

GigaLine[®] U-DQ(ZN)H(SR)H CI Cca

Universal cable with resistance to fire 180 Min., 3500 N

1 x 4 G50/125/250 OM3



Illustration similar

Description

Fibre optic universal cable with central jelly filled loose tube, longitudinally and transversally watertight, with corrugated steel tape sheath with CI.

Properties / applications

Universal cable for fixed installation. Longitudinally and transversely waterproof with highly effective rodent protection.

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 report:

5005019-9601-0001/260492- TL6-2, -4, -8, -9)

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). Especially suitable for mounting of distribution heads für pre-assembled trunks and for splicing technology.

Laying

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

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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, pinke, 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), UV resistant
Colour	Jet black
Cable marking	KERPEN DATACOM GmbH GigaLine fire secured U-DQ(ZN)H(SR)H 1x4 G50/125 OM3 2500 N \$2xWechselstromsymbol\$ Cca s1a d1 a1 DoP: CDESK0000090 \$BA-Nr.\$ \$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	3500 N
Crush resistance (short term)	3500 N/100mm
Crush resistance (long term)	2500 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	-20 °C up to +70 °C

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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	Cca -s2,d1,a1
DoP	CDESK0000090
Flame retardancy	IEC 60332-1-2, IEC 60332-3-22 Cat. A
Halogen-free	IEC 60754-1
Acidity	IEC 60754-2
Smoke density	IEC 61034-1
Conformity	to CPR (EU/305/2011)
Chemical continuance	Conform to RoHS and REACH

Part number	Number of fibres	Fire load (approx.)	Outer Ø approx.	Weight
LKD8UA5C1K20000	1 x 4	2.8 MJ/m	12.5 mm	220 kg/km

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