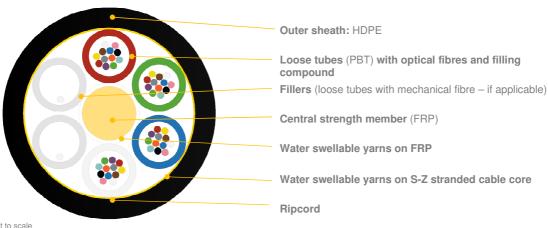
Туре:	MK-LXS6	REV: 1.8
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MetroJET MK-LXS6 - Multi loose tube microcable (up to 72F)



^{*}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 FRP Each PBT tube containing up to 12 optical fibres Smallest outer diameter for blowing into 8mm (ID) ducts

CABLE DESIGNS:

	Quantity pcs				Ø nominal	Nominal weight
Variant	Fibres	Fibres per tube	Total elements	Active tubes	(±5%)	(±10%)
1-6T x 2F	2-12	2	6	1-6	5.3	18
1-6T x 4F	4-24	4	6	1-6	5.3	18
1-6T x 6F	6-36	6	6	1-6	5.3	18
1-6T x 8F	8-48	8	6	1-6	5.3	19
1-6T x 10F	10-60	10	6	1-6	5.3	19
1-6T x 12F	12-72	12	6	1-6	5.3	21

APPLICATION:

Suggested duct - Ø (min)	16/12 mm, 14/12 mm, 12/10 mm, 14/10 mm, 12/8 mm, 10/8 mm				
	Transport & Storage:	- 40 to + 70 °C		Minimum Bending Radius	
Temperature range	Installation:	- 15 to + 55 ℃		Under maximum tension:	15 x cable Ø
	Operation:	- 40 to + 70 °C		Without tension:	10 x cable Ø

MAIN MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Test	Test Standard	Specified Value	Requirement
Max allowed tension	IEC60794-1-21 Method E1	Load: 650 N	$\Delta\epsilon {\le 0.33 \text{ \%, }} \Delta\alpha \text{ reversible}$ No significant damage to fibre unit
Max operating tension	1EC60794-1-21 Method E1	Load: 200N	$\Delta\epsilon_{\not \in} \ 0.05 \ \%, \ \Delta\alpha \le 0.05 \ dB/km$ No significant damage to fibre unit
Crush	IEC 60794-1-21 Method E3	Short term: 1000 N / 100 mm, 1 min	$\Delta \alpha$ reversible,
		Long term: 500 N / 100 mm, 15 min	No significant damage to fibre unit
Impact	IEC 60794-1-21 Method E4	Impact energy: 10J, 3 impacts, R= 300 mm	$\Delta \alpha \leq$ 0.05 dB/km after the test No jacket cracking and fibre breakage
Torsion	IEC 60794-1-21 Method E7	Cable length to be twisted: 2m No. of cycles: 10 Twist angle: ±180°	$\Delta\alpha \leq 0.05 \text{ dB/km},$ No jacket cracking and fibre breakage
Repeated bending	IEC 60794-1-21 Method E6	Sheave Radius: 10 x OD	No jacket cracking and fibre breakage
Cable bend	IEC 60794-1-21 Method E11	Mandrel radius: 15 x OD / 4 turns / 3 cycles	$\Delta\alpha \leq 0.05 \text{ dB/km},$ No jacket cracking and fibre breakage

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Temperature cycling	IEC 60794–1–22 Method F1	1st cycle: +23 °C → -30 °C(Ta1) → +60 °C(Tb1) → -40 °C(Ta2) → +70 °C(Tb2) 2nd cycle: -30 °C(Ta1) → -40 °C(Ta2) → +60 °C(Tb1) → +70 °C(Tb2) → +23 °C Soak time: 8 h	For TA2 and TB2 $\Delta\alpha \le 0.05$ dB/km For TA1 and TB1 $\Delta\alpha \le 0.05$ dB/km
Water penetration	IEC 60794-1-22 Method F5B	Water head: 1 m Sample length: 3 m Time: 24 hrs	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.

FIRRE 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 METROJET
- Standard code (Product type, fibre type, fibre count)
- Year of manufacture: xxxxLength marking in meters
- Length marking in meter

Cable ID / Drum No

Example: FIBRAIN METROJET MK-LXS6 72F SM G652D 6T12F "YEAR OF MANUFACTURE" "LASER SYMBOL" "LENGTH MARKING" "BATCH NUMBER"

The accuracy of marking is ±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.

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