.-No.	Cable divider	PU
08122.400	U-DQ(ZN)BH 4E9/125µ with LC connectors 400 m	1
B9000.1	Drawing-in Tube Standard	1
53010.5 or 53012.1	PG16-gland with counter nut	2
53012.1	M20-gland with counter nut	2



Universal cable pre-assembled



U-DQ(ZN)BH OS2 E9/125μ



	4	8	12	24
E2000 APC / E2000 APC	O03871.x	O03872.x	O03911.x	O03910.x
E2000 APC / LC/APC	O03952.x	x	x	x
E2000 APC / SC/APC	O8804.x	x	x	O03890.x
E2000 APC / LC/PC	O03930.x	O03926.x	O03917.x	O03929.x
E2000 APC / SC/PC	O03851.x	x	O03844.x	x
E2000 APC / ST/PC	O03860.x	x	O03861.x	x

OS2



	4	8	12	24
E2000/PC / E2000/PC	O8125.x	O8461.x	O8146.x	O8834.x
E2000/PC / LC/PC	O8417.x	x	x	x
E2000/PC / SC/PC	O8126.x	O8460.x	O8147.x	O8826.x
E2000/PC / ST/PC	O8124.x	O8454.x	O8144.x	O8833.x

OS2



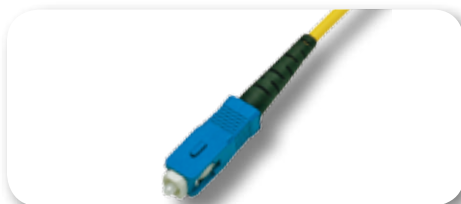
	4	8	12	24
LC/PC / LC/PC	O8122.x	O8132.x	O8814.x	O8832.x
LC/PC / SC/PC	O8430.x	O8432.x	O8442.x	O8829.x
LC/PC / ST/PC	O8123.x	O8133.x	O8143.x	O8828.x

OS2



	4	8	12	24
SC/APC / SC/APC	O8428.x	O8439.x	O8445.x	O8835.x
SC/APC / LC/PC	O8418.x	O8438.x	O8446.x	O8827.x
SC/APC / SC/PC	O8422.x	O8435.x	O8443.x	O8162.x

OS2



	4	8	12	24
SC/PC / SC/PC	O8421.x	O8431.x	O8441.x	O8831.x
SC/PC / LC/PC	O8430.x	O8432.x	O8442.x	O8829.x
SC/PC / ST/PC	O8801.x	O8451.x	O8811.x	O8161.x

OS2



	4	8	12	24
ST/PC / ST/PC	O8121.x	O8131.x	O8141.x	O8821.x
ST/PC / LC/PC	O8123.x	O8133.x	O8143.x	O8828.x
ST/PC / SC/PC	O8801.x	O8451.x	O8811.x	O8161.x

OS2

x = wanted length !

Available in "UPC" on request !



Universal cable pre-assembled



U-DQ(ZN)BH OM4/OM3 G50/125μ



	4	8	12	24	
LC/PC / LC/PC	O8303.xOM4	O8322.xOM4	O8342.xOM4	O8392.xOM4	OM4
LC/PC / SC/PC	O8302.xOM4	O8325.xOM4	O8344.xOM4	O8393.xOM4	
LC/PC / ST/PC	O8307.xOM4	O8223.xOM4	O8242.xOM4	O8391.xOM4	
	4	8	12	24	
LC/PC / LC/PC	O8303.xOM3	O8322.xOM3	O8342.xOM3	O8392.xOM3	OM3
LC/PC / SC/PC	O8302.xOM3	O8325.xOM3	O8344.xOM3	O8393.xOM3	
LC/PC / ST/PC	O8307.xOM3	O8223.xOM3	O8242.xOM3	O8391.xOM3	



	4	8	12	24	
SC/PC / SC/PC	O8301.xOM4	O8321.xOM4	O8341.xOM4	O8382.xOM4	OM4
SC/PC / LC/PC	O8302.xOM4	O8325.xOM4	O8344.xOM4	O8393.xOM4	
SC/PC / ST/PC	O9711.xOM4	O9731.xOM4	O9751.xOM4	O8390.xOM4	
	4	8	12	24	
SC/PC / SC/PC	O8301.xOM3	O8321.xOM3	O8341.xOM3	O8382.xOM3	OM3
SC/PC / LC/PC	O8302.xOM3	O8325.xOM3	O8344.xOM3	O8393.xOM3	
SC/PC / ST/PC	O9711.xOM3	O9731.xOM3	O9751.xOM3	O8390.xOM3	



	4	8	12	24	
ST/PC / ST/PC	O8201.xOM4	O8221.xOM4	O8241.xOM4	O8381.xOM4	OM4
ST/PC / LC/PC	O8307.xOM4	O8223.xOM4	O8242.xOM4	O8391.xOM4	
ST/PC / SC/PC	O9711.xOM4	O9731.xOM4	O9751.xOM4	O8390.xOM4	
	4	8	12	24	
ST/PC / ST/PC	O8201.xOM3	O8221.xOM3	O8241.xOM3	O8381.xOM3	OM3
ST/PC / LC/PC	O8307.xOM3	O8223.xOM3	O8242.xOM3	O8391.xOM3	
ST/PC / SC/PC	O9711.xOM3	O9731.xOM3	O9751.xOM3	O8390.xOM3	

x = wanted length !

Available in "UPC" on request !



Universal cable pre-assembled



U-DQ(ZN)BH OM2 G50 / OM1 G62,5



	4	8	12	24	
LC/PC / LC/PC	O8303.x	O8322.x	O8342.x	O8392.x	OM2
LC/PC / SC/PC	O8302.x	O8325.x	O8344.x	O8393.x	
LC/PC / ST/PC	O8307.x	O8223.x	O8242.x	O8391.x	
	4	8	12	24	
LC/PC / LC/PC	O8214.x	O8332.x	O8360.x	O8182.x	OM1
LC/PC / SC/PC	O8312.x	O8333.x	O8352.x	O8183.x	
LC/PC / ST/PC	O8212.x	O8334.x	O8252.x	O8283.x	



	4	8	12	24	
SC/PC / SC/PC	O8301.x	O8321.x	O8341.x	O8382.x	OM2
SC/PC / LC/PC	O8302.x	O8325.x	O8344.x	O8393.x	
SC/PC / ST/PC	O9711.x	O9731.x	O9751.x	O8390.x	
	4	8	12	24	
SC/PC / SC/PC	O8311.x	O8331.x	O8351.x	O8181.x	OM1
SC/PC / LC/PC	O8312.x	O8333.x	O8352.x	O8183.x	
SC/PC / ST/PC	O9721.x	O9741.x	O9761.x	O8291.x	



	4	8	12	24	
ST/PC / ST/PC	O8201.x	O8221.x	O8241.x	O8381.x	OM2
ST/PC / LC/PC	O8307.x	O8223.x	O8242.x	O8391.x	
ST/PC / SC/PC	O9711.x	O9731.x	O9751.x	O8390.x	
	4	8	12	24	
ST/PC / ST/PC	O8211.x	O8231.x	O8251.x	O8281.x	OM1
ST/PC / LC/PC	O8212.x	O8334.x	O8252.x	O8283.x	
ST/PC / SC/PC	O9721.x	O9741.x	O9761.x	O8291.x	



Beakout cable pre-assembled



I-V(ZN)HH OS2 E9/125μ



	2	4	8	12	OS2
E2000 APC / E2000 APC	O03760.x	O03841.x	O03817.x	O03821.x	
E2000 APC / LC/PC	O03818.x	O03802.x	O03823.x	O03825.x	
E2000 APC / SC/PC	O03809.x	O03806.x	O03808.x	O03849.x	
E2000 APC / LC/PC	O03811.x	O03813.x	x	O03982.x	



	2	4	8	12	OS2
E2000/PC / E2000/PC	O1809.x	O1716.x	O1839.x	O1824.x	
E2000/PC / LC/PC	O1794.x	O1719.x	x	O1755.x	
E2000/PC / SC/PC	O1808.x	x	O1834.x	O1865.x	
E2000/PC / ST/PC	O1807.x	O1714.x	O1736.x	O1825.x	



	2	4	8	12	OS2
LC/PC / LC/PC	O1803.x	O1812.x	O1840.x	O1754.x	
LC/PC / SC/PC	O1790.x	O1820.x	O1832.x	O1873.x	
LC/PC / ST/PC	O1792.x	O1712.x	O1732.x	O1752.x	



	2	4	8	12	OS2
SC/APC / SC/APC	O1806.x	O1818.x	x	O1885.x	
SC/APC / LC/PC	O1780.x	O1713.x	O1846.x	O1881.x	
SC/APC / SC/PC	O1805.x	O1815.x	x	O1879.x	
SC/APC / ST/PC	O1783.x	O1715.x	O1733.x	O1878.x	



	2	4	8	12	OS2
SC/PC / SC/PC	O1802.x	O1811.x	O1831.x	O1851.x	
SC/PC / LC/PC	O1790.x	O1820.x	O1832.x	O1873.x	
SC/PC / ST/PC	O1801.x	O1723.x	O1740.x	O1951.x	



	2	4	8	12	OS2
ST/PC / ST/PC	O1800.x	O1711.x	O1731.x	O1751.x	
ST/PC / LC/PC	O1792.x	O1712.x	O1732.x	O1752.x	
ST/PC / SC/PC	O1801.x	O1723.x	O1740.x	O1951.x	



Breakout cable pre-assembled

I-V(ZN)HH OM4/OM3 G50/125μ



	2	4	8	12	
E2000/PC / E2000/PC	O6774.xOM3	x	O6534.xOM3	O6754.xOM3	OM3
E2000/PC / LC/PC	O6123.xOM3	O6713.xOM3	x	x	
E2000/PC / SC/PC	O6775.xOM3	O6714.xOM3	x	x	



	2	4	8	12	
LC/PC / LC/PC	O6773.xOM4	O6720.xOM4	O6672.xOM4	O9873.xOM4	OM4
LC/PC / SC/PC	O6772.xOM4	O6712.xOM4	O6674.xOM4	O6752.xOM4	
LC/PC / ST/PC	O6122.xOM4	O6512.xOM4	O6532.xOM4	O9872.xOM4	

	2	4	8	12	
LC/PC / LC/PC	O6773.xOM3	O6720.xOM3	O6672.xOM3	O9873.xOM3	OM3
LC/PC / SC/PC	O6772.xOM3	O6712.xOM3	O6674.xOM3	O6752.xOM3	
LC/PC / ST/PC	O6122.xOM3	O6512.xOM3	O6532.xOM3	O9872.xOM3	



	2	4	8	12	
SC/PC / SC/PC	O6771.xOM4	O6711.xOM4	O6671.xOM4	O6751.xOM4	OM4
SC/PC / LC/PC	O6772.xOM4	O6712.xOM4	O6674.xOM4	O6752.xOM4	
SC/PC / ST/PC	O9811.xOM4	O9831.xOM4	O9851.xOM4	O9871.xOM4	

	2	4	8	12	
SC/PC / SC/PC	O6771.xOM3	O6711.xOM3	O6671.xOM3	O6751.xOM3	OM3
SC/PC / LC/PC	O6772.xOM3	O6712.xOM3	O6674.xOM3	O6752.xOM3	
SC/PC / ST/PC	O9811.xOM3	O9831.xOM3	O9851.xOM3	O9871.xOM3	



	2	4	8	12	
ST/PC / ST/PC	O6131.xOM4	O6511.xOM4	O6531.xOM4	O6551.xOM4	OM4
ST/PC / LC/PC	O6122.xOM4	O6512.xOM4	O6532.xOM4	O9872.xOM4	
ST/PC / SC/PC	O9811.xOM4	O9831.xOM4	O9851.xOM4	O9871.xOM4	

	2	4	8	12	
ST/PC / ST/PC	O6131.xOM3	O6511.xOM3	O6531.xOM3	O6551.xOM3	OM3
ST/PC / LC/PC	O6122.xOM3	O6512.xOM3	O6532.xOM3	O9872.xOM3	
ST/PC / SC/PC	O9811.xOM3	O9831.xOM3	O9851.xOM3	O9871.xOM3	

x = wanted length !



Breakout cable pre-assembled



I-V(ZN)HH OM2 G50 / OM1 G62,5



	2	4	8	12	OM2
E2000/PC / E2000/PC	O6774.x	O6514.x	O6534.x	O6754.x	
E2000/PC / LC/PC	O6123.x	O6713.x	x	O6755.x	
E2000/PC / SC/PC	O6775.x	O6714.x	O6535.x	O6753.x	
E2000/PC / ST/PC	O6779.x	O6715.x	x	x	



	2	4	8	12	OM2
LC/PC / LC/PC	O6773.x	O6720.x	O6672.x	O9873.x	
LC/PC / SC/PC	O6772.x	O6712.x	O6674.x	O6752.x	

	2	4	8	12	OM1
LC/PC / LC/PC	O6891.x	O6522.x	O6542.x	O6570.x	
LC/PC / SC/PC	O6890.x	O6722.x	O6682.x	O6562.x	



	2	4	8	12	OM2
SC/PC / SC/PC	O6771.x	O6711.x	O6671.x	O6751.x	
SC/PC / LC/PC	O6772.x	O6712.x	O6674.x	O6752.x	

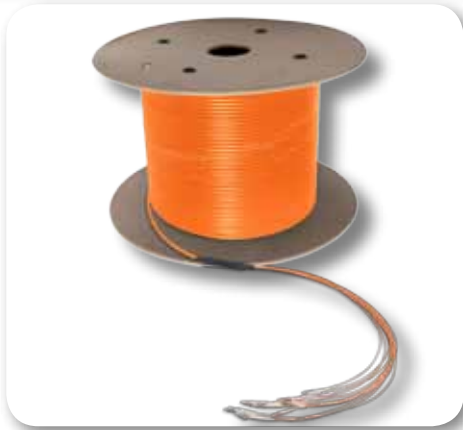
	2	4	8	12	OM1
SC/PC / SC/PC	O6781.x	O6721.x	O6681.x	O6761.x	
SC/PC / LC/PC	O6890.x	O6722.x	O6682.x	O6562.x	



	2	4	8	12	OM2
ST/PC / ST/PC	O6131.x	O6511.x	O6531.x	O6551.x	
ST/PC / LC/PC	O6122.x	O6512.x	O6532.x	O9872.x	

	2	4	8	12	OM1
ST/PC / ST/PC	O6141.x	O6521.x	O6541.x	O6561.x	
ST/PC / LC/PC	O6892.x	O6523.x	O6545.x	O6762.x	

x = wanted length !



