

A-DQ(ZN)2Y

XD100

1/2

Outdoor cable with stranded loose tubes



Design



- Central strength element (FRP), up-jacketed if needed
- Optical fibres inside gel-filled loose tube
- Filler if needed
- Water swellable elements
- Strain bearing elements (glass yarns) if needed
- Ripcord if needed
- 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 per tube 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 strain bearing elements if needed for excellent mechanical properties
- Optional ripcord for easy sheath removal if needed
- Outer sheath made of black polyethylene, UV- and weather-resistant

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Characteristics

A-DQ(ZN)2Y											
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)	8.7	9.1	9.4	10.0	11.5	14.5	14.6	16.8	17.2	17.2	19.9
Outer sheath thickness (mm)	1.5										
Weight (kg/km)	60	65	65	80	105	160	155	210	215	210	280
Maximum tensile force											
- during installation (N)	1100	1300	1000	1600	2400	2500	2200	2600	2600	2600	3100
- in operation (N)	700	800	600	1000	1500	1600	1400	1600	1600	2000	1900
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)	2.0	2.2	2.3	2.6	3.2	4.4	5.4	6.8	5.9	7.3	9.2
Compliance	IEC 60793 / 60794; ITU-T; VDE 0888										
Maximum production length (m)	8000	8000	8000	8000	8000	8000	8000	5000	6000	6000	4000

All dimensions and weights are nominal values

Cable marking

Per metre:

<Metre marking> A-DQ(ZN)2Y <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