

A-DQ(ZN)2Y(SR)2Y

XD1C1

1/2

Outdoor cable with stranded loose tubes, inner sheath and corrugated steel tape armouring



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
- Ripcord (optional)
- PE inner sheath
- Corrugated steel tape
- 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 or directly buried
- Up to 12 colour-coded optical fibres per tube inside up to 24 gel-filled loose tubes
- Water swellable elements achieving longitudinal watertightness
- Glass yarns as strain bearing elements for excellent mechanical properties
- Optional ripcord for easy sheath removal
- Inner sheath made of black polyethylene
- Corrugated steel tape armouring to protect the cable against rodents and lateral pressure when directly buried
- Outer sheath made of black polyethylene, UV- and weather-resistant

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Characteristics

| A-DQ(ZN)2Y(SR)2Y | | | | | | | | | | | |
|-------------------------------|--|------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Fibre count | | 24 | 24 | 36 | 48 | 60 | 72 | 96 | 144 | 192 | 288 |
| Tube count, Layer 1 / Layer 2 | | 4 / - | 2 / - | 3 / - | 4 / - | 5 / - | 6 / - | 8 / - | 12 / - | 5 / 11 | 9 / 15 |
| Fibres per tube | | 6 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Filler | | 1 | 3 | 2 | 1 | - | - | - | - | 2 | - |
| Tube diameter (mm) | | 2.0 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| Cable diameter (mm) | | 12.9 | 13.7 | 13.7 | 13.7 | 13.7 | 14.0 | 15.5 | 18.5 | 18.7 | 20.9 |
| Outer sheath thickness (mm) | | 1.5 | | | | | | | | | |
| Weight (kg/km) | | 165 | 180 | 180 | 180 | 180 | 190 | 225 | 310 | 305 | 380 |
| Maximum tensile force | | | | | | | | | | | |
| - during installation (N) | | 2500 | 2600 | 2600 | 2600 | 2600 | 2700 | 3400 | 4100 | 3900 | 4600 |
| - in operation (N) | | 1600 | 1600 | 1600 | 1600 | 1600 | 1700 | 2100 | 2500 | 2400 | 2900 |
| Crush resistance (N/dm) | | 3500 | | | | | | | | | |
| 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) | | 2.8 | 3.1 | 3.1 | 3.1 | 3.1 | 3.3 | 3.9 | 5.2 | 6.2 | 7.6 |
| Compliance | | IEC 60793 / 60794; ITU-T; VDE 0888 | | | | | | | | | |
| Maximum production length (m) | | 4000 | | | | | | | | | |

All dimensions and weights are nominal values

Cable marking

Per metre:

<Metre marking> A-DQ(ZN)2Y(SR)2Y <tube count>x<fibre count> <fibre type acc. to ITU-T> RHENANIA <cable-ID>
 <optional customer designation>

Fibre colour code, per layer

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|-------|-------|-------|
| 1 RD | 2 GN | 3 BU | 4 YE | 5 WH | 6 GY | 7 BN | 8 VT | 9 TQ | 10 BK | 11 OG | 12 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 |
|------|------|------|------|------|------|------|------|------|-------|-------|-------|

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