

A-DQ(ZN)B2Y

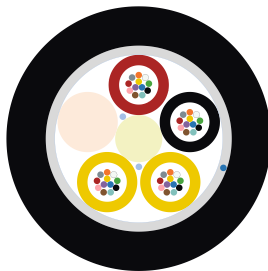
XDG10

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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

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

~~~~ ~~~~ ~~~~ &lt;optional customer designation&gt;

**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, per layer**

|               |    |                |    |                 |                  |    |                       |    |                         |    |
|---------------|----|----------------|----|-----------------|------------------|----|-----------------------|----|-------------------------|----|
| Starting tube | RD | Direction tube | BK | Following tubes | Singlemode fibre | YE | Multimode fibre 50 µm | GN | Multimode fibre 62.5 µm | BU |
|---------------|----|----------------|----|-----------------|------------------|----|-----------------------|----|-------------------------|----|

Modification of properties, colour codes and cable marking on request