

Product information – OpDAT VIK with breakout cable (pre-assembled installation cables)



Pre-assembled installation cables (VIK) are fiber optic cables fitted with connectors on one or both sides, which are manufactured by METZ CONNECT in Blumberg to the highest quality standards in manual individual production processes. In combination with breakout cables (BO), they are suitable for indoor and outdoor use. The VIKs are often used in combination with the OpDAT patch panels (type PF, PA, fix, slide). They enable a point-to-point connection that is quick and easy to install. This considerably reduces the installation time and costs compared with an installation that uses with splicing and pigtails or cabling with individual patchcords.

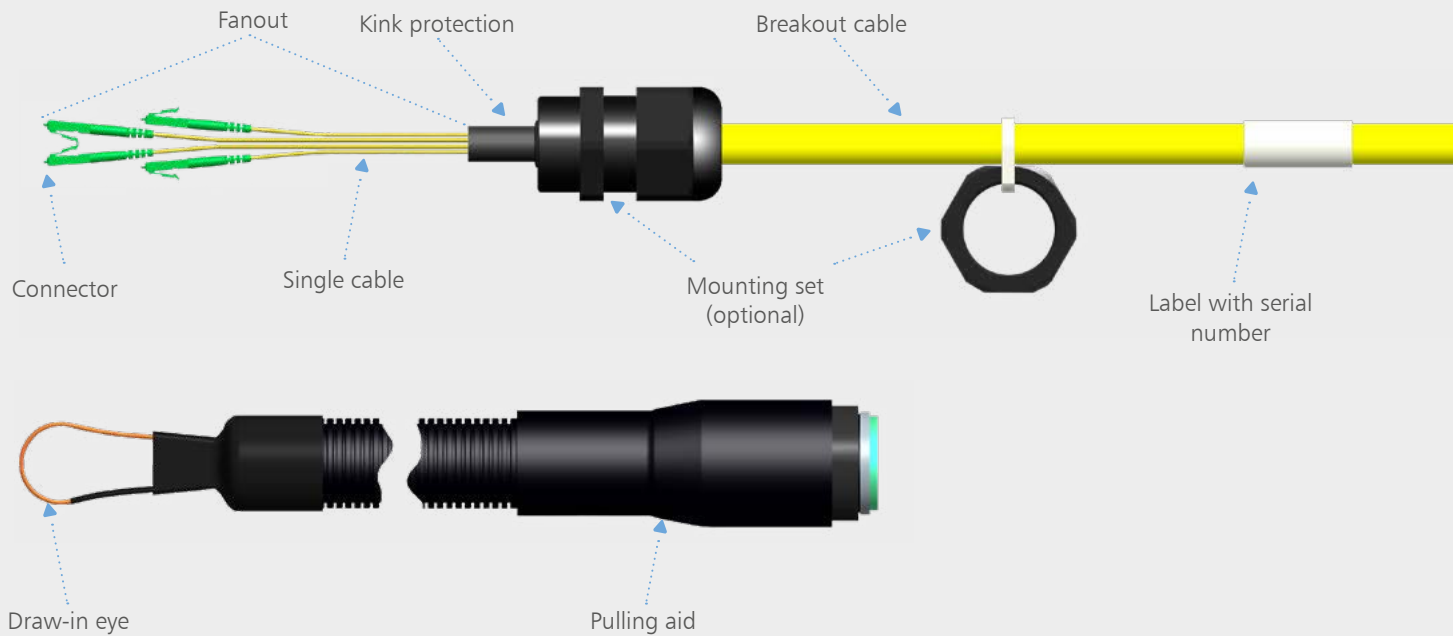
Features

- > all fiber types are resistant to bending, number of fibers from 2 to 24
- > now also available with connectors of quality class **GRADE B**. Particularly low insertion loss values are achieved by selecting and processing the connector ferrules
- > assembled with plug connector types LC, SC, ST and E2000
- > available as cable ring or on wooden reel (depending on length and cable type)
- > with or without pulling aid
- > 100 % insertion loss and return loss test, measurement report enclosed

Application

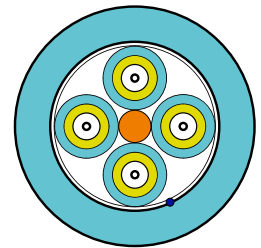
- > Buildings - backbone (floor cabling)
- > Fiber-to-the-desk
- > Cabling in data centres

Structure



Breakout cable

Breakout cables are designed for universal cabling systems. They consist of individual cables ($\varnothing 2.0$ mm) in a common cable sheath. The individual cables are arranged symmetrically around a central element so that the cable always has a round cross-section. The cables are UV-resistant, flame retardant, halogen- and metal-free, water- and moisture-resistant. They are primarily intended for indoor installation in pipes and cable ducts, but can also be used for shorter distances outdoors. All glass fibers used are resistant to bending.



