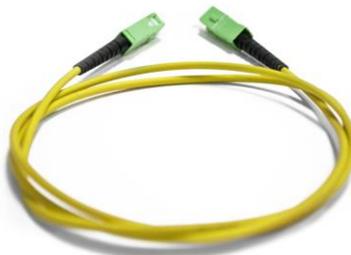


## Connection components - fiber optic cabling

### Patchcords and Pigtails TITANIUM GRADE



Fibrain Titanium series of patchcords and pigtails is intended for the most demanding customers. High optical parameters, premium quality and precise selection of the components are the characteristic features of the Titanium Grade. Fibrain optical components are specifically designed and based on connectors, which comply with IEC/ PN-EN 61754 and IEC/PN –EN 61755 requirements. Patchcords and pigtails of Titanium Grade are available in singlemode option with various type of connectors, cables and optical fibers. Fully automated preparation and polishing process ensure the highest quality and reliability. Therefore, detailed selection of the manufacturing components ensures the highest quality of the final component.

Patchcords and pigtails of Titanium Grade are available 3 different designs of boots, which protect a bend radius of the optical fibers. Apart from standard boots there are mini and flex-angled available. The boot in the mini option limits the total length of a connector and boot, whereas the flex-angled boot is designed to bend in a 0-90° angle range. Available options of the boots are given in the table below. There is no possibility to mix various type of boots on a patchcord- as from the both sides a patchcord is terminated with the same type of boots.

#### APPLICATIONS:

Telecommunication Networks,  
Local Area Network (LAN),  
FTTx, FTTD, FTTB, FTTH networks,  
CATV solution,  
CWDM networks  
Low voltage networks,  
Measuring devices.

#### FEATURES

Comply with IEC, TIA/EIA requirements,  
High quality and repeatability of the transmission parameters,  
Connectors are constructed from high quality plastic, resistant to corrosion and high temperatures with UL94-V0 flammability index or the high quality metal resistant to corrosion,  
Good value for money,  
High quality ceramic ferrules,  
Low attenuation and high reflectance,  
Wide range of available fibers and connectors.

#### TECHNICAL SPECIFICATION:

| Parameter                           | SM PC connectors | SM APC connectors |
|-------------------------------------|------------------|-------------------|
| <b>IL<sub>MAX</sub> (61300-3-4)</b> | ≤ 0.12 dB        | ≤ 0.15 dB         |
| <b>IL<sub>AVG</sub> (61300-3-4)</b> | ≤ 0.10 dB        | ≤ 0.12 dB         |
| <b>RL (61300-3-6)</b>               | ≥ 55 dB          | ≥ 65 dB           |

## Connection components - fiber optic cabling

### CONSTRUCTION

Patchcord – section of a simplex or duplex cable terminated with fiber optic connectors on both sides. Pigtail – a section of optical fiber in 0.9 mm tube as well as a section of simplex or duplex cable terminated with connector on one side.

Standard lengths:

| Pigtail / patchcord length [m] | Standardization step [m] |
|--------------------------------|--------------------------|
| 0.5                            | -                        |
| 1 - 5                          | 0.5                      |
| > 5                            | 1                        |

Length tolerance:

| Length [m] | Tolerance |
|------------|-----------|
| ≤ 10       | +10/-0 cm |
| > 10       | ±1%       |

### MATERIALS

Connector housing: high quality plastic, resistant to corrosion and high temperature with UL 94-V0 flammability index or high quality metal resistant to corrosion.

Ferrule: high quality ceramic ferrule.

Fiber optic cables: singlemode.

