

GigaLine[®] U-D(ZN)BH CI Dca

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

1 x 6 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.

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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

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| Part number | Number of fibres | Fire load (approx.) | Outer Ø approx. | Weight |
|-----------------|------------------|---------------------|-----------------|-----------|
| LKD8UA500B30000 | 1 x 6 | 1.03 MJ/m | 10.3 mm | 115 kg/km |

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