SXKO-DROP-12-OS-LSOHFR

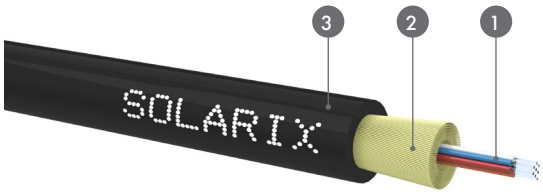
FIBRE OPTIC CABLES

DROP singlemode

Outer jacket	**LSOH, UV stable reaction to fire E_{ca}**
Operating temperature	**-20 to +60 °C**
Installation temperature	**-5 to +50 °C**
Storage temperature	**-20 to +60 °C**
Fibre type	**G.657.A1 OS1**
Diameter of the primary protection	**250 µm**
Short-term tensile resistance	**1 000 N**
Short-term pressure resistance	**1 000 N/10 cm**
Minimum bend radius (short term)	**15x D cable**
Minimum bend radius (long-term)	**10x D cable**
Cable diameter	**2f: 2,8 mm, 4f: 3,0 mm, 8f: 3,0 mm, 12f: 3,2 mm, 16f: 3,6 mm, 24f: 3,9 mm**
Cable weight	**2f: 8,9 kg/km, 4f: 9,8 kg/km, 8f: 10,2 kg/km, 12f: 11,2 kg/km, 16vl: 11,2 kg/km, 24f: 14,3 kg/km**
The number of fibres in the tube	**2–24**

Solarix DROP fibre optic cables SXKO-DROP-OS-LSOH reaction to fire E_{ca} are suitable for indoor and outdoor installations. The outer jackets of the cables LSOH are made of low smoke, and halogen free compound, which is also complemented by UV stable material. The fibre optic cable has a very high tensile strength of 1 000 N. The fibres G.657.A2 OS1 have a high degree of flexibility, allowing excellent installation properties to be achieved in confined spaces and wherever there is a need for more separate joints.

Recommended clamp the „@" mini for fibre optic DROP cable is optimised to fully respect the minimum bending radius of the cable. This ensures zero attenuation or takes negligible values. There is no deformation of the cable, nor does it shift the fibres inside the cable. Clamp design ensures easy and safe installation.



Cable construction
1. Fibres
2. Aramid yarn
3. Outer jacket

SXKO-DROP-8-OS-LSOHFR

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Part No.	Description
SXKO-DROP-2-OS-LSOH	DROP1000 cable Solarix 2f 9/125, 2,8 mm LSOH E_{ca}, black
SXKO-DROP-4-OS-LSOH	DROP1000 cable Solarix 4f 9/125, 3,0 mm LSOH E_{ca}, black
SXKO-DROP-8-OS-LSOH	DROP1000 cable Solarix 8f 9/125, 3,0 mm LSOH E_{ca}, black
SXKO-DROP-12-OS-LSOH	DROP1000 cable Solarix 12f 9/125, 3,2 mm LSOH E_{ca}, black
SXKO-DROP-16-OS-LSOH	DROP1000 cable Solarix 16f 9/125, 3,6 mm LSOH E_{ca}, black
SXKO-DROP-24-OS-LSOH	DROP1000 cable Solarix 24f 9/125, 3,9 mm LSOH E_{ca}, black

SXKO-DROP-16-OS-LSOHFR

SXKO-DROP-24-OS-LSOHFR

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	0,35 - 0,40 [1]	0,35 - 0,40 [1]
@ 1 550 nm	dB/km	0,25 - 0,40 [1]	0,35 - 0,40 [1]
@ 1 625 nm	dB/km	-	-
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.

Multimode Fibres Basic Parameters

Geometric Parameters	Unit	ITU-T G.651.1 OM2	ITU-T G.651.1 OM3	ITU-T G.651.1 OM4	ITU-T G.651.1 OM5
Core diameter	µm	50 ± 2,5	50 ± 2,5	50 ± 2,5	50 ± 2,5
Cladding diameter	µm	125 ± 1,0	125 ± 1,0	125 ± 1,0	125 ± 1,0
Core-Cladding Concentricity Error	µm	≤ 1,5	≤ 1,0	≤ 1,0	≤ 1,0
Cladding-Coating Concentricity Error	µm	≤ 10,0	≤ 10,0	≤ 10,0	≤ 10,0
Transmission Parameters					
Numerical aperture	-	0,200 ± 0,015	0,200 ± 0,015	0,200 ± 0,015	0,200 ± 0,015
Attenuation					
@ 850 nm	dB/km	2,5 - 3,5 [1]	2,5 - 3,5 [1]	2,5 - 3,5 [1]	2,5 - 3,0 [1]
@ 1 300 nm	dB/km	0,6 - 1,5 [1]	0,6 - 1,5 [1]	0,6 - 1,5 [1]	0,6 - 1,5 [1]
Bandwidth					
@ 850 nm	MHz*km	≥ 500	≥ 1 500	≥ 3 500	≥ 3 500
@ 953 nm	MHz*km	-	-	-	≥ 1 850
@ 1 300 nm	MHz*km	≥ 500	≥ 500	≥ 500	≥ 500

[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