

# ELECTROAIR®

## AGZ 59, 71, 83 Shielded & Jacketed

- 1 • One to three wires AGZ 06
- 2 • Silver plated copper braid
- 3 • Fluorinated polymer FEP

### Standards and approvals

**Construction:**

- Inspired of NF C 93-523

**Performances:**

- NF C 93-523
- IEC 60332-1
- C2 NF C 32-070
  - FAR 25
  - ABD0031
  - EN 3475

### Colour code

- AGZ 59: White jacket and White core
  - AGZ 71: White jacket and Blue / White cores
  - AGZ 83: White jacket and Blue / White / Orange cores

For any other request: please contact us

### Applications

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

Our range AGZ is an alternative to KZ NF C 93-523 (similar performances with a FEP insulation instead of PTFE)



- AGZ 59 (single core)**
- AGZ 71 (two cores)**
- AGZ 83 (three cores)**

### 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: ★★★★★  
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  
(tested on wire AGZ05)

**• Electromagnetic protection**

Very good covering (shielding) > 85%

### WIRE (AGZ 06)

AWG	Cross Section (mm <sup>2</sup> )	Stranding (n x mm)	Wire outer diameter (mm) Maxi	Approx. linear weight (kg / km)	Maximum linear resistance at 20°C (Ω / km)
32	0.03	7 x 0.08	1.09	2.6	546.0
30	0.06	7 x 0.10	1.16	3.0	349.0
28	0.09	7 x 0.13	1.24	3.7	201.0
26	0.14	7 x 0.16	1.34	4.6	132.0
24	0.22	7 x 0.20	1.47	5.8	86.0
22	0.34	7 x 0.25	1.63	7.7	54.4
20	0.60	7 x 0.32	1.86	11.0	31.3
18	0.93	7 x 0.40	2.17	16.0	20.5
16	1.34	19 x 0.30	2.41	21.1	13.9
14	1.91	19 x 0.36	2.92	30.0	10.0
12	3.09	19 x 0.45	3.55	47.5	6.0

### AGZ 59

### AGZ 71

### AGZ 83

#### 1X

#### 2X

#### 3X

AWG	Cable outer diameter (mm) Maxi	Approx. linear weight (kg / km)	Cable outer diameter (mm) Maxi	Approx. linear weight (kg / km)	Cable outer diameter (mm) Maxi	Approx. linear weight (kg / km)
32	2.22	8.8	3.36	16.4	3.51	20.9
30	2.28	9.4	3.48	17.7	3.64	22.7
28	2.37	10.6	3.66	19.9	3.83	25.8
26	2.47	11.9	3.86	22.6	4.05	29.6
24	2.60	13.6	4.12	26.1	4.33	34.5
22	2.90	18.2	4.42	31.4	4.65	42.1
20	3.14	22.7	4.90	40.2	5.34	57.6
18	3.43	29.2	5.64	55.6	6.15	76.2
16	3.68	35.4	6.16	68.1	6.60	94.8
14	4.19	46.8	7.08	90.7	7.59	127.0
12	5.00	70.4	8.34	133.0	8.94	188.0

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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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