

## Fiber Optic Cable

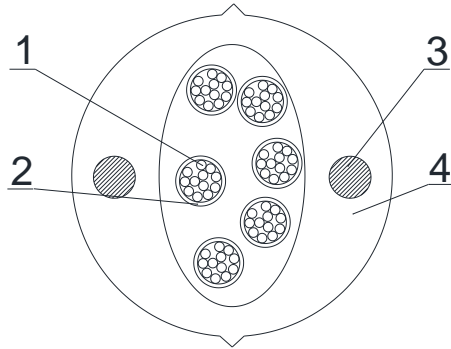
# WD-NOTKMd 4-144 fibres

ZN/17-OPL-005-2; IEC/EN 60793; IEC/EN 60794-1

Spec. No. TT1-3034/4/0 MB

19.08.2020, page 1/2

Type: indoor, easy access



### Cable construction:

1. Optical fibre
2. Micromodule
3. Strength member FRP
4. Outer jacket

CONSTRUCTION			
Element	Type	Material	Dimension
<b>Fibres</b>	ITU-T G.657A2 or according to the attached specifications		
<b>Identification of fibers</b>	Comply to IEC 60304: Red, Blue, White, Green, Violet, Orange, Grey, Yellow, Brown, Pink, Black, Turquoise		
<b>Tube identification</b>	Red, Blue, White, Green, Violet, Orange, Grey, Yellow, Brown, Pink, Black, Turquoise		
<b>Secondary coating</b>	Micromodule	Flexible, easy peel compound	$\phi$ 0.9 mm for 4 fibres $\phi$ 1.0 mm for 6 fibres $\phi$ 1.2 mm for 8 fibres $\phi$ 1.3 mm for 12 fibres
<b>Strength Members</b>	Dielectric rod	FRP	$\phi$ 0.9 mm or $\phi$ 1.0 mm (approx.)
<b>Outer sheath</b>	White	LSOH	thickness: minimum spot 0.70mm
<b>Attenuation @1310nm</b>	$\leq 0,40$ dB/km *)		
<b>Attenuation @1550nm</b>	$\leq 0,35$ dB/km *)		
<b>Temperature range</b>	- transport and storage - installation - operation		-40/+70 °C 0/+55 °C -5/+60 °C
<b>Marking/Printing:</b>	<b>KABEL OPTYCZNY WD-NOTKMd 6x12J7A2 TF Kable 1 year of production</b> (or according to the agreement). Length marking every metre		
<b>Standard delivery lengths</b>	2100 $\pm$ 100 m; to be agreed		

\*) Max attenuation for SMF in cable - other parameters of the fiber according to the attached specifications

