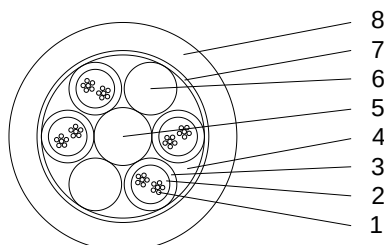


Fiberworks K-LTMC-R-OS2-G24-1m

INDOOR-OUTDOOR CABLE QXAI MINI

FZOMSU-SD MINI



1. Optical fibres	2. Jelly filling	3. Tube	4. Dry core
5. FRP rod	6. Filler	7. Strength members	8. Sheath

Application Universal non-metallic optical fibre cable for both indoor and outdoor applications (duct installation).

Construction

Optical fibres	Coloured single-mode fibres according to the ITU-T G.652.D. (Corning ®)
Secondary coating	Jelly filled loose tubes made of thermoplastic polyester.
Fillers	Plastic fillers when applicable.
Central strength member	Glass fibre reinforced plastic (FRP).
Cable core stranding	The secondary coating tubes and fillers (when needed) are SZ-stranded around the central strength member.
Strength members	A helically stranded layer of waterblocking fiberglass yarns over the cable core.
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 red. Nominal sheath thickness is 1,2 mm.
Sheath marking	Cable is flame retardant acc. the IEC 60332-1. Marking printed on the sheath at one meter interval: Nestor Cables - cable type - lot number - year of manufacture - length marking

Standard references

Test methods	IEC 60794-1-2x
Flame retardant	IEC 60332-1
Low smoke	IEC 61034-2
Halogen free	IEC 60754-1 and 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	Loose tube	Cable	Cable	Dynamic	Static
12	1×12	1,5	7,8	63	160	80
24	2×12	1,5	7,8	63	160	80
48	4×12	1,5	7,8	63	160	80
96	8×12	1,5	8,5	78	160	80
144	12×12	1,5	10,4	110	220	110

Cable core lay up			
Fibres	Tubes	Fillers	Colour of the tubes
12	1	5	red
24	2	4	red, green
48	4	2	red, green, white, white
96	8	0	red, green, white, white, white, white, white, white
144	12	0	red, green, white, white, white, white, white, white, white, white, white, white
Colour of the fillers		natural	
Colour of the fibres		white, red, yellow, green, blue, grey, brown, black, violet, turquoise, orange, pink	
Colour coding standard		Norway	

Cable characteristics IEC60794-1-2x			
Max. tension E1			12 – 48F
			96 – 144FF
	During installation fibre elongation ≤ 0,33%.		1800
	During operation (permanent load)		1000
Crush E3	Operation: With 100 mm plate, no change (≥ 0,05 dB) in attenuation during test.		1000 N
Bending radius E11	During installation (dynamic)		20 x Diameter
	Final installation (static)		10 x Diameter
Impact E4	Impact head diameter 50 mm, radius 300 mm		2 J, one impact
Torsion E7	- Number of turns		±1, (length 1000 mm)
Temperature range F1	Operation, storage, transport		-40 to +70 °C
	Installation		-15 to +60 °C
Water penetration F5			< 3 m, 24 h
Reaction to fire	- EN50575:2014+A1:2016		Dca -s2,d2,a2

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