

## ADSS Single Jacket Optical Fiber Cable

### ADSS-MLT-05



### Fiber Type

ITU T-G.652D SM 9/125

Attenuation at 1310 nm	Max. 0.34 dB/km
Attenuation at 1383 nm	Max. 0.34 dB/km
Attenuation at 1550 nm	Max. 0.21 dB/km
Attenuation at 1625 nm	Max. 0.23 dB/km

### Application

Self-supporting aerial installation. ADSS cables possess high tensile strength and flexibility in compact cable size.

### General Construction

Multi loose tube, Nonmetallic, Water blocking swellable material, Single outer sheath, Loose tube, up to 144 fibers



### Cable Design

Fibers	4	6	12	24	48	96	144
Loose Tube	1	1	1	2	4	8	12
Span (meters)	40	40	50	50	50	70	70
Cable Diameter (mm) ± 0.2	9.5 to 16.0 depending on cable model						
Outer Sheath Material & Color	MDPE, Black						
Outer Sheath Thickness (mm)	1.8 to 3.0 depending on cable model						
Loose Buffer Tube	PBT (Polybutylene terephthalate)						
Tuber Diameter	1.8 mm ± 0.1,						
Filling Compound in Loose Tube	Thixotropic Jelly Compound						
Central Strength Member	FRP						
FRP Diameter (mm)	2.0 to 3.0 depending on cable model						
Core rapping tape	Water swellable tape						
Auxiliary Strength Member	Armid Yarn						
Water Blocking	Yarn & Tape						
Ripcord	Yes, under outer sheath						
Ice Load	5.0 mm						



## Optical Specification

### ITU T-G652D

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Attenuation at 1383 nm	Max. 0.34 dB/km
Attenuation at 1550 nm	Max. 0.21 dB/km
Attenuation at 1625 nm	Max. 0.23 dB/km
Zero Dispersion Wavelength	1300 – 1324 nm
Zero Dispersion slope	$\leq 0.092$ ps/nm <sup>2</sup> .km
PMD Link value of fiber individual	$\leq 0.18$ ps/ $\sqrt$ km
Dispersion Coefficient 1285 – 1330 nm	$\leq 3.5$ ps/nm.km
Dispersion Coefficient 1550nm	$\leq 18.0$ ps/nm.km
Dispersion Coefficient 1625nm	$\leq 22.0$ ps/nm.km
Macro bending Loss (100turns; $\Phi$ 50mm)@1550nm (100turns; $\Phi$ 50mm)@1625nm	$\leq 0.05$ dB $\leq 0.10$ dB
Mode Field Diameter @ 1310nm	$9.2 \pm 0.4$ $\mu$ m
Mode Field Diameter @ 1550nm	$10.4 \pm 0.5$ $\mu$ m
Cladding Diameter	$125 \pm 1.0$ $\mu$ m
Coating diameter(colored)	$250 \pm 15$ $\mu$ m



## Mechanical Specifications

No.	Cable Test	Standard	Requirements
1	Rated Tensile Strength (RTS)		4000 N
2	Tensile Allowed		2000 N
3	Annual Mean Stress		1000 N
4	Bending Radius		Static: 10 time cable diameter Dynamic: 20 times cable diameter
	Maximum Tension	IEC60794-1	3000 N
	Crush Strength (N)	IEC60794-1	Short Term: 1500 Long Term: 750
5	Impact Test (N/100mm)	IEC60794-1	yes
6	Torsion Test	IEC60794-1	Yes
7	Repeated Bending Test	IEC60794-1	Yes
10	Temperature Cycling	IEC60794-1	Yes
11	Water penetration	IEC60794-1	Yes

## Cable Marking

PAMIX ADSS-MLT05 Fiber Cable Nonmetallic <Product Number> <Number of fiber cores> SM 9/125 G.652D <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	Loose Tubes	Art. Number
PAMIX ADSS-MLT05 Fiber cable 4 cores, SM G.652 d, single jacket, aramid yarn, FRP	1	1012041
PAMIX ADSS-MLT05 Fiber cable 6 cores, SM G.652 d, single jacket, aramid yarn, FRP	1	1012042
PAMIX ADSS-MLT05 Fiber cable 8 cores, SM G.652 d, single jacket, aramid yarn, FRP	1	1012043
PAMIX ADSS-MLT05 Fiber cable 12 cores, SM G.652 d, single jacket, aramid yarn, FRP	1	1012044
PAMIX ADSS-MLT05 Fiber cable 24 cores, SM G.652 d, single jacket, aramid yarn, FRP	2	1012045
PAMIX ADSS-MLT05 Fiber cable 36 cores, SM G.652 d, single jacket, aramid yarn, FRP	3	1012046
PAMIX ADSS-MLT05 Fiber cable 48 cores, SM G.652 d, single jacket, aramid yarn, FRP	4	1012047
PAMIX ADSS-MLT05 Fiber cable 72 cores, SM G.652 d, single jacket, aramid yarn, FRP	6	1012048
PAMIX ADSS-MLT05 Fiber cable 96 cores, SM G.652 d, single jacket, aramid yarn, FRP	8	1012049
PAMIX ADSS-MLT05 Fiber cable 144 cores, SM G.652 d, single jacket, aramid yarn, FRP	12	1012050

\* Other Cable construction can be customized to meet customer needs.