

Product information – OpDAT VIK with mini 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 mini breakout cables (MBO), 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) or the OpDAT junction boxes. 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 pigtailed or cabling with individual patchcords.

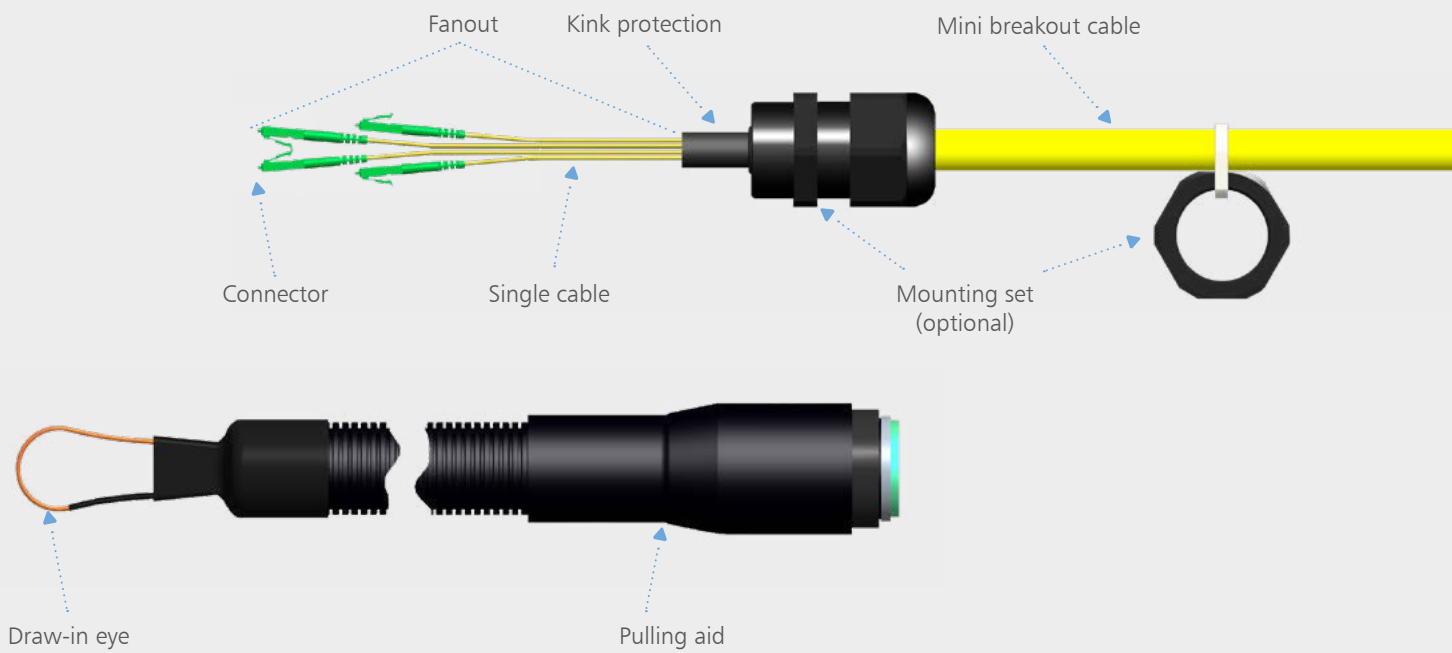
Features

- > 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 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

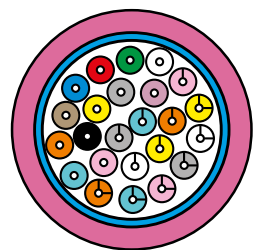
- > Buildings - backbone (floor cabling)
- > Fiber-to-the-desk
- > Cabling in data centres

