The special feature of the new DiaFlex fan-out connection is that the fiber whips can be removed and replaced via a connector system in the divider. This provides greater flexibility in the installation of fiber-optic networks. Cable ends can be replaced flexibly, quickly and without spending a great deal of time or money, and cable installations can be extended as is necessary. Thanks to the feed-in cap, which has a small design, preassembled cables can be inserted directly into pipes or cable ducts. There is therefore no need for expensive splices. The cable and the fiber whips are manufactured in the fiber design and quantity that you requested, inspected and delivered with the corresponding test reports. The DiaFlex contains a DIAMOND multi-fiber connector (MFS) for 8, 12 fibers (24 upon request).

We recommend this product if...
... flexibility is required, e.g. in temporary installations
... connections have to be upgraded or retrofitted
... you do not want to use expensive splices

**FEATURES**
- Replaceable fiber whips
- Protective cap with feed-in eye
- IP class: IP68
- Simple to use on site and no expensive splicing work necessary
- Robust metal fiber divider
- Can be used flexibly thanks to the small external diameter
- Client-specific connector types and cable lengths

**TECHNICAL SPECIFICATIONS**
- MFC connector: in accordance with EN 186310 and the TIA/EIA 604-15 standard
- Divider connector material: Blue-anodized aluminium
- Dim. DiaFlex 8/12/ 24: Max. external diameter of the feed-in cap: 25 mm; Max. external diameter on the fiber whip side: 27 mm
- Fiber whip length: From 0.5 m to 3 m (other lengths available on request)
- Labelling code: Swisscom/ DIN/ IEC/ TIA standard
- Fiber whip protection: Optional cable protection
- Fiber types available: MM 50 µm or MM 62.5 µm, SM 9 µm

**SPECIFICATIONS (only DiaFlex connection)**

<table>
<thead>
<tr>
<th></th>
<th>MULTIMODE 0° PC</th>
<th>SINGLE MODE 0° PC</th>
<th>SINGLE MODE 0° APC (124 channels)</th>
<th>UNITS</th>
<th>TEST CONDITIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insertion Loss (IL)</td>
<td>typ. 0.35</td>
<td>typ. 0.25 max. 0.75</td>
<td>typ. 0.25 max. 0.75</td>
<td>dB</td>
<td>IEC 61300-3-4</td>
</tr>
<tr>
<td>Return Loss (RL)</td>
<td>typ. 30</td>
<td>min. 40</td>
<td>min. 60*</td>
<td>dB</td>
<td>IEC 61300-3-6</td>
</tr>
<tr>
<td>Repeatability of IL</td>
<td>max. ±0.2</td>
<td></td>
<td></td>
<td>dB</td>
<td>IEC 61300-2-2</td>
</tr>
<tr>
<td>Service life</td>
<td>5000 mate/demate cycles</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-25/+70**</td>
<td></td>
<td></td>
<td>°C</td>
<td>IEC 61300-2-22</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-25/+70**</td>
<td></td>
<td></td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>Cable retention (Multi fiber cable side)</td>
<td>700</td>
<td>N</td>
<td></td>
<td>IEC 61300-2-4</td>
<td></td>
</tr>
</tbody>
</table>

* Measured with high precision reflectometer
** May be further limited by cable specifications

**NOTE** Whips tested at an operating temperature of -10° / + 60°

Specifications subject to change without notice
## CABLE SPECIFICATIONS

<table>
<thead>
<tr>
<th>CABLE</th>
<th>INDOOR AND OUTDOOR</th>
<th>OUTDOOR FLEXIBLE***</th>
<th>TEST CONDITIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Fibers</td>
<td>8 / 12</td>
<td>8</td>
<td>12</td>
</tr>
<tr>
<td>Diameter of Cable</td>
<td>7.6 9.5</td>
<td>6.6 7.0</td>
<td></td>
</tr>
<tr>
<td>Tensile Load**</td>
<td>1000 1000</td>
<td>1100 1250</td>
<td>EN 60764-1-2E1</td>
</tr>
<tr>
<td>Bend Radius</td>
<td>115 140</td>
<td>132 140</td>
<td>EN 60764-1-2E11</td>
</tr>
<tr>
<td>Crush Resistance</td>
<td>200 200</td>
<td></td>
<td>EN 60764-1-2E3</td>
</tr>
<tr>
<td>Operating temperature in °C *</td>
<td>-25 +60</td>
<td>-40 +70</td>
<td></td>
</tr>
<tr>
<td>Storage temperature in °C *</td>
<td>-25 +70</td>
<td>-40 +70</td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td>FR / LSOH</td>
<td>PU / Aramid</td>
<td></td>
</tr>
</tbody>
</table>