Minibreakout cable pre-assembled



I-V(ZN)H OS2 E9/125μ



	4	8	12	OS2
E2000/PC / E2000/PC	O9454.x	O9496.x	O9504.x	



	4	8	12	OS2
LC/PC / LC/PC	O9453.x	O9464.x	O9520.x	
LC/PC / SC/PC	O9482.x	O9492.x	O9502.x	
LC/PC / ST/PC	O9452.x	O9462.x	O9472.x	



	4	8	12	OS2
SC/PC / SC/PC	O9481.x	O9491.x	O9501.x	
SC/PC / LC/PC	O9482.x	O9492.x	O9502.x	
SC/PC / ST/PC	O9341.x	O9351.x	O9361.x	



	4	8	12	OS2
ST/PC / ST/PC	O9451.x	O9461.x	O9471.x	
ST/PC / LC/PC	O9452.x	O9462.x	O9472.x	
ST/PC / SC/PC	O9341.x	O9351.x	O9361.x	

x = wanted length !

Available in "UPC" on request !



Minibreakout cable pre-assembled



I-V(ZN)H OM4/OM3/OM2/OM1



	4	8	12	OM2
E2000/PC / E2000/PC	O9414.x	O9274.x	O9679.x	



	4	8	12	OM4
LC/PC / LC/PC	O9372.xOM4	O9272.xOM4	O9434.xOM4	
LC/PC / SC/PC	O9374.xOM4	O9412.xOM4	O9432.xOM4	
LC/PC / ST/PC	O9234.xOM4	O9273.xOM4	O9292.xOM4	



	4	8	12	OM3
LC/PC / LC/PC	O9372.xOM3	O9272.xOM3	O9434.xOM3	
LC/PC / SC/PC	O9374.xOM3	O9412.xOM3	O9432.xOM3	
LC/PC / ST/PC	O9234.xOM3	O9273.xOM3	O9292.xOM3	



	4	8	12	OM2
LC/PC / LC/PC	O9372.x	O9272.x	O9434.x	
LC/PC / SC/PC	O9374.x	O9412.x	O9432.x	
LC/PC / ST/PC	O9234.x	O9273.x	O9292.x	



	4	8	12	OM1
LC/PC / LC/PC	O9222.x	O9642.x	O9662.x	
LC/PC / SC/PC	O9201.x	O9645.x	O9664.x	
LC/PC / ST/PC	O9242.x	O9282.x	O9302.x	



	4	8	12	OM4
SC/PC / SC/PC	O9371.xOM4	O9411.xOM4	O9431.xOM4	
SC/PC / ST/PC	O9611.xOM4	O9631.xOM4	O9651.xOM4	



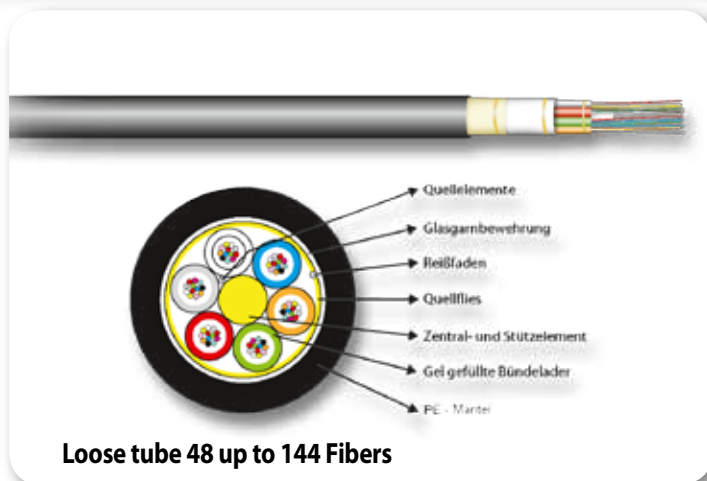
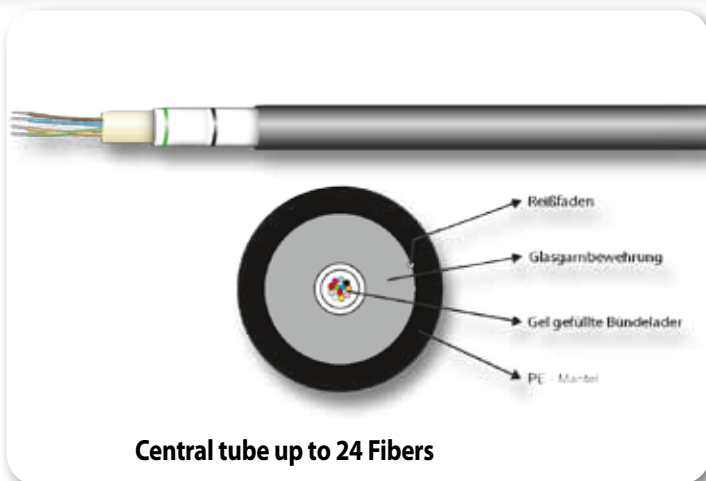
	4	8	12	OM3
SC/PC / SC/PC	O9371.xOM3	O9411.xOM3	O9431.xOM3	
SC/PC / ST/PC	O9371.xOM3	O9411.xOM3	O9431.xOM3	

	4	8	12	OM2
SC/PC / SC/PC	O9371.x	O9411.x	O9431.x	
SC/PC / ST/PC	O9611.x	O9631.x	O9651.x	

	4	8	12	OM1
SC/PC / SC/PC	O9381.x	O9421.x	O9441.x	
SC/PC / ST/PC	O9621.x	O9641.x	O9661.x	

	4	8	12	OM4
ST/PC / ST/PC	O9231.xOM4	O9271.xOM4	O9434.xOM4	OM3
ST/PC / ST/PC	O9231.xOM3	O9271.xOM3	O9291.xOM3	OM2
ST/PC / ST/PC	O9231.x	O9271.x	O9291.x	OM1
ST/PC / ST/PC	O9241.x	O9281.x	O9301.x	

x = wanted length !

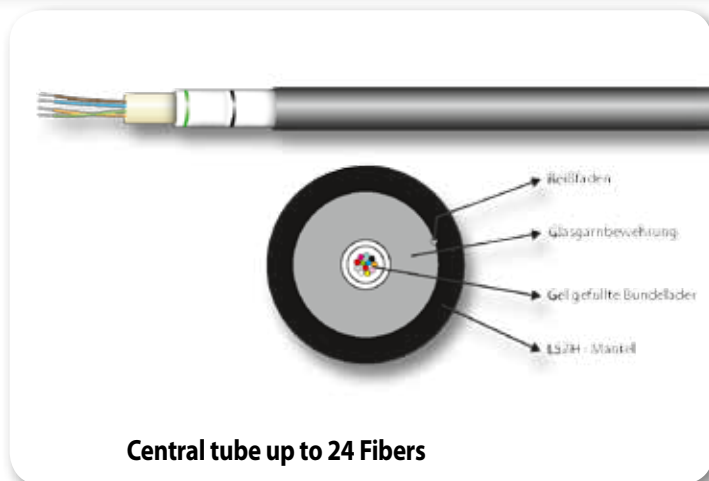


Outdoor Cable A-DQ (ZN) B2Y

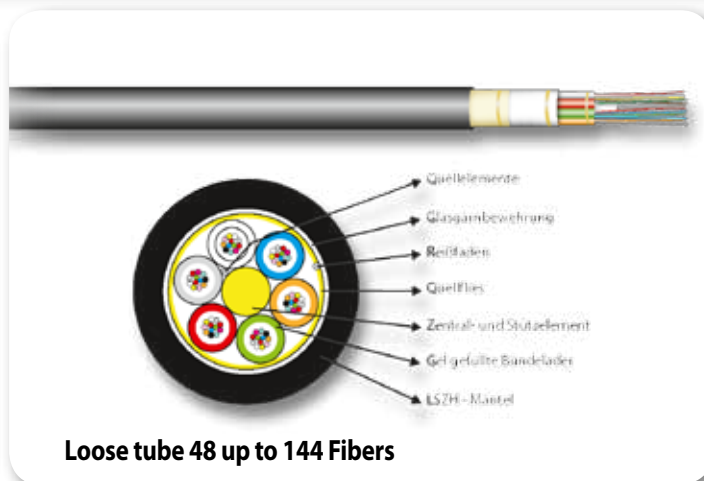
Application	Characteristics
Outdoor	PE jacket black, non-metallic, longitudinal water tight
Suitable for direct burial, duct or shaft installation	UV resistant, rodent resistant
Primary cabling (Campus), Backbone	Central/Loose tubes, 250µm coating

	Art.-No.	Tubes/Fibers	VDE-Type	Cable	Weight	Tensile Force	Bending Radius
G657A (OS2) 9/125µ	55404.1	04E (1 x 4) Singlemode G657A	A-DQ(ZN)B2Y 04E9/125	7,0 mm	50kg / km	1600 N	140 mm
	55408.1	08E (1 x 8) Singlemode G657A	A-DQ(ZN)B2Y 08E9/125	7,0 mm	50kg / km	1600 N	140 mm
	55412.1	12E (1 x 12) Singlemode G657A	A-DQ(ZN)B2Y 12E9/125	7,0 mm	50kg / km	1600 N	140 mm
	55424.1	24E (1 x 24) Singlemode G657A	A-DQ(ZN)B2Y 24E9/125	7,4 mm	57kg / km	1600 N	150 mm
	55448.1	48E (4 x 12) Singlemode G657A	A-DQ(ZN)B2Y 48E9/125	10,6 mm	96kg / km	3500 N	170 mm
	55472.1	72E (6 x 12) Singlemode G657A	A-DQ(ZN)B2Y 72E9/125	11,4 mm	105kg / km	4000 N	230 mm
	55496.1	96E (8 x 12) Singlemode G657A	A-DQ(ZN)B2Y 96E9/125	13,0 mm	132kg / km	5000 N	260 mm
	554144.1	144E (12 x 12) Singlemode G657A	A-DQ(ZN)B2Y 144E9/125	16,3 mm	205kg / km	5500 N	330 mm
OM4 50/125µ	Art.-No.	Tubes/Fibers	VDE-Type	Cable	Weight	Tensile Force	Bending Radius
	55204.1OM4	04G (1 x 4) Multimode OM4	A-DQ(ZN)B2Y 04G50/125	7,0 mm	50kg / km	1600 N	140 mm
	55208.1OM4	08G (1 x 8) Multimode OM4	A-DQ(ZN)B2Y 08G50/125	7,0 mm	50kg / km	1600 N	140 mm
	55212.1OM4	12G (1 x 12) Multimode OM4	A-DQ(ZN)B2Y 12G50/125	7,0 mm	50kg / km	1600 N	140 mm
	55224.1OM4	24G (1 x 24) Multimode OM4	A-DQ(ZN)B2Y 24G50/125	7,4 mm	57kg / km	1600 N	150 mm
OM3 50/125µ	Art.-No.	Tubes/Fibers	VDE-Type	Cable	Weight	Tensile Force	Bending Radius
	55204.1OM3	04G (1 x 4) Multimode OM3	A-DQ(ZN)B2Y 04G50/125	7,0 mm	50kg / km	1600 N	140 mm
	55208.1OM3	08G (1 x 8) Multimode OM3	A-DQ(ZN)B2Y 08G50/125	7,0 mm	50kg / km	1600 N	140 mm
	55212.1OM3	12G (1 x 12) Multimode OM3	A-DQ(ZN)B2Y 12G50/125	7,0 mm	50kg / km	1600 N	140 mm
	55224.1OM3	24G (1 x 24) Multimode OM3	A-DQ(ZN)B2Y 24G50/125	7,4 mm	57kg / km	1600 N	150 mm
OM2 50/125µ	Art.-No.	Tubes/Fibers	VDE-Type	Cable	Weight	Tensile Force	Bending Radius
	55204.1	04G (1 x 4) Multimode OM2	A-DQ(ZN)B2Y 04G50/125	7,0 mm	50kg / km	1600 N	140 mm
	55208.1	08G (1 x 8) Multimode OM2	A-DQ(ZN)B2Y 08G50/125	7,0 mm	50kg / km	1600 N	140 mm
	55212.1	12G (1 x 12) Multimode OM2	A-DQ(ZN)B2Y 12G50/125	7,0 mm	50kg / km	1600 N	140 mm
	55224.1	24G (1 x 24) Multimode OM2	A-DQ(ZN)B2Y 24G50/125	7,4 mm	57kg / km	1600 N	150 mm
OM1 62,5/125µ	Art.-No.	Tubes/Fibers	VDE-Type	Cable	Weight	Tensile Force	Bending Radius
	55304.1	04G (1 x 4) Multimode OM1	A-DQ(ZN)B2Y 04G62,5/125	7,0 mm	50kg / km	1600 N	140 mm
	55308.1	08G (1 x 8) Multimode OM1	A-DQ(ZN)B2Y 08G62,5/125	7,0 mm	50kg / km	1600 N	140 mm
	55312.1	12G (1 x 12) Multimode OM1	A-DQ(ZN)B2Y 12G62,5/125	7,0 mm	50kg / km	1600 N	140 mm
	55324.1	24G (1 x 24) Multimode OM1	A-DQ(ZN)B2Y 24G62,5/125	7,4 mm	57kg / km	1600 N	150 mm

