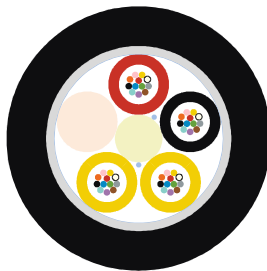


U-DQ(ZN)BH**E_{ca}****XDG50****E_{ca}**

1/2

**Indoor / outdoor cable with stranded loose tubes and non-metallic armouring
halogen-free and flame retardant outer sheath**

Design



- Central strength element (FRP), up-jacketed if needed
- Optical fibres inside gel-filled loose tube
- Filler if needed
- Water swellable elements
- Armouring (glass yarns)
- Halogen-free and flame retardant outer sheath

Optical fibre options

Singlemode 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; reaction to fire acc. to EN 50575: E_{ca}
- 12 colour-coded optical fibres per tube inside up to 12 gel-filled loose tubes
- Use of naturally coloured fillers if necessary
- 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

E_{ca}

XDG50

E_{ca}

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Characteristics

U-DQ(ZN)BH E _{ca}					
DoP					
	12 ... 60	72	96	144	288
Fibre count	12 ... 60	72	96	144	288
Tube count, Layer 1 / Layer 2	1...5 / -	6 / -	8 / -	12 / -	9 / 15
Fibres per tube	12	12	12	12	12
Filler	4 ... 0	-	-	-	-
Tube diameter (mm)	2.3	2.3	2.3	2.3	2.3
Cable diameter (mm)	10	10.6	12.1	15.1	17.8
Sheath thickness (mm)	1.5	1.5	1.5	1.5	1.5
Weight (kg/km)	100	120	150	220	300
Maximum tensile force					
- during installation (N)	2400	3200	4300	5000	7900
- in operation (N)	1500	2000	2700	3100	4900
Crush resistance (N/dm)	3000	3000	3000	3000	3000
Minimum bending radius					
- with tensile load	15 x cable diameter				
- without tensile load	10 x cable diameter				
Temperature range					
- Storage, transport (°C)	- 30 to + 70				
- Installation (°C)	- 5 to + 50				
- Operation (°C)	- 30 to + 70				
Reaction to fire (EN 50575)	E _{ca}				
Compliance					
- General	IEC 60793 / 60794; ITU-T; VDE 0888				
- Fire properties	EN 60332-1-2				
Maximum production length (m)	8000	8000	8000	8000	5000

All dimensions and weights are nominal values

Cable marking

Per metre:

<Metre marking> U-DQ(ZN)BH <tube count>x12 <fibre type acc. to ITU-T> RHENANIA <cable-ID>

~ ~ ~ ~ ~ Eca DoP 100

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
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Tube colour code, per layer

Starting tube RD	Direction tube BK	Following tubes	Singlemode fibre YE	Multimode fibre 50 µm GN	Multimode fibre 62.5 µm BU
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Modification of properties, colour codes and cable marking on request

Subject to change without prior notice