

ADC Series

Wires specification: PR EN4681-004



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

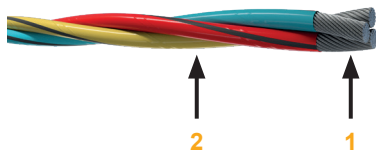
- Operating temperature: -55°C to 180°C (ambient temperature + current heating)
- Resistant to Aircraft fluids (oils, hydrocarbons, kerosene, skydrols...), Chemical agents
- Arc Tracking resistant

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: Red, Blue, Yellow
- Wire Marking color: Black

Marking (example)

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

e.g. ADA 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 EN4681-004 (analogy with ABS1354)

Technical Specification

PR EN4681-001 (analogy with ABS0958)

Compliant to ABD0031

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

DIMENSIONAL

For single wires (ADA), refer to PR EN4681-003 (ABS0949) data sheet (AD)

SHORT DESIGNATION	NUMBER OF WIRES	NOMINAL CROSS SECTION mm ²	AWG*	RESISTANCE MAX. at 20°C maxi		OUTER DIAMETER MAX.		WEIGHT MAX.	
				Ω/km	Ω/1000ft	mm	inch	kg/km	Lbs / 1000ft
ADC3	3	28.6	3	1.22	0.372	16.7	0.6575	290.5	195.22
ADC2	3	34.7	2	0.97	0.295	18.5	0.7283	360.0	241.92
ADC1	3	12.9	1	0.78	0.238	20.5	0.8071	443.4	297.97
ADC0	3	55.3	0	0.62	0.189	23.5	0.9252	559.6	376.06
ADC00	3	73.5	00	0.45	0.137	26.6	1.0472	710.7	477.60
ADC000	3	89.9	000	0.37	0.113	29.5	1.1614	852.8	573.09

*: 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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