Standards	Temperature Range
Flame retardant: --, Longitudinal water tight: IEC 60794-1-2	Operation: -20°C ~ 70°C / G.657A1 Fiber-40°C~ 70°C
Transmission specifications: IEC 60793, ITU-T G.657A1 bend insensitive, G651	Transport / Storage: -30°C~ 70°C
Cabling: ISO/IEC 11801, EN 50173	Installation: -5°C ~ 50°C



Central tube up to 24 Fibers



Loose tube 48 up to 144 Fibers

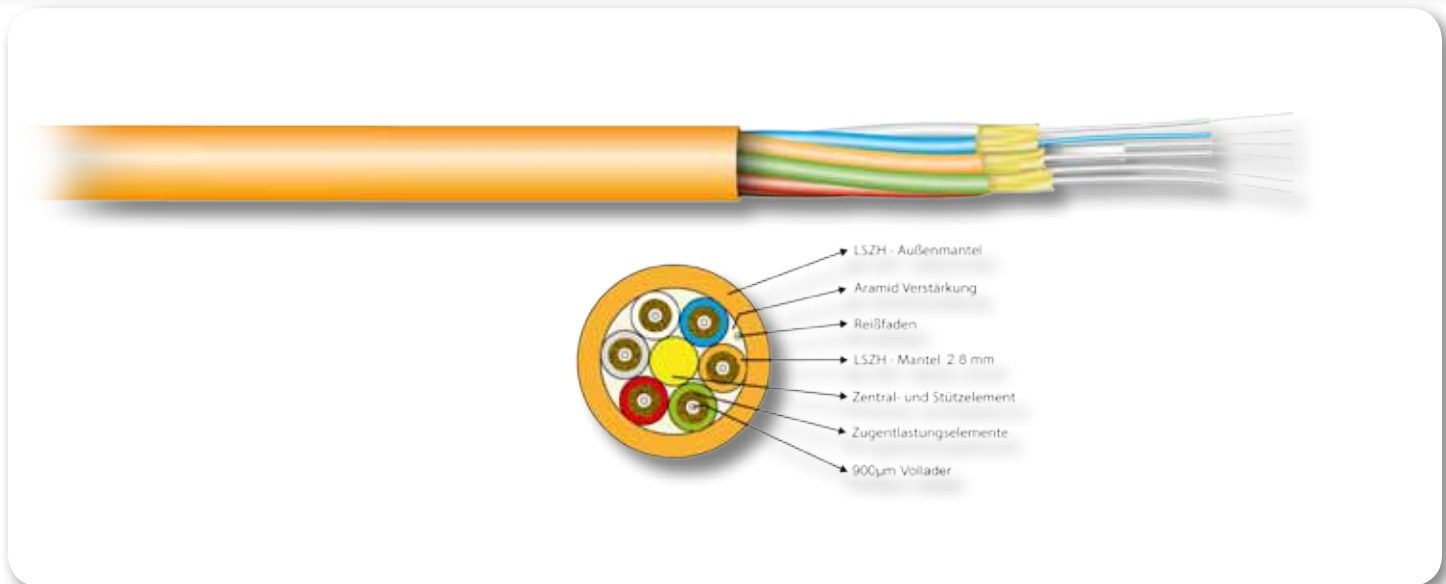
Universal Cable U-DQ (ZN) BH

Application	Characteristics
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Indoor- and outdoor application	Universal cable LSZH black, non-metallic, longitudinal water tight
Installation in conduits and shafts	UV resistant, halogenfree, rodent resistant
Primary cabling (campus): backbone	Central/Loose tubes, 250µm coating
Secondary cabling (vertical): riser area (backbone)	

	Art.-No.	Tubes/Fibers	VDE-Type	Cable	Weight	Tensile Force	Bending Radius
G657A (OS2) 9/125µ	54404.1	04E (1 x 4) Singlemode G657A	U-DQ(ZN)BH 04E9/125	7,0 mm	50kg / km	1600 N	140 mm
	54408.1	08E (1 x 8) Singlemode G657A	U-DQ(ZN)BH 08E9/125	7,0 mm	50kg / km	1600 N	140 mm
	54412.1	12E (1 x 12) Singlemode G657A	U-DQ(ZN)BH 12E9/125	7,0 mm	50kg / km	1600 N	140 mm
	54424.1	24E (1 x 24) Singlemode G657A	U-DQ(ZN)BH 24E9/125	7,6 mm	59kg / km	1600 N	150 mm
	54448.1	48E (4 x 12) Singlemode G657A	U-DQ(ZN)BH 48E9/125	10,6 mm	96kg / km	4000 N	210 mm
	54472.1	72E (6 x 12) Singlemode G657A	U-DQ(ZN)BH 72E9/125	11,3 mm	114kg / km	4000 N	230 mm
	54496.1	96E (8 x 12) Singlemode G657A	U-DQ(ZN)BH 96E9/125	13,0 mm	142kg / km	4000 N	260 mm
	544144.1	144E (12 x 12) Singlemode G657A	U-DQ(ZN)BH 144E9/125	16,3 mm	216kg / km	5500 N	330 mm
OM4 50/125µ	54504.2	04G (1 x 4) Multimode OM4	U-DQ(ZN)BH 04G50/125	7,0 mm	50kg / km	1600 N	140 mm
	54508.2	08G (1 x 8) Multimode OM4	U-DQ(ZN)BH 08G50/125	7,0 mm	50kg / km	1600 N	140 mm
	54512.2	12G (1 x 12) Multimode OM4	U-DQ(ZN)BH 12G50/125	7,0 mm	50kg / km	1600 N	140 mm
	54524.2	24G (1 x 24) Multimode OM4	U-DQ(ZN)BH 24G50/125	7,6 mm	59kg / km	1600 N	150 mm
	54548.2	48G (4 x 12) Multimode OM4	U-DQ(ZN)BH 48G50/125	10,6 mm	96kg / km	4000 N	210 mm
OM3 50/125µ	54504.1	04G (1 x 4) Multimode OM3	U-DQ(ZN)BH 04G50/125	7,0 mm	50kg / km	1600 N	140 mm
	54508.1	08G (1 x 8) Multimode OM3	U-DQ(ZN)BH 08G50/125	7,0 mm	50kg / km	1600 N	140 mm
	54512.1	12G (1 x 12) Multimode OM3	U-DQ(ZN)BH 12G50/125	7,0 mm	50kg / km	1600 N	140 mm
	54524.1	24G (1 x 24) Multimode OM3	U-DQ(ZN)BH 24G50/125	7,6 mm	59kg / km	1600 N	150 mm
	54548.1	48G (4 x 12) Multimode OM3	U-DQ(ZN)BH 48G50/125	10,6 mm	96kg / km	4000 N	210 mm
OM2 50/125µ	54204.1	04G (1 x 4) Multimode OM2	U-DQ(ZN)BH 04G50/125	7,0 mm	50kg / km	1600 N	140 mm
	54208.1	08G (1 x 8) Multimode OM2	U-DQ(ZN)BH 08G50/125	7,0 mm	50kg / km	1600 N	140 mm
	54212.1	12G (1 x 12) Multimode OM2	U-DQ(ZN)BH 12G50/125	7,0 mm	50kg / km	1600 N	140 mm
	54224.1	24G (1 x 24) Multimode OM2	U-DQ(ZN)BH 24G50/125	7,6 mm	59kg / km	1600 N	150 mm
	54248.1	48G (4 x 12) Multimode OM2	U-DQ(ZN)BH 48G50/125	10,6 mm	96kg / km	4000 N	210 mm
OM1 62,5/125µ	54304.1	04G (1 x 4) Multimode OM1	U-DQ(ZN)BH 04G62,5/125	7,0 mm	50kg / km	1600 N	140 mm
	54308.1	08G (1 x 8) Multimode OM1	U-DQ(ZN)BH 08G62,5/125	7,0 mm	50kg / km	1600 N	140 mm
	54312.1	12G (1 x 12) Multimode OM1	U-DQ(ZN)BH 12G62,5/125	7,0 mm	50kg / km	1600 N	140 mm
	54324.1	24G (1 x 24) Multimode OM1	U-DQ(ZN)BH 24G62,5/125	7,6 mm	59kg / km	1600 N	150 mm

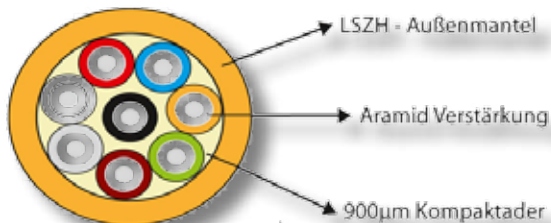
Standards	Temperature Range
Flame retardant: IEC 60332-1, Halogenfree: IEC 60754-2, Low smoke: IEC 61034	Operation: -20°C ~ 70°C / G.657A1 Fiber-40°C~ 70°C
Transmission specifications: IEC 60793, ITU-T G.657A1 bend insensitive, G651	Transport / Storage: -30°C~ 70°C
Cabling: ISO/IEC 11801, EN 50173, Longitudinal water tight: IEC 60794-1-2	Installation: - 5°C ~ 50°C



Breakout Indoor Cable I-V (ZN) HH

Application	Characteristics	Standards
Indoor application	Indoor cable	Flame retardant: IEC 60332-3
Installation in shafts, underfloor area	Non-metallic, halogenfree, gel free	Halogenfree: IEC 60754-2, Low smoke: IEC 61034
Secondary cabling (vertical): riser area (backbone)	Suitable for connector assembly	Transmission: IEC 60793, ITU-T G652, G651
Tertiary cabling (horizontal): working area, fiber-to-the-desk FTTH	Operation: -20°C ~ 60°C	Cabling: ISO/IEC 11801, EN 50173
Trunk cable, patch- and adapter cable	Installation: -5°C ~ 50°C	

	Art.-No.	Fibers / Simplex Subunits	VDE-Type	Cable	Weight	Tensile Force	Bending Radius
OS2 9/125µ	55902.1	02E (2 x 2,8) Singlemode OS2	I-V(ZN)HH 02E9/125	3,9 x 6,8 mm	28kg / km	400 N	60 mm
	55904.1	04E (4 x 2,8) Singlemode OS2	I-V(ZN)HH 04E9/125	8,5 mm	62kg / km	1000 N	150 mm
	55908.1	08E (8 x 2,8) Singlemode OS2	I-V(ZN)HH 08E9/125	12,1 mm	133kg / km	2000 N	210 mm
	55912.1	12E (12 x 2,8) Singlemode OS2	I-V(ZN)HH 12E9/125	15,8 mm	240kg / km	2700 N	275 mm
	55924.1	24E (24 x 2,0) Singlemode OS2	I-V(ZN)HH 24E9/125	13,9 mm	170kg / km	2000 N	240 mm
OM4 50/125µ	Art.-No.	Fibers / Simplexelemente	VDE-Type	Cable	Weight	Tensile Force	Bending Radius
	55002.1OM4	02G (2 x 2,8) Multimode OM4	I-V(ZN)HH 02G50/125	3,9 x 6,8 mm	28kg / km	400 N	60 mm
	55004.1OM4	04G (4 x 2,8) Multimode OM4	I-V(ZN)HH 04G50/125	8,5 mm	62kg / km	1000 N	150 mm
	55008.1OM4	08G (8 x 2,8) Multimode OM4	I-V(ZN)HH 08G50/125	12,1 mm	133kg / km	2000 N	210 mm
OM3 50/125µ	Art.-No.	Fibers / Simplexelemente	VDE-Type	Cable	Weight	Tensile Force	Bending Radius
	55002.1OM3	02G (2 x 2,8) Multimode OM3	I-V(ZN)HH 02G50/125	3,9 x 6,8 mm	28kg / km	400 N	60 mm
	55004.1OM3	04G (4 x 2,8) Multimode OM3	I-V(ZN)HH 04G50/125	8,5 mm	62kg / km	1000 N	150 mm
	55008.1OM3	08G (8 x 2,8) Multimode OM3	I-V(ZN)HH 08G50/125	12,1 mm	133kg / km	2000 N	210 mm
OM2 50/125µ	Art.-No.	Fibers / Simplexelemente	VDE-Type	Cable	Weight	Tensile Force	Bending Radius
	55002.1	02G (2 x 2,8) Multimode OM2	I-V(ZN)HH 02G50/125	3,9 x 6,8 mm	28kg / km	400 N	60 mm
	55004.1	04G (4 x 2,8) Multimode OM2	I-V(ZN)HH 04G50/125	8,5 mm	62kg / km	1000 N	150 mm
	55008.1	08G (8 x 2,8) Multimode OM2	I-V(ZN)HH 08G50/125	12,1 mm	133kg / km	2000 N	210 mm
OM1 62,5/125µ	Art.-No.	Fibers / Simplexelemente	VDE-Type	Cable	Weight	Tensile Force	Bending Radius
	55102.1	02G (2 x 2,8) Multimode OM1	I-V(ZN)HH 02G62,5/125	3,9 x 6,8 mm	28kg / km	400 N	60 mm
	55104.1	04G (4 x 2,8) Multimode OM1	I-V(ZN)HH 04G62,5/125	8,5 mm	62kg / km	1000 N	150 mm
	55108.1	08G (8 x 2,8) Multimode OM1	I-V(ZN)HH 08G62,5/125	12,1 mm	133kg / km	2000 N	210 mm
55112.1	12G (12 x 2,8) Multimode OM1	I-V(ZN)HH 12G62,5/125	15,8 mm	240kg / km	2700 N	275 mm	