Structure



Mini breakout cable

Mini breakout cables are designed for universal cabling systems. These are cables with single cores (Ø 0.9 mm) in a common cable sheath. MBOs are UV-resistant, metal-free, longitudinally water-tight, halogen-free, flame retardant and suitable for both indoor and short outdoor installation. 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 other protection has been defined
- > 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	Cable type	I-V(ZN)HH Colour: OS2 = yellow, OM3= aqua, OM4= violet, OM5= lime green		
	Cable structure (number of fibers x cores))	4 x 1	12 x 1	24 x 1
	Outer diameter	5.2 mm	6.9 mm	8.5 mm
	Cable weight	29 kg/km	53 kg/km	79 kg/km
	min. bending radius	50 mm	50 mm	60 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		
Attachment	Type of attachment	M20		
	Hole for attachment	20.5 ± 0.2 mm		
	Single cable	0.9 mm, fixed core		
Fanout	Length	L_{Fmax}	560 mm 8 fibers: 680 mm 12 fibers: 800 mm	16 fibers: 920 mm 24 fibers: 1160 mm
		L_{Fmin}	500 mm	
	Marking	Colour coded according to IEC 60304, ① = L_{Fmax} = red		
Pulling aid	max. outer diameter	29.5 mm	37 mm	37 mm
Delivery	Length L_G	2 to 100 m 101 to 400 m 401 to 1000 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

TYPES OF FIBERS USED		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	≤ 3.0 dB/km	≤ 3.0 dB/km	≤ 2. dB/km	-
	953			≤ 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 USED			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	-	

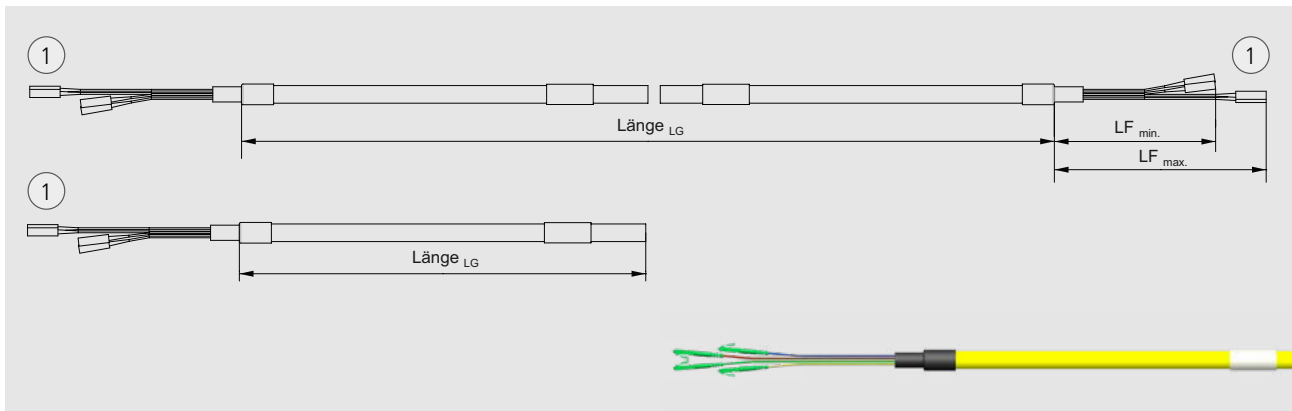
¹ IEC61300-3-4 Method C: Measured value applies to both connectors ~~without chamfer damping~~

² IEC61300-3-4 Method B: Measured value applies to the individual connector ~~without fiber loss~~

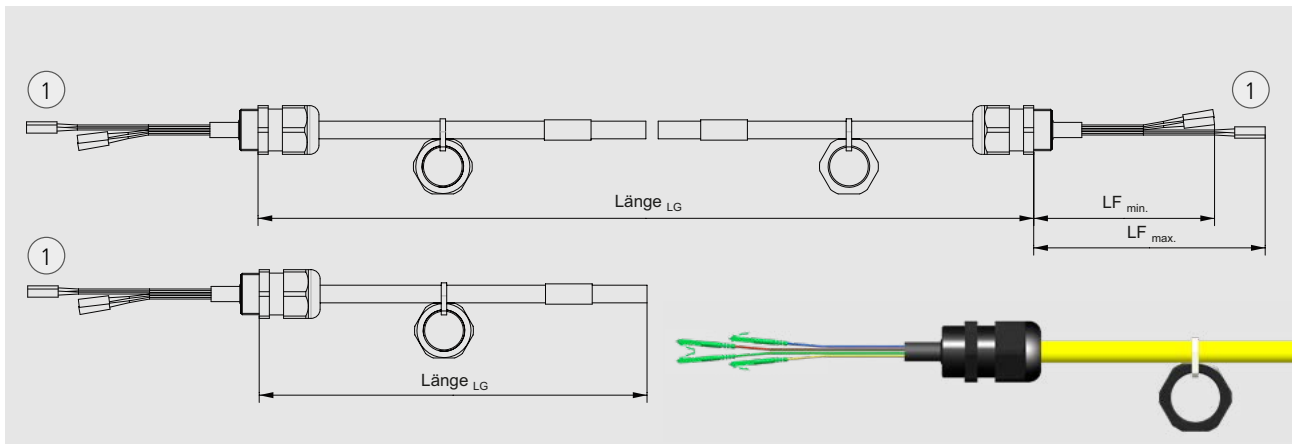
Please note that the insertion loss of the OpDAT VIK consists of the connector and the fiber loss. The latter can be the main part of the insertion loss for long lengths.

