

## ADSS Single Jacket Optical Fiber Cable

### ADSS-10



### 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
Attenuation at 1285 - 1625 nm	Max. 0.40 dB/km

### Application

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

### General Construction

Single jacket PE outer sheath, multi loose tube with filling compound, fillers, nonmetallic, Water blocking tape, FRP strength member, aramid yarn protection layer, up to 48 fibers

<b>Cable Design</b>				
Construction Type	1+6			
Fibers	4	12	24	48
Loose Tubes	1	1	2	4
Outer Diameter (mm)	7.8	7.8	10	10
Central member material	FRP			
FRP Diameter (mm)	1.8	1.8	2.2	2.2
Outer Sheath Material & Color	HDPE, Black			
Cable sheath thickness (mm)	1.2	1.2	1.6	1.6
Span (meter)	40	50	50	50
Filling Compound in Loose Tube	Thixotropic Jelly Compound			
Water Blocking Material	Water blocking yarn & tape			
Auxiliary Strength Member	Aramid Yarn			
Ripcord	Yes, under outer sheath			
Min Bending Radius	Static		10D	
	Dynamic		20D	
Temperature	Operation		-40°C - +80°C	
	Installation		-10°C - +60°C	
	Storage		-40°C - +80°C	

### Fiber Identification Colors

All fiber cores are individually identified by colored quoting up to 12 colors according to EIA/TIA 598





## Optical Specification

ITU T-G652D

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
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/√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	$\leq 0.05$ dB
(100turns; $\Phi$ 50mm)@1625nm	$\leq 0.10$ 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



## Cable Marking

PAMIX ADSS-10 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.

## Standards

The cable is manufactured and tested according to following industry standards

Mode field diameter	IEC 60793-1-45
Mode field core/clad concentricity	IEC 60793-1-20
Cladding Diameter	IEC 60793-1-20
Cladding non circularity	IEC 60793-1-20
Attenuation Coefficient	IEC 60793-1-40
Chromatic dispersion	IEC 60793-1-42
Cable cut-off wavelength	IEC 60793-1-44
Tensile Loading Test	IEC 60794-1-2 E1
Tensile Loading Test	IEC 60794-1-2 E1
Crush Test	IEC 60794-1-2 E3
Impact Resistance Test	IEC 60794-1-2 E4
Repeated Pending test	IEC 60794-1-2 E6
Torsion/Twist Test	IEC 60794-1-2 E7
Temperature Cycling Test	IEC 60794-1-2 F1
Water Penetration Test	IEC 60794-1-2 F5B



## Ordering Information

Description	Loose Tubes	Art. Number
PAMIX ADSS-10 Fiber cable 4 cores, SM G.652 d, single jacket, aramid yarn, FRP	1	1012041
PAMIX ADSS-10 Fiber cable 12 cores, SM G.652 d, single jacket, aramid yarn, FRP	1	1012042
PAMIX ADSS-10 Fiber cable 24 cores, SM G.652 d, single jacket, aramid yarn, FRP	2	1012043
PAMIX ADSS-10 Fiber cable 48 cores, SM G.652 d, single jacket, aramid yarn, FRP	4	1012044

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