Construction of a glass fiber cable
A glass fiber cable consists mainly of three parts: The glass fiber core, carrying the light signal, the glass jacket which reflects the light and a plastic cladding which protects the glass fiber cable from external influences and makes it flexible.

The glass fiber core
There are various thicknesses of the glass fiber core which are described with their cross section: The single mode fiber cable with a cross section of 9µm and multi-mode fiber cables with cross sections of 50 µm and 62.5 µm.

Single mode fiber cables are more costly than multi-mode fiber cables because of difficulties in the manufacture of an extremely thin cable with a cross section of 9µm, but they have a greater range.

Additional designations are used to describe them in terms of their quality: OS1 and OS2 for single mode fiber cables, where OS2 is the best quality and OM1, OM2 and OM3 for multi-mode cables where OM3 is the best quality.
The difference between single mode and multi mode

The light is reflected in a zigzag pattern in the core of thicker multi-mode fiber cables. This results in higher attenuation, the range of the signal reduces, in other words. The light does not refract so frequently in single mode fiber cables and guarantees an enormous range.

Cladding

There are several forms of cladding for glass fiber cables.

- Solid strand type: The solid strand type surrounds the fiber directly. This has a disadvantageous effect when there is high strain and with temperature differences.
- Hollow strand type: Unlike the solid strand type, the hollow strand type does not surround the fiber directly. There is a hollow space between the cladding and the fiber which reduces the disadvantageous effects of strain load and temperature differences.
- Combined strand type: The combined strand type represents an intermediate form of the solid core type and the hollow core type. The hollow space of the cladding is filled here with a gel or similar.

Use of the individual glass fiber cables

Multi fire cables are usually found in cabling in buildings and in short and medium distance runs. OM2 fiber cables are used the most. OM3 fibers of better quality are used more and more frequently and replace OM2 fiber cables over the long run. Single mode fiber cables are used because of their good signal properties in long distance cabling.

LWL plugs

The widest distributed LWL plugs are ST-, SC- and LC plugs. The LC plugs gain an ever increasing share of the market for glass fiber plugs because of the compact size and their use with mini GBIC modules in switches or media converters.

Pigtails

Pigtails are cables equipped with an LWL plug on one side and a plain glass fiber cable on the other side. They are used at the end points of laid cables and are spliced with each other.

Splicing

Splicing is understood to be the connection of two glass fiber cables. These are adjusted at their end points and permanently fused together.
### ST / ST
**Fiber-optic patch cable, duplex**

- ST / ST Connectors
- Halogen free cable I-VH 2G-XXX (Multimode), I-VH 2E-XXX (Singlemode)
- OM3 up to 10Gbit Ethernet, OM1 & 2 1Gbit Ethernet
- Connector with ceramic ferrule
- Two color Boot (Multimode cable)
- Single packed, with test report

<table>
<thead>
<tr>
<th>Length (m)</th>
<th>Multimode OM2 - 50/125 µ</th>
<th>Multimode OM1 - 62.5/125 µ</th>
<th>Multimode OM3 - 50/125 µ</th>
<th>Singlemode - 9/125 µ</th>
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### SC / SC
**Fiber-optic patch cable, duplex**

- SC / SC Connectors
- Halogen free cable I-VH 2G-XXX (Multimode), I-VH 2E-XXX (Singlemode)
- OM3 up to 10Gbit Ethernet, OM1 & 2 1Gbit Ethernet
- Connector with ceramic ferrule
- Two color Boot (Multimode cable)
- Single packed, with test report

<table>
<thead>
<tr>
<th>Length (m)</th>
<th>Multimode OM2 - 50/125 µ</th>
<th>Multimode OM1 - 62.5/125 µ</th>
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<th>Singlemode - 9/125 µ</th>
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</table>
**LC / LC**
Fiber-optic patch cable, duplex

- LC / LC Connector
- Halogen free cable I-VH 2G-XXX (Multimode), I-VH 2E-XXX (Singlemode)
- OM3 up to 10Gbit Ethernet, OM1 & 2 1Gbit Ethernet
- Connector with ceramic ferrule
- Single packed, with test report