Mini-Breakout Indoor Cable I-V (ZN) H

Application	Characteristics	Standards
Indoor application	Indoor cable	Flame retardant: IEC 60332-3
Installation in shafts, underfloor area	Non-metallic, halogenfree, gel free	Halogenfree: IEC 60754-2, Low smoke: IEC 61034
Secondary cabling (vertical): riser area (backbone)	Suitable for connector assembly	Transmission: IEC 60793, ITU-T G652, G651
Tertiary cabling (horizontal): working area, fiber-to-the-desk FTTH	Operation: -20°C ~ 60°C	Cabling: ISO/IEC 11801, EN 50173
Trunk cable, patch- and adapter cable	Installation: -5°C ~ 50°C	

	Art.-No.	Fibers 900µm	VDE-Type	Cable	Weight	Tensile Force	Bending Radius
OS2 9/125µ	55502.1OS2	02E Singlemode OS2	I-V(ZN)H 02E9/125	3,8 mm	15kg / km	400 N	57 mm
	55504.1OS2	04E Singlemode OS2	I-V(ZN)H 04E9/125	4,2 mm	18kg / km	600 N	63 mm
	55508.1OS2	08E Singlemode OS2	I-V(ZN)H 08E9/125	5,5 mm	29kg / km	800 N	83 mm
	55512.1OS2	12E Singlemode OS2	I-V(ZN)H 12E9/125	6,2 mm	36kg / km	800 N	93 mm
	55524.1OS2	24E Singlemode OS2	I-V(ZN)H 24E9/125	8,0 mm	59kg / km	1000 N	120 mm
OM4 50/125µ	Art.-No.	Fibers 900µm	VDE-Type	Cable	Weight	Tensile Force	Bending Radius
	55502.1OM4	02G Multimode OM4	I-V(ZN)H 02G50/125	3,8 mm	15kg / km	400 N	57 mm
	55504.1OM4	04G Multimode OM4	I-V(ZN)H 04G50/125	4,2 mm	18kg / km	600 N	63 mm
	55508.1OM4	08G Multimode OM4	I-V(ZN)H 08G50/125	5,5 mm	29kg / km	800 N	83 mm
	55512.1OM4	12G Multimode OM4	I-V(ZN)H 12G50/125	6,2 mm	36kg / km	800 N	93 mm
OM3 50/125µ	Art.-No.	Fibers 900µm	VDE-Type	Cable	Weight	Tensile Force	Bending Radius
	55502.1OM3	02G Multimode OM3	I-V(ZN)H 02G50/125	3,8 mm	15kg / km	400 N	57 mm
	55504.1OM3	04G Multimode OM3	I-V(ZN)H 04G50/125	4,2 mm	18kg / km	600 N	63 mm
	55508.1OM3	08G Multimode OM3	I-V(ZN)H 08G50/125	5,5 mm	29kg / km	800 N	83 mm
	55512.1OM3	12G Multimode OM3	I-V(ZN)H 12G50/125	6,2 mm	36kg / km	800 N	93 mm
OM2 50/125µ	Art.-No.	Fibers 900µm	VDE-Type	Cable	Weight	Tensile Force	Bending Radius
	55502.1	02G Multimode OM2	I-V(ZN)H 02G50/125	3,8 mm	15kg / km	400 N	57 mm
	55504.1	04G Multimode OM2	I-V(ZN)H 04G50/125	4,2 mm	18kg / km	600 N	63 mm
	55508.1	08G Multimode OM2	I-V(ZN)H 08G50/125	5,5 mm	29kg / km	800 N	83 mm
	55512.1	12G Multimode OM2	I-V(ZN)H 12G50/125	6,2 mm	36kg / km	800 N	93 mm
OM1 62,5/125µ	Art.-No.	Fibers 900µm	VDE-Type	Cable	Weight	Tensile Force	Bending Radius
	55602.1	02G Multimode OM1	I-V(ZN)H 02G62,5/125	3,8 mm	15kg / km	400 N	57 mm
	55604.1	04G Multimode OM1	I-V(ZN)H 04G62,5/125	4,2 mm	18kg / km	600 N	63 mm
	55608.1	08G Multimode OM1	I-V(ZN)H 08G62,5/125	5,5 mm	29kg / km	800 N	83 mm
	55612.1	12G Multimode OM1	I-V(ZN)H 12G62,5/125	6,2 mm	36kg / km	800 N	93 mm
	55624.1	24G Multimode OM1	I-V(ZN)H 24G62,5/125	8,0 mm	59kg / km	1000 N	120 mm



Universal Breakout Cable U-V(ZN) HQBH

suitable for high-quality connector assembly and splicing

Application

Indoor & outdoor application	Universal indoor / outdoor cable
Installation in shafts, underfloor area	Non-metallic, halogenfree, flame retardant, UV-resistant
Primary cabling (campus) : riser area (backbone)	Suitable for high quality connector assembly and splicing
Secondary cabling (vertical) : riser area (backbone)	Breakout subunits 2,7mm, easy strippable
Tertiary cabling (horizontal) : working area, fiber-to-the-desk (FTTD)	

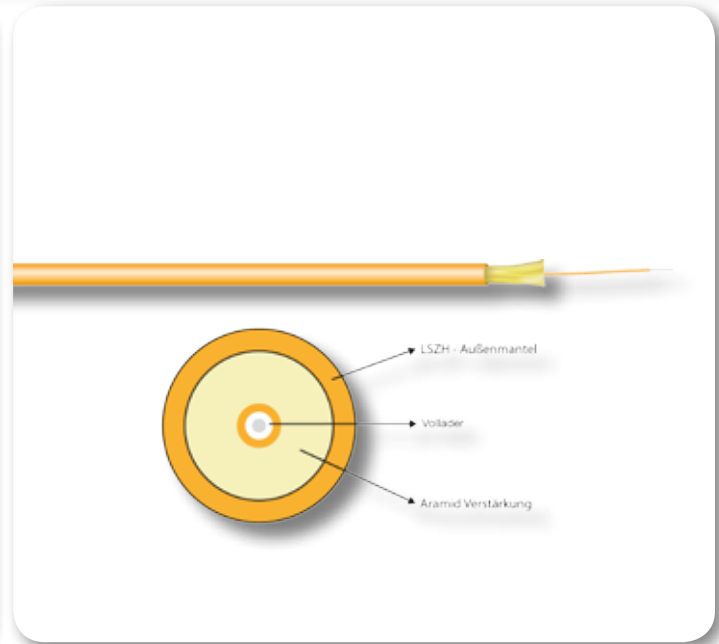
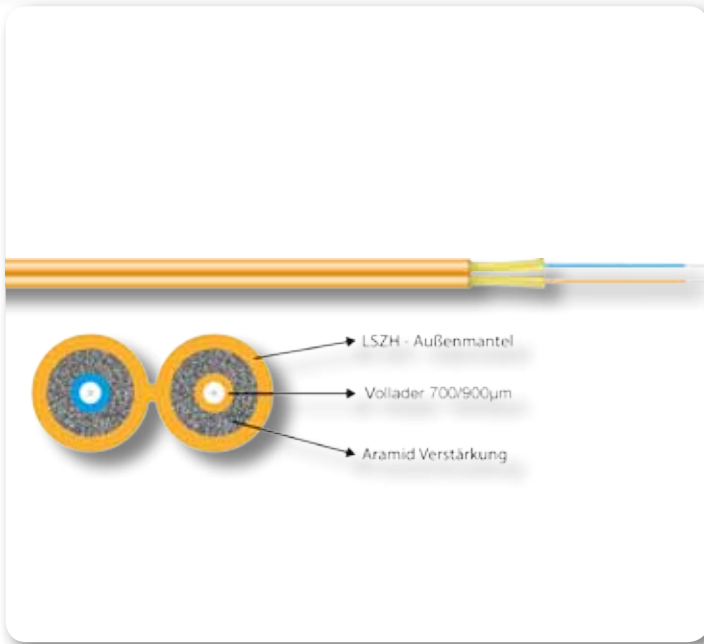
	Art.-No.	Fibers / Simplex Subunits	VDE-Type	Cable	Weight	Tensile Force	Bending Radius
OS2 9/125μ	56025.1	02E (2 x 2,7) Singlemode OS2	U-V(ZN) HQBH 2x1E9/125	12 mm	120kg / km	4500 N	130 mm
	56026.1	04E (4 x 2,7) Singlemode OS2	U-V(ZN) HQBH 4x1E9/125	12 mm	120kg / km	4500 N	130 mm
	56027.1	06E (6 x 2,7) Singlemode OS2	U-V(ZN) HQBH 6x1E9/125	12 mm	120kg / km	4500 N	130 mm
	56028.1	08E (8 x 2,7) Singlemode OS2	U-V(ZN) HQBH 8x1E9/125	14 mm	225kg / km	4500 N	130 mm
OM4 50/125μ	56021.1	02G (2 x 2,7) Multimode OM4	U-V(ZN) HQBH 2x1G50/125	12 mm	120kg / km	4500 N	130 mm
	56022.1	04G (4 x 2,7) Multimode OM4	U-V(ZN) HQBH 4x1G50/125	12 mm	120kg / km	4500 N	130 mm
	56023.1	06G (6 x 2,7) Multimode OM4	U-V(ZN) HQBH 6x1G50/125	12 mm	120kg / km	4500 N	130 mm
	56024.1	08G (8 x 2,7) Multimode OM4	U-V(ZN) HQBH 8x1G50/125	14 mm	225kg / km	4500 N	130 mm
OM3 50/125μ	56017.1	02G (2 x 2,7) Multimode OM3	U-V(ZN) HQBH 2x1G50/125	12 mm	120kg / km	4500 N	130 mm
	56018.1	04G (4 x 2,7) Multimode OM3	U-V(ZN) HQBH 4x1G50/125	12 mm	120kg / km	4500 N	130 mm
	56019.1	06G (6 x 2,7) Multimode OM3	U-V(ZN) HQBH 6x1G50/125	12 mm	120kg / km	4500 N	130 mm
	56020.1	08G (8 x 2,7) Multimode OM3	U-V(ZN) HQBH 8x1G50/125	14 mm	225kg / km	4500 N	130 mm
OM2 50/125μ	56013.1	02G (2 x 2,7) Multimode OM2	U-V(ZN) HQBH 2x1G50/125	12 mm	120kg / km	4500 N	130 mm
	56014.1	04G (4 x 2,7) Multimode OM2	U-V(ZN) HQBH 4x1G50/125	12 mm	120kg / km	4500 N	130 mm
	56015.1	06G (6 x 2,7) Multimode OM2	U-V(ZN) HQBH 6x1G50/125	12 mm	120kg / km	4500 N	130 mm
	56016.1	08G (8 x 2,7) Multimode OM2	U-V(ZN) HQBH 8x1G50/125	14 mm	225kg / km	4500 N	130 mm

Standards

Flame retardant: IEC 60332-1
 Halogenfree: IEC 60754-1, Low smoke: IEC 61034-2
 Transmission specifications: IEC 60793, ITU-T G652, G651
 Cabling: ISO/IEC 11801, EN 50173

Temperature Range

Operation: -20°C ~ 70°C
 Transport / Storage: -40°C ~ 70°C
 Installation: - 20°C ~ 70°C



Duplex cable and Simplex cable for direct assembly

Application	Characteristics
Indoor application	Indoor cable
Tertiary cabling (horizontal) : working area, fiber-to-the-desk (FTTD)	Non-metallic, halogenfree
Patch- and adapter cable	Suitable for field installable connectors

Zip Twin Duplex	Art.-No.	Fibers	Fibertype	VDE-Type	Colour	Cable
OS2 / 9/125µ	56202.1	02E	Singlemode	I-V(ZN)H 2x1E9/125	gelb	2.9 x 5.8 mm
OM4 / 50/125µ	56005.3	02G	Multimode	I-V(ZN)H 2x1G50/125	aqua	2.9 x 5.8 mm
OM3 / 50/125µ	56005.1	02G	Multimode	I-V(ZN)H 2x1G50/125	aqua	2.9 x 5.8 mm
OM2 / 50/125µ	56002.1	02G	Multimode	I-V(ZN)H 2x1G50/125	orange	2.9 x 5.8 mm
OM1 / 62,5/125µ	56102.1	02G	Multimode	II-V(ZN)H 2x1G62.5/125	orange	2.9 x 5.8 mm

Mini Zip Twin Duplex	Art.-No.	Fibers	Fibertype	VDE-Type	Colour	Cable
OS2 / 9/125µ	56203.1	02E	Singlemode	I-V(ZN)H 2x1E9/125	gelb	1.8 x 3.7 mm
OM4 / 50/125µ	56007.3	02G	Multimode	I-V(ZN)H 2x1G50/125	aqua	1.8 x 3.7 mm
OM3 / 50/125µ	56007.1	02G	Multimode	I-V(ZN)H 2x1G50/125	aqua	1.8 x 3.7 mm
OM2 / 50/125µ	56003.1	02G	Multimode	I-V(ZN)H 2x1G50/125	orange	1.8 x 3.7 mm
OM1 / 62,5/125µ	56103.1	02G	Multimode	II-V(ZN)H 2x1G62.5/125	orange	1.8 x 3.7 mm

Simplex	Art.-No.	Fibers	Fibertype	VDE-Type	Colour	Cable
OS2 / 9µ/125µ	56201.1	01E	Singlemode	I-V(ZN)H 01E9/125	gelb	2.9 mm
OM4 / 50µ/125µ	56008.3	01G	Multimode	I-V(ZN)H 01G50/125	aqua	2.9 mm
OM3 / 50µ/125µ	56008.1	01G	Multimode	I-V(ZN)H 01G50/125	aqua	2.9 mm
OM2 / 50µ/125µ	56001.1	01G	Multimode	I-V(ZN)H 01G50/125	orange	2.9 mm
OM2 / 50µ/125µ	56004.1	01G	Multimode	I-V(ZN)H 01G50/125	orange	2.0 mm
OM1 / 62,5µ/125µ	56101.1	01G	Multimode	I-V(ZN)H 01G62.5/125	orange	2.9 mm

Standards	Temperature Range
Flame retardant: IEC 60332-3	Operation: -20°C ~ 60°C
Halogenfree: IEC 60754-2, Low smoke: IEC 61034	Transport / Storage: -25°C ~ 70°C
Transmission specifications: IEC 60793, ITU-T G652, G651	Installation: -5°C ~ 50°C
Cabling: ISO/IEC 11801, EN 50173	

Technical Data					
Cable type	Fibers	Outer diameter	Weight	Bending Radius	Tensile Force
Zip Twin	2	2.9 x 5.8 mm	16 kg / km	50 mm	400 N
Mini Zip Twin	2	1.8 x 3.7 mm	6 kg / km	35 mm	150 N
Simplex	1	2.0 - 2.9 mm	4.1 kg / km	35 mm	150 N



FTTx

**Blow fiber
Closures
Splice distributors
Customer Outlet
Splitter
Patchcable**

Minicable blow fiber - central tube



The CTMC is a customer drop cable, consisting of a central tube filled with glass-fibres, finished with aramid yarns (as strenght-elements) and a polypropylene outer jacket. This cable has a small outside diameter and is ideal for blowing in micro-tubes.

