

FIBRE OPTIC CABLES

MINI singlemode

SXKO-MINI-8-OS-HDPE



Outer jacket

Cable secondary protection

Cable type acc. to the number of tubes

Operating temperature

Installation temperature

Storage temperature

Fibre type

Diameter of the primary protection

Short-term tensile resistance

Short-term pressure resistance

Minimum bend radius (short term)

Minimum bend radius (long-term)

Cable diameter

Cable weight

The number of fibres in the tube

HDPE,
reaction to fire F_{ca}
gel-filled tube
MLT
-20 to +60 °C
-15 to +60 °C
-20 to +60 °C
G.657.A1/G.657.A2 OS2
250 µm
200 N
1 500 N/10 cm
20x D cable
15x D cable
2,7 mm
5,4 kg/km
2-12

Solarix MINI air blow-in fibre optic cables SXKO-MINI-OS-HDPE reaction to fire F_{ca} are suitable for blowing into micro tubes thanks to the high viscosity HDPE jacket that allows the cable to slide easily along the inner side of the tube. The fibres themselves are stored in a central gel-filled tube to protect them from moisture. They are always placed with a maximum of 12 fibres per tube. The fibre optic cable has no metallic elements and is fully dielectric. It contains aramid yarns to increase mechanical resistance. The fibre itself is of the G.657A1 OS2 type and is fully compatible with G.652.D OS2 fibres.

Part No.

Description

SXKO-MINI-2-OS-HDPE

Air blowing cable MINI Solarix 2f 9/125 HDPE F_{ca}, black

SXKO-MINI-4-OS-HDPE

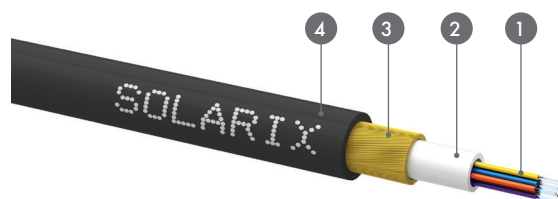
Air blowing cable MINI Solarix 4f 9/125 HDPE F_{ca}, black

SXKO-MINI-8-OS-HDPE

Air blowing cable MINI Solarix 8f 9/125 HDPE F_{ca}, black

SXKO-MINI-12-OS-HDPE

Air blowing cable MINI Solarix 12f 9/125 HDPE F_{ca}, black



Cable construction

1. Fibres
2. Gel-filled tube
3. Aramid yarn
4. Outer jacket

SXKO-MINI-12-OS-HDPE



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FIBRE OPTICS

Optical Fibres Parameters

Singlemode Fibres Basic Parameters

Geometric Parameters	Unit	ITU-T G.657.A1	ITU-T G.657.A2
Mode Field Diameter (MFD)			
@ 1 310 nm	μm	8,9 ± 0,4	8,6 ± 0,4
@ 1 550 nm	μm	10,1 ± 0,5	10,0 ± 0,5
Cladding diameter	μm	125 ± 0,7	125 ± 0,7
Coating diameter	μm	242 ± 5,0 (uncolored)	242 ± 5,0
Core-Cladding Concentricity Error	μm	≤ 0,5	≤ 0,5
Cladding-Coating Concentricity Error	μm	≤ 12	≤ 12
Transmission Parameters			
Attenuation			
@ 1 310 nm	dB/km	0,33 - 0,40 ¹⁾	0,33 - 0,40 ¹⁾
@ 1 550 nm	dB/km	0,22 - 0,30 ¹⁾	0,22 - 0,30 ¹⁾
@ 1 625 nm	dB/km	0,25 - 0,32 ¹⁾	0,25 - 0,32 ¹⁾
Dispersion Coefficient			
@ 1 550 nm	ps/(nm*km)	≤ 18	≤ 18
@ 1 625 nm	ps/(nm*km)	≤ 22	≤ 22
PMD individual fibre	ps/√km	0,1	0,1
Cable Cutoff Wavelength λ _{cc}	nm	≤ 1 260	≤ 1 260
Fibre Cutoff Wavelength λ _c	nm	1 150 - 1 330	1 150 - 1 330

¹⁾ A typical value for fibres in loose tube cables.

FIBRE OPTICS

Color Coding for Fibres and Tubes

Fibres Color Coding

Fibre	1	2	3	4	5	6	7	8	9	10	11	12
Colour	blue	orange	green	braun	grey	white	red	black	yellow	purple	pink	turquoise

Fibre	13	14	15	16	17	18	19	20	21	22	23	24
Colour ¹⁾	blue	orange	green	braun	grey	white	red	black	yellow	purple	pink	turquoise

¹⁾ Colour with a strip

Tubes Color Coding for MLT Cables

Tube	1	2	3	4	5	6	7	8	9	10	11	12
Colour	blue	orange	green	braun	grey	white	red	black	yellow	purple	pink	turquoise

Tubes Color Coding for MLT Cables

Tube	1	2	3	4
Colour	red	green	natural	natural