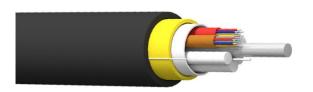
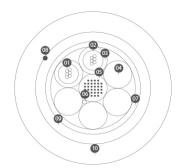


## **ADSS Fiber Optic Cable**

## All-Dielectric Self-Supporting





- 01. Optical Fiber
- 02. Inner Jelly
- 03. Loose Tube
- 04. Filler
- 05. Central Strength
- 06. Member Water Blocking Yarn
- 07. Water Blocking Tape
- 08. Rip Cord
- 09. Strength Member
- 10. Outer Sheath







#### Application

ADSS are All-Dielectric self supporting cable and single jacket designed for aerial or duct installation. The optical fiber cable(ADSS) design provides no supporting part or messenger wire required. Cable provides for hardware part for installation with ADSS cable supporting on the pole. The cable inside multi-loose tube filled with a water resistant filling compound or design for waterblocked with water blocking material in side cable. The cable high tensile by aramid yarns and FRP strength member rod inside. Outer sheath made from HDPE. It's can be customized by adding FRP armor for rodent protection (Optional).

It supports application such as 40/100Gbps Ethernet, IEEE802.3ae, 10G Ethernet, IEEE802.3z, Gigabit Ethernet, Fast Ethernet, IEEE 802.3 Ethernet, 100BASE-F, 52/155/622Mbps and 1.2Gbps ATM, FDDI, Fiber channel and others.

#### Standard

TIA/EIA-598-C (Rev. TIA/EIA-598-A) ISO/IEC 11801:2017 EIA-359-A, ANSI/TIA-568.3-D IFC 60811-410 ANSI/TIA-568-C.3 IEC 60811-607 ANSI/ICEA 640 IEC 60793 Telcordia (Bellcore) GR-20-CORE IEC 60794-1-2 ITU-T G.652D (Singlemode) EN 50173-1 ITU-T G.651 (Multimode) TIS 2166-2548 ISO/IEC 11801:2011 (Ed.2.2) **RoHS Compliant** 

#### Specification

## Construction

	Cable Type	ADSS	
Number of Fibers		6-24	
Central Strength Member	Material	FRP	
Water Blocking Member	Material	Water Blocking Tape and Water Blocking Yarn	
Loose Tube	Material	PBT	
	Filling Compound Material	Thixolopic Jelly	
Filler	Material	Polypropylene (PP)	
Additional Strength Member	Material	Aramid Yarn	
Ripcord	no.	1	
Nipcord	Material	Polyester	
Inner Sheath	Material, Thickness	FRP (Rodent Protection Armor), 1 mm	
Outer Sheath	Material	HDPE(Black), add-on Rodent Repellent	
	Thickness	1.8 mm	



# **ADSS Fiber Optic Cable**

All-Dielectric Self-Supporting

#### Construction Specification

## **Buffer Tube Stranding**

Fiber	Fiber number	Number of	Diameter	Approx. Weight
count	per tube	tube / filler	(mm)	Kg/km
6-24	6	4/1	9.5	

#### Identification

Color Code for Fibers and Tubes TIA/EIA-598-C (Rev.TIA/EIA-598-A).

No.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Slate	White
No.	7	8	9	10	11	12
Color	Red	Black	Yellow	Violet	Rose	Aqua

## Optical Fiber in the Cable

#### Construction

Fiber Type		Single mode type ITU-T G.652.D	
Material		Ge doped fused silica	
Mode field diameter	1310 nm	9.2±0.4 μm	
Core / Cladding concentricity error		≤0.5 µm	
Cladding diameter		125±1 μm	
Cladding non-circularity		≤1.0%	
Coating Material		UV curable acrylate	
	Diameter	245±5 μm(Uncolored) 250±15 μm (Colored)	
Fiber proof-tested		0.69 GPa ( 1.0%, 100kpsi)	

## **Optical characteristics**

Attenuation	@1310nm	≤ 0.36 dB/km	
	@1550nm	≤ 0.22 dB/km	
Zero-dispersion Wavelength		1300~1324 nm	
Zero-dispersion slope	≤ 0.092ps/(nm <sup>2</sup> /km)		
Chromatic Dispersion Coefficient	1310 nm	≤ 3.5 ps/(nm.km)	
	1550 nm	≤ 18.0 ps/(nm.km)	
Cable Cut-off Wavelength (λcc)		≤ 1260nm with EIA/TIA-455-170	
Polarization Mode Dispersion(PMD)		$\leq 0.2 \text{ ps/km}^{1/2}$	

## Physical Specification

Item	Value
Tensile Loading	3,000 N
Max span length	40 - 80 m
Operation temperature	-40 ~ +70 C
Storage temperature	-40 ~ +75 C
Static bending radius	10 x cable OD
Dynamic bending radius	20 x cable OD



# **ADSS Fiber Optic Cable**

## All-Dielectric Self-Supporting

## Cable sheath Marking

The length and identification marking are printed (hot stamp) on the sheath at every one meter interval in white color. The accuracy of the length marking shall be ±1.0 %. The contents of sheath marking as customer's requirement.

- Project owner name (English, Chinese, Thai, etc.)
- TIS 2166 2548
- Name of manufacture
- -Year of manufacture
- Type and size of OFC
- Length marking

## **Ordering Imformation**

No. of core	Description
6	Indoor/Outdoor, 6C ADSS, Multi Loose Tube, Single Jacket, SM 9/125 μm
12	Indoor/Outdoor, 12C ADSS, Multi Loose Tube, Single Jacket, SM 9/125 μm
24	Indoor/Outdoor, 24C ADSS, Multi Loose Tube, Single Jacket, SM 9/125 μm