

Type:	Cross-connect drop patchcords, PAx-xxx	REV: 6.0
Ref:	PAx-, see ordering information	
Date:	01.12.2015	At
Modification:	16.04.2019	KGB

Connecting elements – fiber optic cabling

Cross-connect drop cable pigtails and patchcords



Drop cable patchcords and pigtails are specifically designed to be used in FTTH networks, between a customer outlet and an ONT equipment. Fibrain patchcords are strengthened, thus they are resistant to mechanical damages, contrary to ordinary patchcords. Therefore, each cable is constructed from flame-retardant materials, which do not emit any poisonous substances and toxic smoke (LSOH). Depending on a number of terminated fibers and a cable, the connector is clamped directly on the cable's sheath or performed as a short fanout. The following series are distinguished: PA0 – connector clamped directly on the cable's sheath, PA1 to PA3 – fanouts with various structure and diameter adapted to the customer's requirements (from 0.9 mm to 2.8 mm), PA4 – with armored fanouts (fanout 1.8 mm reinforced with 3.0 mm outer diameter metal spiral tube). There are different constructions, fibers, and fiber optic connectors available. Accurate and precise manufacturing process, detailed quality control process, interferometric measurements as well as the control of IL and RL parameters make our patchcords and pigtails reliable components of fiber optic networks.

APPLICATIONS

FTTH networks
Last mile connections

FEATURES&BENEFITS

In accordance with IEC, TIA/EIA
High quality and repeatability of transmission parameters
High quality plastic connectors, corrosion and high temperatures resistant, UL 94-V0 material or other metal resistant to corrosion
300-1000 N crush resistance (depending on a cable type)
2000 N crush resistance for PA4
Wide range of connectors and optical fibers.
Safe and proper to be used in houses and office buildings between a customer outlet and ONT

TECHNICAL SPECIFICATION:

Cable	VC-D20, VC-D20E, VC-D30, VC-D30R, VC-D30RP, VC-D30E, VC-D40, VC-D40R, VC-D40RP, VC-D40E, VC-DCY, AERO-DR03
Fiber	G.652D, G.657A1, G.657A2, G.657B3, G.657B3+
Fiber optic connector	SC/SCA/LC/LCA/FC/FCA/E2000/E2000 APC
IL_{MAX} (61300-3-4)	≤ 0.20 dB
IL_{AVG} (61300-3-4)	≤ 0.15 dB
RL (61300-3-6)	≥ 55 dB @ PC ≥ 65 dB @ APC
Crush resistance (61300-2-10)	2000 N*

* concerns only fanouts in metal spring tube PA4

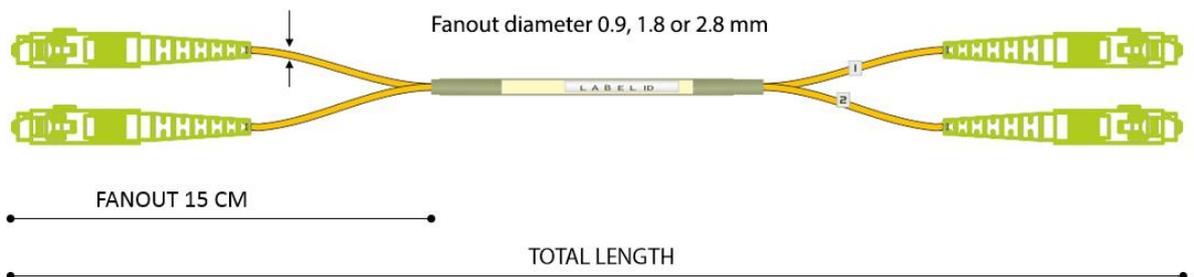
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CONSTRUCTION

PA0 – for cables terminated with a single fiber optic connector: *VC-D20, VC-D30, VC-D30R, VC-D30RP, VC-D40, VC-D40R, VC-D40RP* (for cables with diameter >3.0 mm only SC PC and SC APC connectors available).



PA1, PA2, PA3 - for cables terminated with two or four fiber optic connectors (for VC-DCY and AERO-DR03 also with a single connector): *VC-D20, VC-D40, VC-40R, VC-D40RP 2F, VC-DCY 1-4F, VC D20E 2-4F, VC-D30E 2-4F, VC-D40E 2-4F, AERO-DR03 1-2F*



PA4 – for cables terminated with two or four fiber optic connectors (for VC-DCY and AERO-DR03 also with a single connector), metal spring tube 3.0 mm made of stainless steel covers and protects fanouts at their whole length from the furcation point to the connector, providing 2000 N crush resistance. Cables: *VC-D20, VC-D40, VC-40R, VC-D40RP 2F, VC-DCY 2-4F, VC D20E 2-4F, VC-D30E 2-4F, VC-D40E 2-4F, AERO-DR03 1-2F*



Standard lengths :

Pigtail / patchcord length [m]	Standardization step [m]
0.5	-
1-20	1
> 20	5

Tolerancja długości:

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

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ORDERING INFORMATION:

TYPE*	Connectors qnt A side	Connector A	Connectors qnt B side	Connector B	Length [m]	Cable type	Fiber type	Fiber qnt in a cable
PA0	01	SC	01	SC	001.0	01 VC-D20	A G.652D	1 - 1F
PA1	02	SCA	02	SCA		02 VC-D30	D G.657A1	2 - 2F
PA2	04	LC	04	LC		03 VC-D30R (Resibend)	E G.657A2	4 -4F
PA3		LCA		LCA		04 VC-D30RP (Resibend Plus)	F G.657B3	
PA4		FC**		FC		05 VC-D40	G G.657B3+	
		FCA**		FCA		06 VC-DCY		
		E2**		E2		08 VC-D30E		
		E2A**		E2A		09 VC-D40E		
						10 VC-D40R		
						11 VC-D40RP		
						12 VC-D20E		
						13 AERO-DR03***		

* **PA0** – drop patchcord without fanout, connectors terminated directly on a cable (for cable with diameter 3.0 mm, >3.0 mm only with SC PC and SC APC connectors)

PA1 – drop patchcord with 0.9 mm fanout

PA2 – drop patchcord with 1.8 mm fanout

PA3 – drop patchcord with 2.8 mm fanout

PA4 – drop patchcord with metal spring tube 3.0 mm on fanouts 1.8 mm

** unavailable in PA4 version

*** unavailable in PA0 version

Example

PA0-01SCA-01SCA-001.0-03F-1 Fibrain VC-D30 Resibend drop patchcord cable with single LSOH 1m 1J 09/125 G.657B3, SC APC/ SC APC

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.