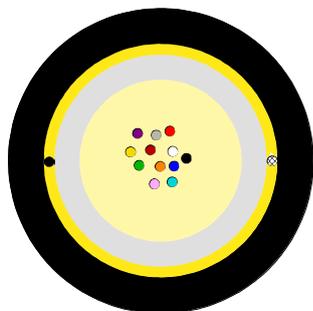


## Microduct Dielectric Optical Cables A-D2Y

### 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

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### 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

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### Packing:

Plastic drums with protection.

### Delivery Lengths:

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

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All sizes and values without tolerances are reference values. Specifications are for product as supplied by PrysmianGroup: any modification or alteration afterwards of product may give different result.

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