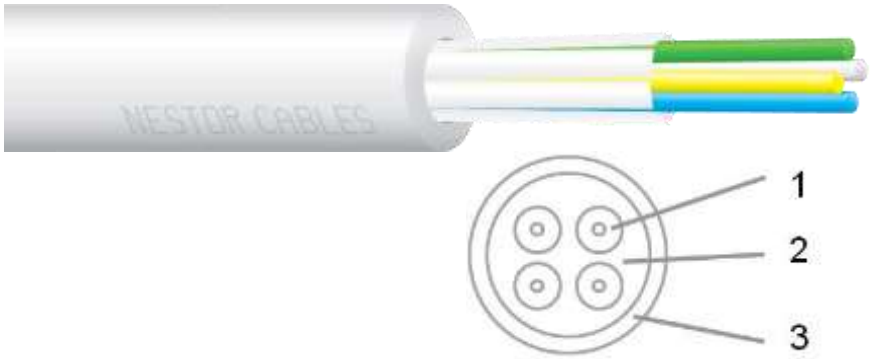
INDOOR/OUTDOOR CABLE FTMSU G.657.A1



1. Optical fibres	2. Strength members	3. Outer sheath

Application	Non-metallic tight-buffered optical fibre cable for indoor FTTX applications. (riser, distribution and drop cable)	
Construction	Optical fibres	SM G652D / G 657.A1 single-mode fibers OM1,OM2,OM3,OM4 multi-mode fibres.
	Secondary coating	Tight buffer, outer diameter 900 µm.
	Strength members	Glass yarns with water-blocking coating under the sheath.
	Outer sheath	Flame retardant, halogen free and UV resistant plastic (LSZH). Colour of the sheath is light grey RAL 7035. Nominal sheath thickness is 1,0 mm. Cable is flame retardant according to the IEC 60332-1-2 and IEC 60332-3.
	Sheath marking	Marking printed on the sheath at one meter interval: Nestor Cables - cable type - year of manufacture - length marking
Standard references	Cable properties	IEC 60794-2-21
	Test methods	IEC 60794-1-2x
	Flame retardant	IEC 60332-3
	Low smoke	IEC 61034-2
	Halogen free	IEC/EN 60754-2
	Reaction to fire	EN50575:2014+A1:2016 class Dca -s2,d2,a2

CE

Maximum cabled fibre attenuation SM					
Wavelength	1310	1383	1550	1625	nm
Attenuation	0,37	0,37	0,23	0,25	dB/km

OM1 multimode fibre, cabled fibre attenuation and bandwidth			
Wavelength	850	1300	nm
Attenuation, max	3,0	1,0	dB/km
Bandwidth laser EMB, min	ns	ns	MHz×km
Bandwidth OFL, min	200	500	MHz×km

OM2 multimode fibre, cabled fibre attenuation and bandwidth			
Wavelength	850	1300	nm
Attenuation, max	3,0	1,0	dB/km
Bandwidth laser EMB, min	ns	ns	MHz×km
Bandwidth OFL, min	500	500	MHz×km

OM3 multimode fibre, cabled fibre attenuation and bandwidth			
Wavelength	850	1300	nm
Attenuation, max	3,0	1,0	dB/km
Bandwidth laser EMB, min	2000	ns	MHz×km
Bandwidth OFL, min	1500	500	MHz×km

OM4 multimode fibre, cabled fibre attenuation and bandwidth			
Wavelength	850	1300	nm
Attenuation, max	3,0	1,0	dB/km
Bandwidth laser EMB, min	4700	ns	MHz×km
Bandwidth OFL, min	3500	500	MHz×km

Nominal dimensions					
Fibres		Diameter [mm]	Weight [kg/km]	Minimum bending radius [mm]	
Count	Grouping	Cable	Cable	Dynamic	Static
4	1×4	5,3	28	100	50
12	1×12	7,4	51	140	70
24	1×24	8,3	67	160	80

Colour of the fibres	
Number of fibres	Colour of the fibres
4	blue, white, yellow, green
12	blue, white, yellow, green, grey, orange, brown, aqua, black, violet, pink, red
24	blue/black, white/black, yellow/black, green/black, grey/black, orange/black, brown/black, aqua/black, black/white, violet/black, pink/black, red/black
Colour coding standard	FIN2012

Cable characteristics		
Max. tension	- During installation, max fibre strain 0,6 %	500 N
Crush strength	-With 100 mm plate	2000 N
	-With 25 mm mandrel	500 N
Bending radius	- During installation (dynamic)	20×D
	-Final installation (static)	10×D
Impact	-Energy	5 J, one impact
Torsion	- Number of turns	±1, (length 1000 mm)
Temperature range	- Operation	-45 to +60 °C
	- Installation, storage, transport	-15 to +60 °C
Reaction to fire	- EN50575:2014+A1:2016	Dca -s2,d2,a2