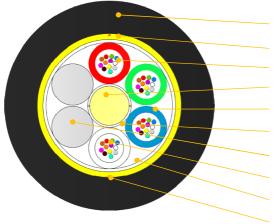


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Single jacket multitube self-supporting aerial cable AERO AS04



PE sheath Aramid yarns

- Filling compound
- Central strength member (FRP)
- Loose tubes (PBT)
- Water blocking yarns
- Fillers (if applicable)
- Optical fibres
- Water-blocking tape and/or yarns
- Ripcord

*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

Highly resistant, UV stabilized HDPE outer jacket Aramid yarns reinforcement SZ stranded cable core FRP central rod Jelly filled, PBT loose tubes (2,0mm) with optical fibres Dry cable core - water-blocking tape and/or yarns Ripcord – two pieces on opposite sides

		Quant	ity [pcs]		Ø nominal	Nominal	Max	Max
Variant	Fibres	Fibres	Total	Active	(±5%)	weight (±10%)	allowed tension	static tension
		per tube	elements	tubes	[mm]	[kg/km]	[N]	[N]
1-6T x 6F	6-36	6	6	1-6	10,1	76	4100	2400
1-6T x 8F	8-48	8	6	1-6	10,1	78	4100	2400
1-6T x 12F	12-72	12	6	1-6	10,1	82	4000	2000
8T x 6F	48	6	8	8	11.3	98	4200	2500
8T x 12F	96	12	8	8	11,4	103	4200	2100
12T x 12F	144	12	12	12	13,9	149	4100	2000
16-18T x12F	192 - 216	12	18	16-18	14,5	152	4000	1800
20-24T x 12F	240 - 288	12	24	20-24	16,4	197	4100	2000

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Crush performance:	2000 [N/10 cm]	IEC 60794-1-21-E3, Δα≤0,05 dB, reversible
Bending radius:	Static: 15 x D 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
Temperature range Installation: Operation: Transport & Storage:	-15 +55 [℃] -40 +70 [℃] -40 +70 [℃]	IEC 60794-1-22-F1, Δα≤0,05 dB/km



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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

18 tubes design:

Loading Conditions	Span	Installed Sag (2%)	Tension	Total sag	Horizontal sag	Vertical sag
	[m]	[m]	[N]	[m]	[m]	[m]
NSC Light	160	3,2	4000	6,1	5,8	2,0
NSC Medium	130	2,6	4000	5,3	3,1	4,3
NSC Heavy	75	1,5	4000	3,5	1,7	3,1

24 tubes design:

Loading Conditions	Span	Installed Sag (2%)	Tension	Total sag	Horizontal sag	Vertical sag
	[m]	[m]	[N]	[m]	[m]	[m]
NSC Light	150	3.0	4100	5.9	5.5	1.9
NSC Medium	125	2.5	4100	5.2	3.1	4.2
NSC Heavy	75	1.5	4100	3.3	1.6	2.9

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 stamped, laser or other suitable printing method) 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 T20 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.



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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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