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

Pre-assembled installation cables (VIK) are fiber optic cables with connectors on one or both sides, VIKs are manufactured by METZ CONNECT in Blumberg to the highest quality standards in manual individual production processes.

In combination with outdoor cables, they are suitable for mechanically demanding outdoor use. They enable a point-to-point connection of passive and active network components that is quick and easy to install.

This considerably reduces the installation time and costs compared with an installation that uses splicing and pigtails or cabling with individual patchcords.
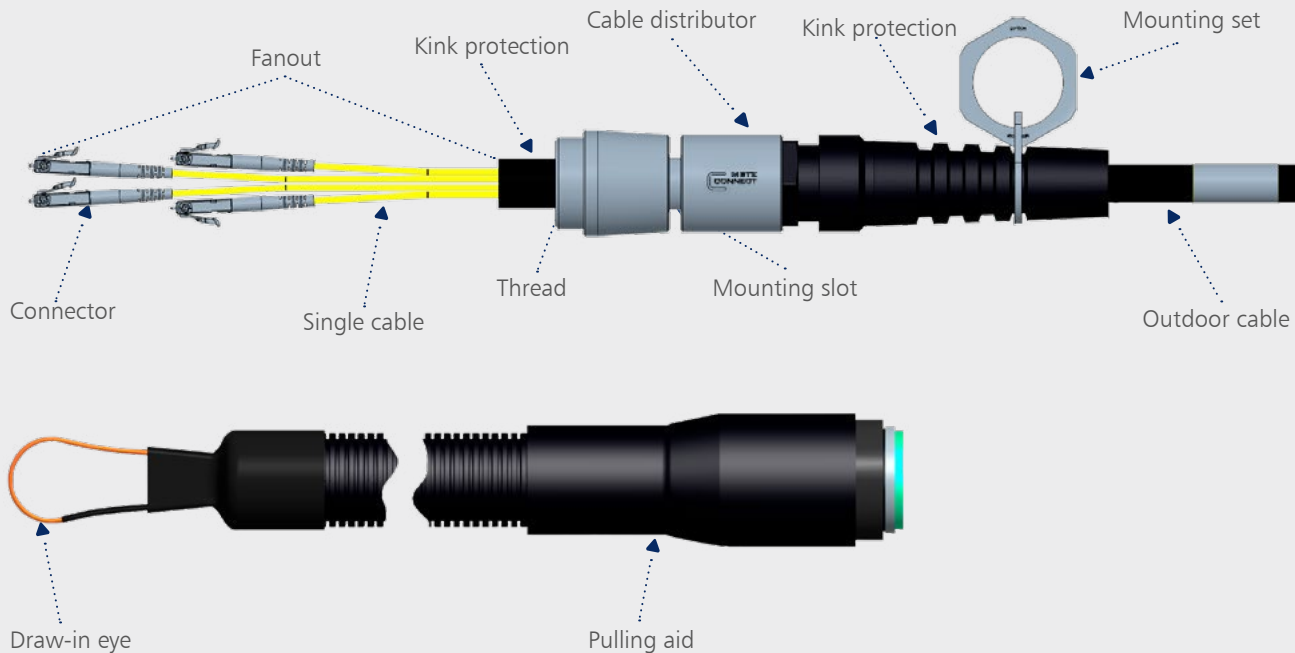
Features

> robust cable distributor made of aluminium with screwable or snap-in fastening
> outdoor cable for outdoor use with rodent protection
> all fiber types are insensitive to bending, number of fibers from 2 to 48
> assembled with connector types LC, SC, ST, E2000 and FC

> also available with connectors of quality class **GRADE B**. Particularly low insertion loss values are achieved by selecting and processing the connector ferrules
> 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

> Campus - backbone (external cabling)

> Cabling in industrial areas

P | Cabling

Structure

Fanout

Kink protection

Cable distributor

Kink protection

Mounting set

Connector

Single cable

Thread

Mounting slot

Outdoor cable

Draw-in eye

Pulling aid

Outdoor cable

Outdoor cables are designed for outdoor use. These are robust cables with a loose tube construction for direct underground and tube cabling. The cables are metal-free and rodent resistant and have a layer of glass roving elements which provide strain relief and longitudinal watertightness. The LLDPE coating guarantees high tensile strength, UV resistance and rodent resistance. All fibers included used are resistant to bending.
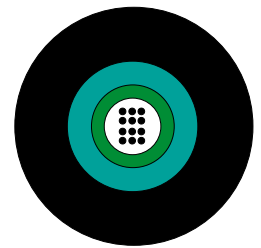
Cable distributor