Mounting set

The mounting set is available as an option and is used to securely fix the VIK, e.g. in a patch panel. When ordering the VIK with pulling aid, the screw connection is included in the scope of delivery.



Structure



Fanout

The fanout is always cascaded, i.e. the individual fanout cables are assembled with connectors so that the shortest length is approx. 50 cm.

Fanout protection variants

Bubble wrap

- > is always provided as fanout protection if no pulling aid has been ordered. All fanout cables are the same length (approx. 0.8 m)
- > provides simple mechanical protection during transport and installation
- > It is not suitable for pulling into cable ducts or cable shafts!

Pulling aid

- > is used for pulling into cable ducts or cable shafts. It is the most mechanically resilient fanout protection: treadable, available with protection class IP50, and easy to dismantle

TECHNICAL DATA

SPECIFICATIONS		UP TO 4 FIBERS	UP TO 12 FIBERS	UP TO 24 FIBERS
Cable type		Color: OS2 = yellow, OM3= aqua, OM4= violet, OM5= lime green		
Cable structure (number of fibers)		4	12	24
Outer diameter		7.5 mm	12.5 mm	14.5 mm
Cable weight		60 kg/km	160 kg/km	210 kg/km
min. bending radius installation		75 mm	150 mm	175 mm
min. bending radius operation		130 mm	250 mm	280 mm
Fire behaviour		Flame retardant in accordance with IEC 60332-1 Halogen free in accordance with IEC 60754-1 Smoke density in accordance with IEC 61034-2		
Type of attachment		M20	M25	M25
Hole for attachment		20.5 ± 0.2 mm	25.5 ± 0.2 mm	25.5 ± 0.2 mm
Single cable		2.0 mm, fixed core		
Fanout	Length	L_{Fmax}	680 mm 6 fibers: 620 mm 8 fibers: 680 mm 12 fibers: 800 mm	16 fibers: 920 mm 24 fibers: 1160 mm
		L_{Fmin}	500 mm	500 mm
Marking		Numbered, ① = L_{Fmax}		
Pulling aid		max. outer diameter	29.5 mm	37 mm
Delivery	Length L_G	1 to 40 m 41 to 140 m 141 to 650 m	Cable ring, packed in foils and cardboard drum Ø 600 mm, packed in cardboard drum Ø 600 mm, packed in foil on pallet	

TECHNICAL DATA

FIBER TYPES		MULTIMODE			SINGLEMODE
ISO/IEC 11801 / EN 50173		OM3	OM4	OM5	OS2
IEC		60793-2-10 A1.a.2	60793-2-10 A1.a.3	60793-2-10 A1.a.4	60793-2-50 B.1.3 and B_6a
ITU-T				G.651.1	G.657.A1 and G.652.D
Damping	850 nm	≤ 3.0 dB/km	≤ 3.0 dB/km	≤ 2.5 dB/km	-
	953 nm	-	-	≤ 1.8 dB/km	-
	1300 nm	≤ 1.0 dB/km	≤ 1.0 dB/km	≤ 0.7 dB/km	-
	1310 to 1625 nm	-	-	-	≤ 0.38 dB/km

CONNECTORS			SC	LC	E2000	ST
IEC			61754-4	61754-20	61754-15	61754-2
MM	Insertion loss (against master) ¹	max.	0.4 dB	0.4 dB	0.4 dB	0.4 dB
		typical	0.2 dB	0.2 dB	0.2 dB	0.2 dB
	Return loss	PC polishing	> 35 dB	> 35 dB	> 35 dB	> 35 dB
SM	Insertion loss (against master) ²	max.	0.3 dB	0.3 dB	0.3 dB	0.4 dB
		typical	0.15 dB	0.15 dB	0.15 dB	0.2 dB
	Insertion loss (random combination) ²	max.	0.25 dB	0.25 dB	0.25 dB	-
		typical	0.15 dB	0.15 dB	0.15 dB	-
	Return loss	UPC polishing	> 50 dB	> 50 dB	> 50 dB	> 50 dB
	APC polishing	> 65 dB	> 65 dB	> 65 dB	-	

