

# GigaLine<sup>®</sup> U-DQ(ZN)BH Eca - PVP universal cable, stranded loose tube, 4000 N

4 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.

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.

## 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, pink, each with black ring marking, except transparent.
Tube type	Stranded filled loose tube
Core colours	1st tube red, 2nd white, others yellow (9/125)
Loose tube, outer diameter	2.3 mm
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 \$Abmessung\$ \$Fasertyp\$ 4000N \$2xWechselstromsymbol\$ \$ Eca DoP: CDESK0000091 \$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	4000 N
Max. tensile load (short term TS)	4000 N (0,6 % fiber elongation)
Max. tensile load (long term TS)	1600 N (0,2 % fiber elongation)
Crush resistance (short term)	5000 N/100mm
Crush resistance (long term)	3000 N/100mm

## Thermal characteristics (cable)

Temperature (transport / storage)	-40 °C up to +70 °C
Temperature during installation	-5 °C up to +60 °C
Temperature after installation	-40 °C up to +70 °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	CDESK0000091
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)
Quality seal with production control	GHMT PVP - Level 1
Chemical continuance	Conform to RoHS and REACH

Part number	Number of fibres	Fire load (approx.)	Outer Ø approx.	Weight
LKD8UC39T080000	4 x 12	1.9 MJ/m	11.5 mm	136 kg/km

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