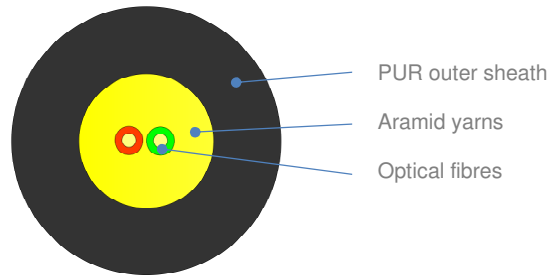


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FIBRAIN AERO-DR035



*Schematic drawing, not to scale

APPLICATION:

For installation on poles
Fully dielectric
Aerial cable with aramid reinforcement

DESIGN:

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

CABLE DESIGNS:

Variant	Fibres	Ø nominal (±5%)	Nominal weight (±10%)	Max allowed tension
	[pcs]	[mm]	[kg/km]	[N]
2F	2	3,5	11	840

MAIN MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Test	Test Standard	Specified Value	Requirement*
Max allowed tension (short term)	IEC 60794-1-21-E1	840N, 10 min	$\Delta\alpha$ reversible
Max operational tension	IEC 60794-1-21-E1	500 N	$\Delta\alpha \leq 0.1$ dB/km
Crush	IEC 60794-1-21-E3	1000 N / 100 mm, 10 min	$\Delta\alpha \leq 0,1$ dB, after test
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		-30... +60 [°C]
	Transport & Storage		-30... +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

SPAN CHARACTERISTIC

Loading conditions	Max SPAN	Installed SAG (1%)
	[m]	[m]
Wind: 22 [m/s] According to PN-EN 1991-1-4:2005 Ice: 4,1 + 0,41d [N/m] According to EN 50341-3-22-2001	50	0.6

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.

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
- Length marking in meters
- Cable ID / Drum No

Example: FIBRAIN AERO-DR035 NXR 2F SM G657A2 "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.

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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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