

## A-DQ(ZN)B2Y

## XDG10

1/2

Outdoor cable with stranded loose tubes and non-metallic armouring



### 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)
- Ripcord (optional)
- PE 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 outdoor use in ducts and conduits
- Up to 24 colour-coded optical fibres inside up to 24 gel-filled loose tubes
- Use of fillers for less than five or six tubes
- Water swellable elements achieving longitudinal watertightness
- Glass yarns as non-metallic armouring; additionally increasing tensile strength
- Optional ripcord for easy sheath removal
- Outer sheath made of black polyethylene, UV- and weather-resistant

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## Characteristics

<b>A-DQ(ZN)B2Y</b>											
Fibre count	24	24	12 ... 60	72	96	144	192	288	288	432	576
Tube count, Layer 1 / Layer 2	4 / -	6 / -	1 ... 5 / -	6 / -	8 / -	12 / -	5 / 11	9 / 15	12 / -	6 / 12	9 / 15
Fibres per tube	6	4	12	12	12	12	12	12	24	24	24
Filler	1	-	4 ... 0	-	-	-	2	-	-	-	-
Tube diameter (mm)	2.0	2.0	2.3	2.3	2.3	2.3	2.3	2.3	2.8	2.8	2.8
Cable diameter (mm)	9.1	9.7	10.0	10.6	12.1	15.1	15.2	17.6	17.7	18.1	20.7
Sheath thickness (mm)	1.5										
Weight (kg/km)	65	75	80	95	120	185	175	235	240	250	325
Maximum tensile force											
- during installation (N)	2200	3000	3000	3500	4500	5500	4500	6000	6000	6000	6000
- in operation (N)	1400	1900	1900	2200	2800	3400	2800	3800	3800	3800	3800
Crush resistance (N/dm)	3000										
Minimum bending radius											
- with tensile load	15 x cable diameter										
- without tensile load	10 x cable diameter										
Temperature range											
- Storage, transport (°C)	- 40 to + 70										
- Installation (°C)	- 5 to + 50										
- Operation (°C)	- 30 to + 70										
Fire load (MJ/m)	2.1	2.3	2.4	2.7	3.3	4.5	5.5	6.9	6.0	7.5	9.4
Compliance	IEC 60793 / 60794; ITU-T; VDE 0888										
Maximum production length (m)	8000	8000	8000	8000	8000	8000	8000	5000	6000	4000	4000

All dimensions and weights are nominal values

## Cable marking

Per metre:

<Metre marking> A-DQ(ZN)B2Y <tube count>x<fibre count> <fibre type acc. to ITU-T> RHENANIA <cable-ID>

~ ~ ~ ~ ~ <optional customer designation>

## 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 (for single layer cables)

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 (for two-layer cables: 1 layer: 1....9; 2 layer: 10...24)

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

Modification of properties, colour codes and cable marking on request

Subject to change without prior notice