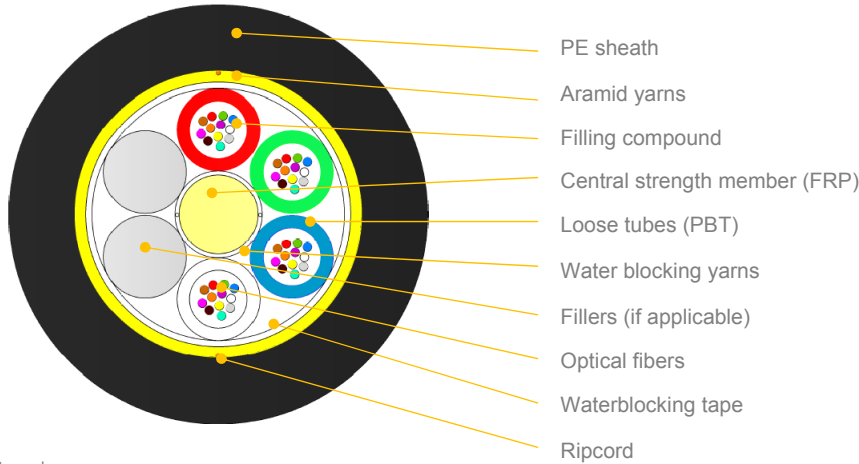


Type:	AERO-AS04	REV: 1.2
Issued:	01/01/2014	SK
Modified:	13/11/2015	PB

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 2.0mm) 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

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 6F
1-6T x 12F	12-72	12	6	6	1-6	10,1	82	4000	2000
8T x 6F	48	6	8	8	8	11,3	98	4200	2500
8T x 12F	96	12	8	8	8	11,4	103	4200	2100
12T x 12F	144	12	12	12	12	13,9	149	4100	2000
Other fibre counts available on demand									

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Crush performance:	2000 [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	250	5,0	4000	10,6	10,2	3,1
NSC Medium	170	3,4	4000	7,6	4,8	6,0
NSC Heavy	95	1,9	4000	4,5	2,3	3,9

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	4100	8,9	8,6	2,6
NSC Medium	160	3,2	4100	6,9	4,3	5,5
NSC Heavy	90	1,8	4100	4,1	2,1	3,5

12 tubes design:

Loading Conditions	Span	Installed Sag (2%)	Tension	Total sag	Horizontal sag	Vertical sag
	[m]	[m]	[N]	[m]	[m]	[m]
NSC Light	175	3,5	4100	6,9	6,6	2,2
NSC Medium	135	2,7	4000	5,7	3,4	4,5
NSC Heavy	80	1,9	4000	3,6	1,8	3,1

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 AS04 SJ T20 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.

ANNEX – DRAWINGS:

6 Elements Cable



8 Elements Cable



12 Elements Cable



*schematic drawing, not to scale