<table>
<thead>
<tr>
<th>Multimode OM2 - 50/125 µ</th>
<th>Multimode OM1 - 62,5/125 µ</th>
<th>Multimode OM3 - 50/125 µ</th>
<th>Singlemode - 9/125 µ</th>
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**ST / SC**
Fiber-optic patch cable, duplex

- ST / SC Connector
- Halogen free cable I-VH 2G-XXX (Multimode), I-VH 2E-XXX (Singlemode)
- OM3 up to 10Gbit Ethernet, OM1 & 2 1Gbit Ethernet
- Connector with ceramic ferrule
- Two color Boot (Multimode Cable)
- Single packed, with test report

<table>
<thead>
<tr>
<th>Multimode OM2 - 50/125 µ</th>
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<th>Singlemode - 9/125 µ</th>
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</table>
**LC / ST**
Fiber-optic patch cable, duplex

- LC / ST connector
- Halogen free cable I-VH 2G-XXX (Multimode), I-VH 2E-XXX (Singlemode)
- OM3 up to 10Gbit Ethernet, OM1 & 2 1Gbit Ethernet

Please choose your requested product by the corresponding article number or the EAN code.

<table>
<thead>
<tr>
<th>Multimode OM2 - 50/125 µ</th>
<th>Multimode OM1 - 62,5/125 µ</th>
<th>Multimode OM3 - 50/125 µ</th>
<th>Singlemode - 9/125 µ</th>
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</table>

**LC / SC**
Fiber-optic patch cable, duplex

- LC / SC Connector
- Halogen free cable I-VH 2G-XXX (Multimode), I-VH 2E-XXX (Singlemode)
- OM3 up to 10Gbit Ethernet, OM1 & 2 1Gbit Ethernet

Please choose your requested product by the corresponding article number or the EAN code.

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<tr>
<th>Multimode OM2 - 50/125 µ</th>
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<th>Singlemode - 9/125 µ</th>
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</table>
E2000 / E2000, Fiber optic patch cable, duplex

- Singlemode 09/125 µ with 8° APC
- Cable I-VH 2E-XXX, halogenfree
- Connector with ceramic ferrule
- Single packed with test report

Please choose your requested product by the corresponding article number or the EAN code.

<table>
<thead>
<tr>
<th>E 2000 Duplex 8° APC</th>
<th>E 2000 / LC 8° APC</th>
<th>E 2000 / SC 8° APC</th>
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<tbody>
<tr>
<td>1.0 m 204725 / AL-9E2000-01I</td>
<td>1.0 m 204763 / AL-9E2000LC-01I</td>
<td>1.0 m 204800 / AL-9E2000SC-01I</td>
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<td>5.0 m 204794 / AL-9E2000LC-05I</td>
<td>5.0 m 204831 / AL-9E2000SC-05I</td>
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</table>

E 2000 Pigtail, 8° APC, simplex

- Singlemode with 8° APC
- Single packed with test report

E 2000 Coupler, simplex

- Singlemode with 8° APC
- Zirconia sleeve

Please choose your requested product by the corresponding article number or the EAN code.
Fiber-optic universal indoor, outdoor cable
U-DQ(ZN)BH 50/125 µm, OM 3, multimode

- Universally useable, for indoor and outdoor use
- Halogen-free, flame-resistant as per IEC 332-3 C, longitudinally and laterally water-resistant
- The cable can be delivered in additional lengths and in fabricated form
- Tractive force: 1000N
- Singlepressure stability permanent: 200N/cm
- Rodent protection
- Dry interstices
- Non metallic

Fiber-optic universal indoor, outdoor cable
U-DQ(ZN) BH 50/125 µm, OM 2, multimode

- Universally useable, for indoor and outdoor use
- Halogen-free, flame-resistant as per IEC 332-3 C, longitudinally and laterally water-resistant
- The cable can be delivered in additional lengths and in fabricated form
- Tractive force: 1000N
- Singlepressure stability permanent: 200N/cm
- Rodent protection
- Dry interstices
- Non metallic

Fiber-optic universal indoor, outdoor cable
U-DQ(ZN)BH 09/125 µm, OS1, singlemode

- Universally useable, for indoor and outdoor use
- Halogen-free, flame-resistant as per IEC 332-3 C, longitudinally and laterally water-resistant
- The cable can be delivered in additional lengths and in fabricated form
- Tractive force: 1000N
- Singlepressure stability permanent: 200N/cm
- Rodent protection
- Dry interstices
- Non metallic
DIGITUS® colored pigtails, SC OM2 50/125 µ

