

AZ Series

Wires specification: ABS2430



General purpose high-performance feeder wires. Designed for aerospace and other applications requiring excellent thermal stability and light weight.



Cable characteristics


-55 +180°C


Excellent


FAR25_ ABD0031

Environmental

- Operating temperature: -55°C to 180°C (ambient temperature + current heating)
- Resistant to Aircraft fluids (oils, hydrocarbons, kerosene, skydrols...), Chemical agents
- Arc Tracking resistant

Electrical

Maximum operating voltage:
• 230V (phase to neutral) or 400V (phase to phase) electrical network of aircraft and particularly use in non-pressurized area
Operating frequency: up to 2000Hz

Cable design



1. Stranded conductor: Un-plated Aluminium
2. Insulation: Polyimide/PTFE

Identification

- Wire color: Grey
- Wire Marking color: Black

Marking (example)

AZ yy FR A zz A
1 2 3 4 5 6

e.g. AZ 3 FR A 23 A

1. Short Designation
2. Gauge
3. Country of Origin
4. Manufacturer (A: Draka)
5. Manufacturing Year
6. Un-plated Aluminium

Specifications

Conductors

- For AWG 3 to AWG 00 according to ABS0957

Wires Specifications

ABS2430

Technical Specification

ABS0958

Compliant to ABD0031

Flammability, Smoke and Toxicity requirements and 14 CFR FAR25-1713

Dimensional

Short designation	Nominal cross section mm ²	AWG*	Conductor construction mm	Conductor diameter		Linear resistance max. at 20°C		Outer diameter max.		Weight max.	
				min. mm	max. mm	Ω/km	Ω/1000ft	mm	inch	kg/km	Lbs/1000ft
AZ3	28.6	3	19 X 14 Alu X 0.37	6.5	7.1	1.18	0.3596	8.4	0.3307	109	73.2446
AZ1	12.9	1	19 X 21 Alu X 0.37	8.3	8.9	0.75	0.2286	10.2	0.4016	175	117.5946
AZ00	73.5	00	19 X 36 Alu X 0.37	11.1	11.7	0.43	0.1310	13.00	0.5118	271	182.1036

*Closest American Wire Gauge

Bending radius

Permissible bend radius (recommendation following EN3197)	AWG
	3 to 00
Static use	11xØ
Dynamic use	22xØ



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