

Very light weight,
UV markable wires,
180°C
Arc tracking resistant

Pr EN4681-003
(ABS 0949)
AD data sheet

CHARACTERISTICS:

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.

Mechanical :

- Weight: See table on reverse
- Dimensions : See table on reverse
- Tensile strength: See table on reverse
- Elasticity: See table on reverse

Electrical :

- Maximum operating voltage : 600 Vrms
- Operating frequency : up to 2000 Hz
- Linear resistance : see table on

APPLICATIONS:

- General purpose high performance hook-up wires.
- Designed for Aerospace and other applications requiring excellent thermal stability and extremely light weight.

IDENTIFICATION:

- Cable colour : Grey PTFE
- Cable marking colour: Blue except for gauge 22 which is green.
- Standard versions are based on PTFE tape that can be marked by UV laser.

CONSTRUCTION:

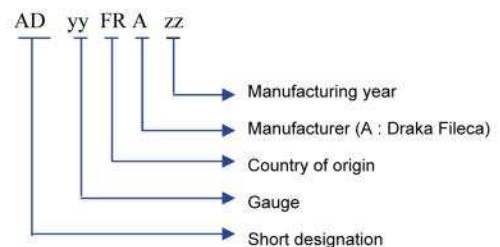


- 1- Conductor based on nickel plated copper clad aluminium (see table on reverse).
- 2- Reinforced polyimide
- 3- PTFE tape, UV laser sensitive.

STANDARDS/SPECIFICATONS:

- Conductor : EN4651 (ABS0957) for AWG 24 to AWG 4
EN3719 for size 3 to 000.
- Wires specification : pr EN4681-003 (ABS0949)
- Technical specification : prEN4681-001(ABS0958)
- Compliant to : ABD0031
Flammability smoke and toxicity requirements FAR25-869 Appendix F Part I.

MARKING:



Example : AD 24 FR A 05

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Short Designation	AWG	Nominal section mm ²	Conductor Diameter		Linear resistance at 20°C Max Ω/km	Cable Diameter		Max. Mass kg/km	Cable min. elastic limit N	Cable min. breaking load N
			Mini mm	Max mm		Min mm	Max mm			
AD24	24	0.25	0.56	0.58	145	0.85	0.96	1.75	38	67
AD22	22	0.40	0.7	0.73	90.2	1.00	1.10	2.50	41	71
AD20	20	0.60	0.94	0.97	49.6	1.22	1.34	3.65	51	111
AD18-	18	1	1.19	1.22	33.2	1.46	1.61	5.45	87	172
AD16	16	1.2	1.41	1.45	23	1.76	1.92	7.75	108	210
AD14	14	2	1.69	1.73	15.5	2.04	2.24	10.94	158	285
AD12	12	3	2.13	2.18	10.9	2.50	2.70	15.50	246	483
AD10	10	5	2.73	2.77	5.8	3.09	3.33	24.02	412	750
AD08	8	9	3.55	3.85	3.8	4.10	4.40	39.0	593	1000
AD06	6	14	4.8	5.20	2.3	5.30	5.70	63.7	1000	1000
AD04	4	22	5.9	6.30	1.5	6.6	7.40	96.3	1000	1000

Conductors in accordance with pr EN4651 (ABS 0957) (product standard)

Short Designation	AWG	Conductor Construction
AD24	24	7 x Ø 0.2 mm (1 strength member + 6 CCA)
AD22	22	7 x Ø 0.25 mm (1 strength member + 6 CCA)
AD20	20	19 CCA x Ø 0.2 mm
AD18	18	19 CCA x Ø 0.25mm
AD16	16	19 CCA x Ø 0.3 mm
AD14	14	37 CCA x Ø 0.25 mm
AD12	12	37 CCA x Ø 0.32 mm
AD10	10	61 CCA x Ø 0.32 mm
AD08	8	133 CCA x Ø 0.3 mm
AD06	6	133 CCA x Ø 0.36 mm
AD04	4	133 CCA x Ø 0.43 mm