- Simplex OM 2 50/125 µ 2m
- Semi tight buffer
- Colored buffer, according to IEC 302 in: white, violet, turquoise, black, red, pink, orange, grey, green, yellow, brown, blue
- Set of 12 pcs
- Incl. test report

261643 / DK-25221-02
SC pigtail, OM2 50/125 µ 2m

ST fiber pigtail

- Simplex, 2m.
- Tight buffer
- Single packed with test report

ST fiber pigtail

- Simplex OM 2 50/125 µ 2m
- Semi tight buffer
- Colored buffer, according to IEC 302 in: white, violet, turquoise, black, red, pink, orange, grey, green, yellow, brown, blue
- Set of 12 pcs
- Incl. test report

254225 / DK-25112-02
ST simplex pigtail, OM2 50/125 µ 2m

E 2000 fiber pigtail

- Simplex, 2m.
- Tight buffer
- Single packed with test report

133629 / AL-LFPST-02I
Multimode OM 2, 50/125 µ 2m

133681 / AL-LFPST-02/3I
Multimode OM 3, 50/125 µ 2m

148494 / AL-LFPST-02I
Singlemode OS 1 09/125 µ, 2m

163640 / AL-12SC2000-02I
Singlemode, 09/125 µ, 2m

Incl. test report
**Fiber-Optic Couplers + Connectors**

**SC / SC coupler, duplex**
- 007562 / ALWL-SCK1D
  - Phosphor bronze sleeve
- 007586 / ALWL-SCK2D
  - Zirconia sleeve

**ST / SC coupler, duplex**
- 007647 / ALWL-STSC1D
  - Phosphor bronze sleeve
- 180012 / ALWL-STSC2D-P
  - Zirconia sleeve

**ST / ST coupler, simplex**
- 007623 / ALWL-STK1
  - Zirconia sleeve
- 007630 / ALWL-STK2
  - Phosphor bronze sleeve

**LC duplex connector**
- 133742 / ALWL-LCD
  - LC connector/Phosphor bronze sleeve, incl. boot

**SC duplex connector**
- 007555 / ALWL-SCD
  - Phosphor bronze sleeve, two color boots
- 179030 / ALWL-SCD-9
  - Zirconia sleeve, blue color boot

**ST simplex connector**
- 007616 / ALWL-ST
  - Phosphor bronze, black boot
- 178927 / ALWL-ST-9
  - Zirconia sleeve, yellow boot
19” Fiber-optic splicebox, equipped, LC couplers, OM2 multimode

- Completely prefabricated, fiber pigtailed removed and inserted into the splice cassette(s)
- Colored pigtails
- Multimode 50/125µ OM2 fibers
- LC couplers with phosphor bronze sleeve
- Adapters in polymer housing
- Carrier housing of 1.5mm steel sheet
- 1U
- 19"
- 280mm depth
- PG 16 screws, splice cassette + cover, crimp splice protection and cable clips included
- Grey RAL 7035

262763 / AL-19AZ-06LCD-K
6x LC Duplex, Multimode 50/125µ

221555 / AL-19AZ-12LCD-K
12x LC Duplex, Multimode 50/125µ

221579 / AL-19AZ-24LCD-K
24x LC Duplex, Multimode 50/125µ

19” Fiber-optic splicebox, equipped, LC couplers, OM3 multimode

- Completely prefabricated, fiber pigtailed removed and inserted into the splice cassette(s)
- Colored pigtails
- Multimode 50/125µ OM3 fibers
- LC couplers with phosphor bronze sleeve
- Adapters in polymer housing
- Carrier housing of 1.5mm steel sheet
- 1U
- 19"
- 280mm depth
- PG 16 screws, splice cassette + cover, crimp splice protection and cable clips included
- Grey RAL 7035

