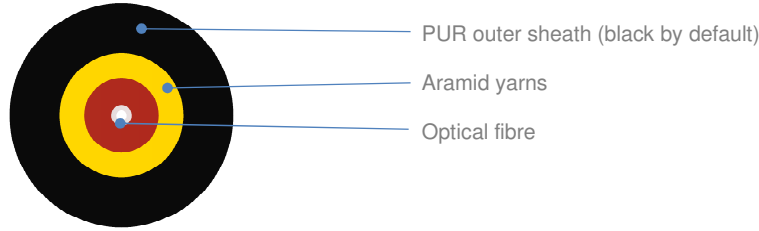


FIBRAIN AERO-DR03 (PUR)



*Schematic drawing, not to scale

APPLICATION

Installation on poles
Fully dielectric
Aerial applications

DESIGN

Flame retardant, halogen free PUR outer jacket
UV resistant additive
Aramid yarns reinforcement
1-2 optical fibres in 900um buffer or guided directly into the cable

CABLE DESIGNS

Variant	Quantity [pcs]				Ø nominal (±5%) [mm]	Nominal weight (±10%) [kg/km]	Max allowed tension [N]
	Fibres	Active tubes or modules	Total elements	Active tubes or modules			
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 tension	IEC 60794-1-21-E1	Load: as provided in table above	$\Delta\epsilon \leq 0,6\%$, $\Delta\alpha 0,1$ [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	$\Delta\alpha \leq 0,05$ dB after the test
Torsion	IEC 60794-1-21-E7	50N, $\pm 180^\circ$, 10 cycles	$\Delta\alpha \leq 0,05$ dB, no damage
Repeated Bending	IEC 60794-1-21-E6	R=12x D, 50N, 20 cycles	no damage
Temp. range	Installation	IEC 60794-1-22-F1	-5... +55 [°C]
	Operation		-40... +70 [°C]
	Transport & Storage		-40... +70 [°C]
Water penetration	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_OFFP** 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

MARKING

The following print (inkjet) is applied at 1-meter intervals:

- Supplier: FIBRAIN
- Standard code (Product type, fibre type, fibre count)
- Year of manufacture: xxxx

Type:	AERO-DR03 (PUR)	REV: 1.5
Issued:	08/04/2019	AM
Modified:	02/11/2021	KP

- 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 $\pm 0,5\%$. 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.

STANDARD 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.

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