Broadband Outdoor Cable CTMC - Central Tube Mini Cable

Application

Customer drop cable
Blowing into microducts of 5.5 mm inside diameter
FTTx Access Network

Characteristics

Polypropylen-Jacket black, metalfree
UV-resistant, longitudinal water tight
Central tube gel filled, 250µm 2 - 8 Fibers, 200µm 12 - 24 Fibers

Art.-No.	Tubes/Fibers	VDE-Type	Cable	Weight	Tensile Force	Bending Radius
56402.2	02E (1 x 2) Singlemode G.657A1	A-D(ZN)9Y 02E9/125	3,9 mm	12kg / km	320 N	45 mm
56404.2	04E (1 x 4) Singlemode G.657A1	A-D(ZN)9Y 04E9/125	3,9 mm	13kg / km	320 N	45 mm
56408.2	08E (1 x 8) Singlemode G.657A1	A-D(ZN)9Y 08E9/125	3,9 mm	13kg / km	320 N	45 mm
56412.2	12E (1 x 12) Singlemode G.657A1	A-D(ZN)9Y 12E9/125	3,9 mm	13kg / km	320 N	45 mm
56424.2	24E (1 x 24) Singlemode G.657A1	A-D(ZN)9Y 24E9/125	3,9 mm	13kg / km	320 N	45 mm

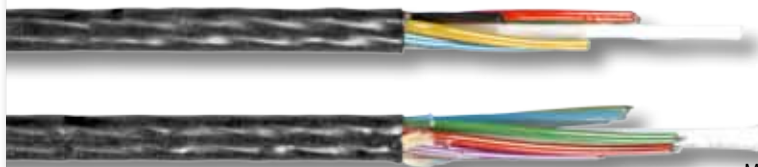
Standards

Halogenfree acc. to EN50267-2-2
Transmission specifications: IEC 60794-1-2, ITU-T G.657A1 bend insensitive

Temperature Range

Operation: -30°C ~ 70°C
Transport /Storage: -30°C ~ 70°C
Installation: - 10°C ~ 50°C

Minicable blow fiber - loose tube



Minicable LTMC consisting of loose tubes, filled with glassfibres, finished with aramid yarns and HDPE outer jacket. With reduced outer diameter this cable is suitable for blowing in micro-tubes.

Broadband Outdoor Cable LTMC - Loose Tube Mini Cable

Application

Blowing in micro-tubes 10/8mm up to 6,5mm cable diameter, 12/10mm up to 8,0mm cable diameter and 16/12mm up to 9,5mm cable diameter
FTTx Access Network

Characteristics

HDPE-Jacket black, metalfree
UV-resistant, longitudinal water tight
Loose tube gel filled, 250µm 24 - 144 Fibers, 200µm 192 - 288 Fibers

Art.-No.	Tubes/Fibers	VDE-Type	Cable	Weight	Tensile Force	Bending Radius
56424.1	24E (2 x 12) Singlemode G.657A1	A-D(ZN)2Y 24E9/125	6,0 mm	25kg / km	1000 N	120 mm
56436.1	36E (3 x 12) Singlemode G.657A1	A-D(ZN)2Y 36E9/125	6,0 mm	27kg / km	1000 N	120 mm
56448.1	48E (4 x 12) Singlemode G.657A1	A-D(ZN)2Y 48E9/125	6,0 mm	27kg / km	1000 N	120 mm
56472.1	72E (6 x 12) Singlemode G.657A1	A-D(ZN)2Y 72E9/125	6,0 mm	29kg / km	1000 N	120 mm
56496.1	96E (8 x 12) Singlemode G.657A1	A-D(ZN)2Y 96E9/125	7,0 mm	44kg / km	1500 N	140 mm
564144.1	144E (12 x 12) Singlemode G.657A1	A-D(ZN)2Y 144E9/125	9,2 mm	59kg / km	1500 N	185 mm
564192.1	192E (8 x 24) Singlemode G.657A1	A-D(ZN)2Y 192E9/125	9,3 mm	66kg / km	2000 N	185 mm
564288.1	288E (12 x 24) Singlemode G.657A1	A-D(ZN)2Y 288E9/125	10,6 mm	99kg / km	3000 N	210 mm

Standards

Halogenfree acc. to EN50267-2-2
Transmission specifications: IEC 60794-5-10, ITU-T G.657A1 bend insensitive

Temperature Range

Operation: -40°C ~ 70°C
Transport /Storage: -40°C ~ 70°C
Installation: - 10°C ~ 50°C

Microcable blow fiber - central tube



The MUC is a non-metallic, waterproof customer drop cable, consisting of low bend radius, no waterpeak G.657A1 fibres, in a jelly-filled central tube, surrounded by aramid-yarns (as tensile strength elements) and protected by a smooth polyamid outersheath. This outdoor cable is thin, light in weight and flexible and can be installed with narrow bending radius, therefore very suitable for application in the access network.

Broadband Outdoor Cable MuC - Micro Unitube Cable

Application			Characteristics			
Customer drop cable for all Access Networks, excellent blow-in distances			Polyamid-Jacket black , solid and flexible, metalfree			
Blowing into microducts of 3,5 - 4.0mm inside diameter			UV-resistant, longitudinal water tight			
FTTx Access Network			Central tube gel filled, 250µm Fibers			
Art.-No.	Tubes/Fibers	VDE-Type	Cable	Weight	Tensile Force	Bending Radius
56402.1	02E (1 x 2) Singlemode G.657A1	A-D(ZN)4Y 02E9/125	2,45 mm	5kg / km	200 N	30 mm
56404.1	04E (1 x 4) Singlemode G.657A1	A-D(ZN)4Y 04E9/125	2,45 mm	5kg / km	200 N	30 mm
56406.1	06E (1 x 6) Singlemode G.657A1	A-D(ZN)4Y 06E9/125	2,45 mm	5kg / km	200 N	30 mm
56408.1	08E (1 x 8) Singlemode G.657A1	A-D(ZN)4Y 08E9/125	2,45 mm	5kg / km	200 N	30 mm
56412.1	12E (1 x 12) Singlemode G.657A1	A-D(ZN)4Y 12E9/125	2,45 mm	5kg / km	200 N	30 mm
56424.1 MUC	24E (1 x 24) Singlemode G.657A1	A-D(ZN)4Y 24E9/125	3,0 mm	8kg / km	250 N	45 mm
Standards			Temperature Range			
Halogenfree acc. to EN50267-2-2, oil resistant acc. to EN60811-2-1			Operation: -20°C ~ 60°C			
Transmission specifications: IEC 60794-5-10, ITU-T G.657A1 bend insensitive			Transport /Storage: -30°C~ 70°C			
			Installation: - 15°C ~ 50°C			

Microcable blow fiber - Central tube



Smooth Fibre Unit, bundle of low bend radius, no waterpeak G.657A1 fibres, encapsulated by a dry acrylate layer and protected by a smooth, slightly ribbed polyethylene outersheath, for application in the access network.

Broadband Indoor/Outdoor Cable SFU - Smooth Fibre Unit

Application			Characteristics			
Blowing into microducts of 2,1mm inside diameter up to 8 Fibers			PE-Jacket yellow , metalfree			
Blowing into microducts of 3,5 - 4,0mm inside diameter for 12 Fibers			Bundle of low bend radius, G.657A1 fibres, encapsulated by a dry acrylate layer and protected by a smooth, slightly ribbed polyethylene outersheath			
FTTx Access Network			Central tube 250µm Fibers			
Art.-No.	Tubes/Fibers	VDE-Type	Cable	Weight	Tensile Force	Bending Radius
59502.1	02E (1 x 2) Singlemode G.657A1	A-D2Y 02E9/125	1,4 mm	2kg / km	20 N	40 mm
59504.1	04E (1 x 4) Singlemode G.657A1	A-D2Y 04E9/125	1,4 mm	2kg / km	20 N	40 mm
59506.1	06E (1 x 6) Singlemode G.657A1	A-D2Y 06E9/125	1,4 mm	2kg / km	25 N	40 mm
59508.1	08E (1 x 8) Singlemode G.657A1	A-D2Y 08E9/125	1,5 mm	3kg / km	30 N	50 mm
59512.1	12E (1 x 12) Singlemode G.657A1	A-D2Y 12E9/125	1,7 mm	3kg / km	30 N	50 mm
Standards			Temperature Range			
Transmission specifications: IEC 60794-5-10, ITU-T G.657A1 bend insensitive			Operation: -30°C ~ 50°C			
			Transport /Storage: -40°C~ 50°C			
			Installation: - 5°C ~ 50°C			

Accesscable - central tube

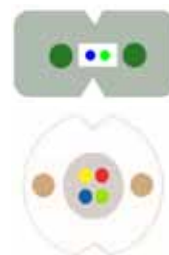


DAC Direct Access Cable - light-weight, non-metallic, central tube direct-buried Access cable with low bend radius, no waterpeak G.657.A1 fibres, with small diameter for easy installation, longitudinally water-protected. This cable has a very high crush resistance and tensile strength, is fast strippable (over >4 meter in one stroke). Due to extra strenght-members in the cable outersheath, this central tube design has an improved temperature range.

Broadband Outdoor Cable DAC - Direct Access Cable

Application			Characteristics				
Drop cable for buildings			Polypropylen-Jacket orange , high crush resistance and tensile strength				
Suitable for direct burial			UV-resistant, longitudinal water tight, metalfree, 2 strenght-members				
FTTx Access Network			Central tube gel filled, 250µm Fibers				
Art.-No.	Tubes/Fibers	VDE-Type	Cable	Weight	Tensile Force	Bending Radius	
59602.1	02E (1 x 2) Singlemode G.657A1	A-D(ZN)B9Y 02E9/125	5,9 mm	28kg / km	1200 N	60 mm	
59604.1	04E (1 x 4) Singlemode G.657A1	A-D(ZN)B9Y 04E9/125	5,9 mm	28kg / km	1200 N	60 mm	
59606.1	06E (1 x 6) Singlemode G.657A1	A-D(ZN)B9Y 06E9/125	5,9 mm	28kg / km	1200 N	60 mm	
59608.1	08E (1 x 8) Singlemode G.657A1	A-D(ZN)B9Y 08E9/125	5,9 mm	28kg / km	1200 N	60 mm	
59612.1	12E (1 x 12) Singlemode G.657A1	A-D(ZN)B9Y 12E9/125	5,9 mm	28kg / km	1200 N	60 mm	
Standards			Temperature Range				
Halogenfree acc. to EN50267-2-2			Operation: -30°C ~ 70°C				
Transmission specifications: IEC 60794-5-10, ITU-T G.657A1 bend insensitive			Transport /Storage: -30°C~ 70°C				
			Installation: - 10°C ~ 50°C				

MikroDrop Installationcable LSZH



Micro Drop Installation Cable, special Access cable with low bend radius, no waterpeak G.657.A1 fibres. Ruggedized construction with excellent installation performance, easy strippable for fast installation. This cable solves all in-house installation problems.