262787 / AL-19AZ-06LCD-K-3
6x LC Duplex, Multimode 50/125µ

262855 / AL-19AZ-12LCD-K-3
12x LC Duplex, Multimode 50/125µ

262886 / AL-19AZ-24LCD-K-3
24x LC Duplex, Multimode 50/125µ

19” Fiber-optic splicebox, equipped, LC couplers, OS1 Singlemode

- Completely prefabricated, fiber pigtailed removed and inserted into the splice cassette(s)
- Colored pigtails
- Singlemode 9/125µ OS1 fibers
- LC couplers with ceramic sleeve
- Adapters in polymer housing
- Carrier housing of 1.5mm steel sheet
- 1U
- 19"
- 280mm depth
- PG 16 screws, splice cassette + cover, crimp splice protection and cable clips included
- Grey RAL 7035

262794 / AL-19AZ-06LCD-K-9
6x LC Duplex, Singlemode 9/125µ

221586 / AL-19AZ-12LCD-K-9
12x LC Duplex, Singlemode 9/125µ

221593 / AL-19AZ-24LCD-K-9
24x LC Duplex, Singlemode 9/125µ
Fiber-Optic Spliceboxes

19" Fiber-optic splicebox, equipped, SC couplers, OM2, multimode
- Completely prefabricated, fiber pigtailed removed and inserted into the splice cassette(s)
- Colored pigtailed
- Multimode 50/125µ OM2 fibers
- SC couplers with phosphor bronze sleeve
- Adapters in polymer housing
- Carrier housing of 1.5mm steel sheet
- 1U
- 19"
- 280mm depth
- PG 16 screws, splice cassette + cover, crimp splice protection and cable clips included
- Grey, RAL 7035

262749 / AL-19AZ-06SCD-K
6x SC Duplex, Multimode 50/125µ

163060 / AL-19AZ-12SCD-K
12x SC Duplex, Multimode 50/125µ

163077 / AL-19AZ-24SCD-K
24x SC Duplex, Multimode 50/125µ

19" Fiber-optic splicebox, equipped, SC couplers, OM3, multimode
- Completely prefabricated, fiber pigtailed removed and inserted into the splice cassette(s)
- Colored pigtailed
- Multimode 50/125µ OM3 fibers
- SC couplers with phosphor bronze sleeve
- Adapters in polymer housing
- Carrier housing of 1.5mm steel sheet
- 1U
- 19"
- 280mm depth
- PG 16 screws, splice cassette + cover, crimp splice protection and cable clips included
- Grey, RAL 7035

262732 / AL-19AZ-06SCD-K-3
6x SC Duplex, Multimode 50/125µ

262824 / AL-19AZ-24SCD-K-3
24x SC Duplex, Multimode 50/125µ

19" Fiber-optic splicebox, equipped, SC couplers, OS1, singlemode
- Completely prefabricated, fiber pigtailed removed and inserted into the splice cassette(s)
- Colored pigtailed
- Singlemode 9/125µ OS1 fibers
- SC couplers with ceramic sleeve
- Adapters in polymer housing
- Carrier housing of 1.5mm steel sheet
- 1U
- 19"
- 280mm depth
- PG 16 screws, splice cassette + cover, crimp splice protection and cable clips included
- Grey, RAL 7035

262756 / AL-19AZ-06SCD-K-9
6x SC Duplex, Singlemode 9/125µ

221500 / AL-19AZ-12SCD-K-9
12x SC Duplex, Singlemode 9/125µ

262831 / AL-19AZ-24SCD-K-9
24x SC Duplex, Singlemode 9/125µ
19" Fiber-optic splicebox, equipped, ST couplers, OM2, multimode

- Completely prefabricated, fiber pigtails removed and inserted into the splice cassette(s)
- Colored pigtails
- Multimode 50/125µ OM2 fibers
- ST couplers with phosphor bronze sleeve
- Adapters in metal housing
- Carrier housing of 1.5mm steel sheet
- 1U
- 19" depth
- 280mm depth
- PG 16 screws, splice cassette + cover, crimp splice protection and cable clips included
- Grey RAL 7035

262664 / AL-19AZ-06ST-K
6 ST Simplex, Multimode 50/125µ

162091 / AL-19AZ-12ST-K
12 ST Simplex, Multimode 50/125µ

162004 / AL-19AZ-24ST-K
24 ST Simplex, Multimode 50/125µ

19" Fiber-optic splicebox, equipped, ST couplers, OM3, multimode

- Completely prefabricated, fiber pigtails removed and inserted into the splice cassette(s)
- Colored pigtails
- Multimode 50/125µ OM3 fibers
- ST couplers with phosphor bronze sleeve
- Adapters in metal housing
- Carrier housing of 1.5mm steel sheet
- 1U
- 19" depth
- 280mm depth
- PG 16 screws, splice cassette + cover, crimp splice protection and cable clips included
- Grey, RAL 7035

