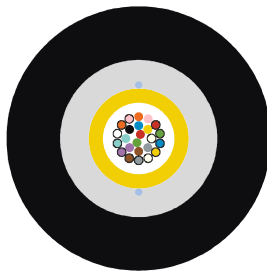


U-DQ(ZN)BH D_{ca}**UDG50 D_{ca}**

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Indoor / outdoor cable with central loose tube and non-metallic armouring,
halogen-free and flame retardant outer sheath

**Design**

- Optical fibres inside a gel-filled central loose tube
- Water swellable elements
- Armouring (glass yarns)
- Halogen-free and flame retardant outer sheath

Optical fibre optionsSinglemode fibre: **ITU-T G.652.D, G.655, G.657**Multimode fibre: **ITU-T G.651: OM2, OM3, OM4 | 62.5µm: OM1****Product description**

- Cable for indoor and outdoor use in ducts and conduits; flammability classification acc. to EN 50575: D_{ca}-s2,d1,a1
- Up to 24 colour-coded optical fibres inside a gel-filled central loose tube
- Water swellable elements achieving longitudinal watertightness
- Glass yarns as non-metallic armouring; additionally increasing tensile strength
- Outer sheath made of black halogen-free and flame retardant polymeric material

U-DQ(ZN)BH D_{ca}

UDG50 D_{ca}

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Characteristics

U-DQ(ZN)BH D _{ca}	
DoP 101	
Fibre count	4, 6, 8, 12, 16, 24
Buffer tube diameter (mm)	2.8
Cable diameter (mm)	7.4
Sheath thickness (mm)	1.5
Weight (kg/km)	65
Maximum tensile strength	
- during installation (N)	2500
- in operation (N)	1400
Crush resistance (N/dm)	1500
Minimum bending radius	
- with tensile load	15 x cable diameter
- without tensile load	10 x cable diameter
Temperature range	
- Storage, transport (°C)	- 20 to + 70
- Installation (°C)	- 5 to + 50
- Operation (°C)	- 20 to + 70
flammability classification (EN 50575)	D _{ca} -s2,d1,a1
Compliance	
- General	IEC 60793 / 60794; ITU-T; VDE 0888
- Fire properties	EN 50399; EN 60754-2
Maximum production length (m)	8000

All dimensions and weights are nominal values

Cable marking

Per metre:

<Metre marking> U-DQ(ZN)BH 1x<fibre count> <fibre type acc. to ITU-T> 2500N RHENANIA <cable-ID>

~~~~ ~~~~ Dca-s2,d1,a1 DoP 101

### Fibre colour code

|       |       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 RD  | 2 GN  | 3 BU  | 4 YE  | 5 WH  | 6 GY  | 7 BN  | 8 VT  | 9 TQ  | 10 BK | 11 OG | 12 PK |
| 13 RD | 14 GN | 15 BU | 16 YE | 17 WH | 18 GY | 19 BN | 20 VT | 21 TQ | 22 NT | 23 OG | 24 PK |

### Tube colour code

|                  |    |                       |    |                         |    |
|------------------|----|-----------------------|----|-------------------------|----|
| Singlemode fibre | YE | Multimode fibre 50 µm | GN | Multimode fibre 62.5 µm | BU |
|------------------|----|-----------------------|----|-------------------------|----|

Modification of properties, colour codes and cable marking on request