The cable distributors specially designed by METZ CONNECT are handy but very robust elements which fulfil several tasks:

> protect the highly sensitive fibers both mechanically and thermally in the transition area from the loose tube cable to the individual cables
> the cable, the individual cables of the fanout and also the fanout protection are caught in or on the cable distributor and strain-relieved
> can be securely and stably fixed in the housing or distributor with the supplied locknut or by insertion into the fastening groove
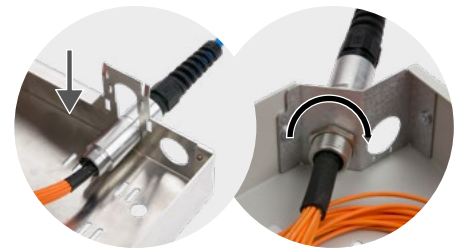
Structure

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

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 or IP67, and easy to dismantle

The bubble wrap is not suitable for pulling into cable ducts or cable shafts!

Technical Data

SPECIFICATIONS		UP TO 12 FIBERS	UP TO 24 FIBERS	UP TO 48 FIBERS
		S	M	L
Cable distributor	Size	S	M	L
	Length	65 mm	65 mm	80 mm
	max. outer diameter	25 mm	30 mm	34 mm
	Type of attachment	Slot or M20	Slot or M25	Slot or M25
	Hole for attachment	20.3 – 0.2 mm	25.3 – 0.2 mm	25.3 – 0.2 mm
Cable	Cable type			A-DQ(ZN)B2Y
	Cable structure (bundle x number of fibers)	1 x 4, 1 x 12	1 x 24	4 x 12
	Outer diameter	7 mm	7 mm	11.0 mm
	Cable weight	40 kg/km	40 kg/km	67 kg/km
	min. bending radius (installation)			190 mm
Fanout	Single cable			2.1 mm, hollow tube
	Length L_{Fmax}	4F: 680 mm 6F: 800 mm 8F: 1040 mm 12F: 1160 mm	16F: 920 mm 24F: 1040 mm	36F: 1100 mm 48F: 1280 mm
	L_{Fmin}			500 mm
	Marking			Numbered, ① = L_{Fmax}
	Material and colour of the hollow tubes			I-V(ZN)H, FRNC OS2 = yellow, OM4= purple, OM3= aqua
Pulling aid	max. outer diameter IP50 IP67	29.5 mm 31.5 mm	37 mm 39 mm	44 mm 46 mm
	max. traction IP50 IP67	500 N 500 N	500 N 500 N	500 N 500 N
Delivery	Length L_G 2 to 100 m 101 to 500 m 501 to 1000 m		Cable ring drum Ø 600 mm drum Ø 710 mm	–
	Length L_G 2 to 50 m 51 to 150 m 151 to 500 m	–	–	Cable ring drum Ø 600 mm drum Ø 710 mm

Technical Data

FIBER TYPES		MULTIMODE		SINGLEMODE
ISO/IEC 11801 / EN 50173		OM3	OM4	OS2
IEC 60793-2		-10 A1.a.2	-10 A1.a.3	-50 B1.3 and B_6a
ITU-T			G.651.1	G657.A1, G652.D
Damping	850 nm	≤ 3.0 dB/km	≤ 3.0 dB/km	-
	953 nm	-	-	-
	1300 nm	≤ 1.0 dB/km	≤ 1.0 dB/km	-
	1310 to 1625 nm	-	-	≤ 0.38 dB/km

CONNECTOR			SC	LC	E2000	ST	FC
IEC			61754-4	61754-20	61754-15	61754-2	61754-13
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	0.4 dB
		typical	0.15 dB	0.15 dB	0.15 dB	0.2 dB	0.2 dB
	GRADE B 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	> 50 dB
		APC polishing	> 65 dB	> 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

Cable distributor size S – up to 12 fibers
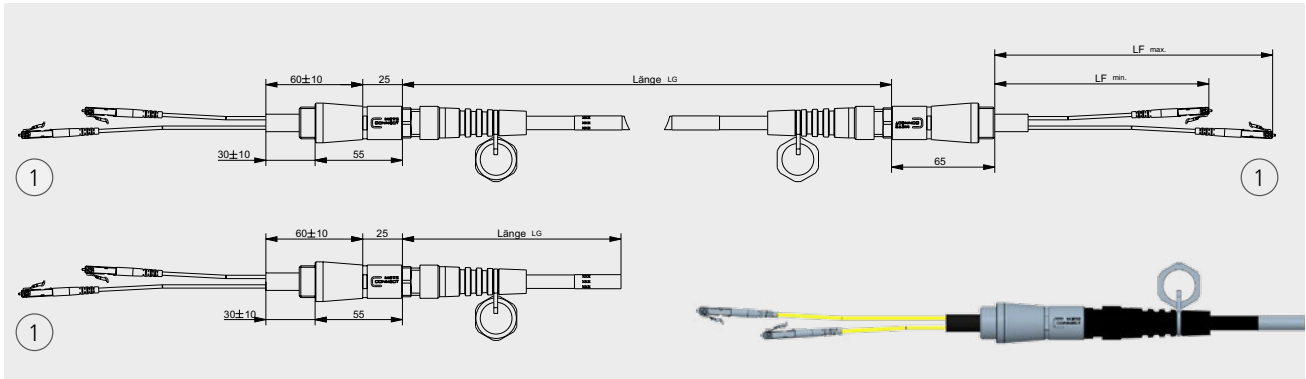
Cable distributor size M – up to 24 fibers

