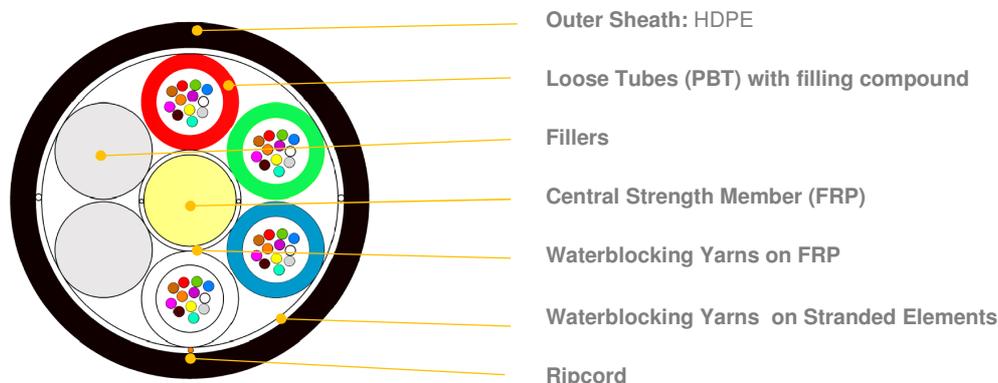


MetroJET MK-LX6 Multi Loose Tube microcable (up to 72F)



*Schematic drawing, not to scale

APPLICATION:

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

DESIGN:

HDPE, UV stabilized external jacket with low coefficient of friction
 SZ stranded core
 PBT tubes containing 12 pcs optical fibres each
 Fillers – loose tubes with mechanical fibres
 Smallest outer diameter for blowing into 8mm (ID) ducts

CONFIGURATIONS:

Variant	Fibres	Fibres per tube	Quantity [pcs]			Ø nominal (±5%) [mm]	Nominal weight (±10%) [kg/km]
			Total elements	Active tubes	Fillers		
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

TECHNICAL AND ENVIRONMENTAL CABLE CHARACTERISTICS

Test	Standard	Conditions	Requirements
Tensile strength	IEC60794-1-21 Method E1	Short term: 1200N	Fibre strain: ≤0,6%, Δα reversible
		Long term: 400N	Fibre strain: ≤0,2%, Δα≤0,05 dB/km
Crush resistance	IEC60794-1-21 Method E3	Short term: 2000N / 10cm / 1min	Δα≤0,05 dB, during test
		Long term: 1000N / 10cm / 15min	Δα≤0,1 dB, reversible
Impact resistance	IEC60794-1-21 Method E4	Impact energy: 10J Radius: 300 mm No. of impacts: 3 (500mm apart)	Δα≤0,1dB, reversible No jacket cracking and fibre breakage
Repeated bending	IEC60794-1-21 Method E6	Radius: 15xD No. of cycles: 35	Δα≤0,1dB, reversible No jacket cracking and fibre breakage
Torsion	IEC60794-1-21 Method E7	Cable length: 2m No. of cycles: 10 Twist angle: ± 180°	Δα≤0,1dB, reversible No jacket cracking and fibre breakage
Bending	IEC60794-1-21 Method E11	Radius: 15xD No. of turns: 4	Δα≤0,05dB No jacket cracking and fibre breakage
Temperature range	IEC60794-1-22 Method F1	Installation: -15... +55 [°C]	Δα≤0,05 dB/km
		Operation: -40... +70 [°C]	
		Transport & Storage: -40... +70 [°C]	
Water Penetration	IEC60794-1-22 Method F5B	Water head: 1m, Time: 24h, Length: 3m	No water leakage

(*) values for single-mode fibres, all optical measurements performed at 1550nm

FIBRE PARAMETERS

For selected post-production optical fibres parameters please see DSH_OFPP document.

Type:	Metrojet MK-LX6	REV: 0
Issued:	20/08/2015	KP
Project:	079-21	

OPTICAL FIBRES COLOUR IDENTIFICATION

Fibre number	1	2	3	4	5	6	7	8	9	10	11	12
Fibre colour	Red	Blue	Green	Yellow	Violet	White	Orange	Grey	Brown	Black	Aqua	Pink

LOOSE TUBES COLOUR IDENTIFICATION

Tube number	1	2	3	4	5	6
Colour	Red	Green	Blue	Green	Blue	Green
Fibre type:	G652D	MECHANICAL	MECHANICAL	MECHANICAL	MECHANICAL	MECHANICAL

MARKING

The following print (laser printer) is applied at 1-meter intervals:

Example: FIBRAIN METROJET MK-LX6 72F 5M G652D 1T12F + MECH 5T12F "YEAR OF MANUFACTURE" "LASER SYMBOL" "LENGTH MARKING" "BATCH NUMBER"

The accuracy of marking is ±0,5%. Remarketing 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 will be placed on drum's flange.

DELIVERY LENGTH

2000 – 8000 meters ± 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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