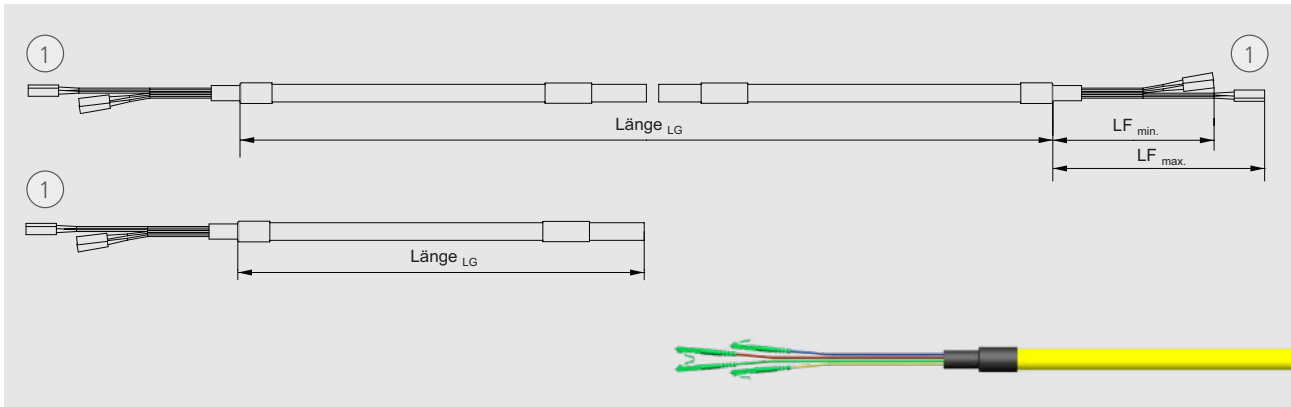
¹ IEC61300-3-4 Method C: Measured value applies to both connectors

² IEC61300-3-4 Method B: Measured value applies to the individual connector

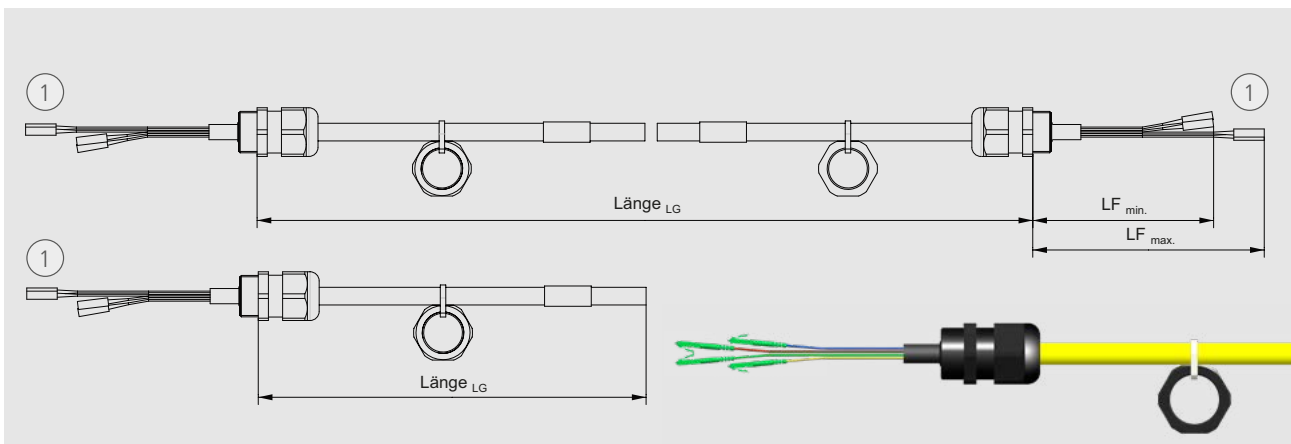
Please note that the insertion loss of the OpDAT VIK consists of the connector and the fiber loss. The latter can be the main part of the insertion loss for long lengths.

