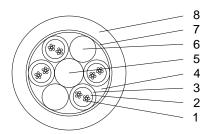


OUTDOOR-INDOOR CABLE FZOMSU-SD



 Optical fibres 	Jelly filling	3. Tube	4. Dry core
5. FRP rod	6. Filler	7. Wrapping	8. Sheath

Universal non-metallic optical fibre cable for both indoor and outdoor applications Application

(duct installation).

Construction Optical fibres Coloured single-mode fibres according to the

ITU-T G.652.D.

Secondary coating Jelly filled loose tubes made of thermoplastic

polyester.

Fillers Plastic fillers when applicable.

Central strength Glass fibre reinforced plastic (FRP). When applicable

coated with PE to increase the diameter. member

The secondary coating tubes and fillers (when needed) Cable core stranding

are SZ-stranded around the central strength member.

Wrapping The cable core is wrapped longitudinally with a water

blocking tape.

Rip cord A non-metallic rip cord is applied under the sheath. Outer sheath Flame retardant, halogen free and UV resistant plastic

> (LSZH). Colour of the sheath is orange. Minimum sheath thickness is 1.2 mm.

Nominal sheath thickness is 1,4 mm.

Cable is flame retardant according to the IEC 60332-1. Marking printed on the sheath at one meter interval: Sheath marking

Nestor Cables - cable type - lot number - year of

manufacture - length marking

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Maximum cabled fibre attenuation						
Wavelength	1310	1383	1550	1625	nm	
Attenuation	0,36	0,36	0,22	0,24	dB/km	

	Nominal dimensions						
Fib	Fibres		Diameter [mm]		Minimum bending radius [mm]		
Count	Grouping	Loose tube	Cable	Cable	During installation	Installed	
6	1×6	2,1	10,0	80	200	100	
12	1×12	2,1	10,0	80	200	100	
24	2×12	2,1	10,0	80	200	100	
48	4×12	2,1	10,0	82	200	100	
96	8×12	2,1	11,2	105	220	110	
192	8x2x12	3,0	14,9	174	300	150	

	Cable core lay-up 6F						
Fibres	Tubes	Fillers	Colour of the tubes	Fibres /	Group	Colour of the fibres	
				tube	yarns		
6	1	5	blue	6	-	blue, white, yellow, green, grey, red or orange	

	Cable core lay-up 12-192F					
Fibres	Tubes	Fillers	Colour of the tubes	Fibres / tube	Group yarns	Colour of the fibres
12	1	5	blue	12	-	blue, white, yellow, green, grey, orange, brown, aqua, black, violet, pink, red
24	2	4	blue, white	12	-	blue, white, yellow, green, grey, orange, brown, aqua, black, violet, pink, red
48	4	2	blue, white, yellow, green	12	-	blue, white, yellow, green, grey, orange, brown, aqua, black, violet, pink, red
96	8	0	blue, white, yellow, green, grey, orange, brown, aqua	12	-	blue, white, yellow, green, grey, orange, brown, aqua, black, violet, pink, red
192	8	0	blue, white, yellow, green, grey, orange, brown, aqua	24	blue, white	blue, white, yellow, green, grey, orange, brown, aqua, black, violet, pink, red
Colour	Colour of the fillers is black or natural.					
Colour coding standard			FIN2012			

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Mechanical characteristics (IEC60794-1-2)					
Max. tension	-Fibre elongation ≤ 0.33%, no change (≥0,05 dB) in	12 – 48 fibres: 1800 N			
	attenuation after the test.	96 – 192 fibres: 2800 N			
Crush strength	-100 mm plate, during operation. No change (≥0,05 dB)				
-	in attenuation during the test.	1500 N			
	-100 mm plate, during installation. No change (≥ 0.05 dB)				
	in attenuation after test	3000 N			
	-25 mm mandrel, during installation. No change (≥ 0.05	500 N			
	dB) in attenuation after test				
Bending radius	-During installation	20 x Diameter			
	-Final installation	10 x Diameter			
Impact	-Energy	20 J, one impact			
Torsion	-Number of turns	±1, (length 1000 mm)			
Temperature range	-Operation, storage, transport	-45 to +60 °C			
	-Installation	-15 to +60 °C			
Water penetration		< 3 m, 24 h			

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