

GigaLine[®] U-D(ZN)BH CI Dca

Universal cable, with circuit integrity 90 min., 2500 N

1 x 24 G50/125/250 OM3



Illustration similar

Description

Fibre optic universal cable with central jelly filled loose tube, with non-metallic rodent protection and CI. Inner fire barrier. Fire protection tape made of woven glass. The cable is completely metal-free and non-conductive (dielectric).

Laying

Indoor and outdoor installation in dry conduits, on covered cable trays. For automated cable pulling with cable winches the use of tensile-force-recording equipment is obligatory.

Properties / applications

Universal cable with CI 90 min for fixed installation.

Circuit integrity test acc. to IEC 60331-11 / IEC 60331-25 (750°C, 90 min)

max. change of attenuation 2.0 dB

(VDE test report 111100-9020-0001/11291)

Resistance to fire for use in emergency circuits test

acc. to EN 50200:2015 (830 +40/ -0°C, 180 min)

max. change of attenuation

Multi Mode

max. 2.0 dB at 850 nm and 1300 nm

(VDE test reports:

5005019-9601-0001/249341-TL6-2

Date: 2018-07-20

5005019-9601-0001/257978-TL6-2

Date: 2019-12-20)

Suitable for campus/ backbone cabling and for the use in generic cabling acc. to ISO/IEC 11801 and EN 50173. Ideally suited for all applications of Classes OF 300 to OF 10000 (depending on the fiber). Building entries without additional transition points (splices) possible.

GigaLine[®] U-D(ZN)BH CI Dca

Universal cable, with circuit integrity 90 min., 2500 N

1 x 24 G50/125/250 OM3

Construction

| | |
|--------------------------|---|
| Fiber colours | IEC 60304: Fiber 1-12: Red, green, blue, yellow, white, grey, brown, violet, turquoise, black, orange, pink. Fiber 13-24: Red, green, blue, yellow, white, grey, brown, violet, turquoise, transparent, orange, pink, each with black ring marking, except transparent. |
| Tube type | Central filled loose tube |
| Core colours | green |
| Strain relief (in total) | Non metallic, glass rovings |
| Outer sheath | Halogen free flame retardant compound (LS0H) |
| Colour | Colza yellow |
| Cable marking | KERPEN DATACOM GmbH GigaLine fire secured U-D(ZN)BH \$n\$ \$Fasertyp \$ bendable 2500 N \$2xWechselstromsymbol\$ Dca s2 d2 a1 DoP: CDESK0000082 \$BA-Nr.\$ \$Trommelnr.\$ \$m-sign. \$ |

Optical characteristics

| | |
|-----------------|--|
| Category | OM3 |
| Fiber type | G50/125/250 |
| Bandwidth | @ 850 nm 1500 MHz x km @ 1300nm 500 MHz x km |
| Laser bandwidth | @ 850 nm min. 2,000 MHz x km |
| Attenuation | @ 850 nm max. 2.5 dB/km @ 1300nm max. 0.7 dB/km |

Mechanical characteristics (cable)

| | |
|---------------------------------|--------------|
| Bending radius (static) (min.) | 15x outer-Ø |
| Bending radius (dynamic) (min.) | 20x outer-Ø |
| Max. strain relief | 2500 N |
| Crush resistance (short term) | 4500 N/100mm |
| Crush resistance (long term) | 3000 N/100mm |

Thermal characteristics (cable)

| | |
|-----------------------------------|---------------------|
| Temperature (transport / storage) | -25 °C up to +70 °C |
| Temperature during installation | -5 °C up to +50 °C |
| Temperature after installation | -25 °C up to +60 °C |

Standards, certificates and approvals

| | |
|----------------------|--|
| Fibre standard | ISO/IEC 11801 OM3 ITU-T G651 IEC 60793-2 A1a.2 |
| Cabling standard | EN 50173 ISO/IEC 11801 |
| Fire class | Dca -s2,d2,a1 |
| DoP | CDESK0000082 |
| Flame retardancy | IEC 60332-1-2, IEC 60332-3-22 Cat. A |
| Halogen-free | IEC 60754-1 |
| Smoke density | IEC 61034-1 |
| Conformity | to CPR (EU/305/2011) |
| Chemical continuance | Conform to RoHS and REACH |

GigaLine[®] U-D(ZN)BH CI Dca

Universal cable, with circuit integrity 90 min., 2500 N

1 x 24 G50/125/250 OM3

| Part number | Number of fibres | Fire load (approx.) | Outer Ø approx. | Weight |
|-----------------|------------------|---------------------|-----------------|-----------|
| LKD8UA500B90000 | 1 x 24 | 1.28 MJ/m | 10.8 mm | 125 kg/km |

Forwarding to third parties only with the approval of KERPEN DATACOM GmbH
We reserve the right to make technical modifications: typographical errors and mistakes excepted.

FELTEN Wire and Cable Solutions BV reserves the right to make changes to the product described in this specification without prior notice. FELTEN does not assume any liability which may occur due to the use of the specification described herein. Drawings are not to scale unless otherwise specified and are provided for general and informational purposes only. All values represented in this specification should be used as a guide only and exact product details can be confirmed at point of enquiry.

FELTEN Wire & Cable Solutions BV

Habraken 2401
5507 TM Veldhoven
The Netherlands

www.feltenwcs.com
email: sales@feltenwcs.com
phone: +31(0)40-8200950

Number: LKD8UA500B90000
Up-dating K: 12.12.2023
Up-dating F: 04.01.2024