

## Connection components - fiber optic cabling

### Patchcords and Pigtails GOLD GRADE



Fiber optic patchcords and pigtails are basic connectivity elements – a short section of station cable terminated with connectors on both sides, which is used to connect transmission lines with fiber optic distribution box or with the measuring equipment. Most of the times fiber optic pigtail refers to a fiber in 0.9 mm tube terminated with connector on one side. The other side is spliced to a line cable fiber in a distribution box. Pigtails are usually plugged in the adapters from the inside of commutation field. Fibrain optical components are specifically designed and based on connectors, which comply with IEC/ PN-EN 61754 and IEC/PN –EN 61755 requirements. Patchcords & Pigtails of Gold Grade are available in singlemode and multimode 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 product. Patchcords & Pigtails of Gold Grade are available with standard boots which protect the bend radius of the optical fibers.

#### APPLICATIONS:

Telecommunication Networks,  
Local Area Network (LAN),  
FTTx, FTTD, FTTB, FTTH networks,  
CATV solutions,  
CWDM networks,  
Measurement equipment.

#### 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,  
Wide range of available fibers and connectors.

#### TECHNICAL SPECIFICATION:

Parameter	SM PC connectors	SM APC connectors	MM PC connectors
<b>IL<sub>MAX</sub> (61300-3-4)</b>	≤ 0.17 dB	≤ 0.20 dB	≤ 0.20 dB
<b>IL<sub>AVG</sub> (61300-3-4)</b>	≤ 0.15 dB	≤ 0.16 dB	≤ 0.12 dB
<b>RL (61300-3-6)</b>	≥ 55 dB	≥ 65 dB	≥ 35 dB

#### 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.

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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: single and multimode.

### 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.

### ORDERING INFORMATION:

Grade	Connector A	Connector B	Boot type	Length [m]	Cable type	Fiber type		Cable diameter		Colour	
G - Gold	SC	SC	S-Standard	001.0	SX patchcord simplex	A	G.652D	09	0.9 mm		OR*
	SCA	SCA			DX patchcord duplex	B	SMF G655	18	1.8 mm		Y*
	LC	LC			P9 pigtail 900 µm	C	SMF G656	28	2.8 mm		GR
	LCA	LCA			P9S Pigtail 900 µm semi-tight	D	SMF G657A1				GY
	FC	FC			P9T Pigtail 900 µm tight	E	SMF G657A2				BL
	FCA	FCA			PS pigtail simplex cable	F	SMF G657B2				BK
	E2	E2			PD pigtail duplex cable	G	SMF G657B3				V
	E2A	E2A				H	MMF OM1				R
	ST	ST				I	MMF OM2				W
	MU	MU				K	MMF OM3				AQ
		XX				L	MMF OM4				BR
											P

\* Standard colours of external tube for 1.8-2.8 mm cables, other colours can be ordered by a customer on request. Colours in the table concern 0.9 mm tube.

**G-SCA-SCA-S-002.0-SX-A-18-Y** FIBRAIN PATCHCORD 2M SCAPC/SCAPC G652D 1,8 SIMPLEX GOLD

#### 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.