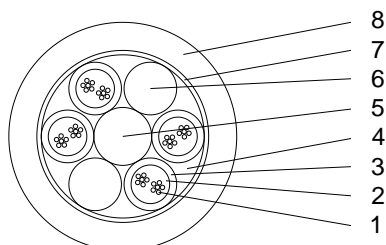


## OUTDOOR-INDOOR CABLE FZOMSU-SD OM4



1. Optical fibres	2. 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 Suitable also for underground installation in ducts.	
Construction	Optical fibres	OM4 multi-mode fibres.
	Secondary coating	Single-mode fibres according to the ITU-T G.652.D Jelly filled loose tubes made of thermoplastic polyester.
	Fillers	Black 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.
	Wrapping	The cable core is wrapped longitudinally with a water blocking tape.
	Rip cord Outer sheath	A non-metallic rip cord is applied under the 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 60754-2
	Reaction to fire	EN50575:2014+A1:2016 class Eca



<b>OM4 multimode fibre, cabled fibre attenuation and bandwidth</b>			
Wavelength	850	1300	nm
Attenuation, max	2,4	0,7	dB/km
Bandwidth laser EMB, min	4700	500	MHz×km
Bandwidth OFL, min	3500	500	MHz×km

<b>Single-mode fibre, maximum cabled fibre attenuation</b>					
Wavelength	1310	1383	1550	1625	nm
Attenuation	0,36	0,36	0,22	0,24	dB/km

<b>Nominal dimensions</b>						
Fibres		Diameter [mm]		Weight [kg/km]	Minimum bending radius [mm]	
Count	Grouping	Loose tube	Cable	Cable	During installation	Installed
24	2×12	2,1	10,0	80	200	100
48	4×12	2,1	10,0	82	200	100

<b>Cable core lay up</b>			
Fibres	Tubes	Fillers	Colour of the tubes
12OS2+12OM4	2	2	OS2: blue OM4: red
24OS2+24OM4	4	2	OS2: blue, white OM4: grey, red
Colour of the fillers			black or natural
Colour of the fibres			blue, white, yellow, green, grey, orange, brown, turquoise, black, violet, pink, red

<b>Cable characteristics</b>		
Max. tension	-Fibre elongation $\leq 0.33\%$ , no change ( $\geq 0,05$ dB) in attenuation after the test.	1500 N
Crush strength	-100 mm plate, during operation. No change ( $\geq 0,05$ dB) in attenuation during the test.	1500 N
	-100 mm plate, during installation. No change ( $\geq 0.05$ dB) in attenuation after test	3000 N
	-25 mm mandrel, during installation. No change ( $\geq 0.05$ dB) in attenuation after test	500 N
Bending radius	-During installatio (dynamic)	20 x Diameter
	-Final installation (static)	10 x Diameter
Impact	-Energy	20 J, one impact
Torsion	-Number of turns	$\pm 1$ , (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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