

# ELECTROAIR®

## NEMA HP3 E Unshielded



- 1 • Silver plated copper core
- 2 • Fluorinated PTFE tape

### Standards and approvals

**Construction:**

- NEMA HP3
- ex MIL-W-16878/21

**Performances:**

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

### Colour code

Red, Blue, Yellow, Green, White, Black,  
Orange

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: HP3
2. Type: E
3. Type of insulation: W (wrapped)
4. Type of material:  
B (silver plated copper)
5. Conductor size AWG (C = 28,  
D = 26, E = 24, F = 22, G = 20,  
H = 18, J = 16, K = 14, L = 12,  
M = 10)
6. Conductor stranding  
(B = 7x, E = 19x, G = 37x)

### Characteristics

**• Thermal**

Continuous operating temperature: **-90°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

### NEMA HP3 E

AWG	Stranding (n x mm)	Code NEMA HP3	Cable outer diameter (mm)		Approx. linear weight (kg / km)	Maximum linear resistance at 20°C (Ω / km)
			Mini	Maxi		
28	7 x 0.13	HP3 - E - WBCB	0.79	0.99	2.0	208.7
28	19 x 0.08	HP3 - E - WBCE	0.79	0.99	2.2	207.0
26	7 x 0.16	HP3 - E - WBDDB	0.89	1.09	2.8	130.2
26	19 x 0.10	HP3 - E - WBDE	0.89	1.11	2.9	122.4
24	7 x 0.20	HP3 - E - WBEB	1.02	1.22	4.0	80.4
24	19 x 0.13	HP3 - E - WBEE	1.02	1.24	4.2	77.4
22	7 x 0.25	HP3 - E - WBFB	1.17	1.37	5.2	51.2
22	19 x 0.16	HP3 - E - WBFE	1.17	1.42	5.5	48.6
20	7 x 0.32	HP3 - E - WBGB	1.37	1.57	7.5	32.2
20	19 x 0.20	HP3 - E - WBGE	1.37	1.57	8.0	29.9
18	7 x 0.40	HP3 - E - WBHB	1.63	1.82	11.1	20.2
18	19 x 0.25	HP3 - E - WBHE	1.63	1.82	11.8	19.0
16	19 x 0.30	HP3 - E - WBJE	1.86	2.20	12.9	14.9
14	19 x 0.36	HP3 - E - WBKE	2.24	2.59	20.1	9.4
12	19 x 0.45	HP3 - E - WBLE	2.72	3.07	32.1	5.9
12	37 x 0.32	HP3 - E - WBLG	2.67	3.02	34.0	6.2
10	37 x 0.40	HP3 - E - WBMG	3.23	3.58	47.2	3.9

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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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