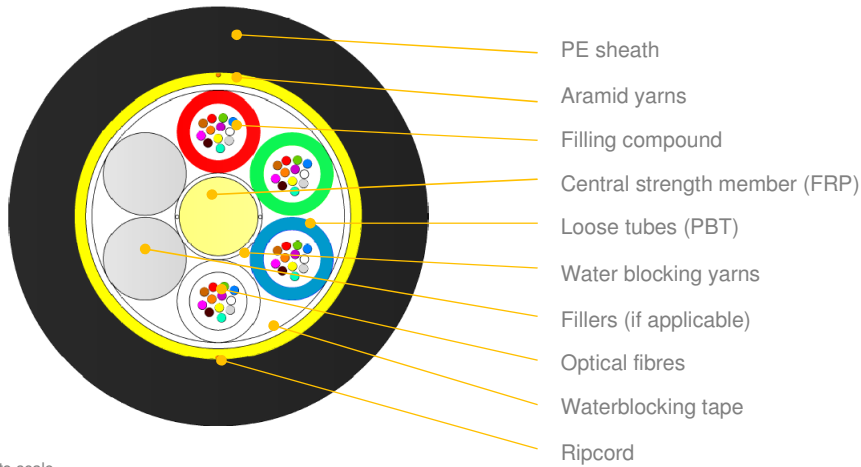


## Single jacket multitube self-supporting aerial cable AERO AS04



\*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)

### CABLE DESIGNS:

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	11,4	98	4200	2900
1-6T x 6F	6-36	6	6	1-6	11,4	98	4200	2900
1-6T x 8F	8-48	6	6	1-6	11,4	98	4200	2700
1-6T x 12F	12-72	12	6	1-6	11,4	99	4100	2600
8T x 12F	96	12	8	8	13,1	128	4200	2800
12T x 12F	144	12	12	12	16,2	194	4100	2700
Other Fiber counts available on demand								

### MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Crush performance:	3000 [N/10 cm]	IEC 60794-1-21-E3, $\Delta\alpha \leq 0,05$ dB, reversible
Bending radius:	Static: 15 x D Dynamic: 20 x D	IEC 60794-1-21-E6, $\Delta\alpha \leq 0,05$ dB, reversible
Water penetration:	3[m] sample, 1[m] head, 24[h]	IEC 60794-1-22-F5, no leakage
Temperature range		IEC 60794-1-22-F1, $\Delta\alpha \leq 0,05$ dB/km
Installation:	-15... +55 [°C]	
Operation:	-40... +70 [°C]	
Transport & Storage:	-40... +70 [°C]	

### 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	260	5.2	4100	12.4	11.9	3.6
NSC Medium	190	3.8	4100	9.7	6.0	7.6
NSC Heavy	110	2.2	4100	6.0	3.0	5.2

Type:	AERO-AS04 T25	REV: 2.2
Issued:	16/07/2014	SK
Modified:	22/12/2020	KP

8 tubes design:

Loading Conditions	Span	Installed Sag (2%)	Tension	Total sag	Horizontal sag	Vertical sag
	[m]	[m]	[N]	[m]	[m]	[m]
NSC Light	220	4.4	4200	10.0	9.6	3.0
NSC Medium	170	3.4	4200	8.3	5.1	6.6
NSC Heavy	100	2.0	4200	5.3	2.7	4.6

12 tubes design:

Loading Conditions	Span	Installed Sag (2%)	Tension	Total sag	Horizontal sag	Vertical sag
	[m]	[m]	[N]	[m]	[m]	[m]
NSC Light	170	3.4	4100	7.5	7.1	2.4
NSC Medium	140	2.8	4100	6.5	3.9	5.3
NSC Heavy	85	1.7	4000	4.4	2.1	3.8

**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 (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 AS04 T25 12F SM G652D 2T6F "YEAR OF MANUFACTURE" "LASER SYMBOL" "LENGTH MARKING" "BATCH NUMBER"

The accuracy of marking is ±0,5%. Remarkings 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.

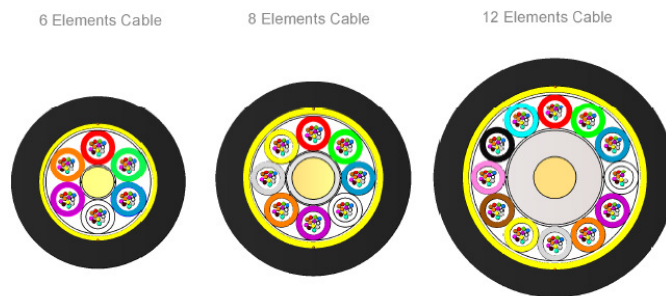
**PACKING**

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 ± 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.

**ANNEX – DRAWINGS:**



\*schematic drawing, not to scale

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