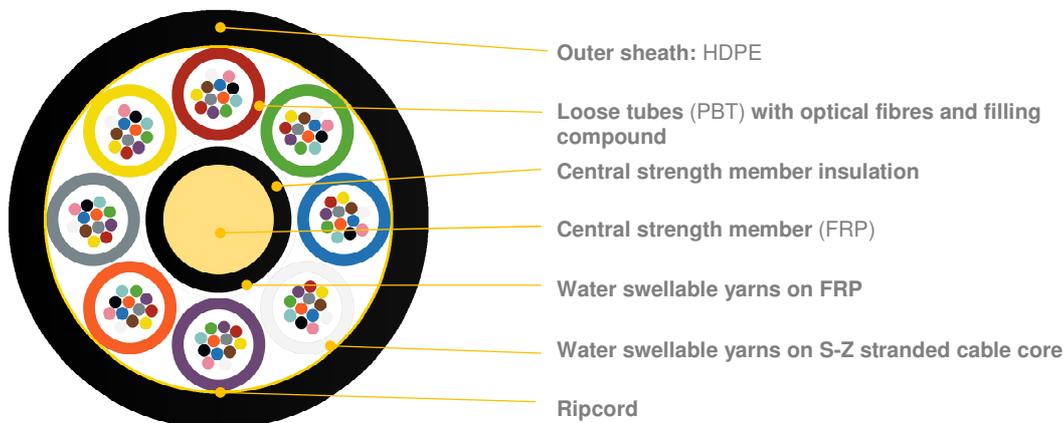


**MetroJET MK-LXS7 - Multi loose tube microcable (up to 96F)**



\*Schematic drawing, not to scale

**APPLICATION:**

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

**DESIGN:**

HDPE, UV stabilized outer jacket with low coefficient of friction  
 Loose tubes (and fillers), SZ stranded around the CSM  
 Each PBT tube containing up to 12 optical fibres

**CABLE DESIGNS:**

Variant	Quantity [pcs]				Ø nominal (±5%) [mm]	Nominal weight (±10%) [kg/km]
	Fibres	Fibres per tube	Total elements	Active tubes		
8T x 4F	32	4	8	8	6.2	28
8T x 6F	48	6	8	8	6.2	28
8T x 8F	64	8	8	8	6.2	29
8T x 10F	80	10	8	8	6.2	30
8T x 12F	96	12	8	8	6.2	31

**APPLICATION:**

<b>Suggested Duct - Ø (min)</b>	mm	16/12mm, 14/12mm, 12/10mm, 14/10mm, 12/8mm, 10/8mm	
<b>Temperature Range</b>	Transport & Storage:	- 40 to + 70°C	<b>Minimum Bending Radius</b>
	Installation:	- 15 to + 55°C	Under Maximum Tension:
	Operation:	- 30 to + 60°C	Without Tension:
			20 x cable Ø
			10 x cable Ø

**MAIN MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS** (according to IEC 60794-5)

Test	Test Standard	Specified Value	Requirement*
Max allowed tension	IEC 60794-1-21-E1	1200 N	$\Delta\epsilon_r \leq 0.33\%$ , $\Delta\alpha$ reversible
Max operating tension	IEC 60794-1-21-E1	350 N	$\Delta\epsilon_r \leq 0.05\%$ , $\Delta\alpha \leq 0.05$ dB/km
Crush	IEC 60794-1-21-E3	500 N / 100 mm, max. 15 min	$\Delta\alpha$ reversible, no significant damage
Impact	IEC 60794-1-21-E4	5Nm, 3 impacts, R= 300 mm	$\Delta\alpha \leq 0.05$ dB after the test
Torsion	IEC 60794-1-21-E7	100N, +/- 180°, 10 cycles	$\Delta\alpha \leq 0.05$ dB, no damage
Repeated Bending	IEC 60794-1-21-E6	R=20x D, 100N, 35 cycles	no damage
Cable Bend	IEC 60794-1-21-E11	R=20x D, 4 turns, 3 cycles	$\Delta\alpha \leq 0.05$ dB, no damage
Temperature Cycling	IEC 60794-1-22-F1	-15°C to +60°C -30°C to +70°C	$\Delta\alpha \leq 0.05$ dB/km $\Delta\alpha \leq 0.10$ dB/km
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 FIBRE AND LOOSE TUBES COLOUR IDENTIFICATION**

For optical fibres and loose tube identification information please see DSH\_Colors\_CODE\_XXXX document.

Type:	Metrojet MK-LXS7	REV: 1.6
Issued:	29/07/2015	PB
Modified:	28/12/2020	AM

#### FIBRE PARAMETERS

For selected post-production optical fibres parameters please see DSH\_OFP document.

#### MARKING

The following print (inkjet / laser or other suitable method) 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 METROJET MK-LXS7 96F SM G652D 8T12F "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 – 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.

This document and the statements contained in it are not intended for customers within the meaning of the Civil Code. The information submitted in this document is to our knowledge and belief true at the time of issue, however, we do not assume any liability whatsoever for its accuracy, and completeness. This document is for informational purposes on an "as is" basis only and Fibrain reserves the right to change its contents at any time without prior notice. The specification cannot, in any case, be considered an offer within the meaning of the Civil Code and is not contractually valid unless specifically authorized by Fibrain. Before using this product, its buyer and/or user has to make sure that it is suitable for the intended use. All liability issues related to this product are subjected to the seller's separate Terms of Sale or the terms and conditions agreed with the Fibrain representative or distributor.