

Data Sheet

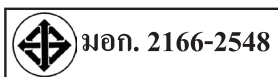
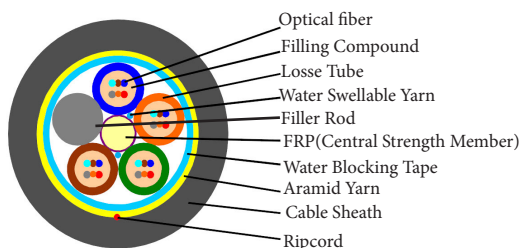
(ADSS) All-Dielectric Self Supporting cables

Loose Tube ADSS Cable Aerial

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



Cross Section



Product Construction :

Fiber :

- ◆ 2-120 Core fibers
- ◆ Loose tube gel-filled
- ◆ Color-coding per TIA/EIA 598-A

Central Strength Member :

- ◆ FRP rod (Fibre Reinforcement Plastic)
- ◆ Aramid Yarn

RipCORDS :

- ◆ 1 ripCORDS made from Polyester cords

Water blocking elements :

- ◆ Water swellable yarn&Water blocking tape

Outer Jacket :

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

Max Tensile :

- ◆ Max.tensile load: (short term) 4000N

Installation conditions :

- ◆ Max. pole span length: 80 m
- ◆ Wind velocity : 150 km/hr

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)

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 Bellcore 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, RoHs

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		

(ADSS) All-Dielectric Self Supporting cables

Technical data								
Fibers	No. of Fibers	4	6	8	12	24	36	48
Loose tube	Number x Fibers per tube	1x4	1x6	2x4	2x6	4x6	3x12	4x12
	No. of Tubes (+Fillers)	5	5	5	5	5	5	5
	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	2.30	2.30
	Thickness (nominal)/mm	0.30	0.30	0.30	0.30	0.30	0.35	0.35
Central Strength Member	FRP, Diameter (nominal)/mm	1.6	1.6	1.6	1.6	1.6	1.8	1.8
Water blocking elements	Material (cable core covering/filling)	Water swellable yarn and Water blocking Tape						
Additional Strength member	Material	Aramid yarn						
RipCORDS	Material	Polyester cords or Plastic thread. Color red						
	Number	One						
Outer Sheath	Material	UV-Proof High density black polyethylene (HDPE)						
	Thickness (nominal)/mm	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	Cable diameter (nominal)/mm	9.8	9.8	9.8	9.8	9.8	10.6	10.6
Cable weight	Kg/km (nominal)	80	80	80	80	80	92	92
Packing	Wooden reel, 2.0km/reel±0.5%	940*700	940*700	940*700	940*700	940*700	1040*600	1040*600
Main characteristics								
Max.tensile load	IEC 60794-1-2-E1	Short term : 4000N (Fiber strain ≤ 0.33%, Δα≤0.1 dB)						
Crush resistance	IEC 60794-1-2-E3	Short term : 1500N/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)
6 Core ADSS, Loose tube, Single Jacket	BMADSS06SM9	BMADSS06MM6	BMADSS06MM5	BMADSS06MM5OM3
12 Core ADSS, Loose tube, Single Jacket	BMADSS12SM9	BMADSS12MM6	BMADSS12MM5	BMADSS12MM5OM3
24 Core ADSS, Loose tube, Single Jacket	BMADSS24SM9	BMADSS24MM6	BMADSS24MM5	BMADSS24MM5OM3
36 Core ADSS, Loose tube, Single Jacket	BMADSS36SM9	BMADSS36MM6	BMADSS36MM5	BMADSS36MM5OM3
48 Core ADSS, Loose tube, Single Jacket	BMADSS48SM9	BMADSS48MM6	BMADSS48MM5	BMADSS48MM5OM3
60 Core ADSS, Loose tube, Single Jacket	BMADSS60SM9	BMADSS60MM6	BMADSS60MM5	BMADSS60MM5OM3
72 Core ADSS, Loose tube, Single Jacket	BMADSS72SM9	BMADSS72MM6	BMADSS72MM5	BMADSS72MM5OM3
96 Core ADSS, Loose tube, Single Jacket	BMADSS96SM9	BMADSS96MM6	BMADSS96MM5	BMADSS96MM5OM3
120 Core ADSS, Loose tube, Single Jacket	BMADSS120SM9	BMADSS120MM6	BMADSS120MM5	BMADSS120MM5OM3