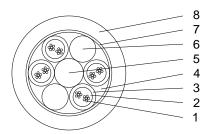


OUTDOOR-INDOOR CABLE FZOMSU-SD



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

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

(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

member coated with PE to increase the diameter.

Cable core stranding The secondary coating tubes and fillers (when

needed) 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.

Sheath marking Marking printed on the sheath at one meter interval:

Nestor Cables - cable type - lot number - year of

manufacture - length marking

Standard references Cable properties IEC 60794-3-11

Test methods IEC 60794-1-2x Flame retardant IEC 60332-1-2 Halogen free IEC/EN 60754-2

Reaction to fire EN50575:2014+A1:2016 class Eca

CE

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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						
Fibres		Diameter [mm]		Weight [kg/km]	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	16×12	2,1	14,2	157	280	140	
192	8×2×12	3,0	14,9	174	300	150	

	Cable core lay up 6F				
Fibres	Tubes	Fillers	Colour of the tubes		
6	1	5	blue		
Colour of the fillers		S	black or natural		
Colour of the fibres		S	blue, white, yellow, green, grey, red		
Colour coding standard		ndard	SFS 5648		

	Cable core lay up 12 – 192F				
Fibres	Tubes	Fillers	Colour of the tubes		
12	1	5	blue		
24	2	4	blue, white		
48	4	2	blue, white, yellow, green		
96	8	0	blue, white, yellow, green, grey, orange, brown, aqua		
192	16	2	First layer:		
			blue, white, yellow, green		
			Second layer:		
			grey, orange brown, turquoise, black, violet, pink, red, blue/black, white/black,		
			yellow/black, green/black		
Colour of the fillers		S	black or natural		
Colour of the fibres		S	blue, white, yellow, green, grey, orange, brown, turquoise, black, violet, pink,		
			red		
Colour coding standard FIN2012		FIN2012			

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

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Cable characteristics					
Max. tension	-Fibre elongation ≤ 0.33%, no change (≥0,05 dB) in attenuation after the test.	12 – 48 F: 1800 N 96 F: 2800 N 192 F 16×12: 1800 N			
		192 F 8×2×12: 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			
Reaction to fire	- EN50575:2014+A1:2016	Eca			

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