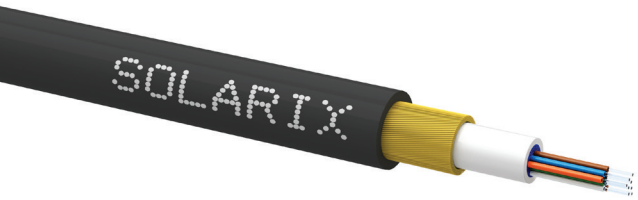
FIBRE OPTIC CABLES

MINI singlemode

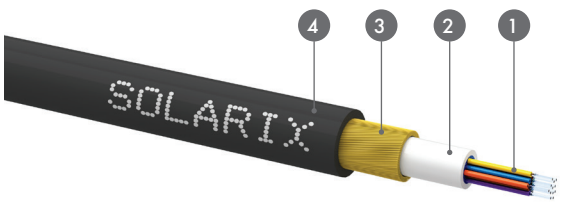


SXKO-MINI-8-OS-HDPE

Outer jacket	HDPE, reaction to fire F_{ca}
Cable secondary protection	gel-filled tube
Cable type acc. to the number of tubes	MLT
Operating temperature	-20 to +60 °C
Installation temperature	-15 to +60 °C
Storage temperature	-20 to +60 °C
Fibre type	G.657.A1 or G.657.A2
Diameter of the primary protection	250 µm
Short-term tensile resistance	200 N
Short-term pressure resistance	1 500 N/10 cm
Minimum bend radius (short term)	15x D cable
Minimum bend radius (long-term)	20x D cable
Cable diameter	2,7 mm
Cable weight	5,4 kg/km
The number of fibres in the tube	2–12

Solarix MINI air blow-in fibre optic cables SXKO-MINI-OS-HDPE reaction to fire Fca 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 type and is fully compatible with G.652.D 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



SXKO-MINI-12-OS-HDPE

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

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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 Wavelenght λcc	nm	≤ 1 260	≤ 1 260
Fibre Cutoff Wavelenght λc	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