

# ELECTROAIR®

## NEMA HP4 K Unshielded

- 1 • Silver plated copper core
- 2 • Fluorinated polymer FEP

### Standards and approvals

**Construction:**

- NEMA HP4
- ex MIL-W-16878/11

**Performances:**

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

### Colour code

Red, Blue, Yellow, Green, White, Black,  
Brown, Orange, Purple, Grey  
For any other request: please contact us

### Applications

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

### CGP Reference

1. Standard: HP4
2. Type: K
3. Type of material:  
B (silver plated copper)
4. Conductor size AWG  
(A = 32, B = 30, C = 28, D = 26,  
E = 24, F = 22,  
G = 20, H = 18, J = 16, K = 14,  
L = 12, M = 10, N = 8)
5. Conductor stranding (B = 7x, E = 19x,  
G = 37x, L = 133x)



### 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

### 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		
32	7 x 0.08	HP4 - K - BAB	0.66	0.86	1.4	557.7
32	19 x 0.05	HP4 - K - BAE	0.66	0.86	1.6	515.1
30	7 x 0.10	HP4 - K - BBB	0.72	0.91	1.7	328.1
30	19 x 0.06	HP4 - K - BBE	0.72	0.91	1.8	323.5
28	7 x 0.13	HP4 - K - BCB	0.79	0.99	2.0	208.7
28	19 x 0.08	HP4 - K - BCE	0.79	0.99	2.2	207.0
26	7 x 0.16	HP4 - K - BDB	0.89	1.09	2.7	130.2
26	19 x 0.10	HP4 - K - BDE	0.89	1.09	2.7	122.4
24	7 x 0.20	HP4 - K - BEB	1.02	1.21	3.7	80.4
24	19 x 0.13	HP4 - K - BEE	1.02	1.21	3.7	77.4
22	7 x 0.25	HP4 - K - BFB	1.17	1.37	5.1	51.2
22	19 x 0.16	HP4 - K - BFE	1.17	1.37	5.1	48.6
20	7 x 0.32	HP4 - K - BGB	1.38	1.57	7.8	32.2
20	19 x 0.20	HP4 - K - BGE	1.38	1.57	7.8	29.9
18	7 x 0.40	HP4 - K - BHB	1.63	1.87	12.0	20.2
18	19 x 0.25	HP4 - K - BHE	1.63	1.87	11.9	19.0
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
12	37 x 0.32	HP4 - K - BLG	2.67	3.02	35.9	6.2
10	37 x 0.40	HP4 - K - BMG	3.23	3.58	50.3	3.9
8	133 x 0.29	HP4 - K - BNL	4.70	5.05	96.5	2.2

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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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