Broadband Indoor Cable MDIC - Micro Drop Installation Cable

Application			Characteristics				
Indoor installation cable			LSZH-Jacket white , metalfree, UV-resistant				
Suitable for direct assembly			Solid construction with 2 strenght-members				
FTTH Access Network			250µm Fibers				
Art.-No.	Fibers	VDE-Type	Cable	Weight	Tensile Force	Bending Radius	
56204.1	2 x Singlemode G.657A1	I-V(B)H 02E9/125	2,0 x 3,1 mm	10kg / km	150 N	30 mm	
56204.2	4 x Singlemode G.657A1	I-V(B)H 04E9/125	3,7 mm	16kg / km	150 N	37 mm	
Standards			Temperature Range				
Transmission specifications: IEC 60794-5-10, ITU-T G.657A1 bend insensitive			Operation: -30°C ~ 70°C				
Halogenfree acc. to EN50267-2-2, low smoke acc. to EN50268-2			Transport /Storage: -30°C~ 70°C				
			Installation: - 10°C ~ 50°C				

CLOSURES

The FO closures are branching and connecting sleeves for external use. They contain splicing cassettes and other passive elements for the fibre management and protect their contents from external influences. Numerous configurations are possible. The closure is pre-prepared for all cable infeeds, equipped with sealing elements and can be equipped with one or two oval infeed for untrimmed tube loops as an option, as well as six or eight outputs for stub lines (inputs/outputs) and access cable. A valve for checking leak-tightness is integrated. There are suitable sealing sets available depending on cable type and installation. There are sufficient storage spaces for the untrimmed tube loops between the splicing cassettes. The type and number of splicing cassettes as well as the sealing set for the cable infeeds should be ordered separately as an extremely variable configuration is thus possible. Protection type IP68 is of course fulfilled.



Specifications Dome Closure round D = 285mm

- Two oval ports for uncut tubes or loop-cable
- Eight round ports with each 32mm diameter
- Cable entries with mechanical seal at customers choice, see accessories
- Splice trays with crimp- or heat splice holder, see accessories

Specifications Dome Closure flat 290 x 150mm

- One oval port for uncut tubes or loop-cable
- Six round ports with each 32mm diameter
- Cable entries with mechanical seal at customers choice, see accessories
- Splice trays with crimp- or thermo splice holder, see accessories



Art.-No.	Capacity: number of splice trays / number of fibers			
	STHD-6A (ANT)	STHD-6H (Heat)	STHD-4A (ANT)	STHD-4H (Heat)
FOC-CB-525	60 / 720	60 / 480	40 / 480	40 / 480
FOC-CC-770	132 / 1584	132 / 1056	88 / 1056	88 / 1056

Art.-No.	Capacity: number of splice trays / number of fibers			
	STHD-6A (ANT)	STHD-6H (Heat)	STHD-4A (ANT)	STHD-4H (Heat)
CFOC-AA-380	12 / 144	12 / 96	8 / 96	8 / 96
CFOC-AB-450	24 / 288	24 / 192	16 / 192	16 / 192

Accessories Splice Trays

Splice trays with 4 mm cassettes for high density or
Splice trays with 6 mm cassettes for optimized fibermanagement

Art.-No.	Tray	Splices	Protector	Height of cassette
STHD-6A	6 cassettes	72 (6 x 12)	Crimp (ANT)	4 mm
STHD-6H	6 cassettes	48 (6 x 8)	Thermo (Heat)	4 mm
STHD-4A	4 cassettes	48 (4 x 12)	Crimp (ANT)	6 mm
STHD-4H	4 cassettes	48 (4 x 12)	Thermo (Heat)	6 mm
STHD-COVER	cover for STHD-6A, STHD-6H, STHD-4A and STHD-4H			



Art.-No.	Description	Type
FOC-MB	Mounting bracket for Dome Closures round	FOC round
CFOC-MB	Mounting bracket for Dome Closures oval	CFOC oval
FOC-CFB	Cable fixing bracket for round or flat types	FOC + CFOC
FOC-PMB	Pole mounting bracket for round or flat types	FOC + CFOC

Accessories cable entries with mechanical seal

Art.-No.	Description	Type
FOC-MRS-6X8	6 x 8mm entries, max. 6 cables from 4 - 8mm	round
FOC-MRS-8X6	8 x 6mm entries, max. 8 cable from 0 - 6mm	round
FOC-MRS-16X3	16 x 3mm entries, max. 16 cable from 0 - 3mm	round
FOC-MRS-1X20	1 x 20mm entry, max. 1 cable from 10 - 20mm	round
FOC-MRS-2X12	2 x 12mm entries, max. 2 cable from 8 - 12mm	round
FOC-MOS-2X20	2 x 20mm entries, max. 2 cable from 10 - 20mm	oval
FOC-MOS-4X10	4 x 10mm entries, max. 4 cable from 5 - 10mm	oval

Standards
Direct burial or Areal applications
Protection: IP68, material: plastic, colour: black

Temperature Range
Operation: -40°C ~ 70°C
Transport /Storage: -10°C~ 40°C

Further closures or special types on request !



FO Splice Closure Outdoor RAYCHEM

Art.-No.	Description	PU
83127.1	Small In-line-closure for connecting and branching, splice cassette and splice holder included in delivery	1

Art.-No.	Splices	In-/Output	Cable dia	Dimension W x D x H	Material	Temperature	Cassette	Splice holder	Protection	Direct burial
83127.1	24 (Crimp)	4 (2 + 2)	5 - 15 mm	422 x 125 x 65 mm	Plastic black	-30°C .. +60°C	integrated	2 x 12	IP 68	Yes
83184.1	24 (Crimp)	4 (2 + 2)	8 - 23 mm	470 x 123 x 104 mm	Plastic black	-40°C .. +70°C	integrated	2 x 12	IP 68	Yes



FO Cuppling Splice Closure Outdoor

Art.-No.	Description	PU
83184.1	Connection- and branch closure, splice cassette and splice holder included in delivery	1



FO Splice Closure Outdoor 3M

Art.-No.	Description	PU
83200.1	Connection- and branch closure, empty	1
53100.200	DIN splice cassette	5
53100.201	Cover white for splice cassette	5
53100.21	Splice holder for 12 x Crimp (ANT) protectors	10

Art.-No.	Splices	In-/Output	Cable dia	Dimension W x D x H	Material	Temperature	Cassette	Splice holder	Protection	Direct burial
83200.1	48 (Crimp)	4 (2 + 2)	10 - 25 mm	399 x 175 x 107 mm	Plastic black	-40°C .. +60°C	see table	-----	IP 68	ja
83205.1	24 (Crimp)	4 (2 + 2)	4 - 9 mm	194 x 232 x 42 mm	Plastic black	-40°C .. +60°C	not needed	1 x 12	IP 68	ja



FO Splice Closure compact

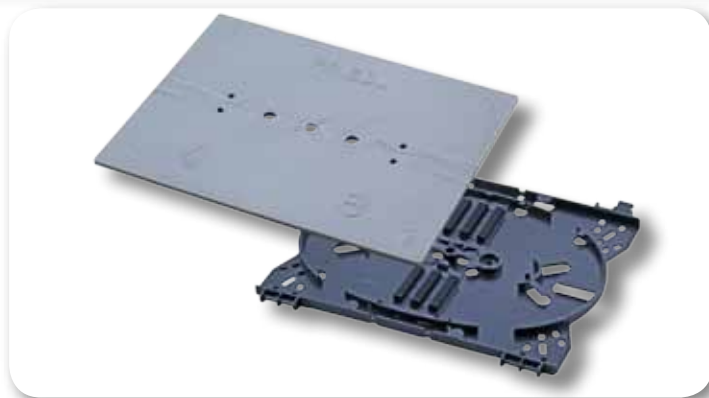
Art.-No.	Description	PU
83205.1	Compact closure, small and flat, splice holder integrated (delivery unassembled)	1



Splice Cassette

Art.-No.	Type	PU
53100.200	Splice Cassette for 2 x 12 Splice Holders	5
53100.201	Cover for Splice Cassette, white	5

- For 2 x 12 splice holders (max. 24 arc splices)
- Stackable



Splice Cassette PRO

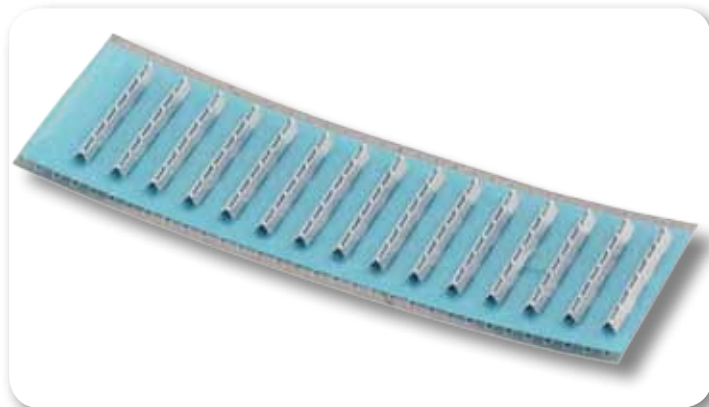
Art.-No.	Type	PU
53100.10	Splice Cassette incl. 2 x Holders for 12 Arc-Splices	5
53100.110	Cover for Splice Cassette	5

- For 24 arc splices
- Stackable



Accessories for Splice Cassette

Art.-No.	Type	PU
53100.21	Splice Holder for 12 x Arc Splices Crimp	10
53100.7	Splice Holder for 6 x Arc Splices with Shrink Tube (white)	10
53100.8	Splice Holder for 6 x Arc Splices with Shrink Tube (black)	10
53100.6	Strain-relief (for mounting on splice cassette 53100.200)	50



Splice Protection for arc splices

Art.-No.	Type	PU
53100.3	Crimp splice protector for arc splices	150



Splice Protection for arc splices

Art.-No.	Description	PU
53100.9	Shrink tube splice protector, length 61 mm, transparent	100
53100.91	Shrink tube splice protector, length 45 mm, transparent	100



Splice Protection Crimper

Art.-No.	Description	PU
53100.50	Splice Protection Crimper	1
53100.51	Mounting bracket	1

- Crimping tool for crimp splice protector
- Optimizes crimp quality and fiber protection

“Customer Outlet” for FTTX - Applications

The brandnew customer outlet is suitable for inhouse distribution points at the end of the line. Compact design and multiple mounting options makes it very flexible. Regardless the dimensions like a modern smartphone it is possible to install 2 adapter, LC duplex or SC simplex, and with integrated splice cassette and splice holder it is also possible to splice up to 4 fibers.

Customer outlet is suitable for the most standard applications like PON, G-PON and “Point to Point”.

Next version of this distribution box is called “Rapid Roll”.

Customer outlet is mounted with removable rivets on a plastic reel, charged with 10m up to 50m MDIC-cable, pre-assembled and installed with SC or LC connector. As a result the point “end of the line” could be finished in a fast and easy way.



Characteristics

- Compact design
- Easy and fast installation
- Cable entry from all sides possible
- Marking field
- Swingable splice cassette with fiber overlength storage
- Splice holder for 4 x Crimp- or Heat splice protectors
- Suitable for 2 adapter LC duplex or SC simplex
- Storage of Splitter and Monitoring possible
- Also available with Rapid Roll reel, Dia = 210mm, Depth = 95mm, xm MDIC-cable pre-assembled SC or LC-connectors plus integrated adapter

Specifications

- cable entries: top, bottom, right, left or backside
- cable diameter: 1,8mm up to 7,0mm
- Possible outputs: 2 x SC simplex or LC duplex adapter
- Capacity: up to 4 fibers
- Splice holder: for 4 x Crimp- or Heat splice protectors
- Dimensions (W x H x D): 130 x 80 x 25 mm
- Temperature Range: -40°C .. +70°C
- Material: Polycarbonate, halogenfree, UL94V-0
- Colour: RAL9016 white
- Protection: IP20

Art.-No.	Description	Splice protector	Fibers	Possible Adapter
53690.1	Customer outlet unassembled	Crimp / Heat	max. 4	2 x SC simplex or LC duplex



Customer Outlet pre-assembled, LC or SC connector to LC or SC adapter, completely assembled and mounted on Rapid Roll, with 10m up to 50m MDIC cable open end.

Art.-No.		Fibers	Cable Type	Cable Dimensions	Connector	Adapter
53691.x	Rapid Roll Outlet 2 x SC/UPC	2 x Singlemode G.657A1	MDIC I-V(B)H 02E9/125	2,0 x 3,1 mm	2 x SC/UPC	2 x SC simplex
53692.x	Rapid Roll Outlet 4 x LC/UPC	4 x Singlemode G.657A1	MDIC I-V(B)H 04E9/125	3,7 mm	4 x LC/UPC	4 x LC duplex

Standard lengths in metres: 10.0 - 20.0 - 30.0 - 40.0 - 50.0

House Connection Box (APL) for FTTH - Applications e.g. Fiber-To-The-Home (FTTH), Fiber-To-The-Board (FTTB)

This new house connection box enables clear and secure fiber management and fulfills not only the requirements to actual standards, but also for future applications.

Basing on a IP54 plastic housing with 3 cable entries, the box comes in modern, attractive design. This new house connection box is universally suitable and serves for all common applications, like e.g. PON, G-PON and „Point-to-Point“.



