

ELECTROAIR®

NEMA HP4 KK Unshielded

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

Standards and approvals

Construction:

- NEMA HP4
- ex MIL-W-16878/12

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: KK
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: 1,000 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)

NEMA HP4 KK

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 - KK - BAB	0.89	1.09	2.1	557.7
32	19 x 0.05	HP4 - KK - BAE	0.89	1.09	2.1	515.1
30	7 x 0.10	HP4 - KK - BBB	0.97	1.17	2.3	328.1
30	19 x 0.06	HP4 - KK - BBE	0.97	1.17	2.4	323.5
28	7 x 0.13	HP4 - KK - BCB	1.05	1.24	2.7	208.7
28	19 x 0.08	HP4 - KK - BCE	1.05	1.24	2.8	207.0
26	7 x 0.16	HP4 - KK - BDB	1.15	1.34	3.6	130.2
26	19 x 0.10	HP4 - KK - BDE	1.15	1.34	3.7	122.4
24	7 x 0.20	HP4 - KK - BEB	1.27	1.47	4.6	80.4
24	19 x 0.13	HP4 - KK - BEE	1.27	1.47	4.8	77.4
22	7 x 0.25	HP4 - KK - BFB	1.43	1.62	6.2	51.2
22	19 x 0.16	HP4 - KK - BFE	1.43	1.62	6.5	48.6
20	7 x 0.32	HP4 - KK - BGB	1.63	1.82	8.8	32.2
20	19 x 0.20	HP4 - KK - BGE	1.63	1.82	9.3	29.9
18	7 x 0.40	HP4 - KK - BHB	1.88	2.13	12.8	20.2
18	19 x 0.25	HP4 - KK - BHE	1.88	2.13	13.1	19.0
16	19 x 0.30	HP4 - KK - BJE	2.11	2.41	17.4	14.9
14	19 x 0.36	HP4 - KK - BKE	2.49	2.89	24.6	9.4
12	19 x 0.45	HP4 - KK - BLE	2.97	3.37	36.8	5.9
12	37 x 0.32	HP4 - KK - BLG	2.93	3.32	36.0	6.2
10	37 x 0.40	HP4 - KK - BMG	4.70	3.88	53.3	3.9
8	133 x 0.29	HP4 - KK - BNL	5.06	5.56	99.0	2.2

CGP SAS

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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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