

ADSS-MLT-01 Optical Fiber Cable (IEC 60794-3-12)



Fiber Type

SM 9/125 (G.652 d)

Attenuation at 1310 nm

Attenuation at 1380 nm

Attenuation at 1550 nm

Max. 0.35 dB/km

Max. 0.38 dB/km

Max. 0.21 dB/km

Application

Self-supporting aerial installation

General Construction

Multi loose tube, Nonmetallic, Water blocking swellable material, Single outer sheath



Cable Design

Outer Sheath Material	MDPE & HDPE black according to ASTM D 1248 type II class C
Outer Sheath Thickness	1.6 mm \pm 0.2
Loose Buffer Tube	PBT (Polybutylene terephthalate)
Tube Outer Diameter	2.15 mm \pm 0.07
Tuber Inner Diameter	1.4 mm \pm 0.07
Filling Compound in Loose Tube	Thixotropic Jelly Compound
Central Strength Member	FRP
FRP Diameter	2.2 mm \pm 0.07
Core rapping tape	Water swellable tape
Auxiliary Strength Member	Armide Yarn
Ripcord	Yes, under outer sheath
Cable Outer diameter	11.0 – 15.4 mm \pm 0,07 depending on cable design
Span	Up to 100 meters
Ice Load	10.0 mm



Performance and Standards

No.	Cable Test	Standard	Requirements
1	Tensile Strength (installation)	IEC 60794-1 E1	Min 6.000N
2	Tensile Strength (Operation)	IEC 60794-1 E1	Attenuation Change (Max 0,05 dB) Min 4.000N
3	Breaking Strength	IEC 60794-1 E1	Attenuation Change (Max 0,05 dB) Min 15.000N
4	Cable Bend 20xD,	IEC 60794-1-E11	Attenuation Change (Max 0,1 dB) No Damage or breakage of the cable
5	Impact Test: 1 meter 10 N	IEC 60794-1-E4	Attenuation Change (Max 0,05 dB)
6	Crush Strength: 200 N/cm	IEC 60794-1-E3	Attenuation Change (Max 0,05 dB)
7	Torsion Test: 2 meter 10 kg $\pm 180^{\circ}$ 10 cycles(20 times)	IEC 60794-1-E7	Attenuation Change (Max 0,05 dB)
8	Flexing Test: 20xD,30 cycles/min	IEC 60794-1-E8	Attenuation Change (Max 0,05 dB) No Damage or breakage of the cable
9	Kink Test: 3 meter, formed in to loop, Min 20xD	IEC 60794-1-E10	Attenuation Change (Max 0,05 dB)
10	Repeated Bending Test: 10 cycle, 10 kg load, L>1,5 meter, 20xD	IEC 60794-1-E6	Attenuation Change (Max 0,1 dB)
11	Temperature Cycling (-40 ⁰ C to +80 ⁰ C) Transition from 20 ⁰ C to -40 ⁰ C Duration -40 ⁰ C :36 hour Transition from -40 ⁰ C to 80 ⁰ C 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)
12	Water penetration: 3 meter, 24 hour	IEC 60794-1-E5	No Leakage at the end of the cable
13	Filing & Flooding compound flow	IEC 60794-1-E14	No flow



Cable Marking

PAMIX ADSS-MLT01 Fiber Cable Nonmetallic <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 ADSS-MLT01 Fiber cable 12 cores, SM G.652 d, single jacket, aramid yarn, FRP	1012071
PAMIX ADSS-MLT01 Fiber cable 24 cores, SM G.652 d, single jacket, aramid yarn, FRP	1012072
PAMIX ADSS-MLT01 Fiber cable 36 cores, SM G.652 d, single jacket, aramid yarn, FRP	1012073
PAMIX ADSS-MLT01 Fiber cable 48 cores, SM G.652 d, single jacket, aramid yarn, FRP	1012074
PAMIX ADSS-MLT01 Fiber cable 72 cores, SM G.652 d, single jacket, aramid yarn, FRP	1012075
PAMIX ADSS-MLT01 Fiber cable 96 cores, SM G.652 d, single jacket, aramid yarn, FRP	1012076
PAMIX ADSS-MLT01 Fiber cable 144 cores, SM G.652 d, single jacket, aramid yarn, FRP	1012077