

GigaLine® ready-made – safely through “thick and thin”

Ready-to-connect units are at the heart of FLine® systems engineering. Ready-made GigaLine® cables guarantee rapid, reliable and economic installation. The quality of the link is ensured by matched system components. The installation times can now be calculated.

A permanent solution

On site installation often takes place in unfavourable conditions. Humidity, dirt and inaccessible places are common.

In order to do justice to the conditions involved, KERPEN has developed Distribution heads and installation tubes of different protection classes for fibre optical cables with filled loose tubes.

- **IP50** (dust-proof) for indoor cabling
- **IP67** (splash-proof) for rough construction site environments and for outdoor cabling

Ready-made GigaLine® ensures that these conditions do not affect the quality of the links, either during installation or afterwards.

The installation tube is flexible and has a small diameter. This means that the ready-made trunk can be easily fed into narrow, intricate shafts for secondary cabling and installation ducts.

There is a power grip connection to the distribution head. Like all other strain relief elements, it works on the cladding, not the cores. This means that the fibres remain stress-free. The design of the distribution head ensures the stability of the physical parameters and a long life.

Time is money

GigaLine® VKT stands for reliable and predictable installations. Reduced install time. Subsequent down times, for example due to the interruption of current operation of a computer system, are minimised.

This makes it possible to dispense with the splicing of cables or mounting of plugs, which often take place under adverse conditions on location. High investments in splicing devices and specially trained expert personnel can also be dispensed with.

GigaLine® VKT can also be used as cables with one end ready-made.



Fields of application

GigaLine® ready-made is the ideal choice for backbone cabling in the primary and secondary area and for collapsed backbones.

Quality means maximum safety

The assembly of plugs with high-quality ceramic ferrules is carried out in a clean environment. The end faces of the plugs are polished in an optimum way, this ensuring excellent plug transitions in reproducible quality (insertion and return losses).

A test report showing the attenuation values for each fibre is supplied with the unit. As an option, OTDR measurements can also be carried out.

VKT IP67 – GigaLine® DQ 100, 500, 625 N

Ready-made outdoor fibre optical cable, longitudinally watertight, with non-metallic rodent protection

Type: KL-A-DQ(ZNS)2Y

Aluminium distribution head with installation tube

- Protection from water and dirt
- Strain relief via distribution head
- Stress-free fibres
- Stability of transmission parameters
- Long life

Characteristics of the distribution head:

Number of Fibres	Ø of distribution head in mm (max)	Ø of installation tube in mm (max)	Strain relief N (max)
2 to 12	28	41	750
16 to 24	36	48	750
48	36	60	750

Characteristics of plug:

Single-mode standard	Insertion losses: < 0.4 dB; return losses: > 40 dB
Multimode standard, FLine® 110	Insertion losses: < 0.4 dB; return losses: > 25 dB
Multimode FLine® 300, FLine® 550	Insertion losses: < 0.4 dB; return losses: > 35 dB

Characteristics of fibre:

E9...10/125	Single-mode fibre, transmission characteristics better than OS1. Attenuation coefficient: 0.36 dB/km at 1,310 nm; 0.25 dB/km at 1,550 nm Dispersion: max. 3.5 ps/nm x km at 1,310 nm; max. 18ps/nm x km at 1,550 nm
G50/125	Multimode fibre optimised for Gigabit Ethernet, transmission characteristics better than OM1, OM2.
FLine® 110	Attenuation coefficient: 2.5 dB/km at 850 nm; 0.7 dB/km at 1,300 nm Bandwidth: min. 600 MHz x km at 850 nm; min. 1,200 MHz x km at 1,300 nm Segment length with Gigabit Ethernet: min. 750 m at 850 nm; min. 2,000 m at 1,300 nm Segment length with 10 Gigabit Ethernet: min. 110 m at 850 nm; min. 900 m at 1,300 nm
G50/125 OM3	Multimode fibre optimised for 10 Gigabit Ethernet, transmission characteristics better than OM3.
FLine® 300	Attenuation coefficient: 2.5 dB/km at 850 nm; 0.7 dB/km at 1,300 nm Laser bandwidth: min. 2,000 MHz x km at 850 nm Bandwidth: min. 1,500 MHz x km at 850 nm; min. 500 MHz x km at 1,300 nm Segment length with Gigabit Ethernet: min. 900 m at 850 nm; min. 550 m at 1,300 nm Segment length with 10 Gigabit Ethernet: min. 300 m at 850 nm; min. 300 m at 1,300 nm
G50/125 OM3 "e"	Multimode fibre optimised for 10 Gigabit Ethernet, transmission characteristics better than OM3.
FLine® 550	Attenuation coefficient: 2.5 dB/km at 850 nm; 0.7 dB/km at 1,300 nm Laser bandwidth: min. 4,700 MHz x km at 850 nm Bandwidth: min. 3,500 MHz x km at 850 nm; min. 500 MHz x km at 1,300 nm Segment length with Gigabit Ethernet: min. 1,000 m at 850 nm; min. 550 m at 1,300 nm Segment length with 10 Gigabit Ethernet: min. 550 m at 850 nm; min. 300 m at 1,300 nm
G62,5/125	Multimode fibre optimised for 10 Gigabit Ethernet, transmission characteristics better than OM1. Attenuation coefficient: 3.0 dB/km at 850 nm; 0.7 dB/km at 1,300 nm Bandwidth: min. 250 MHz x km at 850 nm; min. 800 MHz x km at 1,300 nm Segment length with Gigabit Ethernet: min. 500 m at 850 nm; min. 1,000 m at 1,300 nm Segment length with 10 Gigabit Ethernet: min. 65 m at 850 nm; min. 450 m at 1,300 nm



