

# GigaLine<sup>®</sup> U-DQ(ZN)BH Eca

## universal cable, stranded loose tube, 5000 N

12 x 12 E9/125/250 OS2 G652.D/G657.A1



Illustration similar

### Description

Fibre optic universal cable, multi tube, longitudinally watertight, with non-metallic rodent protection.

### Properties / applications

Universal cable for fixed installation, layable directly in the ground.

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. Building entries without additional transition points (splices) possible.

### 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.

### 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	Stranded filled loose tube
Core colours	1st tube red, 2nd white, others yellow (9/125)
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 U-DQ(ZN)BH 12x12 E9/125 OS2 5000 N \$2xWechselstromsymbol\$ Eca DoP: CDESK0000037 \$BA-Nr.\$ \$Trommelnr.\$ \$m-sign.\$

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### Optical characteristics

Category	OS2 G652.D/G657.A1
Fiber type	E9/125/250
Dispersion	@ 1310 nm max. 3.5 ps/(nm x km) @ 1550 nm max. 18 ps/(nm x km)
Attenuation	@ 1310 nm max. 0.36 dB/km @ 1383 nm max. 0.36 dB/km @ 1550 nm max. 0.22 dB/km @ 1625 nm max. 0.22 dB/km

### Mechanical characteristics (cable)

Bending radius (static) (min.)	15x outer-Ø
Bending radius (dynamic) (min.)	20x outer-Ø
Max. strain relief	5000 N
Crush resistance (short term)	5000 N/100mm
Crush resistance (long term)	3000 N/100mm

### Thermal characteristics (cable)

Temperature (transport / storage)	-40 °C up to +80 °C
Temperature during installation	-20 °C up to +60 °C
Temperature after installation	-40 °C up to +80 °C

### Standards, certificates and approvals

Fibre standard	ISO/IEC 11801 OS2 ITU-T G652.D ITU-T G657.A1 IEC 60793-2 B1.3
Cabling standard	EN 50173 ISO/IEC 11801
Fire class	Eca
DoP	CDESK0000037
Flame retardancy	IEC 60332-1-2, IEC 60332-3-22 Cat. A
Halogen-free	IEC 60754-1
Smoke density	IEC 61034-1
Long. watertightn.	IEC 60794-1-2 F5
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
LKD8UC71K130000	12 x 12	3.8 MJ/m	16 mm	240 kg/km

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