

GJ, MH, UU, VV Series

Cables specifications : EN 2714-011



Retrofit airframe wires and cables for commercial aircraft and helicopters



Cable characteristics



-65 +260°C



Excellent



FAR25_
ABD0031

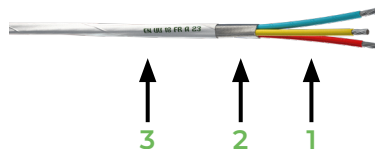
Environmental

- Operating temperature: -65°C to 260°C (ambient temperature + current heating)
- Resistant to: Aircraft fluids (oils, hydrocarbons, kerosene, skydrols...), Chemical agents

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. Cores: EN2267-007 DMA, non UV markable
GJ: 1 core - MH: 2 cores - UU: 3 cores - VV: 4 cores
2. Screen: Nickel plated copper stranded spiral
3. PTFE tape, UV-laser markable

Identification

- 1 Core (GJ): White, except Gauge 22: Light Green and Gauge 26: Light Yellow
- 2 Cores (MH): Red and Blue
- 3 Cores (UU): Red, Blue and Yellow
- 4 Cores (VV): Red, Blue, Yellow and Green
- Jacket (1-4 Cores): Light Blue for Gauges 24-20-16, White for the other Gauges

Marking (example)

EN UU xx FR A zz
1 2 3 4 5

e.g. EN UU 18 FR A 23

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

Specifications

Cores Specification

EN2267-007 DMA family, single ink-jet printable and multicore assembly - Product standard

Cables Specifications

EN2714-011: DM family, screened (spiral) and jacketed, UV laser printable - Product standard

Technical Specification

EN2235

Compliant to ABD0031

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

Dimensional

GJ & MH Cables

Short designation	EN reference	Stranding	Nb of cores	Nom. cross section	AWG*	Linear resistance max. at 20°C		Diameter						Weight max.	
				Cores max.				Screen strands nom.		Outer max.					
		nb x Ømm		mm²		Ω/km	Ω/1000ft	mm	inch	mm	inch	mm	inch	kg/km	Lbs/1000ft
GJ26	EN2714-011A001F	19 x 0.10	1	0.15	26	160.0	48.77	0.97	0.0382	0.08	0.0031	1.47	0.0579	5.63	3.783
GJ24	EN2714-011A002F	19 x 0.12	1	0.21	24	114.0	34.75	1.04	0.0409	0.08	0.0031	1.53	0.0602	6.44	4.328
GJ22	EN2714-011A004F	19 x 0.15	1	0.34	22	60.0	18.29	1.19	0.0469	0.08	0.0031	1.69	0.0665	8.19	5.503
GJ20	EN2714-011A006F	19 x 0.20	1	0.60	20	33.2	10.12	1.53	0.0602	0.08	0.0031	2.05	0.0807	12.42	8.346
GJ18	EN2714-011A010F	19 x 0.25	1	0.93	18	21.1	6.43	1.82	0.0717	0.08	0.0031	2.33	0.0917	17.28	11.612
GJ16	EN2714-011A012F	19 x 0.30	1	1.34	16	14.5	4.42	2.22	0.0874	0.10	0.0039	2.77	0.1091	24.57	16.510
GJ14	EN2714-011A020F	37 x 0.25	1	1.82	14	10.9	3.32	2.49	0.0980	0.10	0.0039	3.03	0.1193	31.16	20.939
GJ12	EN2714-011A030F	37 x 0.32	1	2.98	12	6.8	2.07	2.97	0.1169	0.10	0.0039	3.49	0.1374	43.63	29.318
GJ10	EN2714-011A051F	61 x 0.32	1	4.91	10	4.1	1.25	3.61	0.1421	0.12	0.0047	4.13	0.1626	66.65	44.787
MH26	EN2714-011B001F	19 x 0.10	2	0.15	26	165.0	50.2	0.97	0.0382	0.08	0.0031	2.43	0.0957	9.78	6.572
MH24	EN2714-011B002F	19 x 0.12	2	0.21	24	117.0	35.8	1.04	0.0409	0.08	0.0031	2.55	0.1004	11.35	7.627
MH22	EN2714-011B004F	19 x 0.15	2	0.34	22	61.7	18.8	1.19	0.0469	0.08	0.0031	2.87	0.1130	14.75	9.912
MH20	EN2714-011B006F	19 x 0.20	2	0.60	20	34.1	10.4	1.53	0.0602	0.10	0.0039	3.62	0.1425	24.10	16.194
MH18	EN2714-011B010F	19 x 0.25	2	0.93	18	21.7	6.6	1.82	0.0717	0.10	0.0039	4.19	0.1650	33.67	22.625
MH16	EN2714-011B012F	19 x 0.30	2	1.34	16	14.9	4.5	2.22	0.0874	0.12	0.0047	5.02	0.1976	47.76	32.093
MH14	EN2714-011B020F	37 x 0.25	2	1.82	14	11.2	3.4	2.49	0.0980	0.15	0.0059	5.61	0.2209	63.64	42.764
MH12	EN2714-011B030F	37 x 0.32	2	2.98	12	6.99	2.1	2.97	0.1169	0.20	0.0079	6.65	0.2618	94.47	63.481
MH10	EN2714-011B051F	61 x 0.32	2	4.91	10	4.22	1.3	3.61	0.1421	0.20	0.0079	7.87	0.3098	139.07	93.451

