

## NHXMH-J Domestic & Industrial Cable - BS EN60332-3-24, LSZH - 1.5mm to 10mm



LSZH wiring cable, indoor and outdoor use, suitable for industrial or domestic applications and designed for dry, moist or wet areas i.e. under plaster and in concrete. Not suitable for exposure to direct sunlight.

### Key Features



#### Installation Guidelines

Should not be installed at temperatures below 0°C



#### Voltage Rating

300/500Volts



#### Minimum Bending Radius

As Per Manufacturers Datasheet



#### Flame Retardancy

BS EN 60332-3-24



#### Temperature Limits

Ambient Temperature: -10°C to +70°C

### Construction

- **Conductor:** Up to 10mm<sup>2</sup> - solid copper (Class 1) | 16mm<sup>2</sup> - stranded copper (Class 2)
- **Insulation:** Cross Linked polyethylene (XLPE)
- **Filler:** Halogen Free Compound
- **Sheath:** Halogen free thermoplastic polymer compound
- **Sheath Colour:** Grey

### Standards

- VDE0250-214, BS EN 60332-3-24

### Core Colours

- 2 Core - Brown Blue
- 3 Core - Brown Blue Green Yellow
- 4 Core - Brown Black Grey Green Yellow
- 5 Core - Brown Black Grey Blue Green Yellow
- 7 Core and above - White with Black numbers

## NHXMH-J Domestic & Industrial Cable - BS EN60332-3-24, LSZH - 1.5mm to 10mm - Dimensions

Reference	Conductor Size (mm <sup>2</sup> )	No Of Cores	Stranding(mm)	Overall Diameter(mm)	Weight(Kg/Km)
NHXMHJ3X1/5R*	1.5	3	1/1.38	9.9	120
NHXMHJ4X1/5R*	1.5	4	1/1.38	10.7	140
NHXMHJ5X1/5R*	1.5	5	1/1.38	11.5	170
NHXMHJ7X1/5*	1.5	7	1/1.38	12.6	210
NHXMHJ12X1/5	1.5	12	1/1.38	16.8	415
NHXMHJ3X2/5R*	2.5	3	1/1.38	11.4	165
NHXMHJ5X2/5R*	2.5	5	1/1.38	13.3	245
NHXMHJ3X4R*	4	3	1/1.38	13	240
NHXMHJ5X4R*	4	5	1/1.38	16	370
NHXMHJ3X6R*	6	3	1/1.38	14.7	330
NHXMHJ5X6R*	6	5	1/1.38	17.5	406
NHXMHJ3X10	10	3	1/1.38	17.7	510
NHXMHJ5X10	10	5	1/1.38	21.3	770

Multicore 70°C thermoplastic insulated and thermoplastic sheathed cables, non-armoured (COPPER CONDUCTORS) Reproduced from BS7671:2018 Wiring Regulations

For cables having flexible conductors, see section 2.4 of this Appendix in regulations for adjustment factors for current-carrying capacity and voltage drop

**TABLE 4D2A**

CURRENT-CARRYING CAPACITY (amperes):
 Ambient temperature: 30 °C  
Conductor operating temperature: 70 °C

Conductor cross-sectional area	Reference Method A (enclosed in conduit in thermally insulating wall etc)		Reference Method B (enclosed in conduit on a wall or in trunking etc)		Reference Method C (clipped direct)		Reference Method E (in free air or on a perforated cable tray etc, horizontal or vertical)	
	1 two-core cable*, single phase AC or DC	1 three-core cable* or 1 four-core cable, three phase AC	1 two-core cable*, single-phase AC or DC	1 three-core cable* or 1 four-core cable, three phase AC	1 two-core cable*, single phase AC or DC	1 three-core cable* or 1 four-core cable, three phase AC	1 two-core cable*, single phase AC or DC	1 three-core cable* or 1 four-core cable, three phase AC
I	2	3	4	5	6	7	8	9
(mm <sup>2</sup> )	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
1	11	10	13	11.5	15	13.5	17	14.5
1.5	14	13	16.5	15	19.5	17.5	22	18.5
2.5	18.5	17.5	23	20	27	24	30	25
4	25	23	30	27	36	32	40	34
6	32	29	38	34	46	41	51	43
10	43	39	52	46	63	57	70	60
16	57	52	69	62	85	76	94	80
25	75	68	90	80	112	96	119	101
35	92	83	111	99	138	119	148	126
50	110	99	133	118	168	144	180	153
70	139	125	168	149	213	184	232	196
95	167	150	201	179	258	223	282	238
120	192	172	232	206	299	259	328	276
150	219	196	258	225	344	299	379	319
185	248	223	294	255	392	341	434	364
240	291	261	344	297	461	403	514	430
300	334	298	394	339	530	464	593	497
400			470	402	634	557	715	597

\* with or without a protective conductor

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**TABLE 4D2B**

VOLTAGE DROP (per ampere per metre): Conductor operating temperature: 70°C

Conductor cross-sectional area	Two-core cable, DC	Two-core cable, single-phase AC			Three- or four-core cable, three-phase AC		
1	2	3			4		
(mm <sup>2</sup> )	(mV/A/m)	(mV/A/m)			(mV/A/m)		
1	44	44			38		
1.5	29	29			25		
2.5	18	18			15		
4	11	11			9.5		
6	7.3	7.3			6.4		
10	4.4	4.4			3.8		
16	2.8	2.8			2.4		
		r	X	z	r	X	z
25	1.75	1.75	0.170	1.75	1.50	0.145	1.50
35	1.25	1.25	0.165	1.25	1.10	0.145	1.10
50	0.93	0.93	0.165	0.94	0.80	0.140	0.81
70	0.63	0.63	0.160	0.65	0.55	0.140	0.57
95	0.46	0.47	0.155	0.50	0.41	0.135	0.43
120	0.36	0.38	0.155	0.41	0.33	0.135	0.35
150	0.29	0.30	0.155	0.34	0.26	0.130	0.29
185	0.23	0.25	0.150	0.29	0.21	0.130	0.25
240	0.180	0.190	0.150	0.24	0.165	0.130	0.21
300	0.145	0.155	0.145	0.21	0.135	0.130	0.185
400	0.105	0.115	0.145	0.185	0.100	0.125	0.160

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