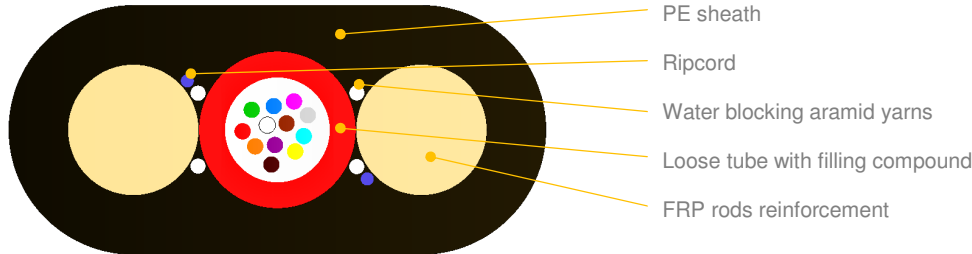


Type:	AERO DF03	REV: 7.5
Issued:	13/11/2015	PB
Modified:	25/03/2020	AM

Flat Drop Optical Cable AERO DF03 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.

DESIGN:

Central loose tube (PBT) with filling compound
Up to 24 fibres in a central tube
Two FRP strength elements
Aramid yarns as strain relief and water absorbent
Ripcord for easy sheath removal
UV stabilized HDPE jacket

CABLE VARIANTS

Variant	AERO DF03	AERO DF03
Fibre count [pcs]	1-12	16-24
Central tube diameter [mm]	1,8	2,6
Cable dimensions [mm]	8,3 x 4,6 (typically $\pm 0,3$ max 8,9 x 5,1)	8,7 x 5,0 (typically $\pm 0,3$ max 9,3 x 5,5)
Cable weight [kg/km]	37	38
Max. static tension [N]	500	500
Max allowable tension [N]	1800	1800

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS (ALL VARIANTS)

Crush performance	5000 [N/10 cm]	IEC 60794-1-21-E3, attenuation ≤ 0.05 dB, no damage
Bending performance	20 x D (10 cycles)	IEC 60794-1-21-E6, attenuation ≤ 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 ≤ 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 [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

(**) values for single-mode fibres, all optical measurements performed at 1550nm

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_OFP](#) document.

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MARKING

The following print (inkjet / 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 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.