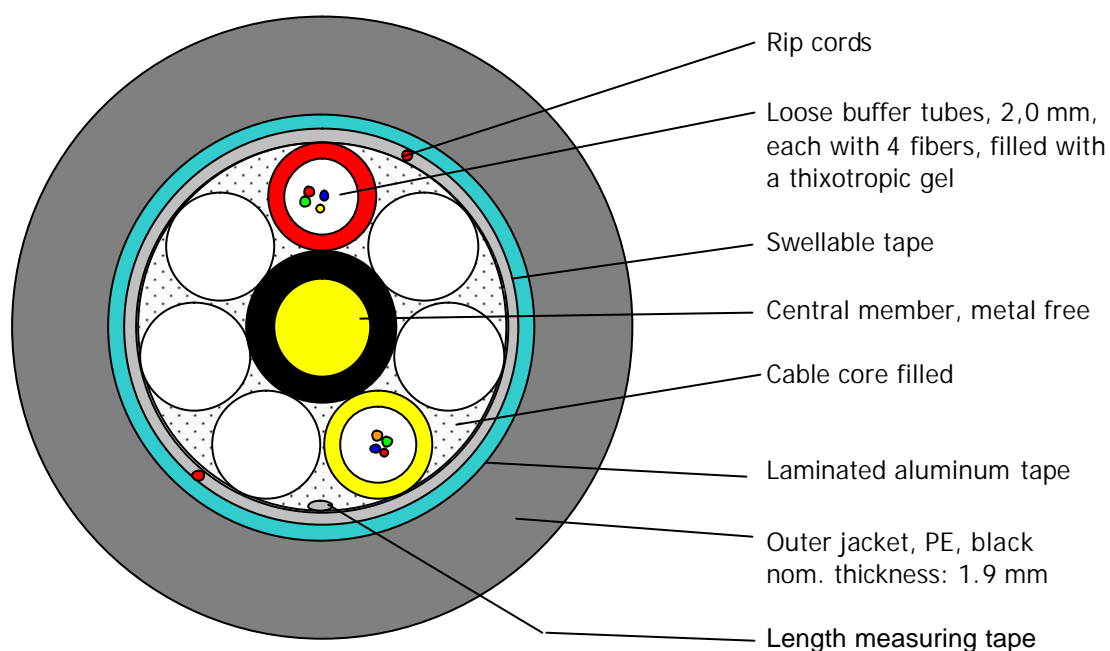


Fiber optic duct cable

with 8 mono fibers E9/125 SMF 28e[®]
and with an additional moisture barrier



Principle drawing

A-DF(L)2Y 2x4 E9/125 0,36F3,5 + 0,21H18 LG

Design and special properties

- Light, thin and robust cable
- Cable for pulling into duct systems, laying in concrete channels or on cable racks
- Laminated aluminum tape as additional moisture barrier
- Interstices and buffer tubes fully filled.
- Single-layer stranded construction with PE-outer jacket,
Chemical characteristics: For our cables we use low density copolymer modified polyethylen compounds for jacketing with good mechanical properties and excellent weathering resistance,
- Design , fiber and tube coloring acc. to specification DTAG TS 0000/12.98

Coloring

Fibers: red, green, blue, yellow
 Buffer tubes: red, filler (nature), filler (nature), yellow, filler (nature), filler (nature), filler (nature),
 Outer jacket: black
 Cable printing: Meter ...**T**. Double sinus E Double sinus Head set Double sinus E
 Double sinus ...**T**. Double sinus E Double sinus Head set **A-DF(L)2Y 8 E**
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Characteristics of fibers E9/125

Optical and mechanical:

| | | |
|--|-------------------|-----------------|
| Mode field diameter at 1310 nm | [μm] | 9.2 ± 0.4 |
| Cladding diameter | [μm] | 125.0 ± 0.7 |
| Coating diameter | [μm] | 245 ± 5 |
| Attenuation at 1310 nm | [dB/km] | ≤ 0.36 |
| Attenuation at 1550 nm | [dB/km] | ≤ 0.21 |
| Attenuation at 1383 nm | [dB/km] | ≤ 0.36 |
| Dispersion in the range 1285 to 1330 nm | [ps/(nm*km)] | ≤ 3.5 |
| Dispersion at 1550 nm | [ps/(nm*km)] | ≤ 18 |
| Cable cutoff Wavelength (λ_{cc}) | [nm] | ≤ 1260 |

The fibers are fully in compliance with ITU G.652.D and annexes.

Other options are available on request.

Technical cable characteristics

Mechanical and environmental:

| | | | |
|---|-------------------------|--------------|-----------|
| Number of fibers | | 8 | |
| Number of tubes | | 2 | |
| Number of fibers per tube | | 4 | |
| Number of stranding elements | | 7 | |
| Outer diameter of the cable, approx. | [mm] | 12,2 | |
| Weight of the cable, approx. | [kg/km] | 115 | |
| Max. tensile load during installation | [N] | 2200 | |
| Min. bending radius during installation | [mm] | 215 | |
| Min. bending radius during operation | [mm] | 195 | |
| Crush strength | [N/100 mm] | 1500 / 1 min | |
| Temperature range | Laying and installation | [°C] | -5 to 50 |
| | Operation | | -20 to 60 |
| | Transport and storage | | -25 to 70 |
| Water penetration (0.1 bar / 3 days) | [m] | ≤ 3 | |

Delivery length

Standard delivery length 6 km