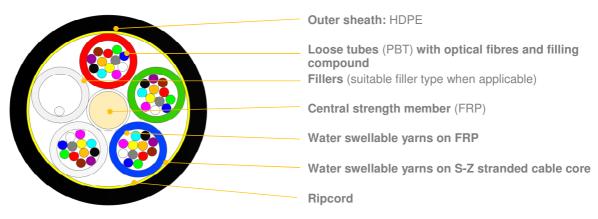


Type:	Blowing microcable MK-UX4	REV: 1	
Issued:	12/10/2017	AM	
Modified:	06/12/2018	AM	
Status:	DRAFT. All values are subject to change.		

Multi loose tube blowing microcable MK-UX4C



^{*}Schematic drawing, not to scale

APPLICATION:

Microduct cabling air-blowing system application Flexible network design Distribution network

DESIGN:

HDPE, UV stabilized outer jacket with low coefficient of friction
Loose tubes (PBT Ø 1,2mm) with thixotropic filing compound and 200µm optical fibres
SZ stranded around the FRP

CABLE DESIGNS:

OADEL DEGIGITOT						
		Quant	Ø nominal	Nominal		
Variant	Fibres	Fibres	Fibres Total elements	Active tubes	(±5%)	weight (±10%)
		per tube			[mm]	[kg/km]
1-5T x 12F	12-60	12	5	1-5	4.2	15

APPLICATION:

Temperature range	Transport & Storage:	- 40 to + 70 ℃	Minimum Bending Radius		
	Installation:	- 15 to + 60 °C	Under maximum tension:	20 x cable Ø	
	Operation:	- 30 to + 70 ℃	Without tension:	10 x cable Ø	

MAIN MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS (according to IEC 60794-5 and EN 187000)

Test	Test Standard	Specified Value	Requirement
Max allowed tension	IEC 60794-1-2-E1	160 N	$\Delta \epsilon_{\rm f} \leq 0.5\%$, $\Delta \alpha$ reversible
Max operating tension	IEC 60794-1-2-E1	30 N	$\Delta\epsilon_f \leq$ 0.1 %, $\Delta\alpha \leq$ 0.05 dB/km
Crush	IEC 60794-1-2-E3	500 N / 100 mm, max. 15 min	$\Delta \alpha \leq$ 0.05 dB no damage, reversible
Impact	IEC 60794-1-2-E4	10 Nm, 3 impacts, R= 300 mm	$\Delta\alpha \leq$ 0.05 dB after the test
Torsion	IEC 60794-1-2-E7	100N, ± 180°, 10 cycles	$\Delta \alpha \leq 0.05 \text{ dB }$ no damage
Repeated bending	IEC 60794-1-2-E6	R=20x D, 100N, 35 cycles	no damage
Cable bend	IEC 60794-1-2-E11	R=20x D, 4 turns, 3 cycles	$\Delta \alpha \leq$ 0.05 dB no damage
Temperature cycling	IEC 60794-1-2-F1	-15 °C to +60 °C -40 °C to +70 °C	$\Delta \alpha \leq 0.05 \text{ dB/km}$ $\Delta \alpha \leq 0.10 \text{ dB/km}$
Water penetration	IEC 60794-1-2-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

Fibres and tubes identification information see **DSH_Colors_CODE_XXXX** document.



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FIBRES PARAMETERS

Optical fibres parameters see DSH_OFP document.

MARKING

The following print (white / ink jet) 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 MK-UX4C 48F SM G657A1 200um 4T12F "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.

PACKING

Cables will be shipped on disposable wooden or treated wooden drums. Both ends of the cable will be capped and accessible for testing. Identification information label will be placed on the drum.

DELIVERY LENGTH

2000 - 4000 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.