

# GigaLine<sup>®</sup> U-DQ(ZN)BH - Dca

## Universal cable, central loose tube

G50/125 OM4 bend insensitive

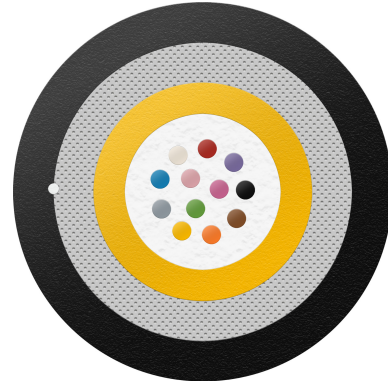


Illustration similar

### Description

Fibre optic universal cable, central loose 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). Building entries without additional transition points (splices) possible. 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 <sup>®</sup> U-DQ(ZN)BH - Dca                                                                                                                                                                                                                                  |
| Fibre quality            | G50/125<br>2,50B3500/0,70F500-10GBE550<br>OM4 bendable                                                                                                                                                                                                                  |
| 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                     | 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) | 3000 (N/100mm)     |
| Crush resistance (long term)  | 1500 (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    | -25 °C up to +60 °C |

### Standards, certificates and approvals

|                                 |                                                                                                                                                                               |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fibre standard                  | OM4 ITU-T 651<br>IEC 60793-2 A1a.3                                                                                                                                            |
| Cabling standard                | EN 50173<br>ISO/IEC 11801                                                                                                                                                     |
| Fire class                      | Dca s2 d2 a1 acc. to EN 50575 / 50399                                                                                                                                         |
| DoP                             | CDESK0000038                                                                                                                                                                  |
| 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 61034-1/2                                                                                                                                                                 |
| Oil resistance                  | IEC 60811-2-1 with test-oil IRM 902 (acc. to ISO 1817) at +70°C; 4 h; pulling rate 50 mm/min<br>relative change of the elongation at break and tensile strength max. +/- 40 % |
| Longitudinal watertightness     | IEC 60794-1-2 F5                                                                                                                                                              |
| Cable standard                  | IEC 60794-2                                                                                                                                                                   |
| Compliance                      | to CPR (EU/305/2011)                                                                                                                                                          |

| Part number     | Number of fibres | Weight     | Fire load | Outer diameter |
|-----------------|------------------|------------|-----------|----------------|
| LKD8UA700M20000 | 1 x 4            | 65,0 kg/km | 0,95 MJ/m | 7,7 mm         |