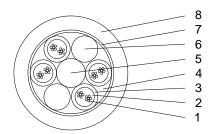


OUTDOOR-INDOOR CABLE FZMSU



 Optical fibres 	Dry tube	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 in ground). No jelly inside the loose tubes nor

cable core.

Construction Optical fibres Coloured single-mode fibres according to the

ITU-T G.652.D.

Secondary coating Dry loose tubes made of thermoplastic material.

Water-blocking yarn in each tube.

Fillers Plastic fillers when applicable.

Central strength Glass fibre reinforced plastic.

member

needed) are SZ-stranded around the central strength

member.

Water blocking
Dry water blocking elements are applied to the cable

core.

Wrapping Fire retardant 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 1.3 mm. Nominal sheath thickness is 1,5 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 60794-3-11

Test methods IEC 60794-1-2x

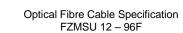
Flame retardant IEC 60332-1-2, IEC 60332-3

Low smoke IEC 61034-2 Halogen free IEC/EN 60754-2

Reaction to fire EN50575:2014+A1:2016 class Cca -s1a,d0,a1

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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					
Fik	ores	Diamet	er [mm]	Weight [kg/km]		nding radius m]
Count	Grouping	Loose tube	Cable	Cable	During installation	Installed
12	1×12	2,3	11,0	121	220	110
24	2×12	2,3	11,0	119	220	110
48	4×12	2,3	11,0	115	220	110
96	8×12	2,3	12,5	143	260	130

Cable core lay up 12 – 192F				
Fibres	Tubes	Fillers	Colour of the tubes	
12	1	4	blue	
24	2	3	blue, white	
48	4	1	blue, white, yellow, green	
96	8	0	blue, white, yellow, green, grey, orange, brown, aqua	
Colour	of the filler	S	black or natural	
Colour of the fibres		S	blue, white, yellow, green, grey, orange, brown, turquoise, black, violet, pink,	
			red	
Colour o	oding sta	ndard	FIN2012	

Cable characteristics				
Max. tension	1500 N			
	attenuation after the test.			
Crush strength	-100 mm plate, during operation. No change (≥0,05 dB) in			
	attenuation during the test.	800 N		
	-100 mm plate, during installation. No change (≥ 0.05 dB)			
	in attenuation after test	1500 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	5 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	Cca -s1a,d0,a1		

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