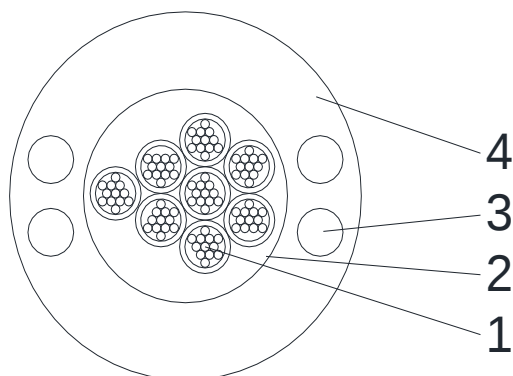


DUCT/DIRECT BURIED CABLE FZ4RMU FLEX 3,5 kN



1. Flexible fibre tubes	2. Dry core	3. Strength members	4. Outer sheath
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Application	Non-metallic optical fibre cable for duct or direct buried installation.		
Construction	Optical fibres	Coloured single-mode fibres according to the ITU-T G.652.D	
	Secondary coating	Flexible colour coded fibre modules. Fibres are housed in thin walled tubes made of soft elastomeric material.	
	Wrapping	Water blocking tape.	
	Strength members	Four glass fibre reinforced plastic rods (FRP) in the sheath. Rod nominal diameter 1,6 mm.	
	Outer sheath	UV resistant black polyethylene compound (HDPE). Nominal sheath thickness is 2,6 mm. Minimum sheath thickness is 2,3 mm, from wire to outer surface 0,3 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 60754-2, EN 50267-2-1, EN 50267-2-2	
	Reaction to fire	EN50575:2014+A1:2016 class Fca	



Maximum cabled fibre attenuation					
Wavelength	1310	1383	1550	1625	nm
Attenuation	0,35	0,35	0,22	0,24	dB/km

Nominal dimensions								
Fibres		Diameter [mm]				Weight [kg/km]	Minimum bending radius [mm]	
Count	Grouping	Fibre tube	Cable			Cable	Dynamic	Static
12	1×12	1,5	8,5			58	180	90
24	2×12	1,5	10,1			74	200	100
48	4×12	1,5	10,1			78	200	100
96	8×12	1,5	11,4			96	220	110
192	16×12	1,5	13,4			127	260	130

Cable core lay up 48 – 192F		
Fibres	Modules	Colour of the modules
12	1	blue
24	2	blue, white
48	4	blue, white, yellow, green
96	8	blue, white, yellow, green, grey, orange, brown, turquoise
192	16	blue, white, yellow, green, grey, orange brown, turquoise, black, violet, pink, red, blue/black, white/black, yellow/black, green/black
Colour of the fibres		blue, white, yellow, green, grey, orange, brown, turquoise, black, violet, pink, red
Colour coding standard		FIN2012

Cable characteristics		
Max. tension	- During installation -Fibre elongation $\leq 0.6\%$, no change ($\geq 0,05$ dB) in attenuation after test.	3500 N
Crush strength	-With 100 mm plate	4000 N
	-With 25 mm mandrel	1000 N
Bending radius	- During installation (dynamic)	20 x Diameter
	- Final installation (static)	10 x Diameter
Impact	- Energy	20 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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