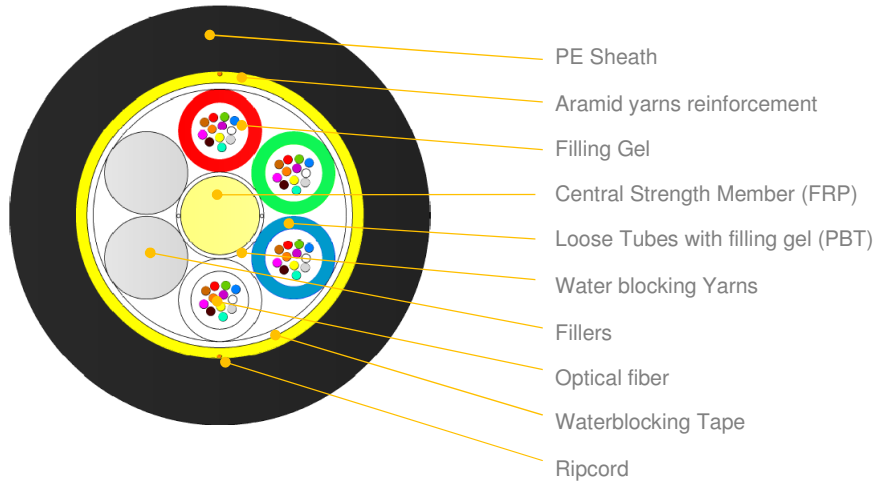


Type:	AERO-AS07	REV: 1.1
Created:	01/01/2014	SK
Modified:	22/12/2020	KP

## 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  $\varnothing$  2,1mm  
Optical fibres  
Loose tube jelly filled (PBT  $\varnothing$  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	Qty				$\varnothing$ 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  $\pm 0.5\%$ . 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  $\pm 5\%$ , 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.

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