Dimensions

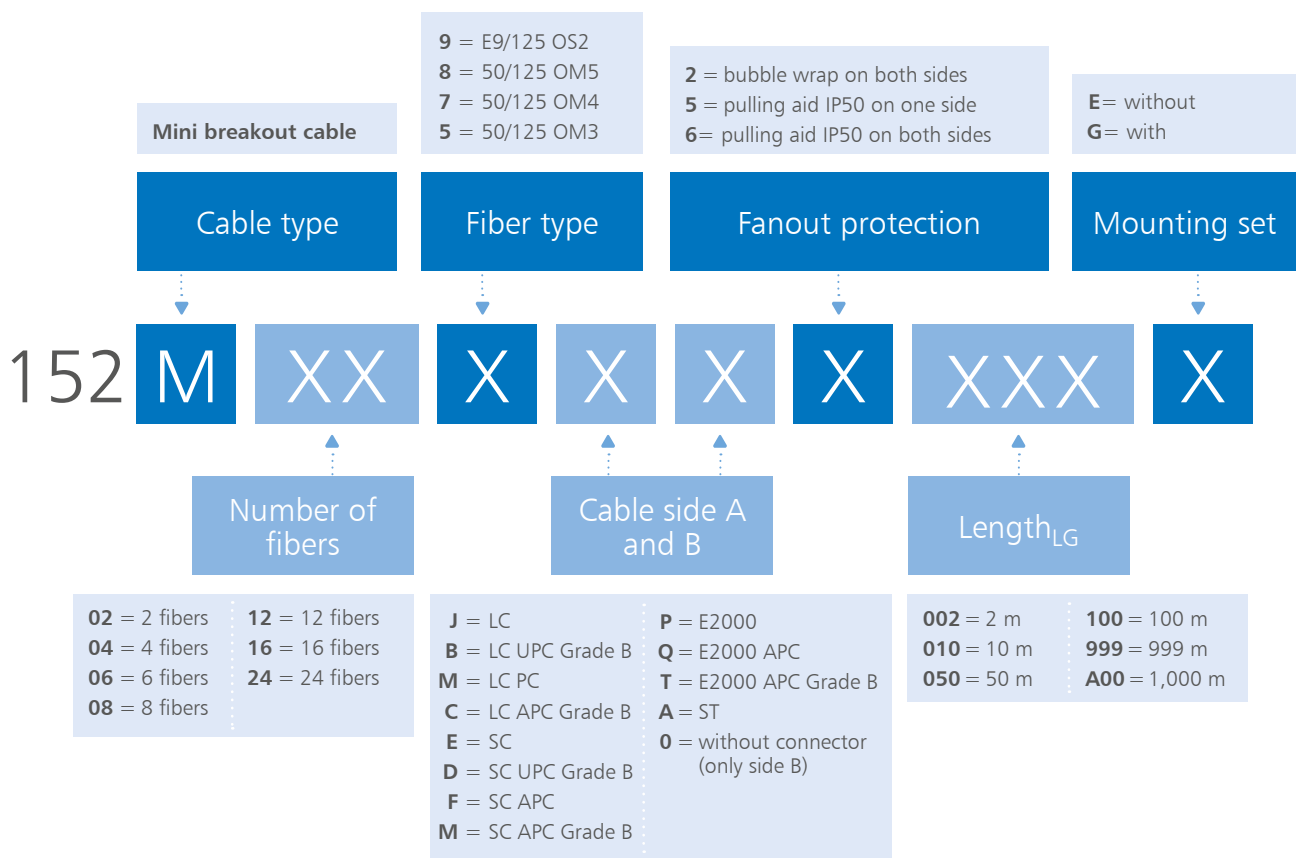
without mounting set



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.



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