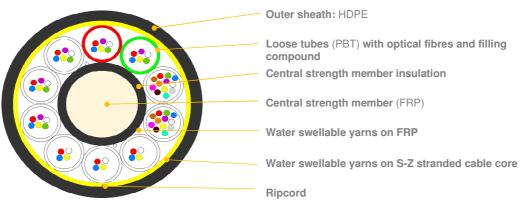
Туре:	Metrojet MK-LXS-TKT	REV: 0
Issued:	19/10/2021	KP
Project:	079-21	

MetroJET MK-LXS-TKT - Multi loose tube microcable



^{*}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 PBT tubes containing up to 12 optical fibres

CABLE DESIGNS:

Variant		Quan	Ø nominal	Nominal		
	Fibres	Fibres per tube	Total elements	Active tubes	(±5%)	weight (±10%)
					[mm]	[kg/km]
1Tx6F G.655 + 2T12F G.652D + 4T6F G.652D + 3T4F G.652D	66	4/6/12	10	10	7.0	43

APPLICATION:

Suggested Duct - Ø (min)	mm	16/12mm, 14/12mm, 12/10mm, 14/10mm				
	Tra	ransport	ansport & Storage: - 40 to + 70 °C Minimum Bending Radius				
Temperature Range		I	nstallation:	-15 to + 55 ℃		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)

Test	Test Standard	Specified Value	Requirement*
Max allowed tension	IEC 60794-1-21-E1	1500 N	$\Delta \epsilon_{f} \leq$ 0.33%, $\Delta \alpha$ reversible
Max operating tension	IEC 60794-1-21-E1	550 N	$\Delta\epsilon_{\text{f}} \leq 0.05\%, \ \Delta\alpha \leq 0.05 \ \text{dB/km}$
Crush	IEC 60794-1-21-E3	600 N / 100 mm, max. 15 min	$\Delta\alpha$ reversible, no significant damage
Impact	IEC 60794-1-21-E4	10Nm, 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℃ to +60℃	$\Delta \alpha \leq 0.05 dB/km$
	1EC 60794—1—22-F1	-30 °C to +70 °C	$\Delta \alpha \leq 0.10 \text{ dB/km}$
Water Penetration	IEC 60794-1-22-F5B	sample=3m, water column=1m, 24h	no water leakage

 $^{(\}sp{*})$ 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.

FIBRE PARAMETERS

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



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MARKING

The following print (inkjet / laser or other suitable method) is applied at 1-meter intervals:

FIBRAIN METROJET MK-LXS-TKT 66F SM G655 1T6F + G652D 2T12F + G652D 4T6F + G652D 3T4F HAWE TELEKOM tel. 61 86–14–935 "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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