

# GigaLine® U-DQ(ZN)H(SR)H CI 180 - Cca

Universal cable with resistance to fire 180 Min.

E9/125 OS2



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

Single Mode

max. 1.0 dB at 1310 nm und 1550 nm

(VDE test report:

5005019-9601-0001/260492- TL6-1, -3, -5, -6)

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.

## Construction

|                          |                                                                                                                                                                                                                                                                          |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product name             | GigaLine® U-DQ(ZN)H(SR)H CI 180 - Cca                                                                                                                                                                                                                                    |
| Fibre quality            | E9/125 0,36F3/0,22H18-SMF28 ultra OS2                                                                                                                                                                                                                                    |
| 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                     | Central filled loose tube                                                                                                                                                                                                                                                |
| Strain relief (over all) | Non metallic, glass rovings                                                                                                                                                                                                                                              |
| Outer sheath material    | Halogen free flame retardant compound, UV resistant                                                                                                                                                                                                                      |
| Outer sheath (colour )   | Black                                                                                                                                                                                                                                                                    |

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## Mechanical characteristics (cable)

|                               |                    |
|-------------------------------|--------------------|
| Bending radius (static)       | 15x outer diameter |
| Bending radius (dynamic)      | 20x outer diameter |
| Crush resistance (short term) | 3500 (N/100mm)     |
| Crush resistance (long term)  | 2500 (N/100mm)     |
| Max. strain relief            | 3500 N             |

## 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 |

## Standards, certificates and approvals

|                                 |                                               |
|---------------------------------|-----------------------------------------------|
| Fibre standard                  | OS2 ITU-T 652.D + G657.A1<br>IEC 60793-2 B1.3 |
| Cabling standard                | EN 50173<br>ISO/IEC 11801                     |
| Fire class                      | Cca s2 d1 a1 acc. to EN 50575 / 50399         |
| DoP                             | CDESK0000090                                  |
| Flame retardancy                | IEC 60332-1-2, IEC 60332-3-22<br>Cat. A       |
| Halogen free                    | IEC 60754-1                                   |
| Acidity of the combustion gases | IEC 60754-2                                   |
| Smoke density                   | IEC 61034                                     |
| Cable standard                  | IEC 60794-2                                   |
| Compliance                      | to CPR (EU/305/2011)                          |

| Part number     | Number of fibres | Weight      | Fire load | Outer diameter |
|-----------------|------------------|-------------|-----------|----------------|
| LKD8UC3C1K30000 | 1 x 6            | 220,0 kg/km | 2,8 MJ/m  | 12,5 mm        |