Single-mode standard: insertion losses < 0.4 dB; return losses: > 40 dB

No. of Fibres	SC	ST	E2,000	E2,000HRL	FC-PC	FC-PC HRL
4	9VA00XXX	9VA09XXX	9VA0IXXX	9VA0SXXX	9VA33XXX	9VA3CXXX
6	9VA01XXX	9VA0AXXX	9VA0JXXX	9VA0TXXX	9VA34XXX	9VA3DXXX
8	9VA02XXX	9VA0BXXX	9VA0KXXX	9VA0UXXX	9VA35XXX	9VA3EXXX
12	9VA03XXX	9VA0CXXX	9VA0LXXX	9VA0VXXX	9VA36XXX	9VA3FXXX
16	9VA04XXX	9VA0DXXX	9VA0MXXX	9VA0WXXX	9VA37XXX	9VA3GXXX
24	9VA06XXX	9VA0FXXX	9VA0PXXX	9VA0YXXX	9VA39XXX	9VA3IXXX
48	9VA08XXX	9VA0HXXX	9VA0RXXX	9VA10XXX	9VA3BXXX	9VA3KXXX

FLine® 110, Multimode G50/125 OM2: insertion losses: < 0.4 dB; return losses: > 25 dB

No. of Fibres	SC	ST	E2,000	MT-RJ	FC-PC	LC
4	9VA11XXX	9VA1AXXX	9VA1JXXX	9VA2KXXX	9VA3LXXX	9VA4WXXX
6	9VA12XXX	9VA1BXXX	9VA1KXXX	9VA2LXXX	9VA3MXXX	9VA4XXX
8	9VA13XXX	9VA1CXXX	9VA1LXXX	9VA2MXXX	9VA3NXXX	9VA4YXXX
12	9VA14XXX	9VA1DXXX	9VA1MXXX	9VA2NXXX	9VA3PXXX	9VA4ZXXX
16	9VA15XXX	9VA1EXXX	9VA1NXXX	9VA2PXXX	9VA3QXXX	9VA50XXX
24	9VA17XXX	9VA1GXXX	9VA1QXXX	9VA2RXXX	9VA3SXXX	9VA52XXX
48	9VA19XXX	9VA1IXXX	9VA1SXXX	9VA2TXXX	9VA3UXXX	9VA54XXX

FLine® 300, Multimode G50/125 OM3: insertion losses: < 0.2 dB; return losses: > 35 dB

No. of Fibres	SC	ST	E2,000	MT-RJ	FC-PC	LC
4	9VA5XXXX	-	-	-	-	9VA55XXX
6	9VA5YXXX	-	-	-	-	9VA56XXX
8	9VA5ZXXX	-	-	-	-	9VA57XXX
12	9VA60XXX	-	-	-	-	9VA58XXX
16	9VA61XXX	-	-	-	-	9VA59XXX
24	9VA63XXX	-	-	-	-	9VA5BXXX
48	9VA65XXX	-	-	-	-	9VA5DXXX

FLine® 550, Multimode G50/125 OM3 "e": insertion losses: < 0.2 dB; return losses: > 35 dB

