



LTMC-S PA

576x SM G.657.A2 ((9+15)x24)

Article number: 77423

Date: 17-06-2020

The Loose Tube Mini Cable 'Slim' Polyamide (LTMC-S PA) is a non-metallic, longitudinal water-protected fibre optic cable, with smallest possible outer diameter and optimized fibre density (in case of applying 200µm fibres). With its low weight and reduced diameter, in combination with a low friction polyamide outer-sheath, this cable is the perfect solution for situations where blowing of mini-cable over long distances in shortest possible time slot is needed. This cable is extremely suitable for Access or FTTx applications, where high fibre-count cables in smallest tube-diameter are required. Installation: blowing into mini-ducts.



Product characteristics

Cable type	LTMC
Fibre type	Single mode 9/125
Optical fibre standard	ITU-T G.657.A2 200 µm
Number of fibers	576
Number of fibers per optical element	24
Number of cores	24
Optical element	Loose tube, gel filled
Cable metal free	Yes
Number of layers	2 Layers
Strip method	1 Rip cord
Stripability optical element	> 1000 mm, down to primary coating
Strain relief	Yes
Type of strain relief	FRP
Material outer sheath	Polyamide
Colour outer sheath	Orange
Outer sheath thickness	0,35 mm



Outer diameter approx.	10,3 mm
Marking	ACE - TKF LTMC-S PA 576x SM G.657.A2 ((9+15)x24) A-DQ(ZN)4Y 77423 {Batch} {Year} {Length}

Application

Standardization	EN IEC 60794-5-10
Test procedures	EN IEC 60794-1-2
Application	Outside
Blow in	Yes
Euro fire class according to EN 13501-6	Fca

Mechanical specification

Tensile load short term (Tm)	4000 N
Cable strain by Tm	0,75 %
Max. fiber strain at Tm	0,35 %
Tensile load Long Term (Tl)	750 N
Max. fiber strain at Tl	0,0 %
Min. bending radius during installation	210 mm
Min. bending radius after installation	160 mm
Crush resistance E3A short (1min)	3000 N/dm
Crush resistance E3A long	700 N/dm
Crush load E3A long application time	10 min
Impact strength	6 J
Striking surface radius	300 mm
Torsion resistance	360 °/m

Optical specification

Category according to EN 50173	OS2
Max. attenuation @ 1310 nm	0,35 dB/km
Max. attenuation @ 1550 nm	0,22 dB/km
Max. attenuation @ 1625 nm	0,25 dB/km



Environmental specification

Longitudinal water blocking cable	Yes
Longitudinal watertight construction	Super Absorbing Polymer
Installation temperature	-15/55 °C
Transportation and storage temperature	-45/70 °C
Operational temperature range Ta1 - Tb1	-20/60 °C
Max. attenuation increase during Ta1 - Tb1	0,05 dB
Operational temperature range Ta2 - Tb2	-30/70 °C
Max. attenuation increase during Ta2 - Tb2	0,10 dB
TC sample length for TC acc. F1 or F12	1000 m
UV-protection	ISO 4892/2
With rodent protection	Yes
Termite protected	Yes

Other specification

Halogen free (acc. EN 60754-1/2)	Yes
Halogen free	IEC 60754-1/2

Logistical specifications

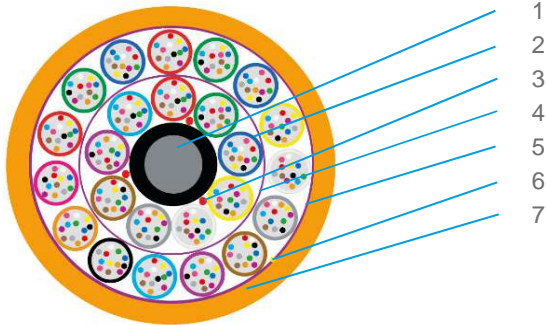
Unit	meter
Weight (kg)	0.098
Default packaging	H X 12000/600

TECHNICAL PRODUCT INFORMATION

Cable construction and colour code

LTMC-S PA

FO mini-cable with stranded mini loose tubes



Description

1	Central element (FRP), optional with overshooth
2	Loose tube with optical fibres
3	Waterblocking layer
4	Cross-binder
5	Cross-binder
6	Ripcord
7	Outer sheath

Standard colours

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

note +t: indicates a black tracer