

A-DF(ZN)(L)2Y

XF200

1/2

Outdoor cable with stranded loose tubes, gel-filled core and aluminium laminated sheath



Design



- Central strength element (FRP), up-jacketed if needed
- Optical fibres inside gel-filled loose tube
- Filler if needed
- Water swellable element and core filling
- Strain bearing elements if needed
- Ripcord (optional)
- Aluminium laminated PE 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
- Use of fillers for less than five or six tubes
- Water swellable elements and a core filling achieving longitudinal watertightness
- Glass yarns as strain bearing elements if needed for excellent mechanical properties
- Optional ripcord for easy sheath removal
- Outer sheath made of black polyethylene, UV- and weather resistant, laminated with an aluminium tape as a moisture barrier

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Characteristics

| A-DF(ZN)(L)2Y | | | | | | | | | | | |
|--------------------------------------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| <i>Fibre count</i> | 24 | 24 | 24 | 36 | 48 | 60 | 72 | 96 | 144 | 192 | 288 |
| <i>Tube count, Layer 1 / Layer 2</i> | 4 / - | 6 / - | 2 / - | 3 / - | 4 / - | 5 / - | 6 / - | 8 / - | 12 / - | 5 / 11 | 9 / 15 |
| <i>Fibres per tube</i> | 6 | 4 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| <i>Filler</i> | 1 | - | 3 | 2 | 1 | - | - | - | - | 2 | - |
| <i>Tube diameter</i> (mm) | 2.0 | 2.0 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| <i>Cable diameter</i> (mm) | 9.9 | 10.4 | 10.8 | 10.8 | 10.8 | 10.8 | 11.0 | 12.3 | 15.6 | 16.2 | 18.5 |
| <i>Sheath thickness</i> (mm) | 1.5 | | | | | | | | | | |
| <i>Weight</i> (kg/km) | 90 | 100 | 105 | 105 | 105 | 105 | 115 | 145 | 220 | 225 | 295 |
| <i>Maximum tensile force</i> | | | | | | | | | | | |
| - during installation (N) | 1300 | 1700 | 1600 | 1600 | 1600 | 1600 | 1900 | 2500 | 2600 | 2700 | 3400 |
| - in operation (N) | 800 | 1100 | 1000 | 1000 | 1000 | 1000 | 1200 | 1500 | 1600 | 1700 | 2100 |
| <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) | 2.2 | 2.4 | 2.6 | 2.6 | 2.6 | 2.6 | 2.8 | 3.3 | 4.6 | 5.7 | 7.1 |
| <i>Compliance</i> | IEC 60793 / 60794; ITU-T; VDE 0888 | | | | | | | | | | |
| <i>Maximum production length</i> (m) | 4000 | | | | | | | | | | |

All dimensions and weights are nominal values

Cable marking

Per metre:

<Metre marking> <cable designation> <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

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