No. of Fibres	SC	ST	E2,000	MT-RJ	FC-PC	LC
4	9VAXXXXX	-	-	-	-	9VA5EXXX
6	9VAXXXXX	-	-	-	-	9VA5FXXX
8	9VAXXXXX	-	-	-	-	9VA5GXXX
12	9VAXXXXX	-	-	-	-	9VA5HXXX
16	9VAXXXXX	-	-	-	-	9VA5IXXX
24	9VAXXXXX	-	-	-	-	9VA5KXXX
48	9VAXXXXX	-	-	-	-	9VA5MXXX

Multimode G62.5/125 OM1, standard: insertion losses: < 0.4 dB; return losses: > 25 dB

No. of Fibres	SC	ST	E2,000	MT-RJ	FC-PC	LC
4	9VA1TXXX	9VA22XXX	9VA2BXXX	9VA2UXXX	9VA3VXXX	-
6	9VA1UXXX	9VA23XXX	9VA2CXXX	9VA2VXXX	9VA3WXXX	-
8	9VA1VXXX	9VA24XXX	9VA2DXXX	9VA2WXXX	9VA3XXX	-
12	9VA1WXXX	9VA25XXX	9VA2EXXX	9VA2XXX	9VA3YXXX	-
16	9VA1XXX	9VA26XXX	9VA2FXXX	9VA2YXXX	9VA3ZXXX	-
24	9VA1ZXXX	9VA28XXX	9VA2HXXX	9VA30XXX	9VA41XXX	-
48	9VA21XXX	9VA2AXXX	9VA2JXXX	9VA32XXX	9VA43XXX	-

xxx - length in m; other designs with other connectors on request

VKT IP50 – GigaLine® DQ 100, 500, 625 U

Ready-made universal fibre optical cable, longitudinally watertight, with non-metallic rodent protection

Type: KL-U-DQ(ZNS)H

Aluminium distribution head with installation tube

- Protection from dirt
- Strain relief via distribution head
- Stress-free fibres
- Stability of transmission parameters
- Long life

Characteristics of the distribution head:

Number of Fibres	Ø of distribution head in mm (max)	Ø of installation tube in mm (max)	Strain relief N (max)
2 to 12	28	37	750
16 to 24	36	44	750
48	36	54	750

Characteristics of plug:

Single-mode standard Insertion losses: < 0.4 dB; return losses: > 40 dB
 Multimode standard,
 FLine® 110 Insertion losses: < 0.4 dB; return losses: > 25 dB
 Multimode FLine® 300,
 FLine® 550 Insertion losses: < 0.4 dB; return losses: > 35 dB

Fibre characteristics:

E9...10/125 Single-mode fibre, transmission characteristics better than OS1.
 Attenuation coefficient: 0.36 dB/km at 1,310 nm; 0.25 dB/km at 1,550 nm
 Dispersion: max. 3.5 ps/nm x km at 1,310 nm; max. 18 ps/nm x km at 1,550 nm

G50/125 Multimode fibre optimised for Gigabit Ethernet,
 transmission characteristics better than OM1, OM2.

FLine® 110 Attenuation coefficient: 2.5 dB/km at 850 nm; 0.7 dB/km at 1,300 nm
 Bandwidth: min. 600 MHz x km at 850 nm; min. 1,200 MHz x km at 1,300 nm
 Segment length with Gigabit Ethernet: min. 750 m at 850 nm; min. 2,000 m at 1,300 nm
 Segment length with 10 Gigabit Ethernet: min. 110 m at 850 nm; min. 900 m at 1,300 nm

G50/125 OM3 Multimode fibre optimised for 10 Gigabit Ethernet, transmission characteristics better than OM3.

FLine® 300 Attenuation coefficient: 2.5 dB/km at 850 nm; 0.7 dB/km at 1,300 nm
 Laser bandwidth: min. 2,000 MHz x km at 850 nm
 Bandwidth: min. 1,500 MHz x km at 850 nm; min. 500 MHz x km at 1,300 nm
 Segment length with Gigabit Ethernet: min. 900 m at 850 nm; min. 550 m at 1,300 nm
 Segment length with 10 Gigabit Ethernet: min. 300 m at 850 nm; min. 300 m at 1,300 nm

G50/125 OM3 “e” Multimode fibre optimised for 10 Gigabit Ethernet, transmission characteristics better than OM3.

