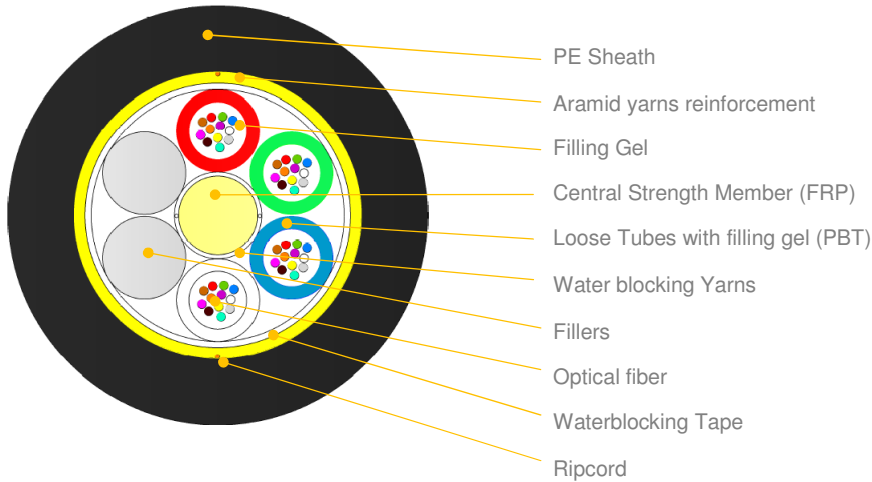


Type:	AERO-AS07	REV: 1
Created:	01/01/2014	SK
Modified:	25/03/2020	AM

Single Jacket Aerial Cable Multitube Structure AERO AS07



*not in scale

APPLICATION:

For installation on poles or in ducts.
Good resistance to traction and compression
Fully dielectric cable
Self-supported aerial cable with aramid reinforcements
UV resistant
For installation along power lines with an operation voltage below 150 kV and producing space potential below 4 kV.

STRUCTURE AND COMPOSITION:

FRP strength and anti-buckling element Ø 2,1mm
Optical fibres
Loose tube jelly filled (PBT Ø 2.0mm)
6 elements SZ stranded cable core
Dry yarns to prevent moisture into cable
Aramid yarns as tensile elements
PE Outer Sheath

BASIC CABLE PARAMETERS:

Version	Qnt				Ø nominal (+5%) [mm]	Nominal weight (+10%) [kg/km]	Max. tensile load short term [N]	Max. tensile load long term [N]
	Fibers	Fibers per tube	Total elements	Active tubes				
1T x 12F	12	12	6	1	10,3	62	7070	3600
2T x 12F	24	12	6	2	10,3	62	7070	3600
3T x 12F	36	12	6	3	10,3	63	7070	3600
4T x 12F	48	12	6	4	10,3	63	7070	3600
5T x 12F	60	12	6	5	10,3	64	7070	3600
6T x 12F	72	12	6	6	10,3	64	7070	3600

Other Fiber counts available on demand

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Crush performance	2000N [N/10 cm]	IEC 60794-1-21-E3, no attenuation increase
Bending performance	10 [cycles (15x D)]	IEC 60794-1-21-E11, no attenuation increase
Water penetration	3m sample, 1m head, 24h	IEC 60794-1-22-F5, no leakage
Temperature range:	Installation -15... +55 [°C] Operation -40... +70 [°C] Transport & Storage -40... +70 [°C]	IEC 60794-1-22-F1, no attenuation increase

APPLICATION AND CABLE SPAN CHARACTERISTIC

6 Tubes Construction:

Loading Conditions	Span [m]	Installed Sag (1%) [m]	Force [N]	Total Sag [m]
NSC Heavy	140	1,4	7070	5,56

OPTICAL FIBRE AND LOOSE TUBES COLOUR IDENTIFICATION

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

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FIBRE PARAMETERS

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

MARKING

The following printing (white hot foil indentation) is applied at 1-meter intervals.

- Supplier: FIBRAIN
- Standard Code (Product Type, Fiber Type, Fiber Count):
- Year of manufacture: xxxx
- Length marking in meters
- Cable ID/ Drum No

Example: FIBRAIN AERO AS07 T20 48F SM G652D 4T12F "YEAR OF MANUFACTURE" "LASER SYMBOL" "LENGTH MARKING" "BATCH NUMBER"

The accuracy of marking is ± 0.5%. Occasional loss of printing and remarking is in accordance with Bellcore GR 20 and supersedes earlier markings. Cables can be supplied with a range of single mode or multimode fibers and customized printing.

PACKAGING

The cables will be shipped on disposable wooden or treated wooden drums. The inner and outer ends of the cable will be capped and made accessible for testing. A direction of rotation arrow is marked on the drum together with the identification information.

DELIVERY LENGTH

2000 – 8000 meters ± 5%, with an allowance of supplying a maximum of 5% of a total contract quantity as short length cables which should be above 1000 meters long. Tolerance of 5 % of on Order Quantity shall be allowed.

The information is believed to be correct at the time of issue. Fibrain reserves the right to change this specification without prior notice. This specification is not contractually valid unless specifically authorised by Fibrain. Buyer and/or user of this product has to make sure before using this product that it is suitable for the intended use. All questions of liability relating to this product are subject – in accordance with the prevailing – to the Terms of Sale of the selling Fibrain subsidiary.