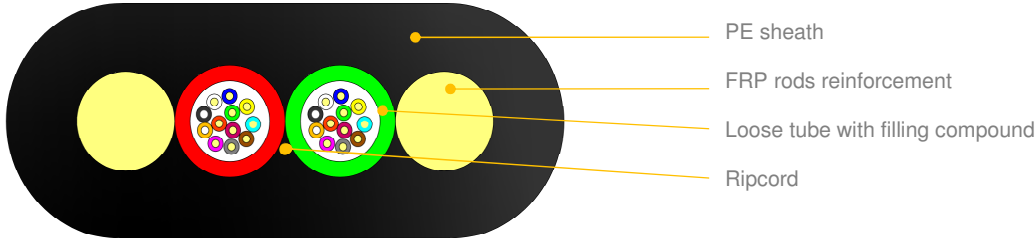


Type:	AERO2 DDF2	REV: 1
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Project:	057-21	

## Flat Drop Optical Cable AERO DDF2 up to 24 fibers



\*not to scale

### APPLICATION:

For installation on poles or walls  
Can be installed in pipelines  
Fully dielectric cable  
For installation along power lines with an operation voltage below 150 kV and producing space potential below 4 kV.

### STRUCTURE AND COMPOSITION:

Loose tubes (PBT) with filling compound  
Up to 12 fibres in a central tube  
Two FRP strength elements  
Ripcord yarns for easy sheath removal  
PE UV resistant sheath

### CABLE VARIANTS

Fibre count [pcs]	4-24
Central tube diameter [mm]	2 x 1,8
Cable dimensions [mm]	9,1 x 3,8 (typically ±0,3 max 9,5 x 4,3)
Cable weight [kg/km]	39
Max. operational tension [N]	500
Max allowable tension [N]	1500

### MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS (ALL VARIANTS)

Crush performance	4000 [N/10 cm/1min]	IEC 60794-1-21-E3, $\Delta\alpha$ reversible, no damage
Bending performance	15 x D (10 cycles)	IEC 60794-1-21-E6, $\Delta\alpha \leq 0.05$ dB, no damage
Water penetration	3m sample, 1m head, 24h	IEC 60794-1-22-F5, no leakage
Impact:	10 [J]	IEC 60794-1-21 E4, $\Delta\alpha \leq 0.05$ dB
Temperature range:		IEC 60794-1-22-F1, $\Delta\alpha \leq 0.05$ dB/km
	Installation	-15... +55 [°C]
	Operation	-40... +70 [°C]
	Transport & Storage	-40... +70 [°C]

### APPLICATION AND CABLE SPAN CHARACTERISTIC

Loading Conditions	Span	Installed Sag (1,5%)	Tension	Total sag	Horizontal sag	Vertical sag
	[m]	[m]	[N]	[m]	[m]	[m]
NSC Light	90	1,3	1500	3,8	3,7	1,0
NSC Medium	55	0,8	1500	3,3	2,1	2,6
NSC Heavy	30	0,4	1500	2,0	1,0	1,7

### 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 (laser or other suitable 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 DDF2 24F SM G652D 2T12F "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.

## PACKAGING

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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