



## CTC LSZH - Fibre optic cable

Article number: 75099

03-02-2017

### Description

6x MM 50 OM3

CTC LSZH - Universal, Metallfree, Central Tube Cable.  
Light-weight, non-metallic, universal central tube cable  
(indoor/outdoor) with small diameter, rodent protected, longitudinal  
water-protected, with Low Smoke Zero Halogen outersheath.  
Installation: blowing into conduits, on cable trays.



### Trading information

Product group	Fibre optic cable
Series	Fibre optic cable Multi mode
Type	CTC LSZH
Net. Weight	51 kg/km
Sheath marking	ACE-TKF CTC LSZH 6 x MM 50 OM3 A/I-DQ(ZN)BH 75099 {Year} {Batch} {Length}

### Trade lengths

Reel à 1	(75099 / 8713182109530)
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### Construction characteristics

Cable type	CTC
Fibre type	Multi mode 50/125
Optical fibre standard	ISO/IEC 11801- OM3/ IEC 60793-2-10 A1a.2
Number of fibres	6
Number of fibres per tube	6
Number of cores	1
Type of tube	Loose tube, gel filled
Stripability optical element	> 1000mm, down to primary coating
Cable metal free	Yes
Number of layers	1 Layer
Strain relief	Yes
Type of strain relief	E-glass
Material outer sheath	LSZH
Colour outer sheath	Black
Outer sheath thickness	1 mm
Outer diameter approx.	7 mm

### Properties

Application	Inside/outside
Blowable	Yes



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### Technical characteristics

Test procedures	IEC 60794-1-2
Longitudinal water blocking	Yes
Longitudinal watertight construction	Super Absorbing Polymer
Radial water blocking	No
Installation temperature	-15 / 50 °C
Transportation and storage temperature	-40 / 70 °C
Operational temperature range Ta1 - Tb1	-10 / 50 °C
Max. attenuation increase during Ta1 - Tb1	0.3 dB
Operational temperature range Ta2 - Tb2	-30 / 70 °C
UV resistant	Yes
With rodent protection	Yes

### Mechanical characteristics

Tensile load short term (Tm)	1600 N
Tensile load long term (Tl)	500 N
Min. bending radius after installation	105 mm
Min. bending radius during installation	140 mm
Crush resistance E3A short (1min)	3000 N/dm
Crush resistance E3A long	1500 N/dm
Crush load E3A long application time	15 min
Crush resistance E3B short term (1min)	1500 N/dm
Crush resistance E3B long term	600 N/dm
Crush load E3B long application time	15 min
Mandrel diameter by Crush meth. E3B	25 mm
Impact strength	5 J
Torsion resistance	360 °/m



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### Optical characteristics

Fibre category	OM3
Max. attenuation @ 850 nm	2.5 dB/km
Max. attenuation @ 1300 nm	0.7 dB/km
Max. attenuation @ 1310 nm	0.36 dB/km
Bandwidth @ 850 nm	1500 MHz.km
Bandwidth @ 1300 nm	500 MHz.km

### Other properties

Halogen free (acc. EN 60754-1/2)	Yes
Vertical Flame Propagation (for Single Cable)	IEC 60332-1-2 / EN 50265-2-1

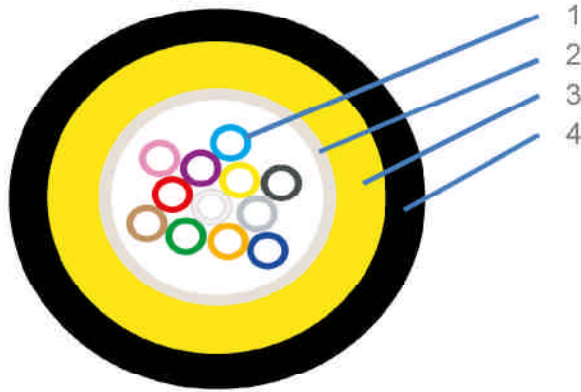
Product Information

Cable construction and colour code

CTC LSZH

Version: PM-M11J15

FO cable with central tube  
Indoor/Outdoor application



Description:

- 1 Optical fibres
- 2 Central tube with 2, 4, 6, 8, 12, 16 or 24 fibres
- 3 Reinforcement of glass yarns
- 4 Outer sheath (LSZH)

Standard Colours:

Fibres

Group 1		Group 2	
1	Red	13	Red +t
2	Green	14	Green +t
3	Blue	15	Blue +t
4	Yellow	16	Yellow +t
5	White	17	White +t
6	Grey	18	Grey +t
7	Brown	19	Brown +t
8	Violet	20	Violet +t
9	Turquoise	21	Turquoise +t
10	Black	22	Natural
11	Orange	23	Orange +t
12	Pink	24	Pink +t

note +t: indicates a black tracer



Fibre:

Product Characteristics - Optical fibres

Type of fibre	Graded index multimode fibre 50/125µm
Standard	ISO/IEC-11801, OM3
Standard	IEC-60793, A1a.2

Characteristics:

Properties

Unit

Characteristics:	Properties	Unit
Core diameter	50.0 ± 3	µm
Core non-circularity	max. 6	%
Core/Cladding concentricity error	max. 1.5	µm
Cladding diameter	125.0 ± 2.0	µm
Cladding non-circularity	max. 1.0	%
Coating diameter, uncoloured	245 ± 5	µm
Coating diameter, coloured	250 ± 15	µm
Coating non-circularity	max. 6	%
Coating/Cladding concentricity error	max. 12	µm
Temperature sensitivity; -60°C to +80°C	max. 0.20	dB/km
Bending sensitivity; 100 turns around Ø75mm	max. 0.5	dB
Proof test level	min. 0.69	Gpa
Numerical aperture	0.200 ± 0.02	-
EMB	2000	MHz.km
Effective Group Core Refractive Index; 850 nm	1.475	-
Effective Group Core Refractive Index; 1300 nm	1.473	-