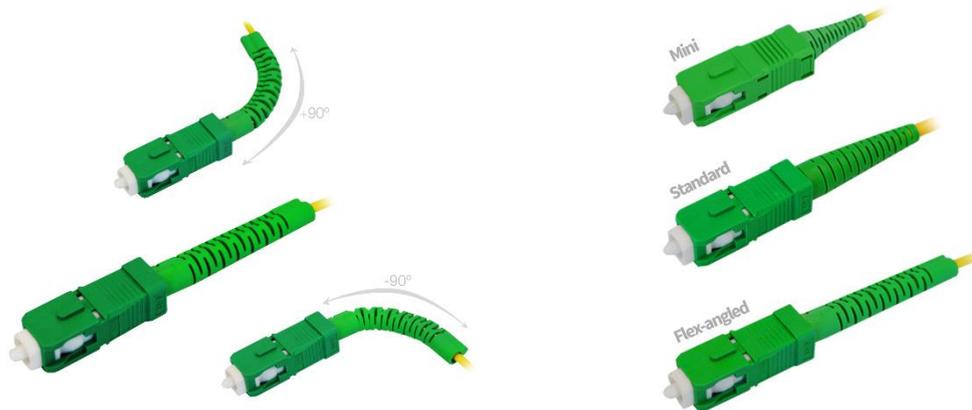
### PACKING SYSTEM:

Patchcords and pigtails are packed in welded bag, in the amount of: 1 piece in a bag with the identification information on each bag.

### ACCESSORIES:

Possibility of delivering with dedicated fiber optic adapters.

Patchcords and pigtails of Titanium Grade are available 3 different designs of boots. Apart from standard boots there are mini boots that limit the total length of connector by 20% to 40% and flexi-angles that allows bending in a 0-90° angle range.



## Connection components - fiber optic cabling

### AVAILABLE BOOTS

| Connector type | Standard boots<br>0.9/2.0/3.0 mm | Mini boots<br>0.9/2.0/3.0 mm | Flex-Angled boots<br>2.0/3.0 mm |
|----------------|----------------------------------|------------------------------|---------------------------------|
| SC PC          | ☑                                | ☑                            | ☑                               |
| SC APC         | ☑                                | ☑                            | ☑                               |
| LC PC          | ☑                                | ☑                            | ☑                               |
| LC APC         | ☑                                | ☑                            | ☑                               |
| FC PC          | ☑                                | ☑                            | -                               |
| FC APC         | ☑                                | ☑                            | -                               |
| E2000 PC       | ☑                                | -                            | -                               |
| E2000 APC      | ☑                                | -                            | -                               |

### ORDERING INFORMATION:

| Grade          | Connector<br>A | Connector<br>B | Boot type     | Length<br>[m] | Cable type                    | Fiber type    | Cable<br>diameter | Colour |
|----------------|----------------|----------------|---------------|---------------|-------------------------------|---------------|-------------------|--------|
| T-<br>Titanium | SC             | SC             | S-Standard    | 001.0         | SX patchcord simplex          | A G.652D      | 09 0.9 mm         | OR     |
|                | SCA            | SCA            | M-Mini        |               | DX patchcord duplex           | B SMF G655    | 16 1.6 mm         | Y      |
|                | LC             | LC             | F-Flex-angled |               | P9 pigtail 900 µm             | C SMF G656    | 18 1.8 mm         | GR     |
|                | LCA            | LCA            |               |               | P9S Pigtail 900 µm semi-tight | D SMF G657A1  | 24 2.4 mm         | GY     |
|                | FC             | FC             |               |               | P9T Pigtail 900 µm tight      | E SMF G657A2  | 28 2.8 mm         | BL     |
|                | FCA            | FCA            |               |               | PS pigtail simplex cable      | F SMF G657B3  |                   | BK     |
|                | E2             | E2             |               |               | PD pigtail duplex cable       | G SMF G657B3+ |                   | V      |
|                | E2A            | E2A            |               |               |                               |               |                   | R      |
|                |                | XX             |               |               |                               |               |                   | W      |
|                |                |                |               |               |                               |               |                   | AQ     |
|                |                |                |               |               |                               |               |                   | BR     |
|                |                |                |               |               |                               |               |                   | P      |

\* Standard colours of external tube for 1.6-2.8 mm cables, other colours can be ordered by a customer on request. Colours in the table concern 0.9 mm tube.

**T-SCA-SCA-S-002.0-SX-D-28-Y** Fibrain Titanium Grade Patchcord, with SC APC connectors at both side, simplex, 2m length, G.657A1, 2.8 mm cable diameter, yellow coat.

#### Important notice

Buyer and/or user of this product has to make sure before using this product that it is suitable for the intended use. All questions of liability relating to this product are subject – in accordance with the prevailing – to the Term of Sale of the selling Fibrain subsidiary.