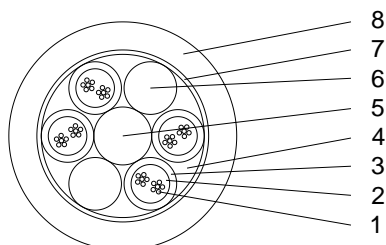


INDOOR-OUTDOOR CABLE FZOMSU–SD MINI



1. Optical fibres	2. Jelly filling	3. Tube	4. Dry core
5. FRP rod	6. Filler	7. Strength members	8. Sheath

Application	Rodent protected 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 member	Glass fibre reinforced plastic (FRP).	
	Cable core stranding	The secondary coating tubes and fillers (when needed) are SZ-stranded around the central strength member.	
	Strength members	Single layer of E-glass yarns under the sheath for tensile strength and rodent protection.	
	Rip cord	A non-metallic rip cord is applied under the sheath.	
Standard references	Outer sheath	Flame retardant, halogen free and UV resistant plastic (LSZH). Colour of the sheath is black. Nominal sheath thickness is 1,2 mm.	
	Sheath marking	Marking printed on the sheath at one meter interval: Nestor Cables - cable type - lot number - year of manufacture - length marking	
	Test methods	IEC 60794-1-2x	
	Flame retardant	IEC 60332-1	
	Halogen free	IEC/EN 60754-2	
	Reaction to fire	EN50575:2014+A1:2016 class Dca -s2,d2,a2	



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	Dynamic	Static
12	1×12	1,5	7,8	63	160	80
24	2×12	1,5	7,8	63	160	80
48	4×12	1,5	7,8	63	160	80
96	8×12	1,5	8,5	78	170	85

Cable core lay up.			
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, turquoise
Colour of the fillers		black or natural	
Colour of the fibres		blue, white, yellow, green, grey, orange, brown, turquoise, black, violet, pink, red	
Colour coding standard		FIN2012	

Cable characteristics			
Max. tension			12 – 48F
	Short term during installation, fibre elongation ≤ 0,33%.		1700 N
	Long term, fibre elongation ≤ 0,2%.		1000 N
Crush	Operation: With 100 mm plate, no change (≥ 0,05 dB) in attenuation during test.		1000 N
Impact	Impact head diameter 50 mm, radius 300 mm		2 J, one impact
Bending radius	During installation (dynamic)		20 x Diameter
	Final installation (static)		10 x Diameter
Temperature range	Operation, storage, transport		-40 to +70 °C
	Installation		-15 to +60 °C
Water penetration			< 3 m, 24 h
Reaction to fire	- EN50575:2014+A1:2016		Dca -s2,d2,a2

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