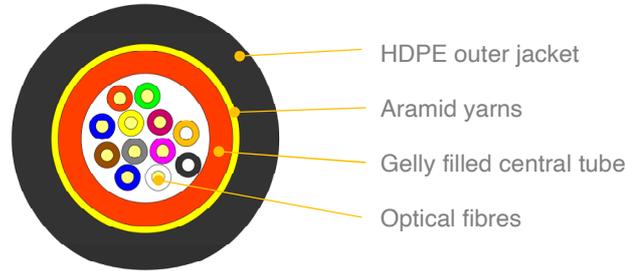


Type:	MK-DXS-PE	REV: 1.1
Issued:	10/06/2022	AM
Modified:	05/03/2024	NL
Project:	03921	

Reinforced last mile connection µdrop cable MK-DXS25



*Schematic drawing, not to scale

APPLICATION

Installation by blowing
FTTH & last mile connection

DESIGN

UV stabilized HDPE outer jacket with low coefficient of friction
Aramid yarns as a strain relief
Gelly filled central tube with optical fibres
Smallest outer diameter for blowing into 5/3,5mm ducts

CONFIGURATION

Type cable	Fibre count	Ø nominal (±5 %)	Nominal weight (±5 %)	Max allowed tension
		[mm]	[kg/km]	[N]
MK-DXS25	2 - 12F (250 µm)	2,5	6,3	150

MAIN MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Test	Test Standard	Specified value	Requirement*
Max allowed tension	IEC 60794-1-21-E1	Load: as provided in the table above	$\Delta\epsilon_t \leq 0.5\%$, $\Delta\alpha \leq 0,1$ dB/km
Crush	IEC 60794-1-21-E3	1000 N / 100 mm / 1 min	$\Delta\alpha$ reversible, no significant damage
Impact	IEC 60794-1-21-E4	1 Nm, 3 impacts, R= 300 mm	$\Delta\alpha \leq 0.05$ dB/km, after the test
Torsion	IEC 60794-1-21-E7	10 N, +/- 180°, 10 cycles	$\Delta\alpha \leq 0.05$ dB/km, no damage
Bending performance	IEC 60794-1-21-E11	R=20x D, 10 turns, 3 cycles	$\Delta\alpha \leq 0.05$ dB/km, no damage
Water Penetration	IEC 60794-1-22-F5B	Sample=3 m, water column=1 m, 24 h	no water leakage
Temperature cycling	IEC 60794-1-22-F1	Installation:	-10.... +55 [°C]
		Operation:	-30... +70 [°C]
		Transport & Storage:	-40... +70 [°C]
			$\Delta\alpha \leq 0.1$ dB/km, reversible
			$\Delta\alpha$ reversible

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

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_OFFP** document.

MARKING

The following print (laser printer) 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 METROJETMK-DXS2512F SM G657A1 1T12F "YEAR OF MANUFACTURE" "LASERSYMBOL" "LENGTH MARKING" "BATCH NUMBER"

The accuracy of marking is $\pm 0,5\%$. Remarkings 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.

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PACKING

Cables are shipped on disposable plywood drums. Both ends of the cable are capped and at least one is accessible for testing. Identification information is placed on a drum. Typical spool length is 2000 – 4000 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. Maximal length of production cables is 8000 meters.

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