

GigaLine[®] U-D(ZN)BH CI Dca

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

1 x 4 G50/125/250 OM4



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	OM4
Fiber type	G50/125/250
Bandwidth	@ 850 nm 3500 MHz x km @ 1300nm 500 MHz x km
Laser bandwidth	@ 850 nm min. 4,700 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 OM4 ITU-T G651 IEC 60793-2 A1a.3
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
LKD8UA700B20000	1 x 4	1.03 MJ/m	10.3 mm	115 kg/km

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