262671 / AL-19AZ-06ST-K-3
6 ST Simplex, Multimode 50/125µ

262633 / AL-19AZ-12ST-K-3
12 ST Simplex, Multimode 50/125µ

262701 / AL-19AZ-24ST-K-3
24 ST Simplex, Multimode 50/125µ

19" Fiber-optic splicebox, equipped, ST couplers, OS1, multimode

- Completely prefabricated, fiber pigtails removed and inserted into the splice cassette(s)
- Colored pigtails
- Multimode 09/125µ OS1 fibers
- ST couplers with ceramic sleeve
- Adapters in metal housing
- Carrier housing of 1.5mm steel sheet
- 1U
- 19" depth
- 280mm depth
- PG 16 screws, splice cassette + cover, crimp splice protection and cable clips included
- Grey, RAL 7035

262688 / AL-19AZ-06ST-K-9
6 ST Simplex, Singlemode 09/125µ

221524 / AL-19AZ-12ST-K-9
12 ST Simplex, Singlemode 09/125µ

221531 / AL-19AZ-24ST-K-9
24 ST Simplex, Singlemode 09/125µ
**Fiber-Optic Spliceboxes**

**SC Duplex 19" fiber-splicebox, 1U, unequipped, extractable**

- Carrier housing 1.5 mm sheet steel
- Grey RAL 7035
- Width 483 mm, depth 350 mm, pull-out depth 210mm, adjustable depth
- Holder for splice box
- Punched out ground to fix pigtails
- 4 PG entries and 2 cable entries
- PG 16 screws and mounting material

**ST Simplex 19" fiber-splicebox, 1U, unequipped, extractable**

- Carrier housing 1.5 mm sheet steel
- Grey RAL 7035
- Width 483 mm, depth 350 mm, pull-out depth 210mm, adjustable depth
- Holder for splice box
- Punched out ground to fix pigtails
- 4 PG entries and 2 cable entries
- PG 16 screws and mounting material

**LC Duplex, SC & E 2000 simplex 19" fiber-optic-splicebox, 1U, unequipped, extractable**

- Carrier housing 1.5 mm sheet steel
- Grey RAL 7035
- Width 483 mm, depth 350 mm, pull-out depth 210mm, adjustable depth
- Holder for splice box
- Punched out ground to fix pigtails
- 4 PG entries and 2 cable entries
- PG 16 Screws and mounting material

**Wallmounting type fiber-optic splicebox**

- Carrier housing 1.5 mm sheet steel
- Grey RAL 7035
- Holder for splice cassettes
- Punched out ground to fix pigtails
- One PG entries and 2 cable entries
- PG 16 screws and mounting material
- Lockable front door
**Splice cassette**

Different cable entries allow an optimal core connection.

- Suitable for up to 12 fiber cores
- Four cable entries
- Twist protection
- Dimensions: 155x92x8mm (WxPxH)

007326 / AL-SK1
Splice cassette for 12 fiber cores

**Cover for splice cassette**

For splice cassette AL-SK1

007371 / AL-SK4
Cover for splice cassette

**Splice comb**

- Inc. connection screw M3
- Measurements: 40 x 35 x 5mm
- Crimp splice

007340 / AL-SK2
Crimp splice comb for 12 fiber cores

**Crimp splice protection**

Sandwich crimp splice protection for fiber core

- Measurements: 1,2 x 3,2 x 30mm

007364 / AL-SK3
Crimp splice protection, 10 pcs. per unit

**ST fiber blind plate**

- for not used ports in splicebox
- avoids dust
- black color plastic
- 100 pcs. per unit

262848 / AL-BP-ST
Fiber blind plates ST

**SC and LC fiber blindplate**

- for not used ports in splicebox
- avoids dust
- black color plastic
- 100 pcs. per unit

262862 / AL-BP-SCD
Fiber blind plates SC duplex
262879 / AL-BP-LCD
Fiber blind plates LC duplex