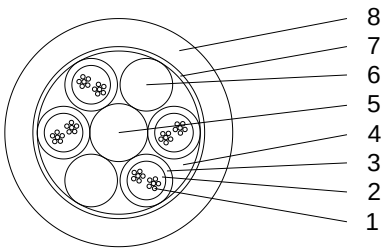
OUTDOOR MICRO DUCT CABLE FZOMU-SD MICRO



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

Application	Non-metallic optical fibre cable for microduct installation by blowing.	
Construction	Optical fibres	Coloured single-mode fibres according to the ITU-T G.652.D. Ring-marking applied on fibres in 24F tube.
	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.
	Water blocking	Dry water blocking elements are applied to the cable core.
	Rip cord	A non-metallic rip cord is applied under the sheath.
	Outer sheath	UV resistant black polyethylene compound (HDPE). Nominal sheath thickness is 0,5 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 60794-5-10
	Test methods	IEC 60794-1-2x
	Halogen free	IEC/EN 60754-2
	Reaction to fire	EN50575:2014+A1:2016 class Fca

CE

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	CSM (FRP)	Loose tube	Cable	Cable	Dynamic	Static
12	1×12	1,6	1,5	5,6	24	120	80
24	2×12	1,6	1,5	5,6	24	120	80
48	4×12	1,6	1,5	5,6	25	120	80
96	8×12	2,3	1,5	6,4	36	130	120
144	6×24	2,1	2,0	7,0	38	140	110
192	8×24	3,2/2,1	2,0	8,1	51	160	110

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
144	6	0	blue, white, yellow, green, grey, orange
192	8	0	blue, white, yellow, green, grey, orange, brown, turquoise
Colour of the fillers			natural
Colour of the fibres			blue, white, yellow, green, grey, orange, brown, turquoise, black, violet, pink, red
Colour of the fibres, 24F tube (144 and 192F cable)			Fibres 1–12: blue, white, yellow, green, grey, orange, brown, turquoise, black, violet, pink, red, Fibres 13-24, ring marking applied: blue/black, white/black, yellow/black, green/black, grey/black, orange/black, brown/black, turquoise/black, clear/black, violet/black, pink/black, red/black
Colour coding standard			FIN2012

Cable characteristics			
Max. tension		12 – 72F	96F – 192F
	in operation, fibre elongation ≤ 0.05%.	250 N	250 N
	installation, fibre elongation ≤ 0.33%.	750 N	1000 N
Crush strength	Operation: With 100 mm plate, no change (≥ 0.05 dB) in attenuation during test.	500 N	
	Installation: With 100 mm plate, no change (≥ 0.05 dB) in attenuation after the 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)	50 x CSM (FRP) diameter	
Torsion	- Number of turns	±1, (length 1000 mm)	
Temperature range	- Operation, storage, transport	-40 to +60 °C	
	- Installation	-15 to +60 °C	
Water penetration		< 3 m, 24 h	
Reaction to fire	- EN50575:2014+A1:2016	Fca	