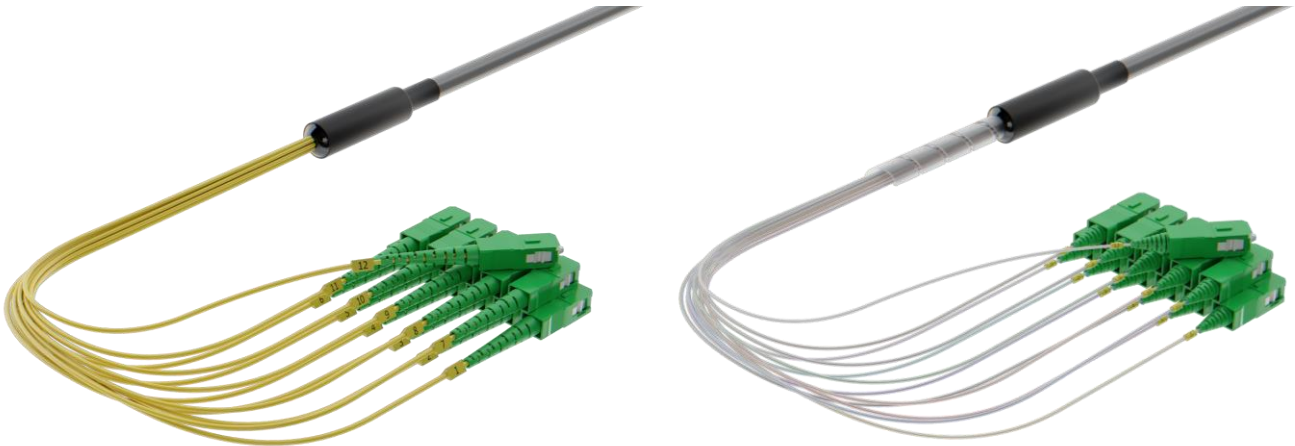


Type:	TEF multipatchcords	REV: 1.0
Ref:	TEF-xx, see ording information	
Date:	31.07.2019	KGB
Modification:		

Connectivity solutions – multipatchcords

TEF



TEF SafeBranch 1 pre-connectorized multi-fiber cables are specifically designed to be used in various indoor and outdoor FTTX applications. Thanks to the construction of furcation point, based on epoxy filler, the product provides extra protection, thus withstands outdoor conditions without attenuation increase

Pre-connectorized multipatchcords with 1.8mm and 2.8mm fanouts have premium parameters in tension tests (fanout in regard to a furcation point) and a versions with 900 µm tubes provides routing fibers in already dense assembled cabinets/racks. A spiral wrap at the output of furcation point prevents 900 µm tubes from kinking. What is more, cable ties can be used for installation of these cables. Product is available with SM and MM fibers and with various connector types.

APPLICATIONS

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

FEATURES

Furcation point construction based on epoxy filler provides extra protection,
Stable attenuation in variable temperature conditions,
Wide range of fiber optic connectors,
High furcation point crush resistance,
A spiral wrap prevents 0.9 mm tube from kinking,
High quality.

TECHNICAL SPECIFICATIONS:

Mechanical, environmental and optical parameters:

Max. Tensile load (tube to furcation point)	IEC 61753-2-1	7N (0.9mm) /150N (1.8-2.8mm)
Crush performance (furcation point)	EN 187101, IEC 60794-1-2-E3, no attenuation increase	1000 N
Installation temperature range *	EN 187101, IEC 60794-1-2-F1, no attenuation increase	-10... +50 [°C]
Operation *		-25... +70 [°C]
Transport and storage *		-25... +70 [°C]
Max connector Insertion Loss	IEC 61300-3-4	≤ 0.3dB
Max connector Return Loss	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

Connectivity solutions – multipatchcords

CONSTRUCTION:

Furcation point is protected by a plastic tube with epoxy filler, and covered with heatshrink tube (structure diagram – see attachment no.1). Dimensions depend on a furcation construction. Details below:

Furcation point maximum outer diameter [mm]*	Ø 12	Ø 15	Ø 18	Ø 22	Ø 24	Ø 27
Furcation point length +/-10mm	50	55	55	55	65	65
Number of fibers in 0.9 mm tubes	1-12	12-24	25-48	49-72		73-144
Number of fibers in 1.8 mm fanouts	1-6	7-16	17-24	25-36	37-42	43-48 **
Number of fibers in 2.8 mm fanouts	1-4	5-8	9-12	13-20	20-24	25-32 **
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

** Ordering multipatchcords with greater fanouts quantity possible only after contacting sales department

Possibility of installing a gland or a threaded flex cable protection 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. Fibers in 900 µm tubes are additionally protected with a spiral wrap from the output of furcation point.

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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ORDERING INFORMATION:

TEF-96SC22000-96SA22000-16A96-019-12-110

FIBRAIN PRECONNECTORIZED CABLE BDC MSA PE 19M 96J G.652D 96SCPC/96SCAPC SAFEBRANCH 1

TEF	Pre-connectorized multi-fiber cables TEF		
96SC	Inner side connectors quantity and type		
	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	
2 200 0	First digit – Inner side furcation option	Three following digits – inner side output length in cm	Last digit – inner side fanout diameter
	0 Equal length of outputs	Min: 30 cm, max: 200 cm;	0 Tube 0.9 mm
	1 Single cascade	<i>Cascade furcation length = the longest leg length</i>	1 Fanout 1.8 mm
	2 Double cascade		2 Fanout 2.8 mm
	4 Quadruple cascade		3 Fanout harsh 3.0 mm **
	No digits – when no furcation		
96SA	Outer side connectors quantity and type - see above		
2 200 0	Outer side furcation option, output length and fanout diameter – see above		
16 A 96	Cable type	Fiber type	Quantity of fibers in a cable
	See attachment	A G652D F G657B3 B G655 G G657B3+ C G656 H OM1 D G657A1 I OM2 E G657A2 K OM3 L OM4	
019	Total length in meters		
12	First digit – inner side fanouts protection type, Second digit - outer side:		
	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		
1 10	First digit - wrapping	Two following digits – glands	
	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; 212 – drum, gland on the inner side, threaded flex cable protection on the outer side)</i>	

* details in attachment

** Fanout 1.8 mm reinforced with a 3.0 mm metal spring tube (2000 N), available connectors: SC APC/PC, LC APC/PC

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.