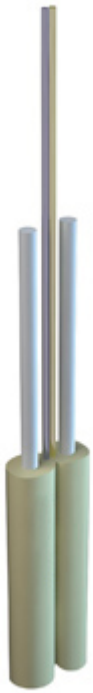
Fibre Optic Cables
MDIC LSZH

69271

MDIC LSZH - Indoor Access Cable. Micro Drop Installation Cable, special Access cable with low bend radius, no waterpeak G657.A fibres. Ruggedized construction with excellent installation performance, easy strippable for fast installation. This cable solves all in-house installation problems.

Commercial information	Properties	Unit
Product group	Fibre optic cable	
Series	Fibre optic cable Single mode	
Type	MDIC LSZH	
Description	2x SM G.657A	
Net weight	9	kg/km
Marking	ACE-TKF MDIC LSZH 2x SM G.657A 69271 {Year} {Batch} {Length}	



Article number / standard length	EAN number	Properties	Unit
69271	8713182063214	Drum à 1	m
69271H X 1000/20	8713182063221	Drum à 1000	m

Construction	Properties	Unit
Test procedures	IEC 60794-1-2	
Application	Inside	
Cable metal free	Yes	
Strain relief	Yes	
UV resistant	Yes	
Halogen free (acc. EN 50267-2-2)	Yes	
Low smoke (acc. EN50268-2)	Yes	
Number of fibres	2	
Type of tube	Other	
Fibre Type	Single mode	
Optical fibre standard	ITU-T G.657.A	
Type of strain relief	FRP	
Strip method	Double sided Rip seam	
Material outer sheath	LSZH	
Colour outer sheath	White	

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Characteristics for use	Properties	Unit
UV-protection	ISO 4892/2	
Dimension (height - width)	2.0 / 3.1	mm
Bending radius during installation	30	mm
Bending radius after installation	20	mm
Bending radius cable sinlge bend (max. 4x 90°)	15	mm
Bending radius fibre storage (<10 turns acc ITU rec)	15	mm
Tensile load during installation (Tm acc. IEC)	150	N
Tensile load during operation (Tl acc. IEC)	50	N
Installation temperature	-10 / 50	°C
Operation temperature range	-30 / 70	°C
Transportation and storage temperature	-30 / 70	°C

Technical characteristics	Properties	Unit
Attenuation @ 1310 nm	0.4	dB/km
Attenuation @ 1550 nm	0.3	dB/km
Crush resistance acc. meth.E3A	3800	N/dm
Impact strength	3	J
Torsion resistance	1800	°/m
Kink resistance	30	mm

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Product information

Product Characteristics - Optical fibres

Fibre:		
type of fibre	hydrogen passivated, dispersion unshifted, matched cladding bending loss insensitive singlemode fibre **9/125**µm	
standard	IEC-60793-2-50, B6-a	
standard	ITU-T G.657.A	

Characteristics:	**Properties**	**Unit**
Mode field diameter; 1310nm	9.2 ± 0.4	µm
Mode field diameter; 1550nm	10.4 ± 0.5	µm
Core non-circularity	max. 6	%
Core/Cladding concentricity error	max. 0.4	µm
Cladding diameter	125.0 ± 0.5	µm
Cladding non-circularity	max. 0.6	%
Coating diameter, uncoloured	242 ± 5	µm
Coating diameter, coloured	254 ± 7	µm
Coating/Cladding concentricity error	max. 8	µm
Temperature sensitivity; -60°C to +85°C	max. 0.05	dB/km
Bending sensitivity - 100 turns around Ø50mm - 1550nm	max. 0.02	dB
Bending sensitivity - 100 turns around Ø50mm - 1625nm	max. 0.03	dB
Bending sensitivity - 10 turns around Ø30mm - 1550nm	max. 0.1	dB
Bending sensitivity - 10 turns around Ø30mm - 1625nm	max. 0.3	dB
Bending sensitivity - 1 turn around Ø20mm - 1550nm	max. 0.75	dB
Bending sensitivity - 1 turn around Ø20mm - 1625nm	max. 1.5	dB
Proof test level	min. 0.69	GPa
Fibre curl	min. 4	m
Cable cut-off wavelength	max. 1260	nm
Zero-dispersion wavelength	1300 - 1324	nm
Zero-dispersion slope	max. 0.092	ps/nm².km
Chromatic dispersion; 1285nm - 1330 nm	max. 3.2	ps/nm.km
Chromatic dispersion; 1550nm	max. 17.0	ps/nm.km
Chromatic dispersion; 1625nm	max. 21.0	ps/nm.km
Polarisation mode dispersion; PMD_Q	max. 0.20	ps/√km
Attenuation at 1383nm (α_{1383}) [note a]	α_{1310} - 0.03	dB/km
Effective Group Core Refractive Index; 1310 nm	1.465	-
Effective Group Core Refractive Index; 1550 nm	1.465	-
Effective Group Core Refractive Index; 1625 nm	1.465	-

note a: after hydrogen ageing

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