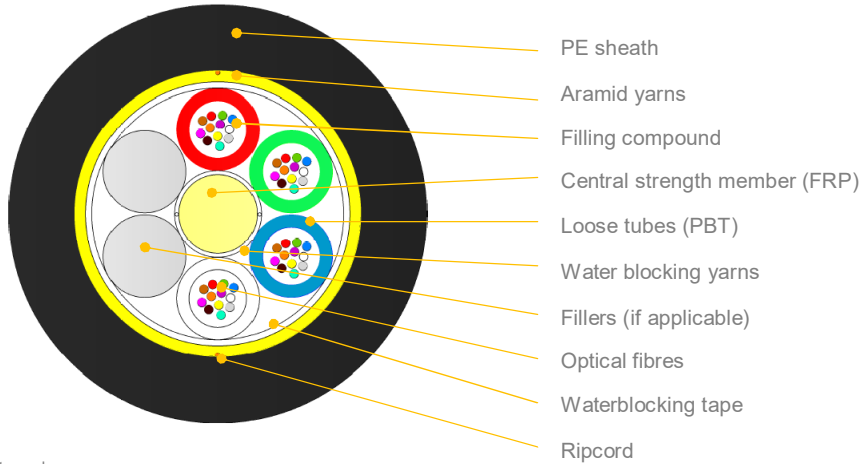


Type:	AERO-AS09	REV: 2
Issued:	30/06/2014	SK
Modified:	03/10/2016	MM

## Single jacket multitube self-supporting aerial cable AERO AS09



\*schematic drawing, not to scale

### APPLICATION:

For installation on poles or in ducts.  
Fully dielectric cable  
Self-supporting aerial cable with aramid reinforcement

### DESIGN:

FRP strength and anti-buckling element  
Dry yarns to prevent moisture into the cable  
Loose tube (PBT Ø 2.5mm) with filling compound  
6-12 elements SZ stranded cable core  
Optical fibres  
Fillers (if applicable)  
Water-swellable tape  
Aramid yarns as strain relief and water absorbent  
UV stabilized PE sheath (black by default, other colours available)

### CONFIGURATION:

Variant	Quantity [pcs]				Ø nominal (±5%) [mm]	Nominal weight (±10%) [kg/km]	Max allowed tension [N]	Max static tension [N]
	Fibres	Fibres per tube	Total elements	Active tubes				
1-6T x 4F	4-24	4	6	1-6	11,6	101	9300	6600
1-6T x 6F	6-36	6	6	1-6	11,6	101	9300	6600
1-6T x 8F	8-48	8	6	1-6	11,6	102	9200	6000
1-6T x 12F	12-72	12	6	1-6	11,7	104	9200	6000
8T x 6F	6-48	6	8	8	13,2	137	9200	6100
8T x 12F	96	12	8	8	13,2	138	9200	6100
12T x 12F	144	12	12	12	16,3	203	9200	6100
Other fiber counts available on demand								

### MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Crush performance:	3000 [N/10 cm]	IEC 60794-1-2-E3, $\Delta\alpha \leq 0,05$ dB, reversible
Bending radius:	Static: 15 x D Dynamic: 20 x D	IEC 60794-1-2-E6, $\Delta\alpha \leq 0,05$ dB, reversible
Water penetration:	3[m] sample, 1[m] head, 24[h]	IEC 60794-1-2-F5, no leakage
Temperature range		IEC 60794-1-2-F1, $\Delta\alpha \leq 0,05$ dB/km
Installation:	-15... +55 [°C]	
Operation:	-40... +70 [°C]	
Transport & Storage:	-40... +70 [°C]	

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## APPLICATION AND CABLE SPAN CHARACTERISTIC

### 6 tubes design

Loading Conditions	Span	Installed Sag (2%)	Tension	Total sag	Horizontal sag	Vertical sag
	[m]	[m]	[N]	[m]	[m]	[m]
NSC Light	530	10.6	9000	24.7	23.7	7.2
NSC Medium	400	8.0	9000	20.1	12.4	15.8
NSC Heavy	230	4.6	9000	12.4	6.2	10.7

### 8 tubes design

Loading Conditions	Span	Installed Sag (2%)	Tension	Total sag	Horizontal sag	Vertical sag
	[m]	[m]	[N]	[m]	[m]	[m]
NSC Light	470	9.4	9000	21.6	20.7	6.2
NSC Medium	370	7.4	9000	18.1	11.1	14.3
NSC Heavy	220	4.4	9000	11.7	5.8	10.2

### 12 tubes design

Loading Conditions	Span	Installed Sag (2%)	Tension	Total sag	Horizontal sag	Vertical sag
	[m]	[m]	[N]	[m]	[m]	[m]
NSC Light	370	7.4	9000	16.1	15.3	16.8
NSC Medium	300	6.0	9000	13.8	8.2	11.1
NSC Heavy	190	3.8	9000	9.6	4.6	8.5

## OPTICAL FIBRES AND LOOSE TUBES COLOUR IDENTIFICATION

Fibres and tubes identification information see **DSH\_Colors\_CODE\_XXXX** document.

## FIBRES PARAMETERS

Optical fibres parameters see **DSH\_OFFP** document.

## MARKING

The following print (white / hot foil) is applied at 1-meter intervals:

- Supplier: FIBRAIN
- Standard code (Product type, fibre type, fibre count)
- Year of manufacture: xxxx
- Length marking in meters
- Cable ID / Drum No

Example: FIBRAIN AERO AS09 SJ T25 12F SM G652D 2T6F "YEAR OF MANUFACTURE" "LASER SYMBOL" "LENGTH MARKING" "BATCH NUMBER"

The accuracy of marking is  $\pm 0,5\%$ . Remarking is in accordance with Bellcore GR 20 and supersedes earlier markings. Occasional loss of marking is possible. Cables can be supplied with a range of single mode or multimode fibres and customized print.

## PACKING

Cables will be shipped on disposable wooden or treated wooden drums. Both ends of the cable will be capped and accessible for testing. Rotation direction arrow will be marked on the drum together with identification information.

## DELIVERY LENGTH

2000 – 8000 meters  $\pm 5\%$ , with possibility of supplying up to 5% of total contract quantity as short length cables which should be above 1000 meters long. Tolerance of 5 % of order quantity shall be allowed.