

W-NOTKSd 1; 2; 4-24 Optical Fibre

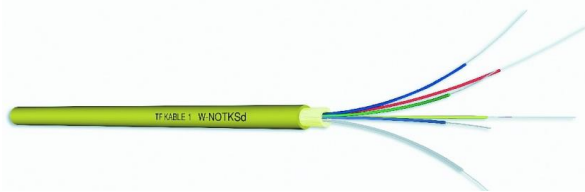
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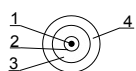


Type: indoor, halogen free, tight buffered

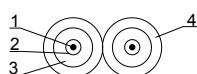


Cable construction:

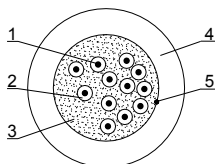
1. Optical fibres
2. Tight buffer tube
3. Reinforcement (aramid yarn)
4. Outer jacket
5. Ripcord



Cross section of Simplex cable



Cross section of Duplex cable



Cross section of 12 FO cable

CONSTRUCTION			
Element	Type	Material	Dimensions
Fibres	ITU-T G.652D or according to the attached specifications		
Identification of fibres	complies to IEC 60304: red, green, blue, white, violet, orange, grey, yellow, brown, pink, black, turquoise		
Secondary coating	tight buffer tube	LSOH	φ 0.9 mm
Tube colour	acc. to IEC 60304: red, green, blue, white, violet, orange, grey, yellow, brown, pink, black, turquoise for more than 12 elements, additionally black rings on the tube surface: red + ring, green + ring, blue + ring, white + ring, violet + ring, orange + ring, grey + ring, yellow + ring, brown + ring, pink + ring, white + 2xring, turquoise + ring		
Supporting elements/reinforcement	dielectric	aramid yarns	
Outer sheath	yellow for SMF green for MMF G62.5 orange for MMF G50 brown for NZDSF	extruded LSOH polymer density ≥ 1.45 g/cm ³	Thickness (average): Simplex 0.3-0.5 mm Duplex 0.3-0.5 mm 4-12 fibres 0.6 mm 14-16 fibres 0.7 mm 18-22 fibres 0.8 mm 24 fibres 1.0 mm
Ripcord(s)	under the outer sheath (used only in cables with 2 fibres and above)		
Attenuation @1310 nm	≤ 0.5 dB/km *)		
Attenuation @1550 nm	≤ 0.35 dB/km *)		
Marking/Printing:	FIBRE OPTIC CABLE W-NOTKSd 12J TF Kable 1 year of production (or according to the agreement). Length marking every metre.		
Standard delivery lengths	according to the agreement		

*) Max attenuation for SMF in cable - other parameters of the fibre according to the attached specification.

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PARAMETERS								
Cable type	No. of fibres in a cable	Outer diameter of tube [mm]	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)
Simplex	1	0.9	2.0	4.0	220	110	20	30
	1	0.9	2.4	4.9	300	150	24	35
	1	0.9	2.5	5.1	300	150	25	38
	1	0.9	2.8	7.6	380	190	28	42
	1	0.9	3.0	8.1	380	190	30	50
Duplex	2	0.9	2.0x4.0	8.1	440	220	20	30
	2	0.9	2.4x4.8	9.9	600	300	24	36
	2	0.9	2.5x5.0	10.2	600	300	25	38
	2	0.9	2.8x5.6	15.3	760	380	28	40
	2	0.9	3.0x6.0	16.2	760	380	30	50
Multifibre mini-breakout	4	0.9	4.3	15.9	800	400	45	70
	6	0.9	4.6	18.9	900	450	50	75
	8	0.9	4.8	21.6	1000	500	50	75
	10	0.9	5.5	25.8	1100	550	55	80
	12	0.9	5.7	28.0	1200	600	60	90
	14	0.9	6.4	35.2	1200	600	70	100
	16	0.9	7.5	40.7	1200	600	80	110
	18	0.9	7.8	47.2	1200	600	80	115
	20	0.9	8.0	50.1	1200	600	80	120
	22	0.9	8.2	53.0	1200	600	85	125
24	0.9	9.0	65.1	1200	600	90	140	

ADDITIONAL MECHANICAL PROPERTIES				
Test	Standard		Value	Acceptance criteria
Crush	IEC 60794-1-2-E3	Simplex/Duplex	500 N; t =1 min	$\Delta\alpha \leq 0.1$ dB @1550 nm (SMF) $\Delta\alpha \leq 0.2$ dB @1300 nm (MMF) no damage
		Multifibre	1000 N; t =15 min	
Impact	IEC 60794-1-2-E4	Simplex/Duplex	1 Nm, 3 impacts	$\Delta\alpha \leq 0.1$ dB @1550 nm (SMF) $\Delta\alpha \leq 0.2$ dB @1300 nm (MMF) no damage
		Multifibre	5 Nm, 3 impacts	
Repeat Bending	IEC 60794-1-2-E6	Simplex/Duplex	R=15xD; F=20N 100 cykli, 90°, 15 cycles/min	$\Delta\alpha \leq 0.1$ dB @1550 nm (SMF) $\Delta\alpha \leq 0.2$ dB @1300 nm (MMF) no damage
		Multifibre	R=15xD; F=40N 100 cykli, 90°, 15 cycles/min	
Torsion	IEC 60794-1-2-E7	Simplex/Duplex	20N, 5 cycles, 360°	$\Delta\alpha \leq 0.1$ dB @1550 nm (SMF) $\Delta\alpha \leq 0.2$ dB @1300 nm (MMF) no damage
		Multifibre	40N, 5 cycles, 360°	

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ENVIRONMENTAL SPECIFICATIONS

Temperature range		- transport/storage	-30/+70 °C
		- installation	-5/+60 °C
		- operation	-20/+60 °C

FEATURES

- fully dielectric
- resistant to electromagnetic interferences
- flexible
- easy installable
- can be installed in the proximity to electric installation
- can be used with any kind of connectors

The outer sheath is made of the flame retardant material that can be also non-halogen. The marking and the metric overprint are printed on the outer sheath.

APPLICATIONS

Cables are designated for transmission of digital and analogue signals within the whole optical bandwidth used in the local networks. They are prepared for installation in the closed spaces and making connections between optoelectronic devices.



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