FLine® 550 Attenuation coefficient: 2.5 dB/km at 850 nm; 0.7 dB/km at 1,300 nm
 Laser bandwidth: min. 4,700 MHz x km at 850 nm
 Bandwidth: min. 3,500 MHz x km at 850 nm; min. 500 MHz x km at 1,300 nm
 Segment length with Gigabit Ethernet: min. 1,000 m at 850 nm; min. 550 m at 1,300 nm
 Segment length with 10 Gigabit Ethernet: min. 550 m at 850 nm; min. 300 m at 1,300 nm

G62,5/125 Multimode fibre optimised for 10 Gigabit Ethernet, transmission characteristics better than OM1.
 Attenuation coefficient: 3.0 dB/km at 850 nm; 0.7 dB/km at 1,300 nm
 Bandwidth: min. 250 MHz x km at 850 nm; min. 800 MHz x km at 1,300 nm
 Segment length with Gigabit Ethernet: min. 500 m at 850 nm; min. 1,000 m at 1,300 nm
 Segment length with 10 Gigabit Ethernet: min. 65 m at 850 nm; min. 450 m at 1,300 nm



GigaLine® VKT IP50, equipped with plugs at both ends and installation tube

Single-mode standard: insertion losses < 0.4 dB; return losses: > 40 dB

No. of Fibres	SC	ST	E2,000	E2,000HRL	FC-PC	FC-PC HRL
4	9VUI0XXX	9VUI9XXX	9VUIIXXX	9VUISXXX	9VUL3XXX	9VULCXXX
6	9VUI1XXX	9VUIAXXX	9VUIJXXX	9VUITXXX	9VUL4XXX	9VULDXXX
8	9VUI2XXX	9VUIBXXX	9VUIKXXX	9VUIUXXX	9VUL5XXX	9VULEXXX
12	9VUI3XXX	9VUICXXX	9VUILXXX	9VUIVXXX	9VUL6XXX	9VULFXXX
16	9VUI4XXX	9VUIDXXX	9VUIMXXX	9VUIWXXX	9VUL7XXX	9VULGXXX
24	9VUI6XXX	9VUIFXXX	9VUIPXXX	9VUIYXXX	9VUL9XXX	9VULIXXX
48	9VUI8XXX	9VUIHXXX	9VUIRXXX	9VUIJ0XXX	9VULBXXX	9VULKXXX

FLine® 110, Multimode G50/125 OM2: insertion losses: < 0.4 dB; return losses: > 25 dB

No. of Fibres	SC	ST	E2,000	MT-RJ	FC-PC	LC
4	9VUJ1XXX	9VUJAXXX	9VUJJXXX	9VUKKXXX	9VULLXXX	9VUMWXXX
6	9VUJ2XXX	9VUJBXXX	9VUJKXXX	9VUKLXXX	9VULMXXX	9VUMXXX
8	9VUJ3XXX	9VUJCXXX	9VUJLXXX	9VUKMXXX	9VULNXXX	9VUMYXXX
12	9VUJ4XXX	9VUJDXXX	9VUJMXXX	9VUKNXXX	9VULPXXX	9VUMZXXX
16	9VUJ5XXX	9VUJEXXX	9VUJNXXX	9VUKPXXX	9VULQXXX	9VUN0XXX
24	9VUJ7XXX	9VUJGXXX	9VUJQXXX	9VUKRXXX	9VULSXXX	9VUN2XXX
48	9VUJ9XXX	9VUJIXXX	9VUJSXXX	9VUKTXXX	9VULUXXX	9VUN4XXX

FLine® 300, Multimode G50/125 OM3: insertion losses: < 0.2 dB; return losses: > 35 dB

No. of Fibres	SC	ST	E2,000	MT-RJ	FC-PC	LC
4	9VUNXXXX	-	-	-	-	9VUN5XXX
6	9VUNYXXX	-	-	-	-	9VUN6XXX
8	9VUNZXXX	-	-	-	-	9VUN7XXX
12	9VUP0XXX	-	-	-	-	9VUN8XXX
16	9VUP1XXX	-	-	-	-	9VUN9XXX
24	9VUP3XXX	-	-	-	-	9VUNBXXX
48	9VUP5XXX	-	-	-	-	9VUNDXXX

FLine® 550, Multimode G50/125 OM3 "e": insertion losses: < 0.2 dB; return losses: > 35 dB

No. of Fibres	SC	ST	E2,000	MT-RJ	FC-PC	LC
4	9VAXXXXX	-	-	-	-	9VUNEXXX
6	9VAXXXXX	-	-	-	-	9VUNFXXX
8	9VAXXXXX	-	-	-	-	9VUNGXXX
12	9VAXXXXX	-	-	-	-	9VUNHXXX
16	9VAXXXXX	-	-	-	-	9VUNIXXX
24	9VAXXXXX	-	-	-	-	9VUNKXXX
48	9VAXXXXX	-	-	-	-	9VUNMXXX