Characteristics

- Attractive design
- Hinged splice cassette for up to 12 splices
- Patching for up to 8 adapter LC duplex, SC simplex or E2000® simplex
- Holder for up to 12 splices
- Cable fixing and holder for gas blocker
- Easy and fast installation
- Suitable for house connection, building connection and as distribution box
- Easy feed-in and feed-out of the patch cables
- Access security with lead seal or lock
- Grounding
- Cable entries 3 x PG16 incl. cable glands

Technical Specifications

- Cable entries: 1
- Cable outlets: 2
- Capacity: up to 12 Fibers
- Dimensions (H x B x T): 210 x 175 x 45 mm
- Temperature range: -25°C .. +70°C
- Material: plastic, white
- Degree of protection: IP54

Art.-No.	Description	Splice Type	Fiber Capacity	Max. Adapter
53706.1	Connection box IP54 unassembled	Crimp	max. 12	8 x LC duplex, E2000® simplex or SC simplex

Please order pigtailed and adapter separately:

Adapter	LC-duplex	SC-simplex	Pigtails	12 x LC coloured	12 x SC coloured
Singlemode OS1/OS2	53350.31 / blue	53302.31 / blue	Singlemode OS1/OS2	O0481.2 / blue	O1022.2 / blue
Singlemode OS1/OS2 APC	53343.31 / green	53302.32 / green	Singlemode OS1/OS2 APC	O0482.2 / green	O1015.2 / green



Micro Splice Distributor IP54, unassembled

Art.-No.	Type	PU
53714.1	Micro Splice Distributor Housing II, RAL7035	1

- Plastic housing including holding for 4 x SC simplex or 4 x LC duplex adapters, splice cassette and shrink splice holder for 8 splices
- 2 x PG16 and 1 x PG9 screwing
- Lockable cover
- Scope of supply: chart label, metal splice depot for adapters
- Splice cassette and shrink splice holder 8 x
- 1 x key, 2 x PG16, 1 x PG9, 2 x dowel M8, 2 x screws 2.9 x 9.5
- Dimensions (W) x (H) x (D) 103 x 185 x 93 mm



Micro Splice Distributor Housing, unassembled

Art.-No.	Type	PU
53712.1	Micro splice distributor housing, RAL7035	1

Accessories

Art.-No.	Accessories	PU
83030.1	DIN Rail clip, M5 thread	1
81834.1	Screw M5 x 8 mm for 83030.1	1

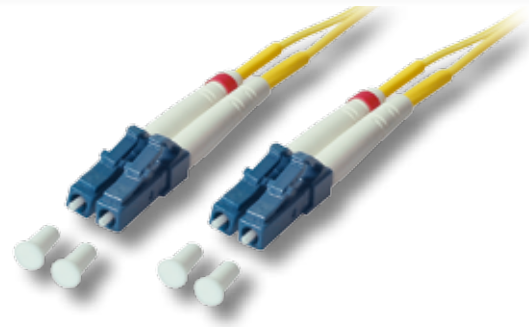
- Wall-, cable duct- or DIN Rail mounting possible (clip + screw please order separately)
- Plastic housing with holder for adapters: 2 x SC simplex, 2 x LC duplex, 2 x E2000®, 2 x FC, 2 x ST, 1 x SC duplex, 1 x LC quad
- Holder for 4 x shrink splice protection
- 2 x cable entries with 5 holes 5 mm or 3 mm
- Pre-stamped outlines for fiber depot
- Scope of supply: 5 x holders for several adapters, 2 x cable entries, 2 x S6 dowel and screws, 6 x cable ties
- IP20
- Dimensions (W) x (H) x (D) 110 x 140 x 20 mm



You can (nearly) fold it !

	Bending Radius		
ITU-T	15mm	10mm	7,5mm
G.657A1	< 0,025dB	< 0,75dB	-
G.657A2	< 0,03dB	< 0,1dB	< 0,5dB

Attenuation in dB at 1550nm for 1 turn with bending radius acc. to table.



LC/UPC / LC/UPC Duplex Jumper with bend-insensitive fiber ITU-T G.657A2

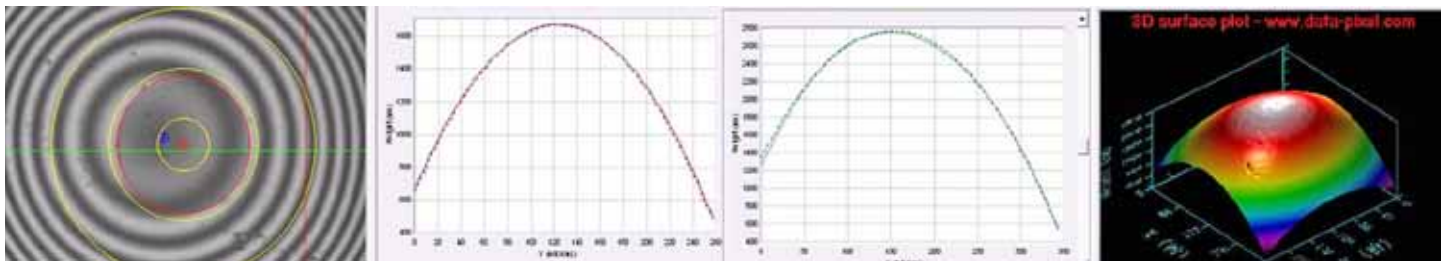
Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
00350Bl.x	OS2 yellow	LC/UPC blue	1

LC/UPC / SC/UPC Duplex Jumper with bend-insensitive fiber ITU-T G.657A2

Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
00360Bl.x	OS2 yellow	LC/UPC blue / SC/UPC blue	1

- Compatible to ITU-T G.652D and OS2
- Very dense bendings are possible without loss of energy, see table
- Other fiber qualities and types of connectors on request

Standard lengths in metres: 0.5 - 1.0 - 2.0 - 3.0 - 5.0 - 7.5 - 10.0 - 15.0 - 20.0



LC/UPC / LC/UPC Duplex Jumper with Interferometer Protocol

Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
00350IT.x	OS2 yellow	LC/UPC blue	1

- 100%-Interferometer testing for each LC-plug.
- Hence best transmission values are guaranteed.
- Interferometer protocol enclosed each assembly.



LC/UPC / SC/UPC Duplex Jumper with Interferometer Protocol

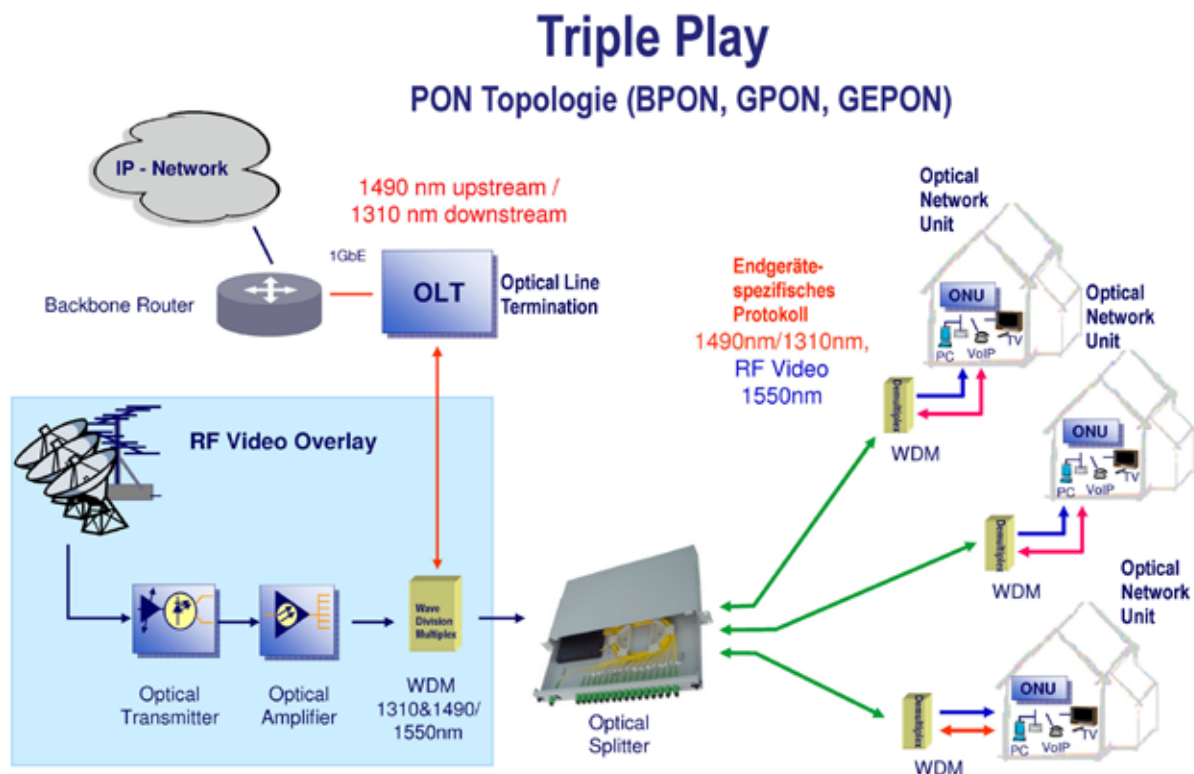
Art.-No.	Fiber/Jacket 2,0mm	Connector type	PU
00360IT.x	OS2 yellow	LC/UPC blue / SC/UPC blue	1

- 100%-Interferometer testing for each LC-plug and SC-plug.
- Hence best transmission values are guaranteed.
- Interferometer protocol enclosed each assembly.

Standard lengths in metres: 0.5 - 1.0 - 2.0 - 3.0 - 5.0 - 7.5 - 10.0 - 15.0 - 20.0

FTTx PON Splitter - CATV-System Application

Cable TV fibre optic (CATV FO) is a fibre optic solution for the transmission of digital television signals via Ethernet / LAN (Local Area Network). This process is one of the Internet Protocol (IP) based transmission processes. With this system signals can be transmitted over longer distances (20 – 100 km) without additional boosters and so widespread regions can be digitally developed, in order to supply them with HDTV, internet and telephonic media, after conversion. Areas of application are building complexes and larger company sites with structured cabling - for example, business and commercial parks, leisure complexes, hotels, logistics centres, refineries, harbours, train stations or modern residential complexes. With individual products CATV, VOIP and IP signals, for example, can be distributed via the fibre optic backbone to up to 64 recipients. The multimedia solution can be employed in structured building cabling (structured cabling) as campus, building and floor distributors and can be integrated into existing networks. Optical splitters are energy saving, maintenance-free components of a PON system (Passive Optical Network). The „bandwidth hunger“ for new applications such as Video on Demand, IPTV, HDTV, video conferencing, security and online gaming will only be sated in the future via fibre optics - a new challenge for the “Last Mile”.





Notes

G.652D full spectrum fiber allows the use of special optical windows 1310 nm (upload), 1490 nm (download) and 1550 nm (Video/CATV).

Low energy loss as well as high reflection values are typical features for this 19" mountable model.

Actually the types 1 x 8 and 1 x 16 are available, up to 32 x respectively 64 x on request.

Applications: FTTx, CATV, PON, AON

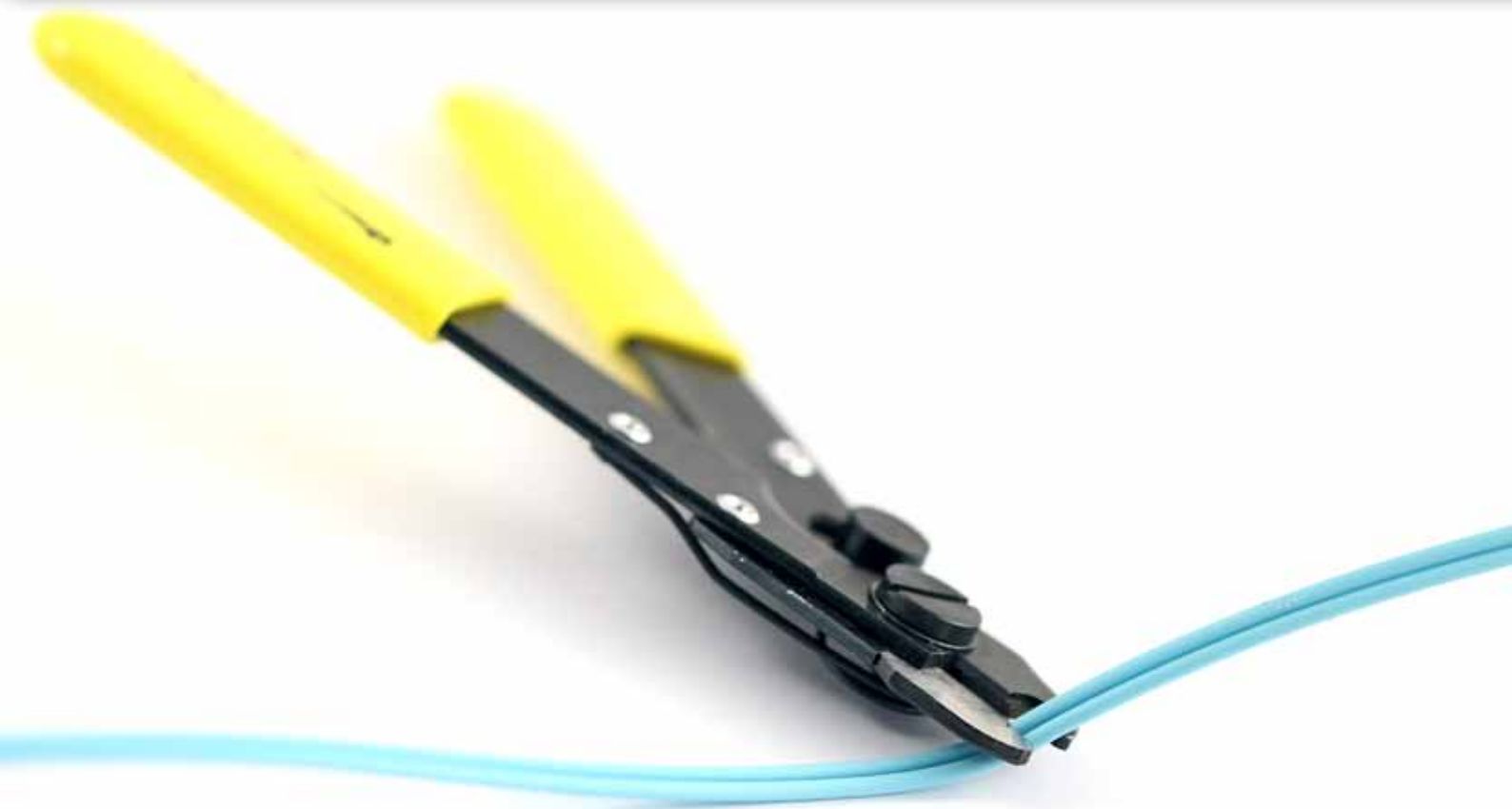
PON Splitter

Description PLC Splitter

Parameters	General specification
Wavelength spectrum (nm)	1260 - 1650
Channel-Wavelength spectrum (nm)	1310 ± 20 / 1490 ± 10 / 1550 ± 25
FO cable	OS2 / G.652D
Return Loss (dB)	≥ 50
Max. optical power input level (mW)	500
Operation temperature (°C)	-40°C ~ 85°C
Storage temperature (°C)	-40°C ~ 85°C
Port display	Marking label
Package dimension (mm)	125 × 530 × 330

Art.-No.	Description
B03921.8	PLC Splitter with 1 x LC/APC to 8 x LC/APC
B03921.16	PLC Splitter with 1 x LC/APC to 16 x LC/APC
B03920.8	PLC Splitter with 1 x SC/APC to 8 x SC/APC
B03920.16	PLC Splitter with 1 x SC/APC to 16 x SC/APC

- Simplex cable configuration for input and output
- completely assembled



Fiber Tools Fiber Checker Cleaning Sets

Fiber Optical Toolcase
the complete equipment for professionals

Art.-No.	Type
39843.1	Professional Fiber Optic Tool Case

This solid tool case made of aluminium contains all what is necessary for the daily work with optical fibers. Equal if cleaning, stripping or testing - a suitable tool is provided in professional quality.

