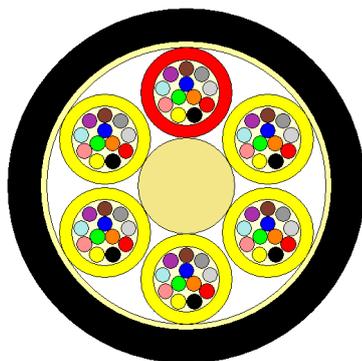


## Optical Cables for Microduct Installation A-D(ZN)2Y

### Cable Design

Acc. to Deutsche Telekom TS0311 Teil 6



Picture: 72 OF cable (not to scale)  
See Annex 1 for cross sections of other cables.

- **Central Strengths Member (CSM):** glass fibre reinforced plastic rod (FRP), with printed marking at every meter. Identification thread applied together with it.
- **Loose Tubes:** thermoplastic material, containing optical fibres and filled with a suitable gel compound.
- **Filler elements:** thermoplastic rods, when needed
- **Water Tightness:** fully watertight construction.
- **Stranding:** loose tubes (and fillers), SZ stranded around the CSM.
- **Outer Sheath:** PE halogen free, one ripcord beneath.

### Technical data

No. of Fibres		1x12	2x12	4x12	5x12	6x12	8x12
Cable Diameter (nom.)	mm			6.2			
Cable Weight	kg / km	33	33	34	35	35	40
Minimum Bending Radius	mm	Without Tension 10 x Cable-Ø			Under Maximum Tension 15 x Cable-Ø		
Temperature Range	°C	Installation -5 to +40		Transport & Storage -25 to +70		Operation -20 to +60	
Suggested Inner Duct - Ø	mm	≥ 8.0					

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	700 N	$\Delta\alpha \leq 0.05$ dB / 0.2% fibre elongation
Crush	IEC 60794-1-2-E3	800 N / 100 mm,	$\Delta\alpha \leq 0.05$ dB
Repeated Bending	IEC 60794-1-2-E6	R=25x D, 100 cycles	$\Delta\alpha \leq 0.05$ dB
Impact	IEC 60794-1-2-E4	2 J, 3 impacts, R= 300 mm	$\Delta\alpha \leq 0.05$ dB
Cable Bend	IEC 60794-1-2-E11	R=10x D	$\Delta\alpha \leq 0.05$ 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
Water Penetration	IEC 60794-1-2-F5B	sample=1m, water column=1m	no water leakage in 24h

All optical measurements at 1550 nm.

### Optical Characteristics

See the attached cabled 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

### Buffer Tube Colours

Cables up to 72 fibres

No.	1	2	3	4	5	6
Colour	red	yellow	yellow	yellow	yellow	yellow

Cables with 96 fibres

No.	1	2	3	4	5	6	7	8
Colour	red	green	blue	yellow	white	grey	brown	violet

### Filler elements:

All filler elements are uncoloured (natural)

### Sheath Colour:

The outer sheath colour is black.

### Sheath Marking:

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



## Logistic

### Packing:

Wooden drums with protection.

SP100 drums: Flange OD: 1000mm; Core diameter: 400mm; Width: 680mm

### Delivery Lengths:

Standard delivery length: 6000m.

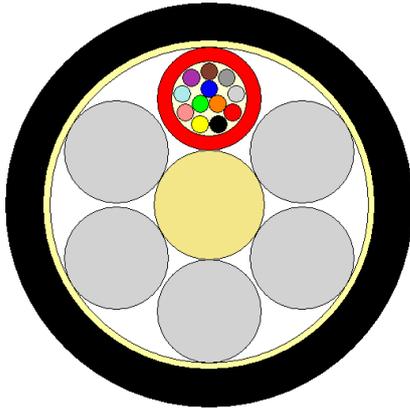
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All sizes and values without tolerances are reference values. Specifications are for product as supplied by PrysmianGroup: any modification or alteration afterwards of product may give different result.

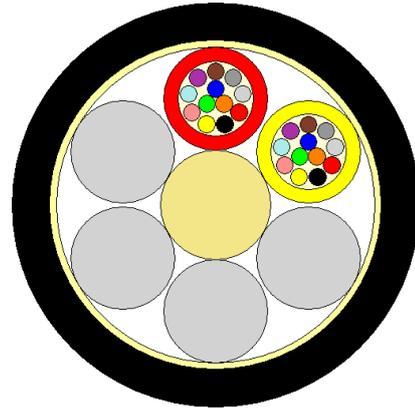
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**Annex 1: Cross Sectional Drawings**

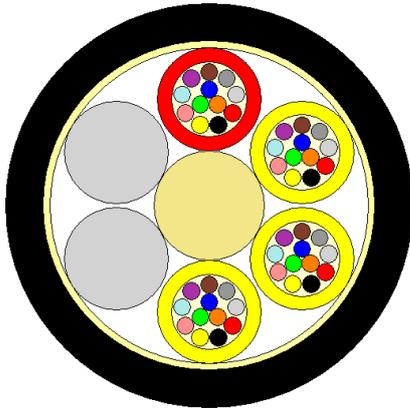
**A-D(ZN)2Y 1x12 E**



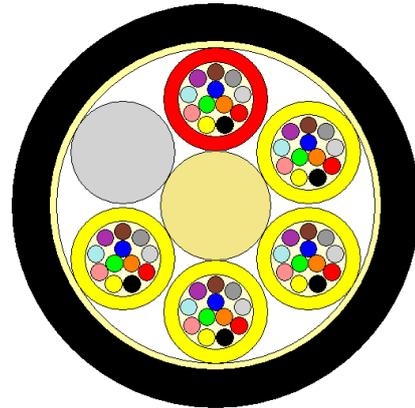
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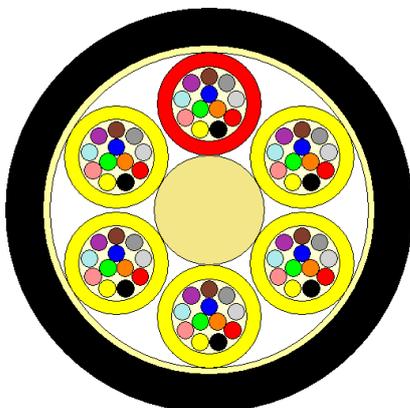
**A-D(ZN)2Y 4x12 E**



**A-D(ZN)2Y 5x12 E**



**A-D(ZN)2Y 6x12 E**



**A-D(ZN)2Y 8x12 E**