Multimode G62.5/125 OM1, standard: insertion losses: < 0.4 dB; return losses > 25 dB

No. of Fibres	SC	ST	E2,000	MT-RJ	FC-PC	LC
4	9VUJTXXX	9VUK2XXX	9VUKBXXX	9VUKUXXX	9VULVXXX	-
6	9VUJUXXX	9VUK3XXX	9VUKCXXX	9VUKVXXX	9VULWXXX	-
8	9VUJVXXX	9VUK4XXX	9VUKDXXX	9VUKWXXX	9VULXXX	-
12	9VUJWXXX	9VUK5XXX	9VUKEXXX	9VUKXXX	9VULYXXX	-
16	9VUJXXX	9VUK6XXX	9VUKFXXX	9VUKYXXX	9VULZXXX	-
24	9VUJZXXX	9VUK8XXX	9VUKHXXX	9VUL0XXX	9VUM1XXX	-
48	9VUK1XXX	9VUKAXXX	9VUKJXXX	9VUL2XXX	9VUM3XXX	-

xxx - length in m; other designs with other connectors on request

GigaLine® VKT mini-breakout IP50 GigaLine® M 100, 500, 625

Ready-made fibre optical mini-breakout cable.

Type: KL-J-V(ZN)H

Splice-free distribution with installation tube

- Protection from dirt
- Stability of transmission parameters
- Long life

Characteristics of installation tube:

No. of Fibres	Ø of installation tube in mm (max)	Strain relief in N (max)
2 to 12	37	350

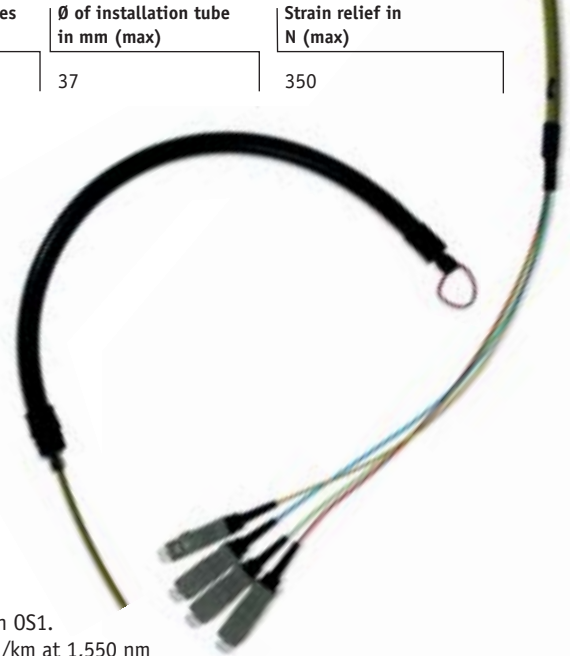
Field of application: Floor cabling

Characteristics of plug:

Single-mode standard	Insertion losses: < 0.4 dB; return losses: > 40 dB
Multimode standard, FLine® 110	Insertion losses: < 0.4 dB; return losses: > 25 dB
Multimode FLine® 300, FLine® 550	Insertion losses: < 0.4 dB; return losses: > 35 dB

Fibre characteristics:

