

AD Series

Wires specification: PR EN4681-003



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:

- 115V (phase to neutral) or 200V (phase to phase) AC Electrical systems of aircraft
- 230/400V AC in pressurized zones with specific installation rules to take account of possible short circuit effects.

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)

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

e.g. AD 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 000 according to EN 3719 (analogy with ABS0957)

Wires Specifications

PR EN4681-003 (analogy with ABS0949)

Technical Specification

PR EN4681-001 (analogy with 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
AD3	28.6	3	19 X 14 Alu X 0,37	6.5	7.1	1.18	0.359	7.74	0.305	94.0	63.165
AD2	34.7	2	19 X 17 Alu X 0,37	7.4	8.0	0.94	0.287	8.57	0.337	116.5	78.284
AD1	12.9	1	19 X 21 Alu X 0,37	8.3	8.9	0.75	0.229	9.50	0.374	143.5	96.427
AD0	55.3	0	19 X 27 Alu X 0,37	9.7	10.3	0.60	0.183	10.93	0.430	181.0	121.626
AD00	73.5	00	19 X 36 Alu X 0,37	11.1	11.7	0.43	0.131	12.37	0.487	230.0	154.553
AD000	89.9	000	19 X 44 Alu X 0,37	12.4	13.0	0.36	0.110	13.71	0.540	276.0	185.463

*Closest American Wire Gauge

Bending radius

Permissible bend radius (recommendation following EN3197)	AWG
	3 to 000
Static use	11xØ
Dynamic use	22xØ



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