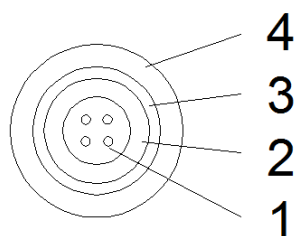


OUTDOOR-INDOOR CABLE FYORMSU 1,8 kN



1. Optical fibres	2. Core tube	3. Strength members	4. Outer sheath
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Application	Non-metallic rodent protected optical fibre cable. Suitable for both indoor and outdoor (duct) installation.		
Construction	Optical fibres	Coloured single-mode fibres according to the ITU-T G.657.A1	
	Secondary coating	A plastic core tube with jelly filling.	
	Strength members	Water-blocked E-glass yarns under the sheath.	
	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. 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	
Standard references	Cable properties	IEC 60794-3-11	
	Test methods	IEC 60794-1-2x	
	Flame retardant	IEC 60332-1-2	
	Low smoke	IEC 61034-2	
	Halogen free	IEC 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	Core tube	Cable	Cable	Dynamic	Static
4	1×4	2,8	7,0	53	140	70
8	1×8	2,8	7,0	53	140	70
12	1×12	3,5	7,5	59	150	75
24	2×12	3,5	7,5	59	150	75

Lay-up and colour of the fibres and group yarns			
Number of fibres	Lay-up	Colour of the group yarns	Colour of the fibres
4	1×4	--	blue, white, yellow, green
8	1×8	-	blue, white, yellow, green, grey, orange, brown, aqua
12	1×12	-	blue, white, yellow, green, grey, orange, brown, aqua, black, violet, pink, red
24	2×12	blue, white	
Colour coding standard			FIN2012

Cable characteristics		
Max. tension	- Short term, fibre elongation $\leq 0.6 \%$	1800 N
	- Long term, fibre elongation $\leq 0.33 \%$	800 N
Crush strength	-With 100 mm plate, no change in attenuation	3000 N
Bending radius	- During installation (dynamic)	20 x Diameter
	- Final installation (static)	10 x Diameter
Impact	- Energy	5 J, one impact
Torsion	- Number of turns	± 1 , (length 1000 mm)
Temperature range	- Operation	-40 to +70 °C
	- Installation	-15 to +60 °C
	- Storage, transport	-40 to +70 °C
Water penetration		< 3 m, 24 h
Reaction to fire	- EN50575:2014+A1:2016	Dca -s2,d2,a2

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