E9...10/125	Single-mode fibre, transmission characteristics better than OS1. Attenuation coefficient: 0.36 dB/km at 1,310 nm; 0.25 dB/km at 1,550 nm Dispersion: max. 3.5 ps/nm x km at 1,310 nm; max. 18 ps/nm x km at 1,550 nm
G50/125	Multimode fibre optimised for Gigabit Ethernet, transmission characteristics better than OM1, OM2.
FLine® 110	Attenuation coefficient: 2.5 dB/km at 850 nm; 0.7 dB/km at 1,300 nm Bandwidth: min. 600 MHz x km at 850 nm; min. 1,200 MHz x km at 1,300 nm Segment length with Gigabit Ethernet: min. 750 m at 850 nm; min. 2,000 m at 1,300 nm Segment length with 10 Gigabit Ethernet: min. 110 m at 850 nm; min. 900 m at 1,300 nm
G50/125 OM3	Multimode fibre optimised for 10 Gigabit Ethernet, transmission characteristics better than OM3.
FLine® 300	Attenuation coefficient: 2.5 dB/km at 850 nm; 0.7 dB/km at 1,300 nm Laser bandwidth: min. 2,000 MHz x km at 850 nm Bandwidth: min. 1,500 MHz x km at 850 nm; min. 500 MHz x km at 1,300 nm Segment length with Gigabit Ethernet: min. 900 m at 850 nm; min. 550 m at 1,300 nm Segment length with 10 Gigabit Ethernet: min. 300 m at 850 nm; min. 300 m at 1,300 nm
G50/125 OM3 "e"	Multimode fibre optimised for 10 Gigabit Ethernet, transmission characteristics better than OM3.
FLine® 550	Attenuation coefficient: 2.5 dB/km at 850 nm; 0.7 dB/km at 1,300 nm Laser bandwidth: min. 4,700 MHz x km at 850 nm Bandwidth: min. 3,500 MHz x km at 850 nm; min. 500 MHz x km at 1,300 nm Segment length with Gigabit Ethernet: min. 1,000 m at 850 nm; min. 550 m at 1,300 nm Segment length with 10 Gigabit Ethernet: min. 550 m at 850 nm; min. 300 m at 1,300 nm
G62,5/125	Multimode fibre optimised for 10 Gigabit Ethernet, transmission characteristics better than OM1. Attenuation coefficient: 3.0 dB/km at 850 nm; 0.7 dB/km at 1,300 nm Bandwidth: min. 250 MHz x km at 850 nm; min. 800 MHz x km at 1,300 nm Segment length with Gigabit Ethernet: min. 500 m at 850 nm; min. 1,000 m at 1,300 nm Segment length with 10 Gigabit Ethernet: min. 65 m at 850 nm; min. 450 m at 1,300 nm



GigaLine® VKT (ready-made) mini-breakout IP50, equipped with plugs at both ends and installation tube

Single-mode standard: insertion losses < 0.4 dB; return losses: > 40 dB

No. of Fibres	SC	ST	E2,000	E2,000HRL	FC-PC	FC-PC HRL
2	9VM00XXX	9VM06XXX	9VM0PXXX	9VM0VXXX	9VM0CXXX	9VM0IXXX
4	9VM01XXX	9VM07XXX	9VM0QXXX	9VM0WXXX	9VM0DXXX	9VM0JXXX
6	9VM02XXX	9VM08XXX	9VM0RXXX	9VM0XXX	9VM0EXXX	9VM0KXXX
18	9VM03XXX	9VM09XXX	9VM0SXXX	9VM0YXXX	9VM0FXXX	9VM0LXXX
10	9VM04XXX	9VM0AXXX	9VM0TXXX	9VM0ZXXX	9VM0GXXX	9VM0MXXX
12	9VM05XXX	9VM0BXXX	9VM0UXXX	9VM10XXX	9VM0HXXX	9VM0NXXX

FLine® 110, Multimode G50/125 OM2: insertion losses: < 0.4 dB; return losses: > 25 dB

No. of Fibres	SC	ST	E2,000	MT-RJ	FC-PC	LC
4	9VM11XXX	9VM17XXX	9VM1DXXX	9VM1QXXX	9VM1JXXX	9VUMWXXX
6	9VM12XXX	9VM18XXX	9VM1EXXX	9VM1RXXX	9VM1KXXX	9VUMXXX
8	9VM13XXX	9VM19XXX	9VM1FXXX	9VM1SXXX	9VM1LXXX	9VUMYXXX
12	9VM14XXX	9VM1AXXX	9VM1GXXX	9VM1TXXX	9VM1MXXX	9VUMZXXX
16	9VM15XXX	9VM1BXXX	9VM1HXXX	9VM1UXXX	9VM1NXXX	9VUN0XXX
24	9VM16XXX	9VM1CXXX	9VM1IXXX	9VM1VXXX	9VM1PXXX	9VUN2XXX

FLine® 300, Multimode G50/125 OM3: insertion losses: < 0.2 dB; return losses: > 35 dB

No. of Fibres	SC	ST	E2,000	MT-RJ	FC-PC	LC
4	9VM3LXXX	-	-	-	-	9VM3SXXX
6	9VM3MXXX	-	-	-	-	9VM3TXXX
8	9VM3NXXX	-	-	-	-	9VM3UXXX
12	9VM3PXXX	-	-	-	-	9VM3VXXX
16	9VM3QXXX	-	-	-	-	9VM3WXXX
24	9VM3RXXX	-	-	-	-	9VM3XXX

FLine® 550, Multimode G50/125 OM3 "e": insertion losses: < 0.2 dB; return losses: > 35 dB