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# WD-NOTKMD 4-144 fibres

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19.08.2020, page 2/2



No. of fibres in a cable	CPR - class reaction to fire (acc EN 50575)	Cable dimensions		Mechanical properties			
		Outer diameter [mm]	Cable weight [kg/km]	Max. tensile load [N]		Min. bending radius [mm]	
				Dynamic (during installation)	Static (during the operation)	Dynamic (during installation)	Static (during the operation)
1 x 4	Dca-s2,d0,a1	6.8 ± 0.3	45	450	200	100	130
1 x 6	Dca-s2,d0,a1	6.8 ± 0.3	45	450	200	100	130
1 x 8	Dca-s2,d0,a1	6.8 ± 0.3	45	450	200	100	130
1 x 12	Dca-s2,d0,a1	6.8 ± 0.3	45	450	200	100	130
2 x 4	Dca-s2,d0,a1	6.8 ± 0.3	45	450	200	100	130
2 x 6	Dca-s2,d0,a1	6.8 ± 0.3	45	450	200	100	130
2 x 8	Dca-s2,d0,a1	6.8 ± 0.3	45	450	200	100	130
2 x 12	Dca-s2,d0,a1	6.8 ± 0.3	45	450	200	100	130
3 x 4	Dca-s2,d0,a1	6.8 ± 0.3	45	450	200	100	130
3 x 6	Dca-s2,d0,a1	6.8 ± 0.3	45	450	200	100	130
3 x 8	Dca-s2,d0,a1	6.8 ± 0.3	45	450	200	100	130
3 x 12	Dca-s2,d0,a1	6.8 ± 0.3	45	450	200	100	130
4 x 4	Dca-s2,d0,a1	6.8 ± 0.3	45	450	200	100	130
4 x 6	Dca-s2,d0,a1	6.8 ± 0.3	45	450	200	100	130
4 x 8	Dca-s2,d0,a1	6.8 ± 0.3	45	450	200	100	130
4 x 12	Dca-s2,d0,a1	6.8 ± 0.3	45	450	200	100	130
5 x 4	Dca-s2,d0,a1	8.5 ± 0.3	65	700	350	125	170
5 x 6	Dca-s2,d0,a1	8.5 ± 0.3	65	700	350	125	170
5 x 8	Dca-s2,d0,a1	8.5 ± 0.3	65	700	350	125	170
5 x 12	Dca-s2,d0,a1	8.5 ± 0.3	65	700	350	125	170
6 x 4	Dca-s2,d0,a1	8.5 ± 0.3	65	700	350	125	170
6 x 6	Dca-s2,d0,a1	8.5 ± 0.3	65	700	350	125	170
6 x 8	Dca-s2,d0,a1	8.5 ± 0.3	65	700	350	125	170
6 x 12	Dca-s2,d0,a1	8.5 ± 0.3	65	700	350	125	170
7 x 4	Dca-s2,d0,a1	10.5 ± 0.3	90	950	450	150	210
7 x 6	Dca-s2,d0,a1	10.5 ± 0.3	90	950	450	150	210
7 x 8	Dca-s2,d0,a1	10.5 ± 0.3	90	950	450	150	210
7 x 12	Dca-s2,d0,a1	10.5 ± 0.3	90	950	450	150	210
8 x 4	Dca-s2,d0,a1	10.5 ± 0.3	90	950	450	150	210
8 x 6	Dca-s2,d0,a1	10.5 ± 0.3	90	950	450	150	210
8 x 8	Dca-s2,d0,a1	10.5 ± 0.3	90	950	450	150	210
8 x 12	Dca-s2,d0,a1	10.5 ± 0.3	90	950	450	150	210
9 x 4	Dca-s2,d0,a1	10.5 ± 0.3	90	950	450	150	210
9 x 6	Dca-s2,d0,a1	10.5 ± 0.3	90	950	450	150	210
9 x 8	Dca-s2,d0,a1	10.5 ± 0.3	90	950	450	150	210
9 x 12	Dca-s2,d0,a1	10.5 ± 0.3	90	950	450	150	210
10 x 4	Dca-s2,d0,a1	10.5 ± 0.3	90	950	450	150	210
10 x 6	Dca-s2,d0,a1	10.5 ± 0.3	90	950	450	150	210
10 x 8	Dca-s2,d0,a1	10.5 ± 0.3	90	950	450	150	210
10 x 12	Dca-s2,d0,a1	10.5 ± 0.3	90	950	450	150	210
11 x 4	Dca-s2,d0,a1	10.5 ± 0.3	90	950	450	150	210
11 x 6	Dca-s2,d0,a1	10.5 ± 0.3	90	950	450	150	210
11 x 8	Dca-s2,d0,a1	10.5 ± 0.3	90	950	450	150	210

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19.08.2020, page 3/2



11 x 12	Dca-s2,d0,a1	10.5 ± 0.3	90	950	450	150	210
12 x 4	Dca-s2,d0,a1	10.5 ± 0.3	90	950	450	150	210
12 x 6	Dca-s2,d0,a1	10.5 ± 0.3	90	950	450	150	210
12 x 8	Dca-s2,d0,a1	10.5 ± 0.3	90	950	450	150	210
12 x 12	Dca-s2,d0,a1	10.5 ± 0.3	90	950	450	150	210

## ADDITIONAL MECHANICAL PROPERTIES

Test	Standard	Value	Acceptance Criteria
Crush	IEC 60794-1-2-E3	2000 N ; t =5 min	$\Delta\alpha \leq 0.05$ dB, no damage
Impact	IEC 60794-1-2-E4	1.0 Nm , 3 impacts	$\Delta\alpha \leq 0.05$ dB after the test
Repeat Bending	IEC 60794-1-2-E6	R=20xD; F=40N 100 cycles, 90°, 15 cycles /min	$\Delta\alpha \leq 0.1$ dB, no damage
Torsion	IEC 60794-1-2-E7	100N, 5 cycles, 360°	$\Delta\alpha \leq 0.05$ dB, no damage

## FIRE RESISTANT

Flame propagation	IEC 60332-3-24
Corrosive gas emission	BS EN 60754-2, EN 60754-2, pH $\geq 4,3$ ; conductivity $\leq 2,5$ $\mu\text{S}/\text{mm}$ : <b>a1</b>
Smog density	IEC 61034-2 light transmittance values : <b>s2</b>

## FEATURES

- light and durable
- easy strippable secondary coating
- easy access to cable modules
- resistant to electromagnetic interferences
- UV resistant

## APPLICATIONS

Cables are designated for transmission of digital and analogue signals within the whole optical bandwidth used in the local, metropolitan and wide area networks.

- external access networks
- modern FTTH & cctv
- subscriber connections

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