



Fibre optic cable

STIC Dca

Article number: 79920

26-07-2017

Description

4x SM G.657.A2 (1x4)

STIC Dca- Soft Tube Indoor Cable

This special indoor cable with bend-insensitive fibre G.657.A2, protected by easy strippable soft tube, meets all requirements for modern building cabling:

a small diameter, low weight, high tensile force and excellent bend and crush performance.

Its easy, fast strippable sheath consist of special flame retardant material, making the cable extremely robust, but flexible, with its 90° bend radius capability.

Consequently, the STIC Dca is perfectly suitable to be installed on the wall by using e.g. staples or glue.

Due to its (semi-)dry construction, this cable is highly safe and can be used in any human habitation.

The dry soft tube makes also easier its installation into the vertical riser shafts of MDU's.

**Trading information**

Product group	Fibre optic cable
Series	Fibre optic cable Single mode
Type	STIC Dca
Net. Weight	15 kg/km
Sheath marking	ACE - TKF - STIC 4 x SM G.657.A2 (1x4) - 79920 {Batch} {Year} {Length} M

Trade lengths

Reel à 1	(79920 / 8713182260187)
Reel à 500	(79920H X 500/25 / 8713182298296)
Reel à 1000	(79920H X 1000/50 / 8713182262440)



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Construction characteristics

Cable type	STC
Fibre type	Single mode 9/125
Optical fibre standard	ITU-T G.657.A2
Number of fibres	4
Number of fibres per tube	4
Number of cores	1
Type of tube	Soft tube
Stripability optical element	> 1000mm, down to primary coating
Cable metal free	Yes
Stripability outer sheath	1000 mm
Strain relief	Yes
Type of strain relief	Aramid fibre
Material outer sheath	LSZH
Colour outer sheath	White
Outer sheath thickness	0.45 mm
Outer diameter approx.	2.9 mm

Properties

Application	Inside
Suitable for indoor installation	Simulated according IEC 60794-1-21 E27
90 degree bends (R=1mm) possible	Yes
Euro fire class according to EN 13501-6	Dca
Euro class smoke production according to EN 13501-6	s2
Euro class flaming droplets/particles according to EN 13501-6	d2
Euro class acidity according to EN 13501-6	a1



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Technical characteristics

Standardization	EN IEC 60794-2
Test procedures	IEC 60794-1-2
Longitudinal water blocking	Yes
Longitudinal watertight construction	Super Absorbing Polymer
Installation temperature	-10 / 50 °C
Transportation and storage temperature	-25 / 60 °C
Operational temperature range Ta1 - Tb1	-10 / 50 °C
Operational temperature range Ta2 - Tb2	-25 / 60 °C

Mechanical characteristics

Tensile load short term (Tm)	300 N
Max. fiber strain at Tm	0.6 %
Tensile load long term (Tl)	100 N
Min. bending radius after installation	20 mm
Min. bending radius during installation	50 mm
Crush resistance E3A short (1min)	500 N/dm
Crush resistance E3A long	300 N/dm
Crush load E3A long application time	10 min
Impact strength	1 J
Striking surface radius	12.5 mm
Torsion resistance	360 °/m
Kink resistance	10 mm

Optical characteristics

Fibre category	OS2
Max. attenuation @ 1310 nm	0.4 dB/km
Max. attenuation @ 1550 nm	0.3 dB/km
Max. attenuation @ 1625 nm	0.4 dB/km



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Other properties

Halogen free (acc. EN 60754-1/2)	Yes
Halogen free	IEC 60754-1&2 / EN 50267-2-1&2
Low smoke (acc. EN 61034-2)	Yes
Smoke Density	IEC 61034-1&2 / EN 50268-1&2
Vertical Flame Propagation (for Single Cable)	IEC 60332-1-2 / EN 50265-2-1
Caloric value	120 MJ/km



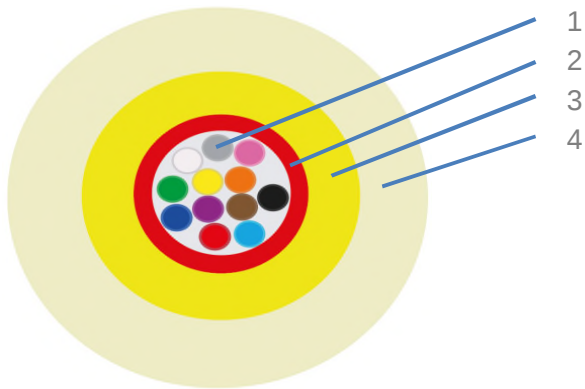
Product Information

Cable construction and colour code

STIC Dca

Version: PM-M06J17

Color code acc. to France Telecom



Description:

- | | |
|---|--|
| 1 | Optical fibres |
| 2 | Soft tube |
| 3 | Strength member (waterblocking aramid yarns) |
| 4 | Outer sheath |

Standard Colours:

Fibres		Tubes	
Group		Layer	
1	Red	1	Red
2	Blue	2	Blue
3	Green	3	Green
4	Yellow	4	Yellow
5	Violet		
6	White		
7	Orange		
8	Grey		
9	Brown		
10	Black		
11	Turquoise		
12	Pink		



Fibre:

Product Characteristics - Optical fibres

Type of fibre	Hydrogen passivated, dispersion unshifted, matched cladding bending loss insensitive singlemode fibre 9/125µm. Fully compatible with G.652.D fibre. Optical and geometrical properties exceed ITU-recommendations G.652.D and G.657.A2
Standard	IEC-60793-2-50, B6-a2
Standard	ITU-T G.657.A2

Characteristics:

Properties

Unit

Mode field diameter; 1310nm	8.7 ± 0.4	µm
Mode field diameter; 1550nm	9.9 ± 0.5	µm
Core/Cladding concentricity error	max. 0.5	µm
Cladding diameter	125.0 ± 0.5	µm
Cladding non-circularity	max. 0.7	%
Coating diameter	242 ± 5	µm
Coating/Cladding concentricity error	max. 8	µm
Temperature sensitivity; -60°C to +85°C	max. 0.05	dB/km
Bending sensitivity - 10 turns around Ø30mm - 1550nm	max. 0.03	dB
Bending sensitivity - 10 turns around Ø30mm - 1625nm	max. 0.1	dB
Bending sensitivity - 1 turn around Ø20mm - 1550nm	max. 0.1	dB
Bending sensitivity - 1 turn around Ø20mm - 1625nm	max. 0.2	dB
Bending sensitivity - 1 turn around Ø15mm - 1550nm	max. 0.5	dB
Bending sensitivity - 1 turn around Ø15mm - 1625nm	max. 1.0	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. 0.090	ps/nm ² .km
Chromatic dispersion; 1550 nm	max. 18	ps/nm.km
Chromatic dispersion; 1625nm	max. 22	ps/nm.km
Polarisation mode dispersion; maximum individual fibre	max. 0.1	ps/√km
PMD _Q	max. 0.06	ps/√km
Max. attenuation at 1383nm (α ₁₃₈₃) [note a]	<max. α ₁₃₁₀	
Effective Group Core Refractive Index; 1310 nm	1.4676	-
Effective Group Core Refractive Index; 1550 nm	1.4683	-
Effective Group Core Refractive Index; 1625 nm	1.4685	-

note a: after hydrogen ageing