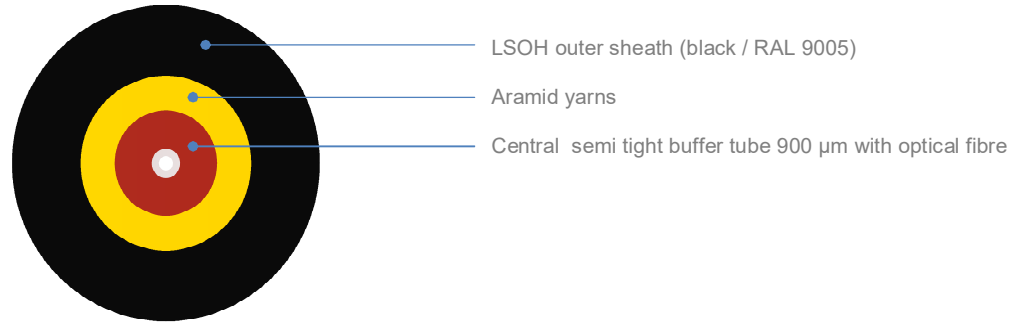


## FIBRAIN AERO-DR03



\*Schematic drawing, not to scale

### APPLICATION:

For installation on poles  
Fully dielectric  
Aerial cable with aramid reinforcement

### DESIGN:

Semi tight buffer with 1 optical fibre (0.9mm)  
Module with 2 optical fibres (option)  
Aramid yarns  
LSOH outer 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 or module	Total elements	Active tubes or modules				
1F	1	1	1	1	3,0	9,5	300	100

### TECHNICAL AND ENVIRONMENTAL CABLE CHARACTERISTICS:

Max allowed tension	EN 187101, IEC 60794-1-2-E1, $\epsilon=0,4$ [%]	300 [N]
Max static tension	EN 187101, IEC 60794-1-2-E1, $\epsilon=0,05$ [%]	100 [N]
Crush performance	EN 187101, IEC 60794-1-2-E3	3000 [N/10 cm], $\Delta\alpha$ reversible
Bending performance	EN 187101, IEC 60794-1-2-E6, 15 x D, 25[N], 10 cycles	$\Delta\alpha \leq 0,1$ [dB/km], no damage
Impact	EN 187101, IEC 60794-1-2-E4	$\leq 10N.m$ (no sheath breaks)
Temp. range	Installation	-5... +55 [°C]
	Operation	-40... +70 [°C]
	Transport & Storage	-40... +70 [°C]
Water penetration	IEC 60794-1-2-F5, no leakage	3[m] sample 1[m] head for 24[h]

### 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.

### APPLICATION AND CABLE SPAN CHARACTERISTIC

Loading Conditions	Span	Installed Sag (2%)	Tension	Total sag	Horizontal sag	Vertical sag
	[m]	[m]	[N]	[m]	[m]	[m]
Ice- 0 mm Wind- 94,4 km/h	55	1.1	300	2,1	1,8	1,0
Ice- 3,0 mm Wind- 62.8 km/h	40	0,8	300	1,6	1,34	0,87
Ice- 4,0 mm Wind- 70 km/h	30	0,6	300	1,23	1,09	0,57

Type:	AERO-DR03	REV: 1.2
Issued:	18/05/2016	PB
Modified:	07/02/2017	AM

## MARKING

The following print (jet printed) 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-DR03 1F SM G652D "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, treated wooden, or plywood drums. Both ends of the cable will be capped and accessible for testing. Identification information will be placed on a drum.

## 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.