No. of Fibres	SC	ST	E2,000	MT-RJ	FC-PC	LC
4	9VM3YXXX	-	-	-	-	9VM44XXX
6	9VM3ZXXX	-	-	-	-	9VM45XXX
8	9VM40XXX	-	-	-	-	9VM46XXX
12	9VM41XXX	-	-	-	-	9VM47XXX
16	9VM42XXX	-	-	-	-	9VM48XXX
24	9VM43XXX	-	-	-	-	9VM49XXX

Multimode G62.5/125 OM1, standard: insertion losses: < 0.4 dB; return losses > 25 dB

No. of Fibres	SC	ST	E2,000	MT-RJ	FC-PC	LC
4	9VM1WXXX	9VM22XXX	9VM2EXXX	9VM2KXXX	9VM28XXX	-
6	9VM1XXX	9VM23XXX	9VM2FXXX	9VM2LXXX	9VM29XXX	-
8	9VM1YXXX	9VM24XXX	9VM2GXXX	9VM2MXXX	9VM2AXXX	-
12	9VM1ZXXX	9VM25XXX	9VM2HXXX	9VM2NXXX	9VM2BXXX	-
16	9VM20XXX	9VM26XXX	9VM2IXXX	9VM2PXXX	9VM2CXXX	-
24	9VM21XXX	9VM27XXX	9VM2JXXX	9VM2QXXX	9VM2DXXX	-

xxx - length in m; other designs with other connectors on request

GigaLine® VKT Breakout IP50 GigaLine® AT 100, 500, 625

Ready-made fibre optical breakout cable

Type: KL-J-V(ZN)H

Splice-free distribution with installation tube

- Protection from dirt.
- Stability of transmission parameters.
- Long life.

Characteristics of installation tube:

No. of Fibres	Ø of installation tube in mm (max)	Strain relief in N (max)
2 to 12	37	350

Field of application: Floor cabling

Characteristics of plug:

Single-mode standard	Insertion losses: < 0.4 dB; return losses: > 40 dB
Multimode standard, FLine® 110	Insertion losses: < 0.4 dB; return losses: > 25 dB
Multimode FLine® 300, FLine® 550	Insertion losses: < 0.4 dB; return losses: > 35 dB



Fibre characteristics:

E9...10/125	Single-mode fibre, transmission characteristics better than OS1. Attenuation coefficient: 0.36 dB/km at 1,310 nm; 0.25 dB/km at 1,550 nm Dispersion: max. 3.5 ps/nm x km at 1,310 nm; max. 18 ps/nm x km at 1,550 nm
G50/125	Multimode fibre optimised for Gigabit Ethernet, transmission characteristics better than OM1, OM2.
FLine® 110	Attenuation coefficient: 2.5 dB/km at 850 nm; 0.7 dB/km at 1,300 nm Bandwidth: min. 600 MHz x km at 850 nm; min. 1,200 MHz x km at 1,300 nm Segment length with Gigabit Ethernet: min. 750 m at 850 nm; min. 2,000 m at 1,300 nm Segment length with 10 Gigabit Ethernet: min. 110 m at 850 nm; min. 900 m at 1,300 nm
G50/125 OM3	Multimode fibre optimised for 10 Gigabit Ethernet, transmission characteristics better than OM3
FLine® 300	Attenuation coefficient: 2.5 dB/km at 850 nm; 0.7 dB/km at 1,300 nm Laser bandwidth: min. 2,000 MHz x km at 850 nm Segment length with Gigabit Ethernet: min. 900 m at 850 nm; min. 550 m at 1,300 nm Segment length with 10 Gigabit Ethernet: min. 300 m at 850 nm; min. 300 m at 1,300 nm
G50/125 OM3 "e"	Multimode fibre optimised for 10 Gigabit Ethernet, transmission characteristics better than OM3.
FLine® 550	Attenuation coefficient: 2.5 dB/km at 850 nm; 0.7 dB/km at 1,300 nm Laser bandwidth: min. 4,700 MHz x km at 850 nm Bandwidth: min. 3,500 MHz x km at 850 nm; min. 500 MHz x km at 1,300 nm Segment length with Gigabit Ethernet: min. 1,000 m at 850 nm; min. 550 m at 1,300 nm Segment length with 10 Gigabit Ethernet: min. 550 m at 850 nm; min. 300 m at 1,300 nm
G62,5/125	Multimode fibre optimised for 10 Gigabit Ethernet, transmission characteristics better than OM1. Attenuation coefficient: 3.0 dB/km at 850 nm; 0.7 dB/km at 1,300 nm Bandwidth: min. 250 MHz x km at 850 nm; min. 800 MHz x km at 1,300 nm Segment length with Gigabit Ethernet: min. 500 m at 850 nm; min. 1,000 m at 1,300 nm Segment length with 10 Gigabit Ethernet: min. 65 m at 850 nm; min. 450 m at 1,300 nm