Scope of Supply:

- 1 x Aluminium case for fiber optical tools, bare aluminium (Art.-No: 39840.1), dimensions (W x H x D) ca. 345 x 100 x 260 mm
- 1 x Side cutter RDC 178 mm, (Art.-No: 39982.1)
- 1 x Pliers RLN 216 mm, (Art.-No: 39983.1)
- 1 x Miller® stripping tool for 250µm (Art.-No: 39956.1)
- 1 x Miller® multi-stripping tool 721, for 0.6 - 2.6 mm cable (Art.-No: 39915.1)
- 1 x Fiber checker for single- and multimode for 2.5 mm ferrule, (Art.-No: 39990.1)
- 1 x Adapter for 1.25 mm ferrule, (Art.-No: 39990.2)
- 1 x Ferrule cleaner ST/SC and FC connectors for 2.5 mm ferrule, (Art.-No: 39988.2)
- 10 x Stick cleaner for 2.50 mm sleeves (Art.-No: 39976.1)
- 10 x Stick cleaner for 1.25 mm sleeves (Art.-No: 39975.1)
- 1 x Reel cleaner for fiber optical connectors (Art.-No: 39962.2)
- 1 x Stripping tool for round cable, 4.5 - 29 mm, length - crosswise - rotary (Art.-No: 39900.1)
- 1 x Kevlar® cutter KS-1 140 mm, (Art.-No: 39903.1)
- 1 x Stripping tool 0.60 - 1.10 mm, for secondary coating stripping (Art.-No: 39923.2)
- 1 x Stripping tool 0.18 - 0.30 mm, for primary coating stripping (Art.-No: 39923.1)
- 1 x Alcohol dispenser, without contents (Art.-No: 39920.2)
- 10 x Miller® cleaning sticks with fork head, alcohol soaked (Art.-No: 39925.1)
- 25 x Miller® cleaning tapes, alcohol soaked (Art.-No: 39926.1)



Fiber Checker 3000 for single- and multimode 2.5 mm ferrules

Art.-No.	Wavelength (typ.)	Range
39990.1	655 nm	ca. 3 km

The compact design of the visual locator is very suitable for daily use in all fiber optic applications e.g. in the field, in industrial environment as well as in laboratories

- Suitable to check singlemode/multimode optical fibers, fiber optic components on faults and for the patching of fibers
- Operation distance ca. 3 km
- Suitable 2.5 mm ferrule: DIN, E2000, FC, SC, ST
- Temperature: -10°C ~ 45°C (operation), -40°C ~ 70°C (storage)
- Weight: 60 g (incl. batteries)
- Dimension: 167 mm x 12 mm
- Included in delivery: dust cap, battery set (2 x AAA), plastic etui, instruction manual



Patent protected

Fiber Checker 5000 for single- and multimode 2.5 mm ferrules

Art.-No.	Wavelength (typ.)	Range
399900.1	635 nm	ca. 5 km

The compact design of the visual locator is very suitable for daily use in all fiber optic applications e.g. in the field, in industrial environment as well as in laboratories

- Suitable to check singlemode/multimode optical fibers, fiber optic components on faults and for the patching of fibers
- Operation distance ca. 5 km due to higher light power
- Due to 635nm wavelength (visible red light) defects are easier to locate
- Suitable 2.5 mm ferrule: DIN, E2000, FC, SC, ST
- Temperature: -10°C ~ 45°C (operation), -40°C ~ 70°C (storage)
- Weight: 60 g (incl. batteries)
- Dimension: 167 mm x 12 mm
- Included in delivery: dust cap, battery set (2 x AAA), plastic etui, instruction manual



Fiber Checker Adapter for 1.25 mm ferrules

Art.-No.	Type
39990.2	Fiber Checker Adapter 2.5 mm to 1.25 mm
399910.2	Fiber Checker Adapter 2.5 mm to 1.5 and 2.2 mm (POF)

Adapts Fiber Checker 2.5 mm to 1.25 mm ferrule. Enables checking of the most popular FO plug types with just one Fiber Checker

- Fiber Checker side: 2.5 mm ferrule
- Fiber side: 1.25 mm connection for LC, MU, F3000® ferrules
- Fiber sider (POF adapter): 1.5 mm and 2.2 mm connection for polymer optical fiber (POF)
- Dust caps for both sides included





Miller® Fiber Stripper

Art.-No.	Type
39956.1	Miller® Tool FO-103-S "One-Hole"

- Opening for stripping the coating 250µ to 125µ
- Precision-made 127µ v-notch, no adjustment required



Miller® Fiber Stripper

Art.-No.	Type
39922.1	Miller® Tool CFS-2 "Dual-Hole"

- Opening 140µ for stripping the primary coating 250µ to 125µ
- Opening for stripping the 2-3 mm outer jacket



Miller® Fiber Stripper

Art.-No.	Type
39901.1	Miller® Tool FO 103-T-250-J "Tri-Hole"

- Opening for stripping the primary coating 250µ to 125µ
- Opening for stripping the secondary coating 900µ to 250µ
- Opening for stripping the 2-3 mm outer jacket



Miller® Stripping Tool

Art.-No.	Type
39915.1	Miller® stripping tool WS 5 for stripping from 0.8 to 2.6 mm



Stripping Tool

Art.-No.	Type
39923.1	180µm - 300µm

- For stripping the primary coating 250µ to 125µ



Stripping Tool

Art.-No.	Type
39923.2	600µm - 1100µm

- For stripping the secondary coating 900µ to 250µ



Cable Stripping Tool

Art.-No.	Type
39900.1	Miller® RCS-114

- Precision tool for stripping of the outer jacket of round cables
- Knife is adjustable for longitudinal cut, circumferential and spiral slitting
- „Tri-Action-Strip“
- Adjustable cutting depth



Kevlar® Cutting Tool KS-1

Art.-No.	Type
39903.1	micro serrated blade

- Hardened blade made of carbon-molybdenum-vanadium steel
- Universal tool for cutting of Kevlar® or aramid yarn
- High-quality nylon case
- Length: 140 mm, weight: 79 g



Kevlar® Cutting Tool

Art.-No.	Type
39957.1	Self-sharpening stainless steel blade

- Universal tool for cutting Kevlar® or aramid yarn
- Opens automatically via spring
- Lockable for transport
- Hardened blades
- Retaining spring for faster working



Miller® Kevlar® Cutting Tool FOKC

Art.-No.	Type
39902.1	Miller® FOKC

- Faster, more powerful cut with hardened blades and opening spring
- Serrated blades for clean, smooth cut
- Lightweight and compact, in a tried and tested quality
- Ergonomically shaped handles with non-slip plastic covering
- Length 146 mm, Weight 72 g



Long Nose Pliers

Art.-No.	Type
39983.1	Long Nose Pliers RLN, 216 mm

- Ideal for working with small-core gauges in small confined areas



Diagonal Cutter

Art.-No.	Type
39982.1	Diagonal Cutter RDC, 178 mm

- Ideal for cutting and working with soft-core wire and cable



Ferrule Cleaner for Simplex Connection

Art.-No.	Type
39988.2	Ferrule cleaner for SC, FC and ST-plugs with 2.5 mm Ferrules
39989.2	Ferrule cleaner for LC and MU-plug for 1.25 mm Ferrules

- Dry cloth cleaning tools specially designed to clean single fiber connectors residing in an adapter, faceplate or bulkhead.
- Dust cap of the cleaning tool acts as an adapter for cleaning unmated connectors
- Cleaning tool 2.5 mm connector for SC, ST and FC for UPC and APC polishes
- Cleaning tool LC 1.25 mm connector for designed for standard LC, LC secure key and MU for UPC & APC polishes
- Disposable with 525+ cleanings per unit
- Made from antistatic resins
- Cleaning micro fibers are densely stranded and debris free
- Cleaning system rotates 360° for a full sweep



Ferrule Cleaner for Simplex Connection

Art.-No.	Type
39988.1	Ferrule cleaner for ST/SC and FC-Plug for 2.5 mm Ferrule
39989.1	Ferrule cleaner for MU/LC for 1.25 mm Ferrule

- The ferrule-cleaner is a tool for cleaning ferrule surfaces. Thereby the plugs can be not fixed or mounted in an adapter. FO plugs in patch fields don't have to be disassembled. Suitable for ST, SC and FC-Plug (PC or APC). By pressing the blue button the cleaning tape will be moved and rotated simultaneously. Dust and wetness will be removed and not pressed onto the ferrule surface. Conventional cleaning sticks move the dirt, whereas the ferrule-cleaner takes and removes it.
- For 300 to 400 cleaning cycle
 - Not refillable
 - Dimensions L x W x H, 163 x 20 x 44 mm • 60 g



Optical Fiber Connector Cleaner

Art.-No.	Type
39962.2	Reel Cleaner
39962.2A	Reel Cleaner, Refill (pack of six)

- Suitable for all connector types (except male MTRJ connectors)
- The washed, ultra clean micro-fiber cloth captures debris and other contamination



Ferrule Cleaner for MPO-Connectors

Art.-No.	Type
39989.3	Ferrule Cleaner for MPO-Connectors

- Cleans both male and female MT ferrule based connectors
- More than 600 cleanings per unit
- Cleaning cloth made from high density woven micro fibers is washed and debris free
- Adapter tip doubles as dust protection



Optical Fiber Connector Cleaner

Art.-No.	Type
39962.5	handimate Ferrule Cleaner

- Suitable for 1,25mm and 2,5mm ferrules, PC and APC
- The ultra clean micro-fiber cloth captures debris and other contamination from surface of ferrule
- More than 500 cleanings per unit



Miller® Fiber Cleaning Tapes

Art.-No.	Type
39926.1	25 Miller® Fiber cleaning tapes

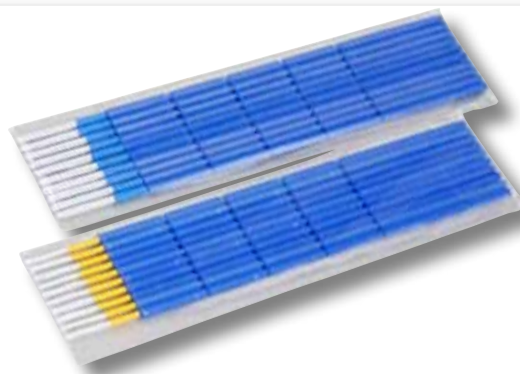
- 25 non-linting cleaning cloths
- Alcohol-impregnated, 99% isopropyl
- For fiber cleaning after stripping or for cleaning ferrules



Miller® Cleaning Sticks

Art.-No.	Type
39925.1	Miller® cleaning sticks

- Miller® cleaning sticks with fork head, soaked in alcohol
- 10 sticks, alcohol-impregnated, 99% isopropyl
- For fiber cleaning after stripping or for cleaning ferrules



Stick Cleaner

Art.-No.	Type
39975.1	Stick Cleaner 1.25 mm, 10 pieces per unit
39976.1	Stick Cleaner 2.50 mm, 10 pieces per unit

- For cleaning optical fiber connectors at difficult to reach places in the adapter
- The special fabric absorbs and retains dirt
- Cleaning without alcohol



Alcohol dispenser

Art.-No.	Type
39920.2	alcohol dispenser, 50ml

- Sealable
- Without contents



Epoxy Resin

Art.-No.	Type
53930.1	Epoxy resin, light 353

- 4 grams
- 2-component adhesiv



FO Marking Strips

Art.-No.	Type	PU
80360.1	For marking cable no. or else	1

- 50 x 90 mm
- Fastening with cable ties
- Protective lamination



FO Marking Strips

Art.-No.	Type	PU
80361.1	Vorsicht Glasfaserkabel	50

- 19 x 150 mm
- Self-adhesive



FO Marking Strips

Art.-No.	Type	PU
80362.2	Warning: Laser radiation	10



Miller® Fiber Cleaver

Art.-No.	Type
39949.1	Fiber optic cleaver

- Cleaver for fiber optic cable
- This field breaking tool is ideal in combination with mechanical splices
- Guide for lengths between 5 - 20 cm
- Ceramic blades for up to 6.000 breaks
- Dimensions 137 x 86 x 29 mm
- Weight 60 g



Fiber Optic Scribe

Art.-No.	Type
39964.1	ceramic fiber optic scribe