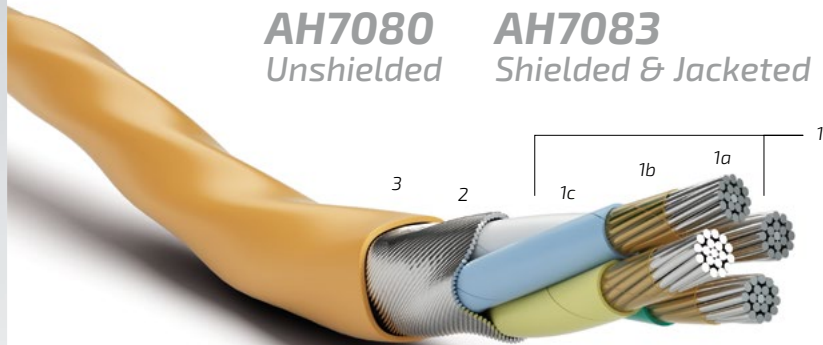


ELECTROAIR®

AH7080
Unshielded

AH7083
Shielded & Jacketed



- 1 • Conductors AH7080
 - 1a. Tinned copper
 - 1b. Polyimide tape
 - 1c. PTFE tape
- 2 • Helical by covering with tinned copper braid
- 3 • Fluoropolymer top coat (standard colour: orange)

Standards and approvals

Construction:

dimensional according to

- EN 2267-007
- EN 4434

Performances:

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

Colour code

- AH7080: White or Orange core
 - AH7083: Orange jacket
 - 1x: White core
 - 2x: White / Blue cores
- 3x: White / Blue / Yellow cores
 - 4x: White / Blue / Yellow / Green cores

For any other request: please contact us

Options

Operating temperature until +200°C with a silver plated copper core and braid
Operating temperature until +250°C with a nickel plated copper core and braid

Applications

Flight test cables for helicopters

Characteristics

• Thermal

Continuous operating temperature: **-55°C to +150°C**

• Electrical

Operating voltage: 600 V RMS

• Mechanical

Cut-through resistance: ★★★★★☆
Resistance to abrasion: ★★★★★☆
EN 3475

• Chemical

Resistance to chemical environments: ★★★★★★
Resistance to humidity: ★★★★★★
Resistance to aircraft fluids: ★★★★★★
NF C 93-523

• Fire-smoke

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

• Arc tracking resistance
EN 3475

WIRE (AH7080)

AWG	Cross Section (mm²)	Stranding (n x mm)	Wire outer diameter (mm)		Approx. linear weight (kg / km)	Maximum linear resistance at 20°C (Ω / km)
			Mini	Maxi		
26	0.15	19 x 0.10	0.85	0.97	2.45	160.0
24	0.25	19 x 0.12	0.90	1.04	3.10	114.0
22	0.40	19 x 0.15	1.05	1.19	4.43	60.0
20	0.60	19 x 0.20	1.38	1.53	7.73	33.2
18	1.00	19 x 0.25	1.65	1.82	11.74	21.1
16	1.20	19 x 0.30	2.02	2.22	16.95	14.5
14	2.00	37 x 0.25	2.29	2.49	22.65	10.9
12	3.00	37 x 0.32	2.73	2.97	33.70	6.8
10	5.00	37 x 0.40	3.33	3.61	53.10	4.2

Assembling of AH7080 by pair / triple / quad available

AH7083

Cross Section (mm²)	Cable outer diameter (mm)		Approx. linear weight (kg / km)	Maximum linear resistance at 20°C (Ω / km)
	Mini	Maxi		
1 x AWG 24	1.42	1.58	6.50	114.0
1 x AWG 22	1.60	1.76	8.80	60.0
1 x AWG 20	1.87	2.03	12.10	33.2
1 x AWG 18	2.17	2.33	18.00	21.1
1 x AWG 16	2.52	2.68	23.20	14.5
2 x AWG 24	2.60	2.80	13.40	117.4
2 x AWG 22	2.90	3.10	16.80	61.7
2 x AWG 20	3.20	3.40	24.40	34.1
2 x AWG 18	3.70	3.90	34.30	21.7
2 x AWG 16	4.40	4.60	44.30	14.9
3 x AWG 26	2.40	2.60	16.00	165.0
3 x AWG 24	2.50	2.70	16.70	117.4
3 x AWG 22	2.90	3.10	22.30	61.7
4 x AWG 24	3.00	3.20	21.00	117.0
4 x AWG 22	3.40	3.60	28.80	61.7
4 x AWG 20	3.70	3.90	43.60	34.1

CGP SAS
62 route du Coin
42400 Saint-Chamond
FRANCE
Phone: **+33 (0)4 77 31 02 54**
www.omerin.com



www.omerin.com

The information provided in this technical data sheet is indicative and may be modified without prior notice, laying, wiring and electrical conditions and the environment of the cable can not be fully considered in our studies. In no way the company CGP SAS shall be held responsible for any incidents in the case of inappropriate uses, particularly in the case of wiring conditions that do not respect the good practice and the standards in force.

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.

© Registered trademark of the CGP SAS. Drawings and photos are not contractual. Reproduction is prohibited without the prior agreement of CGP SAS.