Dimensions

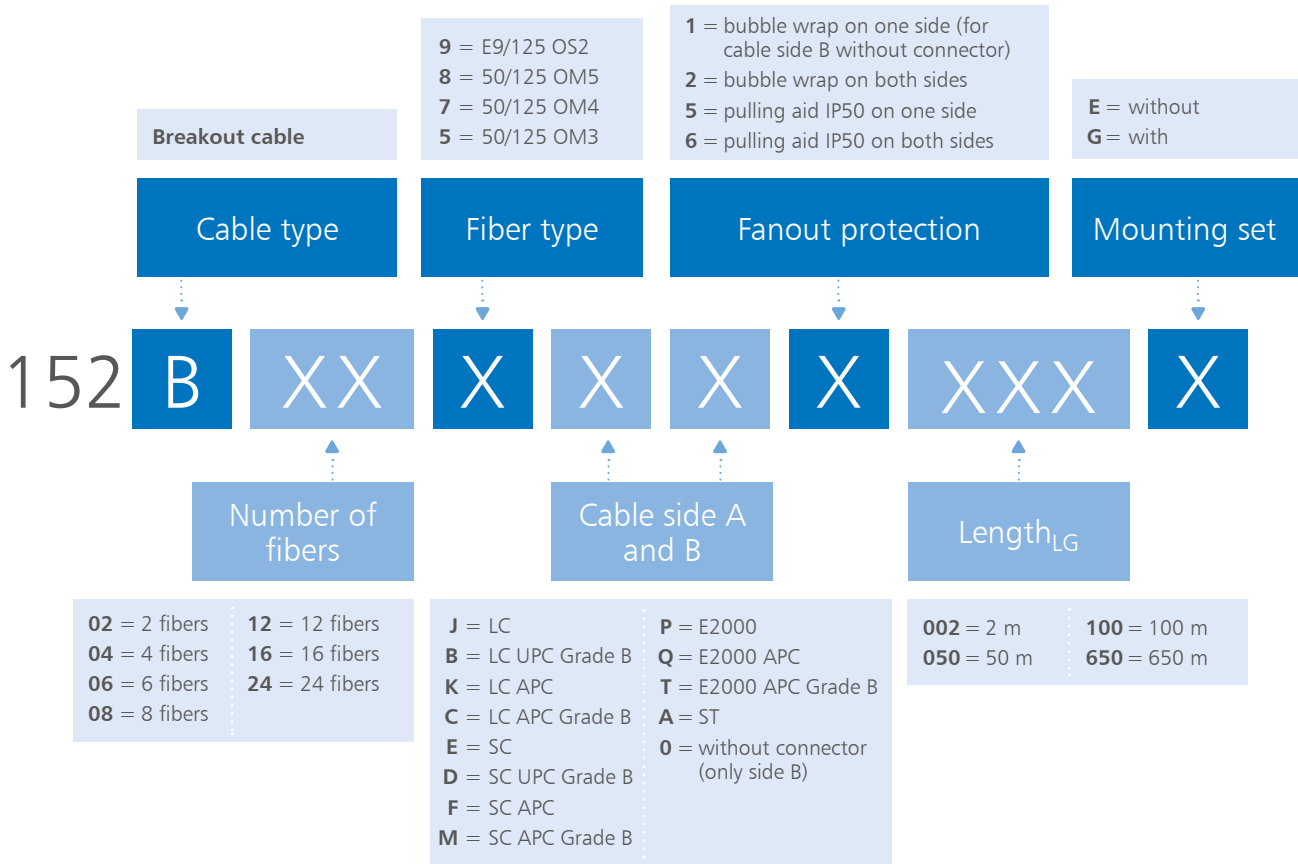
without mounting set



with mounting set



Ordering information



Please note!

The VIKs are specially manufactured according to your wishes. Exchange or returns are therefore excluded. Not all possible combinations are technically feasible. Simply use our cable configurator, which you can find on our homepage at :

www.metz-connect.com/en/configurator-copper-and-fiber-optique-cables.

Here you will find all the available variants.



METZ CONNECT GmbH is member of the following organizations and associations.



METZ CONNECT GmbH

Im Tal 2
78176 Blumberg
Germany

Phone +49 7702 533-0
Fax +49 7702 533-189

info@metz-connect.com
www.metz-connect.com



METZ CONNECT USA Inc.

200 Tornillo Way
Tinton Falls, NJ 07712
USA

Phone +1-732-389-1300
Fax +1-732-389-9066

METZ CONNECT France SAS

28, Rue Schweighaeuser
67000 Strasbourg
France

Phone +33 3886 170 73
Fax +33 3886 194 73

METZ CONNECT Zhongshan Ltd.

Ping Chang Road
Ping Pu Industrial Park
Sanxiang Town
Zhongshan City, 528463
Guangdong Province
China

Phone +86 760 86365 055
Fax +86 760 86365 050

METZ CONNECT Asia Pacific Ltd.

Suite 1803, 18/F
Chinachem Hollywood Centre,
1 Hollywood Road, Central
Hong Kong

Phone +852 26 027 300
Fax +852 27 257 522

