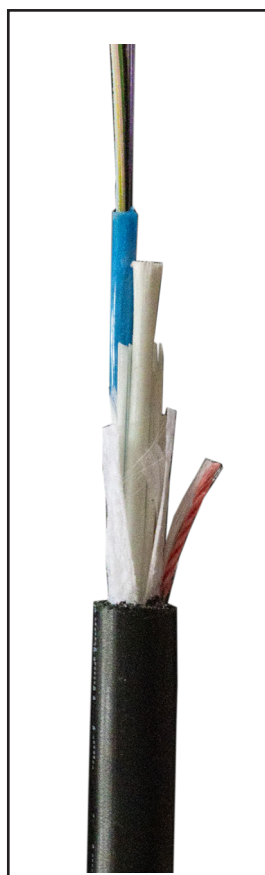


## Data Sheet

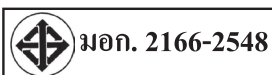
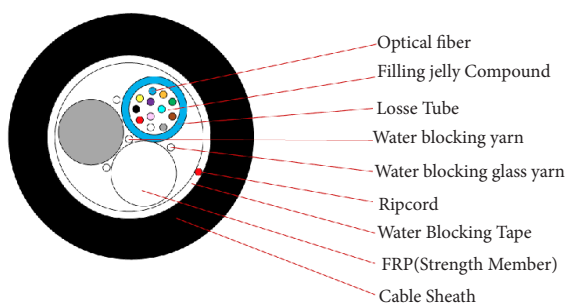
# (Mini-ADSS) Mini-All-Dielectric Self Supporting cables

### Loose Tube Mini-ADSS Cable Aerial

BISMON's Mini-ADSS are Small All-Dielectric self supporting cable and single jacket designed for aerial installation. The optical fiber cable(Mini-ADSS) design provides no supporting part or messenger wire required. BISMON provides for hardware part for installation with Mimi-ADSS cable supporting on the pole. The cable inside 3 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. The cable approved by TISI 2166-2548 in Thailand standard Standard packing(wooden) 4,000M/Reel.



Cross Section



### Product Construction :

#### Fiber :

- ◆ 2-24 Core fibers
- ◆ Loose tube gel-filled

#### Central Strength Member :

- ◆ FRP rod (Fibre Reinforcement Plastic)

#### Water blocking elements :

- ◆ Water blocking yarn&Water blocking tape

#### Outer Jacket :

- ◆ Black UV-and HDPE
- ◆ Made to order cable marking (Thai word)

#### Max Tensile :

- ◆ Max.tensile load: (short term) 1200N

#### Installation conditions :

- ◆ Max. pole span length: 40-80 m
- ◆ Wind velocity : 100 km/hr

### Applications :

- ◆ Adopted to outdoor areial self-supporting installation
- ◆ Long-distance communication, local trunk line, CATV & computer networks system, Telecom or outside plant campus backbone applications
- ◆ Ethernet LAN Network, CCTV, Network Camera, PLC
- ◆ Mechanically, rugged, cable design for : Aerial, duct

### Standards Compliances :

- ◆ IEC 60794, IEC 60793-2, ITU-T Rec.G650, ITU-T Rec.G652D, ITU-T Rec.G655, ITU-T Rec.656, ITU-T Rec.G657, ISO/IEC11801,TIA/EIA-568.C.3, Telcordia GR-409-Core & GR-20, EN50173, ICEA S-104-696&ANSI/ICEA S-87-640, ETL, UL, OFNR/FT40FNP/FT6, ANSI/TIA/EIA-568B3, EIA/TIA-455, CEA-640

### Performance :

Storing temperature : -40 °C to + 85 °C  
 Operating temperature : -40 °C to +70 °C  
 Bending radius : In-Service 10 x Dia ( no load )  
 Installation 20 x Dia ( load )

### Color Code of Fiber (TIA/EIA-598-A)

Fiber No:	1	2	3	4	5	6	7	8	9	10	11	12
Color	blue	orange	green	brown	grey	white	red	black	yellow	violet	pink	aqua

### Applications Speed:

Fiber optic cable is intended for all high speed data applications, including:

IEEE 802.3 FOIRL	10 Mb/s	FDDI	100Mb/s
IEEE 802.3 10Base-F	10 Mb/s	ATM	155Mb/s, 622Mb/s, 1.2/2.4 Gb/s
IEEE 802.3ab 1000Base-SX/LX	1 Gb/s	Fiber Channel FC-PH	1.062 Gb/s
IEEE 802.3ae 10GBASE-X	10 Gb/s		

## (Mini-ADSS) Mini-All-Dielectric Self Supporting cables

Technical data								
Fibers	No. of Fibers	4	6	8	12	24		
Loose tube	Number x Fibers per tube	1x4	1x6	1x4	1x6	2x12		
	No. of Tubes (+Fillers)	1	1	1	1	1		
	Filling compound	Thyrotrophic jelly compound						
	Material	PBT (Polybutylene terephthalate) (natural or white color)						
	Diameter (nominal)/mm	2.00	2.00	2.00	2.00	2.00		
Thickness (nominal)/mm	0.30	0.30	0.30	0.30	0.30			
Strength Member	FRP, Diameter (nominal)/mm	2.0	2.0	2.0	2.0	2.0		
Water blocking elements	Material (cable core covering/filling)	Water blocking yarn and Water blocking Tape						
Ripcords	Material	Polyester cords or Plastic thread. Color red						
	Number	One						
Outer Sheath	Material	UV-Proof High density black polyethylene (HDPE)						
	Thickness (nominal)/mm	1.4	1.4	1.4	1.4	1.4		
	Cable diameter (nominal)/mm	7.5	7.5	7.5	7.5	7.5		
Cable weight	Kg/km (nominal)	52	52	52	52	52		
Packing	Wooden reel, 2.0km/reel±0.5%	950*760	950*760	950*760	950*760	950*760		
Main characteristics								
Max.tensile load	IEC 60794-1-2-E1	Short term : 1200N (Fiber strain ≤ 0.33%, Δα≤0.1 dB)						
Crush resistance	IEC 60794-1-2-E3	Short term : 2200N/10cm (Δα≤0.1 dB, cable integrity)						
Temperature range	IEC 60794-1-2-F1	Operation -40 - >+70 °C Δα≤0.1 dB/km						
Water Penetration	IEC 60794-1-2-F5B	Sample =3m, water=1m, 24h, No water leakage						
Mechanical and Environmental Requirements								
Torsion Test	TIA/EIA-455-58A or IEC-60794-1-E7							
Tensile Performance Test	IEC-60794-1E1A							
Impact Test	TIA/EIA-455-25B or IEC-60794-1-E7							
Repeated Bending Test	TIA/EIA-455-104A or IEC-60794-1-E6							
Compression Test	TIA/EIA-455-41A or IEC-60794-1-E3							
Cable bending Test	IEC-60794-1-E-11B							
Water Penetration Test	TIA/EIA-455-82B							
Temperature Cycling Test	TIA/EIA-455-3A or IEC-60794-1-F1							

### ORDER INFORMATION

Description	Part Number			
	Single-mode	Multi-mode		
	9/125um (G.652.D)	62.5/125um(OM1)	50/125um(OM2)	50/125um(OM3)
4 Core Mini-ADSS, Loose tube, Single Jacket	BMADSSM04SM9	BMADSSM04MM6	BMADSSM04MM5	BMADSSM04MM5OM3
6 Core Mini-ADSS, Loose tube, Single Jacket	BMADSSM06SM9	BMADSSM06MM6	BMADSSM06MM5	BMADSSM06MM5OM3
8 Core Mini-ADSS, Loose tube, Single Jacket	BMADSSM08SM9	BMADSSM08MM6	BMADSSM08MM5	BMADSSM08MM5OM3
12 Core Mini-ADSS, Loose tube, Single Jacket	BMADSSM12SM9	BMADSSM12MM6	BMADSSM12MM5	BMADSSM12MM5OM3
24 Core Mini-ADSS, Loose tube, Single Jacket	BMADSSM24SM9	BMADSSM24MM6	BMADSSM24MM5	BMADSSM24MM5OM3