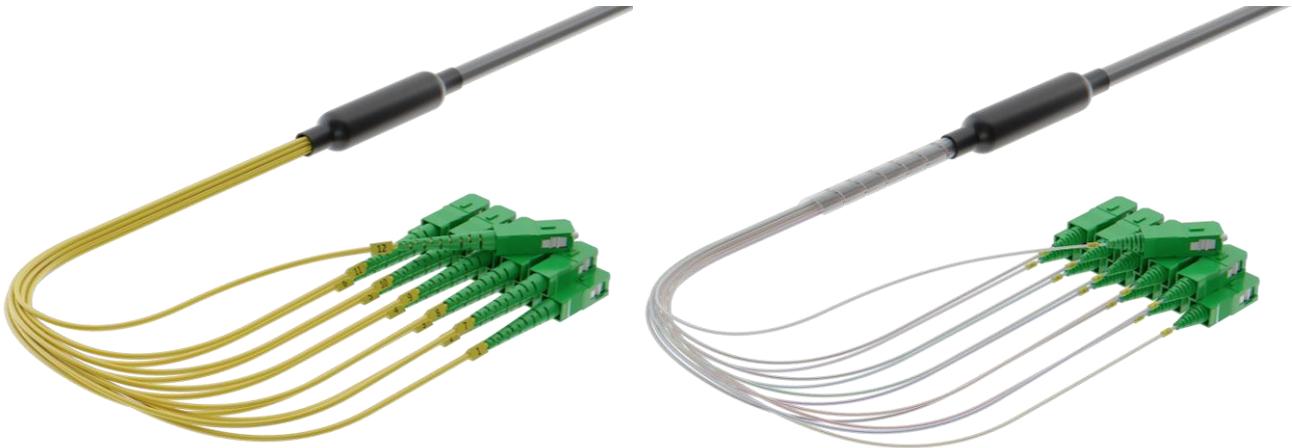


Type:	Multipatchcords TCF	REV: 1.0
Ref:	TCF-xx, see ordering information	
Date:	31.07.2019	KGB
Modification:		

## Connectivity solutions – multipatchcords

### TCF



TCF Easylink 1 pre-connectorized multi-fiber cables are specifically designed to serve as general purpose products. The solution provides termination of loose tube cables. The fibers are inserted into 0.9mm tube or 1.8mm or 2.8mm fanouts strengthened by kevlar fibers. The furcation point is protected by a plastic tube and a heatshrink sleeve. Finally, fibers are terminated with connectors in accordance with customer's needs and requirements.

From an economic point of view TCF pre-connectorized multifiber cables provide cost-effective solutions, thus are popular in the structured cabling systems, where they are used as links between distribution points. It is a Plug&Play solution, which facilitates fast and easy installation, with no extra equipment, as in traditional pigtail splicing.

#### APPLICATIONS

FTTX applications,  
Structured cable systems,  
Distribution points, cabinets/racks connections.

#### FEATURES

Furcation point protected by plastic tube and a heatshrink sleeve,  
High quality,  
Easy and fast installation,  
Plug & Play solution,  
Common in structured cable system,  
Wide range of fiber optic connectors.

#### TECHNICAL SPECIFICATIONS:

##### Mechanical, environmental and optical parameters:

<b>Max. Tensile load (tube to furcation point)</b>	IEC 61753-2-1	7N (0.9mm) /150N (1.8-2.8mm)
<b>Crush performance (furcation point)</b>	EN 187101, IEC 60794-1-2-E3, no attenuation increase	100 N
<b>Installation temperature range *</b>		-10... +50 [°C]
<b>Operation *</b>	EN 187101, IEC 60794-1-2-F1, no attenuation increase	-25... +70 [°C]
<b>Transport and storage *</b>		-25... +70 [°C]
<b>Max connector Insertion Loss</b>	IEC 61300-3-4	≤ 0.3dB
<b>Max connector Return Loss</b>	IEC 61300-3-6	RL≥65 dB(APC); RL≥50 dB(SM UPC); RL≥30 dB(MM PC)

\* concerns the furcation point, depends on a cable type

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## Connectivity solutions – multipatchcords

### CONSTRUCTION:

Furcation point is protected by a plastic tube and covered with heatshrink sleeve (structure diagram – see attachment). Dimensions depend on a furcation construction. Details below:

