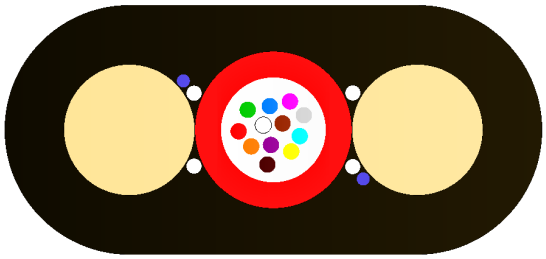
Type:	AERO DF03	REV: 7.8
Issued:	13/11/2015	PB
Modified:	18/01/2022	KP

Flat Drop Optical Cable
AERO DF03 up to 24 fibers



PE sheath

Ripcord

Water blocking aramid yarns

Loose tube with filling compound

FRP rods reinforcement

*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], $\varepsilon_f \leq 0{,}6\%$	[N], $\varepsilon_f \leq 0{,}2\%$
1 – 12	8,3 x 4,6 (typically ±0,3 max 8,9 x 5,1)	1,8	1-12	39	1800	500
16 – 24	8,7 x 5,0 (typically ±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 ≤ 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 [℃]
	Operation	-40… +70 [℃]
	Transport & Storage	-40… +70 [℃]

(*) 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_OFP document.