

# Product information

## Fibre optic cable

75050

CTC LSZH 1,2 KN

Light-weight, non-metallic, central tube universal cable with small diameter, rodent protected, longitudinal water-protected, halogen-free.

Installation: blowing into conduits, on cable trays.

Commercial information		Properties	Unit
Product group		Fibre optic cable	
Series		Fibre optic cable Single mode	
Type		CTC LSZH 1,2kN	
Description		4x SM G.652D	
Net weight		50	kg/km
Article number / standard length	EAN number	Properties	Unit
75050		Drum à 1	m

Construction		Properties	Unit
Standardization		IEC 60794-1-2	
Optical fibre standard		ITU-T G.652.D	
Halogen free (acc. EN 50267-2-2)		Yes	
Low smoke (acc. EN50268-2)		Yes	
Longitudinal water blocking		Yes	
Strain relief		Yes	
UV resistant		Yes	
Rodent protected		Yes	
Cable metal free		Yes	
Application		Inside/outside	
Number of fibres		4	
Type of tube		Loose tube, gel filled	
Number of cores		1	
Number of fibres per tube		4	
Fibre Type		Single mode	
Material outer sheath		LSZH	
Colour outer sheath		Black	



Date: August 2, 2006

Subject to technical alterations

Page 1 / 2

BV Twentsche Kabelfabriek

Spinnerstraat 15 - P.O. Box 6 - 7480 AA Haaksbergen - The Netherlands  
 Tel: +31 (0)53 573 22 55 - Fax: +31 (0)53 573 21 85 - info@TKF.nl - www.tkf.nl



**BV TWENTSCHE  
KABELFABRIEK**

Choose TKF - Choose quality!

# Product information

## Fibre optic cable

75050

Characteristics for use	Properties	Unit
Flame retardant	VIgs. IEC 60332-1	
Outer diameter approx.	7	mm
Bending radius during installation	140	mm
Bending radius after installation	105	mm
Tensile load	1200	N

Technical characteristics	Properties	Unit
Cable strain	0.33	%
Crush resistance	1500	N/dm
Type of sealing	SAP	
Transportation and storage temperature	-30 / 70	°C
Installation temperature	-5 / 50	°C
Operation temperature range	-10 / 50	°C
Torsion resistance	360	°/m
Impact strength	5	J
Attenuation @ 1310 nm	0.34	dB/km
Attenuation @ 1550 nm	0.22	dB/km
Attenuation @ 1625 nm	0.24	dB/km

Date: August 2, 2006

Subject to technical alterations

Page 2 / 2

**BV Twentsche Kabelfabriek**

Spinnerstraat 15 - P.O. Box 6 - 7480 AA Haaksbergen - The Netherlands  
 Tel: +31 (0)53 573 22 55 - Fax: +31 (0)53 573 21 85 - info@TKF.nl - www.tkf.nl



**BV TWENTSCHE  
KABELFABRIEK**

Choose TKF - Choose quality!

## Product information

# Product Characteristics - Optical fibres

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

Characteristics:	Properties	Unit
Mode field diameter; 1310nm	9.2 ± 0.5	µm
Mode field diameter; 1550nm	10.4 ± 0.6	µm
Core non-circularity	max. 6	%
Core/Cladding concentricity error	max. 0.6	µm
Cladding diameter	125.0 ± 0.7	µm
Cladding non-circularity	max. 1.0	%
Coating diameter, uncoloured	245 ± 5	µm
Coating diameter, coloured	250 ± 15	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 Ø50mm - 1550nm	max. 0.05	dB
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 - 1324	nm
Zero-dispersion slope	max. 0.093	ps/nm <sup>2</sup> .km
Chromatic dispersion; 1285nm - 1330 nm	max. 3.4	ps/nm.km
Chromatic dispersion; 1271nm - 1360nm	max. 5.3	ps/nm.km
Chromatic dispersion; 1550nm	max. 18	ps/nm.km
Chromatic dispersion; 1625nm	max. 22	ps/nm.km
Polarisation mode dispersion; PMD <sub>Q</sub>	max. 0.20	ps/√km
Attenuation at 1383nm (α <sub>1383</sub> ) [note a]	max. α <sub>1310</sub>	dB/km

note a: after hydrogen ageing