Cable distributor size L – up to 48 fibers

Ordering information
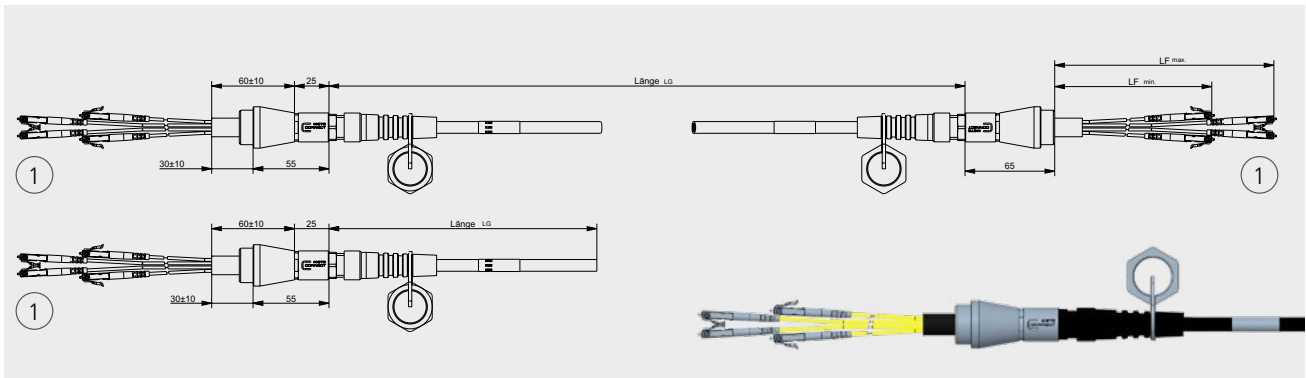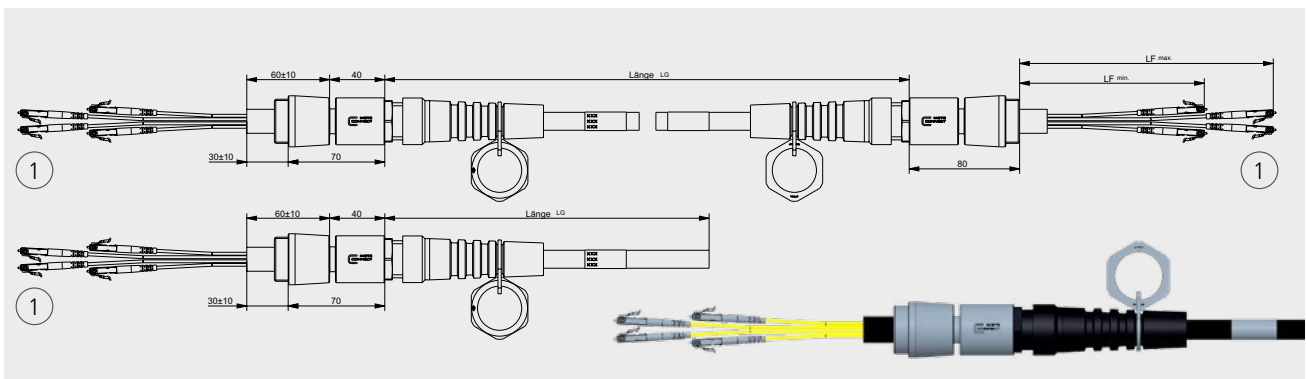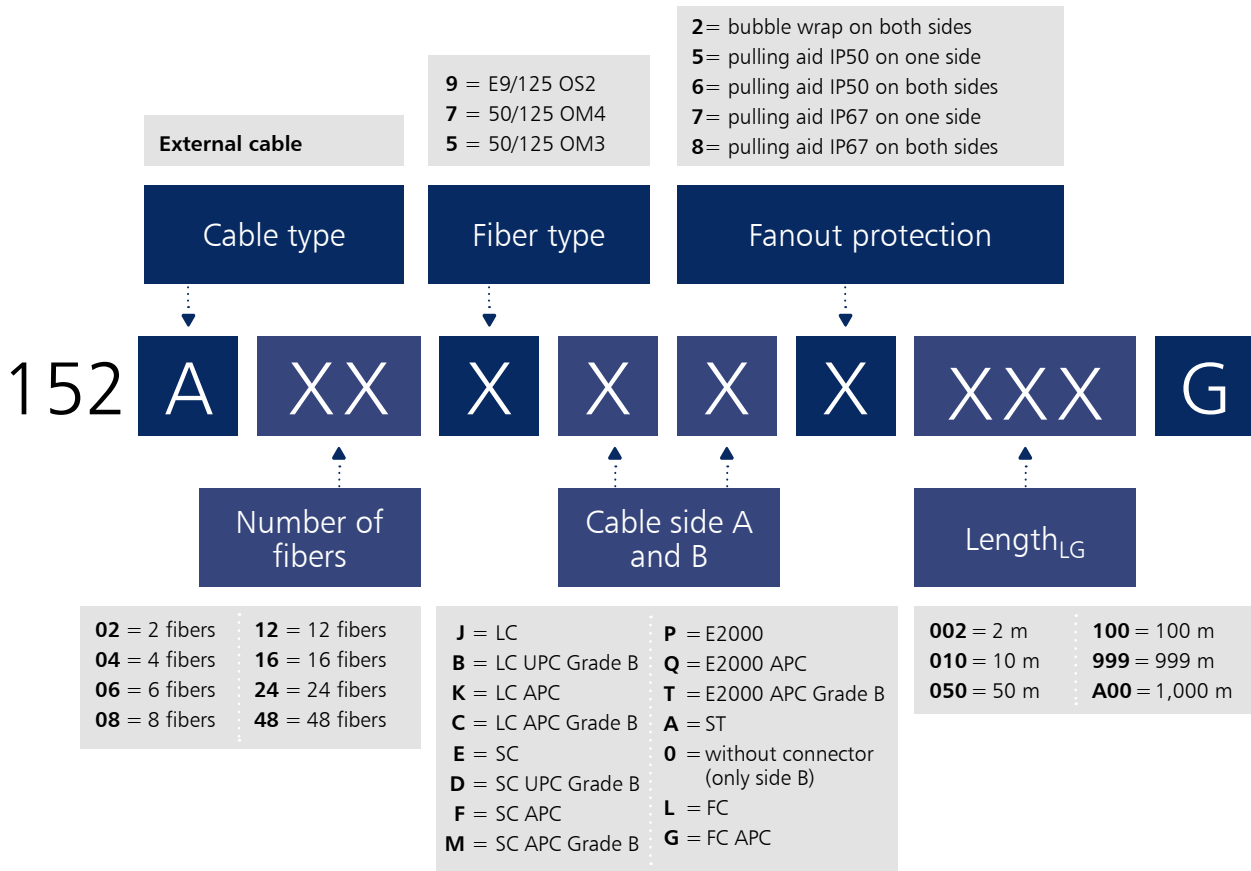
				2 = bubble wrap on both sides
				5 = pulling aid IP50 on one side
	9 = E9/125 OS2			6 = pulling aid IP50 on both sides
	7 = 50/125 OM4			7 = pulling aid IP67 on one side
External cable	5 = 50/125 OM3			8 = pulling aid IP67 on both sides

Cable type	Fiber type	Fanout protection

$$152 \quad A \quad XX \quad X \quad X \quad X \quad X \quad XXX \quad G$$

Number of fibers	Cable side A and B	Length$_{LG}$

02 = 2 fibers	**12** = 12 fibers
04 = 4 fibers	**16** = 16 fibers
06 = 6 fibers	**24** = 24 fibers
08 = 8 fibers	**48** = 48 fibers

J = LC	**P** = E2000
B = LC UPC Grade B	**Q** = E2000 APC
K = LC APC	**T** = E2000 APC Grade B
C = LC APC Grade B	**A** = ST
E = SC	**0** = without connector (only side B)
D = SC UPC Grade B	**L** = FC
F = SC APC	**G** = FC APC
M = SC APC Grade B	

002 = 2 m	**100** = 100 m
010 = 10 m	**999** = 999 m
050 = 50 m	**A00** = 1,000 m

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/configurator.
Here you will find all the available variants.

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We realize ideas

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QUALITÄTSMANAGEMENTSYSTEM
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