Furcation point maximum outer diameter [mm] *	Ø 12	Ø 15	Ø 18	Ø 22	Ø 24
Furcation point length +/-10mm	50	55	55	55	65
Number of fibers in 0.9 mm tubes	1-12	12-24			
Number of fibers in 1.8 mm fanouts	1-6	7-16	17-24		
Number of fibers in 2.8 mm fanouts	1-4	5-8	9-12	13-20	20-24
Connector type	SC/SCA/E2/E2A/LC/LCA/FC/FCA/ST				

\* If fiber quantity in cable is greater than fanouts quantity, then declared outer diameter of furcation may be greater

Possibility of installing a gland on one or both sides of pre-connectorized multipatchcord. Size is matched to a tube diameter (details in attachment). Threads PG 13,5 and PG 16 are compatible with FIBRAIN patch panels.

Output legs are marked with number tags. In case there are two legs per side – with boot colour or a black band.

Types of output legs protection (details in attachment):

- Corrugated tube
- Foil sleeve
- Foil sleeve with a loop for pulling through
- Elastic protection sleeve with a loop for pulling through

### WRAPPING AND PACKING:

Pre-connectorized multipatchcords are available as a coil or wrapped on a cable drum, then secured with stretch film and/or packed in plastic bags (depending on the dimensions of a final product and the wrapping). The type of drum is selected to match the length and size of a patchcord.

- Coil – max 200 m
- Drum:
  - min 100 m for cables with diameter up to 3,5 mm
  - min 200 m for cables with diameter greater than 3,5 mm

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## Connectivity solutions – multipatchcords

### ORDERING INFORMATION:

**TCF-04SA10401-04SA10401-09A04-025-12-110**

FIBRAIN PRECONNECTORIZED CABLE EXO-G0 LSOH 25M 4\*G.652D 04SCAPC/04SCAPC EASY LINK 1

<b>TCF</b>	<b>Pre-connectorized multi-fiber cables TEF</b>		
<b>04SA</b>	<b>Inner side connectors quantity and type</b>		
	SA SC APC	E2 E2000 PC	00000 - no furcation
	SC SC PC	FA FC APC	
	LA LC APC	FC FC PC	
	LC LC PC	ST ST PC	
	EA E2000 APC	XX No connectors	
<b>1 040 1</b>	<b>First digit – Inner side furcation option*</b>	<b>Three following digits – inner side max output length in cm*</b>	<b>Last digit – inner side fanout diameter</b>
	0 Equal length of outputs	Min: 30 cm, max: 200 cm.	0 Tube 900mm
	1 Single cascade	<i>Cascade furcation length = the longest leg length</i>	1 Fanout 1.8mm
	2 Double cascade		2 Fanout 2.8mm
	4 Quadruple cascade		
	<b>No digits – when no furcation</b>		
<b>04SA</b>	<b>Outer side connectors quantity and type - see above</b>		
<b>1 040 1</b>	<b>Outer side furcation option, output length and fanout diameter – see above</b>		
<b>09 A 04</b>	<b>Cable type</b>	<b>Fiber type</b>	<b>Quantity of fibers in a cable</b>
	See attachement	A G652D B G655 C G656 D G657A1 E G657A2	F G657B3 G G657B3+ H OM1 I OM2 K OM3 L OM4
<b>025</b>	<b>Total length in meters</b>		
<b>12</b>	<b>First digit – inner side fanouts protection type, Second digit - outer side:</b>		
	0 When no furcation on one side		
	1 Corrugated tube		
	2 Foil sleeve		
	3 Foil sleeve with a loop for pulling through		
	4 Elastic protection sleeve with a loop for pulling through		
<b>1 10</b>	<b>First digit - wrapping</b>	<b>Two following digits – glands</b>	
	1 Coil	No digit	No glands on both sides
	2 Cable drum	0	No gland on one side
		1	Gland
		2	Threaded flex cable protection
		<i>(e.g.: 101 –coil, gland on the outer side;</i>	
		<i>212 – drum, gland on the inner side, threaded flex cable protection on the outer side)</i>	

\* details in attachment

### ATTACHMENTS:

- Multipatchcords – additional information.

#### 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.