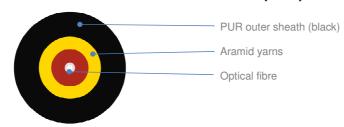


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FIBRAIN AERO-DR03 (PUR)



*Schematic drawing, not to scale

APPLICATION:

For installation on poles Fully dielectric Aerial cable with aramid reinforcement

DESIGN:

1-2 optical fibres Aramid yarns as strain relief and water absorbent Black PUR outer sheath (flame retardant, halogen free) UV resistant additive

CABLE DESIGNS:

Variant	Quantity [pcs]				Ø nominal	Nominal	Max
	Fibres	Active tubes or modules	Total elements	Active tubes or modules	(±5%)	weight (±10%)	allowed tension
					[mm]	[kg/km]	[N]
1F	1	1 (900µm)	1	1	3,0	8	300
2F	2	0 (2x250μm)	0	0	3,0	8	300

MAIN MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Test		Test Standard	Specified Value	Requirement*	
Max allowed to	ension	IEC 60794-1-21-E1	Load: as provided in table above	$\Delta \epsilon_{\text{f}} \leq 0.6\%$, $\Delta \alpha 0.1 \text{ [dB/km]}$	
Crush		IEC 60794-1-21-E3	2000 N / 100 mm, max. 15 min	$\Delta\alpha$ reversible, no significant damage	
Impact		IEC 60794-1-21-E4	10 Nm, 3 impacts, R= 300 mm	$\Delta \alpha \le 0.05$ dB after the test	
Torsion		IEC 60794-1-21-E7	50N, ±180°, 10 cycles	$\Delta \alpha \leq 0,05$ dB, no damage	
Repeated Ben	ding	IEC 60794-1-21-E6	R=12x D, 50N, 20 cycles	no damage	
Installation			-5 +55 [℃]		
Temp. range	Operation	IEC 60794-1-22-F1	∆α≤0,1 [dB/km]	-40 +70 [°C]	
	Transport & Storage			-40 +70 [°C]	
Water penetra	tion	IEC 60794-1-22-F5B	Sample=3m, water column=1m, 24h	no water leakage	

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

OPTICAL FIBRES AND LOOSE TUBES COLOUR IDENTIFICATION

For optical fibres and tubes identification information please see DSH_Colors_CODE_XXXX document.

FIBRES PARAMETERS

For selected post-production optical fibres parameters please see **DSH_OFP** document.

APPLICATION AND CABLE SPAN CHARACTERISTIC

Loading conditions	Span	Installed Sag (2%)	Tension	Total sag	Horizontal sag	Vertical sag
	[m]	[m]	[N]	[m]	[m]	[m]
Ice- 0 mm Wind- 94,4 km/h	55	1.1	300	2,1	1,8	1,0
Ice- 3,0 mm Wind- 62.8 km/h	40	0,8	300	1,6	1,34	0,87
Ice- 4,0 mm Wind- 70 km/h	30	0,6	300	1,23	1,09	0,57



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MARKING

The following print (jet printed) 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-DR03 PUR 1F SM G657A1 "YEAR OF MANUFACTURE" "LASER SYMBOL" "LENGTH MARKING" "BATCH NUMBER"

The accuracy of marking is ±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.

PACKING

Cables will be shipped on disposable plywood drums. Both ends of the cable will be capped and at least one accessible for testing. Identification information will be placed on a 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.