* May be further limited by cable specifications

** Refers only to the cable. The tensile strength of the DaiFlex connector is always min. 700N

*** Cable versions break-out, Kevlar reinforced and highly flexible

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### DiaFlex Female with whips

![DiaFlex Female with whips](image1)

### DiaFlex Female with FanOut Cable (only 12 channels)

![DiaFlex Female with FanOut Cable](image2)

### DiaFlex Male with cable boot

![DiaFlex Male with cable boot](image3)

### DiaFlex Male with cable gland

![DiaFlex Male with cable gland](image4)

### DiaFlex connection

![DiaFlex connection](image5)
POSSIBLE CONFIGURATIONS

Assembled DiaFlex – Fan-Out patchcord

Assembled DiaFlex – DiaFlex patchcord

Assembled DiaFlex – DiaFlex pigtail

Assembled Fan-Out – DiaFlex – Fax-Out patchcord
DIALINK SINGLE PARTS

A: DiaFlex female (Fan-Out)

B: DiaFlex male

C: DiaFlex male – Fan-Out

D: DiaFlex male – DiaFlex male

E: DiaFlex female – Fan-Out

F: DiaFlex female – DiaFlex male
### ORDER INFORMATION

#### Configuration for part A (DiaFlex female Fan-Out)

<table>
<thead>
<tr>
<th>Connector type</th>
<th>Cord</th>
</tr>
</thead>
<tbody>
<tr>
<td>DiaFlex male</td>
<td></td>
</tr>
<tr>
<td>SM PC</td>
<td></td>
</tr>
<tr>
<td>SM APC (not 24 channels)</td>
<td></td>
</tr>
<tr>
<td>MM PC</td>
<td></td>
</tr>
</tbody>
</table>

- **Connector type cord**
  - E-2000™
  - F-3000™
  - FC
  - SC
  - ST™
  - DiaLink male

- **Fiber count**
  - 8
  - 12

- **Cable type**
  - Indoor and outdoor
  - Outdoor
  - __________

- **Cable length**
  - _______ m
  - Delivered as air ring (Standard max. 100m)
  - Delivered on reel (Standard min. 100m)

- **Length L A**
  - max. 3m

- **Staggering**
  - Yes (4cm)
  - No

- **Cord Identification A**
  - Color code according to:
    - Swisscom
    - DIN
    - Numbered

#### Configuration for parts B, C, D, E, F

<table>
<thead>
<tr>
<th>END A</th>
<th>END B</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Multi-fiber Cable</td>
</tr>
<tr>
<td></td>
<td>DiaFlex male: PC APC (not 24 channels)</td>
</tr>
<tr>
<td></td>
<td>Connector type Cord</td>
</tr>
<tr>
<td></td>
<td>Diameter L B</td>
</tr>
<tr>
<td></td>
<td>max. 3m</td>
</tr>
</tbody>
</table>

- **Connector type cord**
  - E-2000™
  - F-3000™
  - FC
  - SC
  - ST™
  - DiaLink male

- **Cable type**
  - Indoor and outdoor
  - Outdoor
  - __________

- **Fiber count**
  - 8
  - 12

- **Fiber type**
  - SM 9/125µm
  - MM 50/125µm
  - MM 50/125µm OM3
  - MM 50/125µm OM4
  - MM 62.5/125µm

- **Cable length**
  - _______ m

- **Staggering**
  - Yes (4cm)
  - No

- **Cord Identification B**
  - Color code according to:
    - Swisscom
    - DIN
    - Numbered

#### Number of connectors

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**HINWEISE** Parts A to F are delivered as individual sub parts and not as configured as total part.