

DG Series AIR1715-XX-AB

Wires specification: NSA 935131



General purpose high-performance hook-up cables. Designed for aerospace and other applications requiring excellent thermal stability and light weight.



Cable characteristics



-55 +260°C



Excellent



FAR25_ ABD0031

Environmental

- Operating temperature: -55°C to 260°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.

Operating frequency: up to 2000Hz

Cable design



1. Conductor: Nickel plated copper
2. Polyimide tape
3. PTFE tape
4. Fiber glass impregnated with PTFE / PTFE
5. PTFE tape

Identification

- Wire color: White
- Wire Marking color: Black

Marking (example)

DG FR-A zz xx

1 2 3 4 5

e.g. DG FR-A 23 6

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

Specifications

Wires Specifications

NSA935131

Compliant to ABD0031

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

Dimensional

Designation NSA935131	Designation AIR1715-XX-AB	AWG*	Nominal cross section	Stran- ding	Linear resistance max. at 20°C	Outer diameter		Intensity permis- sible rating	Weight max.
			mm ²	mm		Ω/km	min. mm		
NSA935131DG10	AIR1715-5-AB	10	5.15	73x0.30	3.90	4.10	4.50	55	64.5
NSA935131DG8	AIR1715-9-AB	8	8.98	127x0.30	2.30	5.20	5.60	75	108
NSA935131DG6	AIR1715-14-AB	6	13.4	27x7x0.30	1.60	6.30	7.30	100	160
NSA935131DG4	AIR1715-22-AB	4	21.8	37x12x0.25	0.97	8.10	9.30	135	245
NSA935131DG2	AIR1715-34-AB	2	34.5	37x19x0.25	0.61	9.70	10.90	181	396
NSA935131DG1	AIR1715-42-AB	1	41.8	37x23x0.25	0.50	10.60	12.10	211	470
NSA935131DG0	AIR1715-53-AB	0	52.7	37x29x0.25	0.40	11.80	13.40	245	600
NSA935131DG00	AIR1715-67-AB	00	67.2	37x37x0.25	0.31	13.60	14.50	283	750
NSA935131DG000	AIR1715-85-AB	000	84.8	37x47x0.25	0.25	15.60	16.80	328	950
NSA935131DG0000	AIR1715-107-AB	0000	107.8	61x36x0.25	0.20	17.00	18.40	380	1200

Designation NSA935131	Designation AIR1715-XX-AB	AWG*	Nominal cross section	Stranding	Linear resistance max. at 20°C	Outer diameter		Intensity permis- sible rating	Weight max.
			mm ²	inch		Ω/1000ft	min. inch		
NSA935131DG10	AIR1715-5-AB	10	5.15	73x0.0118	1.189	0.161	0.177	55	43.34
NSA935131DG8	AIR1715-9-AB	8	8.98	127x0.0118	0.701	0.205	0.221	75	72.57
NSA935131DG6	AIR1715-14-AB	6	13.4	27x7x0.0118	0.488	0.248	0.288	100	107.52
NSA935131DG4	AIR1715-22-AB	4	21.8	37x12x0.0098	0.296	0.319	0.366	135	164.63
NSA935131DG2	AIR1715-34-AB	2	34.5	37x19x0.0098	0.186	0.382	0.429	181	266.10
NSA935131DG1	AIR1715-42-AB	1	41.8	37x23x0.0098	0.152	0.417	0.476	211	315.83
NSA935131DG0	AIR1715-53-AB	0	52.7	37x29x0.0098	0.122	0.465	0.528	245	403.18
NSA935131DG00	AIR1715-67-AB	00	67.2	37x37x0.0098	0.094	0.535	0.571	283	503.98
NSA935131DG000	AIR1715-85-AB	000	84.8	37x47x0.0098	0.076	0.614	0.662	328	638.37
NSA935131DG0000	AIR1715-107-AB	0000	107.8	61x36x0.0098	0.061	0.669	0.725	380	806.36

*Closest American Wire Gauge

Bending radius

Permissible bend radius (recommendation following EN3197)	AWG		
	10	8 to 4	2 to 0000
Static use	6xØ	8xØ	11xØ
Dynamic use	12xØ	16xØ	22xØ



Prysmian câbles et systèmes France
Head Office
 23 avenue Aristide Briand - BP 801 - PARON - 89108 SENS Cedex / France
 Tel : +33 (0)4 72 46 73 99 - infocables.fr@prysmian.com

Draka Fileca SAS
 D 1001 - 60730 Sainte-Geneviève / France
 fileca-office@prysmian.com



www.prysmian.com