GigaLine® VKT breakout IP50, equipped with plugs at both ends and installation tube

Single-mode standard: insertion losses < 0.4 dB; return losses: > 40 dB

No. of Fibres	SC	ST	E2,000	E2,000HRL	FC-PC	FC-PC HRL
2	9VB00XXX	9VB06XXX	9VB0PXXX	9VB0VXXX	9VB0CXXX	9VB0IXXX
4	9VB01XXX	9VB07XXX	9VB0QXXX	9VB0WXXX	9VB0DXXX	9VB0JXXX
6	9VB02XXX	9VB08XXX	9VB0RXXX	9VB0XXX	9VB0EXXX	9VB0KXXX
18	9VB03XXX	9VB09XXX	9VB0SXXX	9VB0YXXX	9VB0FXXX	9VB0LXXX
10	9VB04XXX	9VB0AXXX	9VB0TXXX	9VB0ZXXX	9VB0GXXX	9VB0MXXX
12	9VB05XXX	9VB0BXXX	9VB0UXXX	9VB10XXX	9VB0HXXX	9VB0NXXX

FLine® 110, Multimode G50/125 OM2: insertion losses: < 0.4 dB; return losses: > 25 dB

No. of Fibres	SC	ST	E2,000	MT-RJ	FC-PC	LC
4	9VB11XXX	9VB17XXX	9VB1DXXX	9VB1QXXX	9VB1JXXX	9VUBWXXX
6	9VB12XXX	9VB18XXX	9VB1EXXX	9VB1RXXX	9VB1KXXX	9VUBXXX
8	9VB13XXX	9VB19XXX	9VB1FXXX	9VB1SXXX	9VB1LXXX	9VUBYXXX
12	9VB14XXX	9VB1AXXX	9VB1GXXX	9VB1TXXX	9VB1MXXX	9VUBZXXX
16	9VB15XXX	9VB1BXXX	9VB1HXXX	9VB1UXXX	9VB1NXXX	9VUB0XXX
24	9VB16XXX	9VB1CXXX	9VB1IXXX	9VB1VXXX	9VB1PXXX	9VUB2XXX

FLine® 300, Multimode G50/125 OM3: insertion losses: < 0.2 dB; return losses: > 35 dB

No. of Fibres	SC	ST	E2,000	MT-RJ	FC-PC	LC
4	9VB3LXXX	-	-	-	-	9VB3SXXX
6	9VB3MXXX	-	-	-	-	9VB3TXXX
8	9VB3NXXX	-	-	-	-	9VB3UXXX
12	9VB3PXXX	-	-	-	-	9VB3VXXX
16	9VB3QXXX	-	-	-	-	9VB3WXXX
24	9VB3RXXX	-	-	-	-	9VB3XXX

FLine® 550, Multimode G50/125 OM3 "e": insertion losses: < 0.2 dB; return losses: > 35 dB

No. of Fibres	SC	ST	E2,000	MT-RJ	FC-PC	LC
4	9VB3YXXX	-	-	-	-	9VB44XXX
6	9VB3ZXXX	-	-	-	-	9VB45XXX
8	9VB40XXX	-	-	-	-	9VB46XXX
12	9VB41XXX	-	-	-	-	9VB47XXX
16	9VB42XXX	-	-	-	-	9VB48XXX
24	9VB43XXX	-	-	-	-	9VB49XXX

Multimode G62.5/125 OM1, standard: insertion losses: < 0.4 dB; return losses: > 25 dB

No. of Fibres	SC	ST	E2,000	MT-RJ	FC-PC	LC
4	9VM1WXXX	9VM22XXX	9VM2EXXX	9VM2KXXX	9VM28XXX	-
6	9VM1XXX	9VM23XXX	9VM2FXXX	9VM2LXXX	9VM29XXX	-
8	9VM1YXXX	9VM24XXX	9VM2GXXX	9VM2MXXX	9VM2AXXX	-
12	9VM1ZXXX	9VM25XXX	9VM2HXXX	9VM2NXXX	9VM2BXXX	-
16	9VM20XXX	9VM26XXX	9VM2IXXX	9VM2PXXX	9VM2CXXX	-
24	9VM21XXX	9VM27XXX	9VM2JXXX	9VM2QXXX	9VM2DXXX	-

xxx - length in m; other designs with other connectors on request