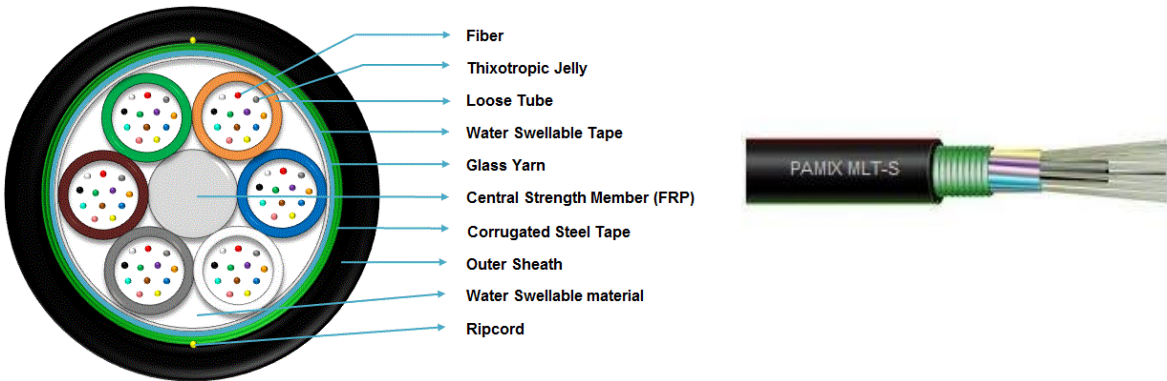


Outdoor Fiber Optic Cable

MLT-S10 Multi Loose Tube, Corrugated Steel Tape, Single Jacket

(IEC 60794-3-12)



Fiber Type

SM 9/125 (G.652.d)

Attenuation at 1310 nm

Max. 0.35 dB/km

Attenuation at 1550 nm

Max. 0.21 dB/km

Application

Suitable for pulling in or blowing through ducts, laying on cable trays or direct buried. High protection against rodent.

General Construction

Multi loose tube, Corrugated steel tape, Glass yarn, Water blocking swellable material, Single outer sheath



Cable Design

Outer Sheath Material	MDPE & HDPE black according to ASTM D 1248 type II class C (Protection against sun and UV)
Outer Sheath Thickness	1.6 mm \pm 0.1
Loose Buffer Tube	PBT (Polybutylene terephthalate)
Tube Diameter	2,25 \pm 0,07 mm
Tube Inner Diameter	1,40 \pm 0,07 mm
Filling Compound in Loose Tube	Thixotropic Jelly Compound
Central Strength Member	FRP
Core rapping tape	Water swellable tape
Water Blocking Material	Water Swellable Material
Auxiliary Strength Member	Glass Yarn
Armoring	Corrugated Steel tape 0.155 mm \pm 0.015
FRP Diameter	2,40 \pm 0,07 mm
Ripcord	Yes, under outer sheath
Cable Outer Diameter	12mm to 16mm depending on number of fibers and tubes



Performance and Standards

No.	Cable Test	Standard	Requirements
1	Tensile Strength (installation)	IEC 60794-1 E1	Min 2.700N Attenuation Change (Max 0,05 dB)
2	Tensile Strength (Operation)	IEC 60794-1 E1	Min 2.000N Attenuation Change (Max 0,05 dB)
3	Cable Bend 20xD,	IEC 60794-1-E11	Attenuation Change (Max 0,1 dB) No Damage or breakage of the cable
4	Impact Test: 1 meter 10 N	IEC 60794-1-E4	Attenuation Change (Max 0,05 dB)
5	Crush Strength: 200 N/cm	IEC 60794-1-E3	Attenuation Change (Max 0,05 dB)
6	Torsion Test: 2 meter 10 kg $\pm 180^{\circ}$ 10 cycles(20 times)	IEC 60794-1-E7	Attenuation Change (Max 0,05 dB)
7	Flexing Test: 20xD,30 cycles/min	IEC 60794-1-E8	Attenuation Change (Max 0,05 dB) No Damage or breakage of the cable
8	Kink Test: 3 meter, formed in to loop, Min 20xD	IEC 60794-1-E10	Attenuation Change (Max 0,05 dB)
9	Repeated Bending Test: 10 cycle, 10 kg load, L>1,5 meter, 20xD	IEC 60794-1-E6	Attenuation Change (Max 0,1 dB)
10	Temperature Cycling (-40 ⁰ C to +80 ⁰ C) Transition from 20 ⁰ C to -40 ⁰ C: 4 hours Duration -40 ⁰ C :36 hour Transition from -40 ⁰ C to 80 ⁰ C : 4 Hours Duration +80 ⁰ C :36 hour Duration of each cycle:36 hour Number of cycle: 1	IEC 60794-1-F1	Attenuation Change (Max 0,05 dB)
11	Water penetration: 3 meter, 24 hour	IEC 60794-1-E5	No Leakage at the end of the cable
12	Filing & Flooding compound flow	IEC 60794-1-E14	No flow



Cable Marking

PAMIX MLT-S10 Outdoor Fiber Cable <Product Number> <Number of fiber cores> SM 9/125 G.652 d <Lot No.> <meter count>

* Cable marking can be customized to meet customer needs.

Warranty

25 years performance warranty, refer to PAMIX Worldwide warranty terms.

Ordering Information

Description	Art. Number
PAMIX MLT-S10 Outdoor Fiber cable 1x12 cores, SM G.652 d, single jacket.	1012667
PAMIX MLT-S10 Outdoor Fiber cable 2x6 cores, SM G.652 d, single jacket.	1012668
PAMIX MLT-S10 Outdoor Fiber cable 1X24 cores, SM G.652 d, single jacket.	1012669
PAMIX MLT-S10 Outdoor Fiber cable 2x12 cores, SM G.652 d, single jacket.	1012670
PAMIX MLT-S10 Outdoor Fiber cable 4x6 cores, SM G.652 d, single jacket.	1012671
PAMIX MLT-S10 Outdoor Fiber cable 3x12 cores, SM G.652 d, single jacket.	1012672
PAMIX MLT-S10 Outdoor Fiber cable 4x12 cores, SM G.652 d, single jacket.	1012673
PAMIX MLT-S10 Outdoor Fiber cable 6x12 cores, SM G.652 d, single jacket.	1012674
PAMIX MLT-S10 Outdoor Fiber cable 8x12 cores, SM G.652 d, single jacket	1012675
PAMIX MLT-S10 Outdoor Fiber cable 12x12 cores, SM G.652 d, single jacket.	1012676

* Other cable designs can be customized based on customer request.