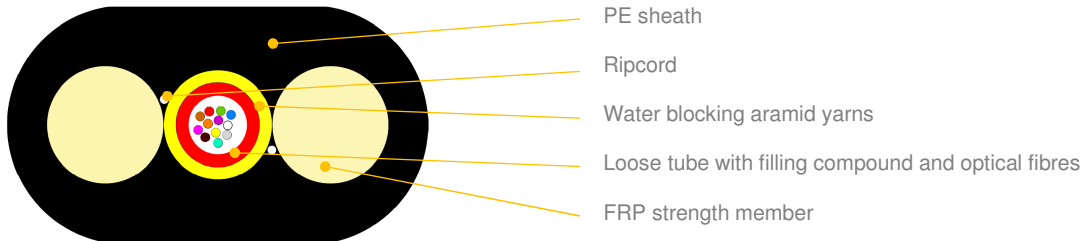


Flat Drop Optical Cable AERO DF04 up to 24 fibers



*schematic drawing, not to scale

APPLICATION:

For installation on poles or walls in distances up to 55 m
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 cable
Two FRP rods and aramid yarns as strength elements
Swellable aramid yarns to prevent moisture into the cable
Ripcord for easy sheath removal
UV resistant PE sheath

CABLE VARIANTS

Variant	AERO DF04	AERO DF04
Fibre count	1-12	16-24
Cable dimensions [mm]	9,2 x 4,8 (±3%)	9,9 x 5,0 (±3%)
Cable weight [kg/km]	51	57
Max. operational tension [N]	500	500
Max Allowable Tension [N]	2500	2500

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS (ALL VARIANTS)

Crush performance	5000 [N/10 cm]	IEC 60794-1-21-E3, $\Delta\alpha \leq 0,05$ dB, reversible, no damage
Bending performance	20 x D (10 cycles)	IEC 60794-1-21-E6, $\Delta\alpha \leq 0,05$ dB, reversible, no damage
Water penetration	3[m] sample, 1[m] head, 24[h]	IEC 60794-1-22-F5, no leakage
Temperature range:		IEC 60794-1-22-F1, $\Delta\alpha \leq 0,05$ dB/km
	Installation	-10... +50 [°C]
	Operation	-40... +70 [°C]
	Transport & Storage	-40... +70 [°C]

APPLICATION AND CABLE SPAN CHARACTERISTIC

AERO-DF04 1-12F

Loading Conditions	Span	Installed Sag (2%)	Tension	Total sag	Horizontal sag	Vertical sag
	[m]	[m]	[N]	[m]	[m]	[m]
NSC Light	150	3,0	2500	5,5	5,3	1,6
NSC Medium	95	1,9	2500	3,6	2,3	2,9
NSC Heavy	55	1,1	2500	2,2	1,1	1,9

AERO-DF04 16-24F

Loading Conditions	Span	Installed Sag (2%)	Tension	Total sag	Horizontal sag	Vertical sag
	[m]	[m]	[N]	[m]	[m]	[m]
NSC Light	140	2,8	2500	5,1	5,0	1,5
NSC Medium	90	1,8	2500	3,4	2,1	2,7
NSC Heavy	50	1,0	2500	1,9	1,0	1,7

Type:	AERO DF04	REV: 3.4
Created:	07/08/2014	SK
Modified:	13/08/2021	AM

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_OFP document.

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 DF04 4F SM G652D 1T4F "YEAR OF MANUFACTURE" "LASER SYMBOL" "LENGTH MARKING" "BATCH NUMBER"

The accuracy of marking is $\pm 1\%$. 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 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.

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