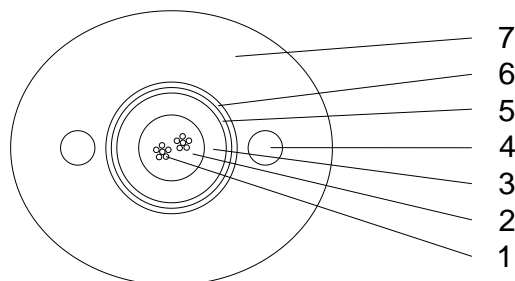


DIRECT BURIED CABLE FYOVD2PMU



1. Optical fibres	2. Jelly filling	3. Core tube	4. Steel wire
5. Wrapping	6. Steel tape	7. Sheath	

Application	Universal optical fibre cable for direct buried or duct installation.	
Construction	Optical fibres	Coloured single-mode-fibres according to the ITU-T G.652.D.
	Secondary coating	A plastic core tube with jelly filling.
	Wrapping	The cable core is wrapped longitudinally with a water blocking tape.
	Protection	Polymer coated corrugated steel tape applied longitudinally with an overlap. Minimum overlap is 3 mm. The nominal thickness of the steel tape is 0,15 mm.
	Strength members	Two 1,6 mm high tensile strength steel wires in the sheath.
	Outer sheath	UV resistant black polyethylene compound. Nominal sheath thickness is 2,3 mm. Minimum sheath thickness is 1,5 mm, from wire to outer surface 1,0 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
	Halogen free	IEC/EN 60754-2
	Reaction to fire	EN50575:2014+A1:2016 class Fca



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 width	Cable height	Average	Cable	Dynamic	Static
4	1x4	5,0	13,8	11,5	12,7	171	230	115
6	1x6	5,0	13,8	11,5	12,7	171	230	115
12	1x12	5,0	13,8	11,5	12,7	171	230	115
24	2x12	5,0	13,8	11,5	12,7	171	230	115
48	4x12	6,0	14,3	12,9	13,6	192	260	130
96	2x4x12	7,0	15,2	13,9	14,6	215	280	140

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	1x4	-	blue, white, yellow, green
6	1x6	-	blue, white, yellow, green, grey, orange
12	1x12	-	blue, white, yellow, green, grey, orange, brown, turquoise, black, violet, pink, red
24	2x12	blue, white	brown, turquoise, black, violet, pink, red
48	4x12	blue, white, yellow, green	
96	2x4x12	blue (blue, white, yellow, green) white (blue, white, yellow, green)	
Colour coding standard			FIN2012

Cable characteristics		
Max. tension	- Installation, fibre elongation $\leq 0,33\%$, no change in attenuation after test.	5000 N
	- Operation, fibre elongation $\leq 0,05\%$, no change in attenuation during test.	3500 N
Crush strength	-With 100 mm plate, %, no change in attenuation during test.	8000 N
	-With 25 mm mandrel, %, no change in attenuation during test.	2000 N
Bending radius	- During installation (dynamic)	20 x Diameter
	- Final installation (static)	10 x Diameter
Impact	- Energy	30 J, one impact
Torsion	- Number of turns	± 1 , (length 1000 mm)
Temperature range	- Operation, storage, transport	-45 to +70 °C
	- Installation	-15 to +70 °C
Water penetration		< 3 m, 24 h
Reaction to fire	- EN50575:2014+A1:2016	Fca

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