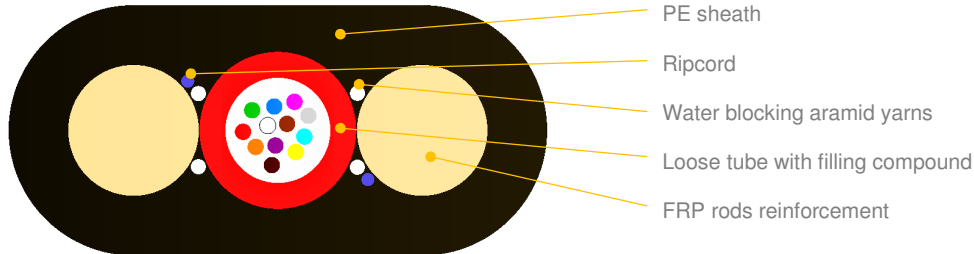


Type:	AERO DF03	REV: 7.9
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## Flat Drop Optical Cable AERO DF03 up to 24 fibers



\*not to scale

### APPLICATION

Installation on poles or walls  
Installation into pipelines  
Fully dielectric  
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  
Two FRP rods  
Aramid yarns as a strain relief and water absorbent  
Jelly filled central loose tube (PBT) with up to 24 optical fibres  
Ripcord for easy sheath removal

### CABLE VARIANTS

Variant	Ø nominal	Tube diameter	Fibres	Nominal weight (±10%)	Max short term load	Max long term load
	[mm]	[mm]	[pcs]	[kg/km]	[N], $\epsilon_r \leq 0,6\%$	[N], $\epsilon_r \leq 0,2\%$
1 – 12	8,3 x 4,6 (typically $\pm 0,3$ max 8,9 x 5,1)	1,8	1-12	39	1800	500
16 – 24	8,7 x 5,0 (typically $\pm 0,3$ max 9,3 x 5,5)	2,6	16-24	47	1800	500

### MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS (ALL VARIANTS)

Crush performance	5000 [N/10 cm]	IEC 60794-1-21-E3, attenuation $\leq 0.05$ dB, no damage*
Bending performance	20 x D (10 cycles)	IEC 60794-1-21-E6, attenuation $\leq 0.05$ dB, no damage*
Water penetration	3m sample, 1m head, 24h	IEC 60794-1-22-F5, no leakage
Temperature range:		IEC 60794-1-22-F1, attenuation $\leq 0.05$ dB/km*
	Installation	-15... +55 [°C]
	Operation	-40... +70 [°C]
	Transport & Storage	-40... +70 [°C]

(\*) The declared values apply only to cables with single-mode fibres and are given for 1550nm wavelength.

### APPLICATION AND CABLE SPAN CHARACTERISTIC

Loading Conditions**	Span [m]	Installed Sag (2%) [m]	Force [N]	Total Sag [m]	Sag Vertical [m]	Sag horizontal [m]
NSC Light	140	2,8	1800	5,0	1,6	4,8
NSC Medium	75	1,5	1800	2,8	2,2	1,8
NSC Heavy	40	0,8	1800	1,5	1,3	0,8

(\*\*) values in the table above are for the construction: 1-12F

### 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\_OFPP document.

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## 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 DF03 4F SM G652D 1T4F "YEAR OF MANUFACTURE" "LASER SYMBOL" "LENGTH MARKING" "BATCH NUMBER"

The accuracy of marking is  $\pm 1\%$ . Remarkings 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. Identification information will be placed on the 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.

*This document and the statements contained in it are not intended for customers within the meaning of the Civil Code. The information submitted in this document is to our knowledge and belief true at the time of issue, however, we do not assume any liability whatsoever for its accuracy, and completeness. This document is for informational purposes on an "as is" basis only and Fibrain reserves the right to change its contents at any time without prior notice. The specification cannot, in any case, be considered an offer within the meaning of the Civil Code and is not contractually valid unless specifically authorized by Fibrain. Before using this product, its buyer and/or user has to make sure that it is suitable for the intended use. All liability issues related to this product are subjected to the seller's separate Terms of Sale or the terms and conditions agreed with the Fibrain representative or distributor.*