

DR-Series

Wires specification: EN2267-010



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



CABLE CHARACTERISTICS



-65 +260°C



Excellent



FAR25_ABD0031

Environmental

- Operating temperature: -65°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
 - 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- Conductor:

AWG 26 and AWG 24: Nickel plated copper alloy
AWG 22 to AWG 2: Nickel plated copper

2- Reinforce Polyimide tape

3- PTFE tape, UV-laser sensitive

Identification

- Standard versions are based on PTFE tape that can be marked by UV-Laser
- Color of Insulation: AWG 26: Light Yellow
AWG 22: Light Green
Other Gauges: White

Marking (example)

EN DR yy FR A zz
1 2 3 4 5

e.g. EN DR 24 FR A 23

1- Short Designation

2- Gauge

3- Country of Origin

4- Manufacturer (A: Draka)

5- Manufacturing Year

SPECIFICATIONS

Conductors

- For AWG 26 to AWG 6 according to EN 4434 table 2: tight tolerance
- For AWG 4 and AWG 2 : EN 2083

Wires Specifications

EN2267-010 for marking by UV-Laser Markers

Technical Specification

EN2084

Compliant to ABD0031

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

DIMENSIONAL

SHORT DESIGNATION	EN REFERENCE	NOMINAL CROSS SECTION (mm ²)	AWG*	LINEAR RESISTANCE at 20°C maxi		OUTER DIAMETER				WEIGHT MAX.	
				Ω/km	Ω/1000ft	MIN.		MAX.		kg/km	Lbs / 1000ft
						mm	inch	mm	inch		
DR26	EN2267-010A001S	0.15	26	160.0	48.77	0.75	0.0295	0.84	0.0331	2.08	1.397
DR24	EN2267-010A002S	0.25	24	114.0	34.75	0.85	0.0335	0.96	0.0378	2.72	1.827
DR22	EN2267-010A004S	0.40	22	60.0	18.29	1.00	0.0394	1.10	0.0433	4.14	2.781
DR20	EN2267-010A006S	0.60	20	33.2	10.12	1.22	0.0480	1.34	0.0528	6.85	4.604
DR18	EN2267-010A010S	1	18	21.1	6.43	1.46	0.0575	1.61	0.0634	10.43	7.008
DR16	EN2267-010A012S	1.2	16	14.5	4.42	1.76	0.0693	1.92	0.0756	14.61	9.817
DR14	EN2267-010A020S	2	14	10.9	3.32	2.04	0.0803	2.24	0.0882	19.78	13.291
DR12	EN2267-010A030S	3	12	6.8	2.07	2.50	0.0984	2.70	0.1063	31.33	21.060
DR10	EN2267-010A051S	5	10	4.1	1.25	3.13	0.1232	3.33	0.1311	49.85	33.497
DR8	EN2267-010A090S	9	8	2.3	0.70	4.10	0.1614	4.40	0.1732	90.00	60.490
DR6	EN2267-010A140S	14	6	1.58	0.48	5.30	0.2087	5.70	0.2244	135.00	90.728
DR4	EN2267-010A220S	22	4	0.97	0.30	6.71	0.2642	7.41	0.2917	222.00	149.206
DR2	EN2267-010A340S	34	2	0.61	0.19	8.28	0.326	9.16	0.3606	347.00	233.212

*: Closest American Wire Gauge

BENDING RADIUS

PERMISSIBLE BEND RADIUS (recommendation following EN3197)	AWG		
	26 to 10	8 to 4	2
Static use	6xØ	8xØ	11xØ
Dynamic use	12xØ	16xØ	22xØ

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