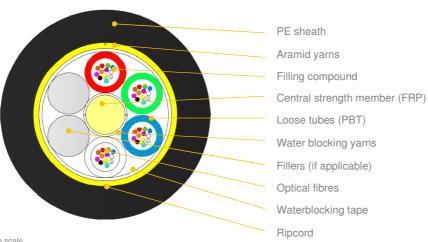


Туре:	AERO-AS09	REV: 2.2
Issued:	30/06/2014	SK
Modified:	29/12/2020	KP

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 For installation along power lines with an operation voltage below 150 kV and producing space potential below 4 kV.

DESIGN:

FRP strength and anti-buckling element Dry yarns to prevent moisture into the cable Loose tube (PBT Ø 2.5mm) with filing 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:

	Quantity [pcs]				Ø nominal	Nominal	Max	Max
Variant	Fibres	Fibres per tube	Total elements	Active tubes	(±5%)	weight (±10%)	allowed tension	static tension
					[mm]	[kg/km]	[N]	[N]
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 60794-1-21-E3, Δα≤0,05 dB, reversible

15 x D Bending radius: Static:

Dynamic: 20 x D IEC 60794-1-21-E6, Δα≤0,05 dB, reversible

Water penetration: 3[m] sample, 1[m] head, 24[h] IEC 60794-1-22-F5, no leakage

IEC 60794-1-22-F1, Δα≤0,05 dB/km

Temperature range Installation: -15... +55 [°C] Operation:

-40... +70 [°C] -40... +70 [°C] Transport & Storage:



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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

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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 FIBRE AND LOOSE TUBES COLOUR IDENTIFICATION

For optical fibres and loose tube identification information please see DSH_Colors_CODE_XXXX document.

FIBRE PARAMETERS

For selected post-production optical fibres parameters please see DSH_OFP document.

MARKING

The following print (hot foil / laser printing) 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 T25 12F SM G652D 2T6F "YEAR OF MANUFACTURE" "LASER SYMBOL" "LENGTH MARKING" "BATCH NUMBER"

The accuracy of marking is ±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.

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