

ELECTROAIR®

M6BA-A6 Shielded & Jacketed



- 1 • Two to four wires NEMA HP4 K
- 2 • Silver plated copper braid
- 3 • Fluorinated polymer FEP

Standards and approvals

Construction:

- Insulated cores according to NEMA HP4

Performances:

- IEC 60332-1
- C2 NF C 32-070
 - FAR 25
 - ABD0031
 - EN 3475

Colour code

- M6BA-A6 2X: White jacket and Blue / White cores
 - M6BA-A6 3X: White jacket and Blue / White / Orange cores
 - M6BA-A6 4X: White jacket and Blue / White / Orange / Black cores
- For any other request: please contact us

Applications

Electrical lightweight cables used in electronic equipments for aircraft, missile systems or aeronautical test benches

Characteristics

• Thermal

Continuous operating temperature: **-55°C to +200°C**

• Electrical

Operating voltage: 600 V RMS

• Mechanical

Resistance to abrasion: ★★★★★
EN 3475

• Chemical

Resistance to chemical environments: ★★★★★
Resistance to humidity: ★★★★★
Resistance to aircraft fluids: ★★★★★
EN 3475

• Fire-smoke

Flame retardant
IEC 60332-1 / C2 NF C 32-070 / FAR 25
Low smoke density
ABD0031

• Arc tracking resistance

EN 3475
(tested on wire NEMA HP4 K)

WIRE (NEMA HP4 K)

AWG	Stranding (n x mm)	Code NEMA HP4	Cable outer diameter (mm)		Approx. linear weight (kg / km)	Maximum linear resistance at 20°C (Ω / km)
			Mini	Maxi		
28	7 x 0.13	HP4 - K - BCB	0.79	0.99	2.0	208.7
26	7 x 0.16	HP4 - K - BDB	0.89	1.09	2.7	130.2
24	7 x 0.20	HP4 - K - BEB	1.02	1.21	3.7	80.4
22	7 x 0.25	HP4 - K - BFB	1.17	1.37	5.1	51.2
20	7 x 0.32	HP4 - K - BGB	1.38	1.57	7.8	32.2
18	7 x 0.40	HP4 - K - BHB	1.63	1.87	12.0	20.2
16	19 x 0.30	HP4 - K - BJE	1.86	2.20	16.8	14.9
14	19 x 0.36	HP4 - K - BKE	2.24	2.59	21.3	9.4
12	19 x 0.45	HP4 - K - BLE	2.72	3.07	36.0	5.9

M6BA-A6

AWG	2X		3X		4X		Maximum linear resistance at 20°C (Ω / km)
	Cable outer diameter (mm) Maxi	Maximum linear weight (kg / km)	Cable outer diameter (mm) Maxi	Maximum linear weight (kg / km)	Cable outer diameter (mm) Maxi	Maximum linear weight (kg / km)	
28	3.03	13.7	3.32	19.9	3.50	22.9	214.9
26	3.38	18.1	3.53	23.4	3.70	25.0	134.2
24	3.64	21.5	3.81	28.2	4.10	29.5	82.8
22	3.92	26.2	4.11	34.8	4.25	40.0	52.7
20	4.42	35.1	4.65	47.6	4.80	52.5	33.2
18	5.08	46.9	5.53	67.5	5.70	76.0	20.8
16	5.86	64.4	6.18	89.1	6.30	95.0	15.3
14	6.62	82.4	7.00	115.0	7.20	131.0	9.7
12	7.78	120.0	8.24	169.0	8.40	188.0	6.1

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For an optimum use of the cables produced by our company, we recommend testing in real conditions. Our sales department is available for a possible provision of samples, and/or for the conditions of a complete study in our laboratories.

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