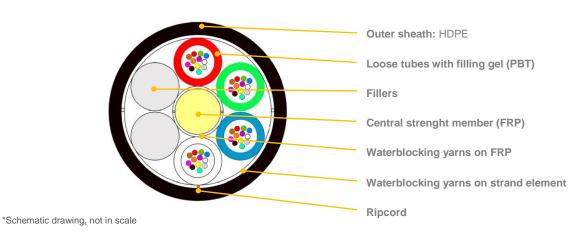
Type:	Metrojet MK-LX6	REV: 4
Construction:	06/10/2014	SK
Modify:		

MetroJET MK-LX6 multi loose tube microcable (up to 72F)



APPLICATION:

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

STRUCTURE AND COMPOSITION:

HDPE, UV resistance external jacket with low friction Loose tubes (and fillers), SZ stranded around the CSM Each PBT tubes containing 4-12 pcs optical fibers Smallest outer diameter for blowing into 8mm (ID) ducts

CONSTRUCTION:

			Qnt	Ø nominal	Nominal weight		
Version	Fibers	Fibers per tube	Total elements	Active tubes	Fillers	(+-5%) [mm]	(+-10%) [kg/km]
1T x 4F	4	4	6	1	5	5.6	28
1T x 6F	6	6	6	1	5	5.6	28
1T x 8F	8	8	6	1	5	5.6	28
2T x 6F	12	6	6	2	4	5.6	29
4T x 6F	24	6	6	4	2	5.6	29
6T x 6F	36	6	6	6	0	5.6	29
1T x 12F	12	12	6	1	5	5.6	30
2T x 12F	24	12	6	2	4	5.6	30
3T x 12F	36	12	6	3	3	5.6	30
4T x 12F	48	12	6	4	2	5.6	31
5T x 12F	60	12	6	5	1	5.6	32
6T x 12F	72	12	6	6	0	5.6	33
*		*Other fiber counts are also available on demand					

APPLICATION:							
Suggested Duct - Ø (min) mm			16/12mm, 14/12mm, 12/10mm, 14/10mm, 12/8mm, 10/8mm				
Temperature Range		Transport	& Storage:	- 40 to + 70°C		Minimum bending radius	
	Installation:			- 5 to + 55°C		Under maximum tension:	20 x cable Ø
	Operation:			- 30 to + 60°C		Without tension:	10 x cable Ø

MAIN MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS (according to IEC 60794-5 and EN 187000)							
Test Standard	Specified Value	Requirement*					
IEC 60794-1-2-E1	750 N	$\Delta\alpha$ reversible, fiber strain $\leq 0.33\%$					
IEC 60794-1-2-E1	250 N	no fiber strain, $\Delta \alpha \le 0.05 \text{ dB}$					
IEC 60794-1-2-E3	1000 N / 100 mm, max. 15 min	$\Delta\alpha$ reversible, no damage					
IEC 60794-1-2-E4	10 Nm, 3 impacts, R= 300 mm	$\Delta\alpha \leq$ 0.05 dB after the test					
IEC 60794-1-2-E7	100N, +/- 180°, 10 cycles	$\Delta \alpha \leq$ 0.05 dB, no damage					
IEC 60794-1-2-E6	R=20x D, 100N, 35 cycles	no damage					
IEC 60794-1-2-E11	R=20x D, 4 turns, 3 cycles	$\Delta \alpha \leq$ 0.05 dB, no damage					
IEC 60794-1-2-F1	-15°C to +60°C	$\Delta \alpha \leq$ 0.05 dB/km					
	-30°C to +70°C	$\Delta \alpha \leq$ 0.10 dB/km					
IEC 60794-1-2-F5B	sample=3m, water column=1m, 24h	no water leakage					
	Test Standard IEC 60794–1-2-E1 IEC 60794–1–2-E1 IEC 60794–1–2-E3 IEC 60794–1–2-E4 IEC 60794–1–2-E6 IEC 60794–1–2-E6 IEC 60794–1–2-F1 IEC 60794–1–2-F1	Test Standard Specified Value IEC 60794-1-2-E1 750 N IEC 60794-1-2-E1 250 N IEC 60794-1-2-E3 1000 N / 100 mm, max. 15 min IEC 60794-1-2-E4 10 Nm, 3 impacts, R= 300 mm IEC 60794-1-2-E7 100N, +/- 180°, 10 cycles IEC 60794-1-2-E6 R=20x D, 100N, 35 cycles IEC 60794-1-2-E11 R=20x D, 4 turns, 3 cycles IEC 60794-1-2-F1 -15°C to +60°C -30°C to +70°C					

^(*) values for single-mode fibers, all optical measurements performed at $@1550 \mathrm{nm}$



MetroJET microduct cabling air-blowing system

Type:	Metrojet MK-LX6	REV: 4
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Modify:		

OPTICAL FIBER AND LOOSE TUBES COLOR IDENTIFICATION

The colors of identifications see on DSH_Colors_CODE_XXXX

FIBER PARAMETERS

The value of characteristic fibers parameters see on DSH_OFP

MARKING

The following printing (ink-jet) is applied at 1-meter intervals.

- Supplier: FIBRAIN
- Standard Code (product type, fiber count, fiber type,), other sales name, jacket type
- Year of manufacture: xxxx
- · Length marking in meters
- Cable ID / Drum No

Example: METROJET MK-LX6 72F SM G652D 6T12F "YEAR OF MANUFACTURE" "LASER SYMBOL" "LENGTH MARKING" "BATCH NUMBER"

The accuracy of marking is ± 1.0%. Occasional loss of printing and remarking is in accordance with Bellcore GR 20 and supersedes earlier markings. Cables can be supplied with a range of single mode or multimode fibers, alternative sheath materials (e.g. MDPE/LSZH) and customized printing.

PACKAGING

The cables will be shipped on disposable wooden or treated wooden drums. The inner and outer ends of the cable will be capped and made accessible for testing. A direction of rotation arrow is marked on the drum together with the identification information.

DELIVERY LENGTH

2000 - 8000 meters ± 5%, with an allowance of supplying a maximum of 5% of a total contract quantity as short length cables which should be above 1000 meters long. Tolerance of 5 % of on Order Quantity shall be allowed.

Important notice

Buyer and/or user of this product has to make sure before using this product that it is suitable for the intended use. All questions of liability relating to this product are subject – in accordance with the prevailing – to the Term of Sale of the selling Fibrain subsidiary.