Fibre Optic Cables
CTC 1,2kN

75061

CTC 1,2kN - Outdoor Underground, Metallfree, Central Tube Cable. Light-weight, non-metallic, central tube outdoor duct cable with small diameter, rodent protected, longitudinal water-protected. Installation: blowing into conduits, on cable trays.

Commercial information	Properties	Unit
Product group	Fibre optic cable	
Series	Fibre optic cable Single mode	
Type	CTC 1,2kN	
Description	12x SM G.652D	
Net weight	43	kg/km
Marking	ACE-TKF CTC 12 x SM G.652D A-DQ(ZN)B2Y 75061 {Year} {Batch} {Length}	

Article number / standard length	EAN number	Properties	Unit
75061		Drum à 1	m

Construction	Properties	Unit
Test procedures	IEC 60794-1-2	
Application	Outside	
Cable metal free	Yes	
Strain relief	Yes	
UV resistant	Yes	
Low smoke (acc. EN50268-2)	No	
Rodent protected	Yes	
Longitudinal water blocking	Yes	
Number of fibres	12	
Number of fibres per tube	12	
Number of cores	1	
Type of tube	Loose tube, gel filled	
Fibre Type	Single mode	
Optical fibre standard	ITU-T G.652.D	
Material outer sheath	PE	
Colour outer sheath	Black	

Characteristics for use	Properties	Unit
Flame retardant	No	
Outer diameter approx.	6.8	mm
Bending radius during installation	135	mm
Bending radius after installation	100	mm
Tensile load during installation (Tm acc. IEC)	1600	N
Tensile load during operation (Tl acc. IEC)	800	N
Installation temperature	-5 / 50	°C
Operation temperature range	-10 / 50	°C
Transportation and storage temperature	-30 / 70	°C

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Technical characteristics	Properties	Unit
Attenuation @ 1310 nm	0.34	dB/km
Attenuation @ 1550 nm	0.22	dB/km
Attenuation @ 1625 nm	0.24	dB/km
Crush resistance acc. meth.E3A	1500	N/dm
Impact strength	5	J
Torsion resistance	360	°/m

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Product information

Product Characteristics - Optical fibres

Fibre:		
type of fibre	hydrogen passivated, dispersion unshifted, matched cladding singlemode fibre **9/125**µm	
standard	IEC-60793-2-50, B1.3	
standard	ITU-T G.652.D*	

Characteristics:	**Properties**	**Unit**
Mode field diameter; 1310nm	9.2 ± 0.3	µm
Mode field diameter; 1550nm	10.4 ± 0.4	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. 12	µm
Temperature sensitivity; -60°C to +85°C	max. 0.05	dB/km
Bending sensitivity - 100 turns around Ø60mm - 1625nm	max. 0.05	dB
Proof test level	min. 0.69	GPa
Fibre curl	min. 4	m
Cable cut-off wavelength	max. 1260	nm
Zero-dispersion wavelength	1300 - 1322	nm
Zero-dispersion slope	max. 0.090	ps/nm².km
Chromatic dispersion; 1285nm - 1330 nm	max. 3.0	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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