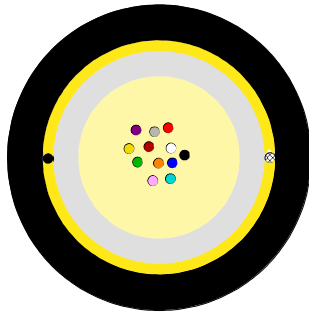


Microduct Dielectric Optical Cables A-D2Y

Cable Design

Acc. to Deutsche Telekom TS0311 Teil 7



- not to scale -

- **Central Loose Tube:** thermoplastic material, containing optical fibres and filled with a suitable water tightness compound.
- **Longitudinal Water Tightness:** fully watertight construction.
- **Peripheral Strength Elements:** aramid yarns.
- **Outer Sheath:** polyethylene material with an easy recognizable ripcord and identification thread underneath.

This loose tube dielectric optical cable is designed for outdoor installation in microducts by blowing or pulling techniques.

Technical data

| No. of Fibres | | 4 | 12 |
|------------------------|---------|---------------------------------------|-----------------------------------|
| Loose Tube - Nominal Ø | mm | 1.8 | |
| Cable Diameter | mm | 2.4 ± 0.2 | |
| Cable Weight | kg / km | 5.7 | 5.9 |
| Fire Load | MJ / m | 0.23 | 0.20 |
| Minimum Bending Radius | mm | Without Tension 15 x Cable-Ø | |
| | | Under Maximum Tension 25 x Cable-Ø | |
| Temperature Range | °C | Installation -5 to +40 | Transport & Storage -25 to +70 |
| | | | Operation -20 to +60 |

Please refer to our General Installation, Safety & Handling recommendations before handling.

Main characteristics

| Test | Test Standard | Specified Value | Acceptance Criteria |
|---------------------------|-------------------|----------------------------------|---|
| Max. Installation Tension | IEC 60794-1-2-E1 | 80 N | $\Delta\alpha$ reversible |
| Crush | IEC 60794-1-2-E3 | 500 N / 100 mm, 5 min | $\Delta\alpha$ reversible, no damage |
| Impact | IEC 60794-1-2-E4 | 1 J, 3 impacts, R= 300 mm | $\Delta\alpha$ reversible |
| Repeated Bending | IEC 60794-1-2-E6 | R=25xD, 100 cycles | $\Delta\alpha \leq 0.05$ dB |
| Cable Bend | IEC 60794-1-2-E11 | R=25xD | $\Delta\alpha \leq 0.05$ dB |
| Temperature Cycling | IEC 60794-1-2-F1 | -20°C to +60°C -25°C to +70°C | $\Delta\alpha \leq 0.05$ dB/km $\Delta\alpha \leq 0.1$ dB/km, reversible |
| Water Penetration | IEC 60794-1-2-F5B | sample=3m, water column=1m | no water leakage in 24h |

All optical measurements at 1550 nm.

Optical Characteristics

See the attached cabled single mode optical fibre data sheet.

Identification

Fibre Colours

| No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|--------|-----|-------|------|--------|-------|------|-------|--------|------|-------|--------|------|
| Colour | red | green | blue | yellow | white | grey | brown | violet | aqua | black | orange | pink |

Sheath Colour:

The outer sheath colour is black.

Sheath Marking:

The outer sheath is marked in 1 meter intervals as follows:

.T... E A-D2Y 1x<nf> <mm>/<yyyy> <Manufacturer ID> <cable ID> .T... E <metric>

Logistic

Packing:

Plastic drums with protection.

Delivery Lengths:

Standard delivery length is 6 km with a tolerance of -1% / +3%

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