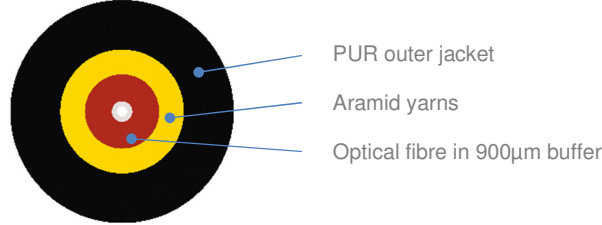


Aerial use drop cable AERO-DR03 (PUR)



*Schematic drawing, not to scale

APPLICATION

Aerial applications
Installation on poles
Fully dielectric

DESIGN

Flame retardant, halogen free PUR outer jacket with UV resistant additive
Aramid yarns reinforcement
Optical fibre in 900µm buffer

VARIANT

Variant	Ø nominal (±5%)	Buffer diameter	Fibres	Nominal weight (±10%)	Max allowed tension
	[mm]	[µm]	[pcs]	[kg/km]	[N]
1F	3,0	900	1	8	300

MAIN MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Test	Standard	Specified Value	Requirement
Max allowed tension	IEC 60794-1-21-E1	Load: 300N	$\Delta\epsilon_r \leq 0,6\%$, $\Delta\alpha \leq 0,1$ 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	$\pm 180^\circ$, 10 cycles	$\Delta\alpha \leq 0,05$ dB, no damage
Repeated Bending	IEC 60794-1-21-E6	R=12x D, 20 cycles	no damage
Temp. range	IEC 60794-1-22-F1	Installation	-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

Type:	AERO-DR03 (PUR)	REV: 1.9
Issued:	08/04/2019	AM
Modified:	04/06/2024	KP

MARKING

The following print is applied at 1-meter intervals:

FIBRAIN AERO-DR03 PUR 1F "FIBRE TYPE" "YEAR OF MANUFACTURE" "LASER SYMBOL" "LENGTH MARKING" "BATCH NUMBER"

Example: FIBRAIN AERO-DR03 PUR 1F G657A1 2024 *— 00001M 12345/1

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 PACKAGING

Cables are shipped on disposable plywood drums. Both ends are capped and at least one is accessible for testing. Identification information is placed on a drum. Typical spool length is 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. Dedicated reel length can be determined individually at the ordering stage.

AIRCUBE PACKAGING OPTION

The AIRCUBE packaging option - 1000m cable is wound on a cardboard drum, which is placed in a cardboard box



Cable length	Cardboard box dimensions
1000m*	396mm(depth) x 295mm(width) x 393mm(height)

*Tolerance $\pm 1\%$ of the nominal length.

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