*Closest American Wire Gauge

Dimensional

UU, VV & MJ Cables

Short designation	EN reference	Stranding	Nb of cores	Nom. cross section	AWG*	Linear resistance max. at 20°C		Diameter						Weight max.	
								Cores max.		Screen strands nom.		Outer max.			
		nb x Ømm		mm²		Ω/km	Ω/1000ft	mm	inch	mm	inch	mm	inch	kg/km	Lbs/1000ft
UU26	EN2714-011C001F	19 x 0.10	3	0.15	26	165.0	50.2	0.97	0.0382	0.08	0.0031	2.57	0.1012	13.07	8.783
UU24	EN2714-011C002F	19 x 0.12	3	0.21	24	117.0	35.8	1.04	0.0409	0.10	0.0031	2.75	0.1083	16.36	10.993
UU22	EN2714-011C004F	19 x 0.15	3	0.34	22	61.7	18.8	1.19	0.0469	0.10	0.0031	3.09	0.1217	21.33	14.333
UU20	EN2714-011C006F	19 x 0.20	3	0.60	20	34.1	10.4	1.53	0.0602	0.12	0.0031	3.90	0.1535	34.73	23.337
UU18	EN2714-011C010F	19 x 0.25	3	0.93	18	21.7	6.6	1.82	0.0717	0.12	0.0031	4.51	0.1776	49.00	32.926
UU16	EN2714-011C012F	19 x 0.30	3	1.34	16	14.9	4.5	2.22	0.0874	0.15	0.0039	5.43	0.2138	70.38	47.293
UU14	EN2714-011C020F	37 x 0.25	3	1.82	14	11.2	3.4	2.49	0.0980	0.15	0.0039	5.99	0.2358	89.85	60.376
UU12	EN2714-011C030F	37 x 0.32	3	2.98	12	6.99	2.13	2.97	0.1169	0.20	0.0039	7.10	0.2795	133.30	89.573
UU10	EN2714-011C051F	61 x 0.32	3	4.91	10	4.22	1.29	3.61	0.1421	0.20	0.0047	8.40	0.3307	198.55	133.419
VV26	EN2714-011D001F	19 x 0.10	4	0.15	26	165.0	50.2	0.97	0.0382	0.10	0.0031	2.86	0.1126	17.45	11.726
VV24	EN2714-011D002F	19 x 0.12	4	0.21	24	117.0	35.8	1.04	0.0409	0.10	0.0031	3.02	0.1189	20.46	13.748
VV22	EN2714-011D004F	19 x 0.15	4	0.34	22	61.7	18.8	1.19	0.0469	0.10	0.0031	3.39	0.1335	26.98	18.130
VV20	EN2714-011D006F	19 x 0.20	4	0.60	20	34.1	10.4	1.53	0.0602	0.12	0.0039	4.30	0.1693	44.37	29.815
VV18	EN2714-011D010F	19 x 0.25	4	0.93	18	21.7	6.6	1.82	0.0717	0.12	0.0039	4.99	0.1965	62.90	42.267
VV16	EN2714-011D012F	19 x 0.30	4	1.34	16	14.9	4.5	2.22	0.0874	0.15	0.0047	6.00	0.2362	90.48	60.800
VV14	EN2714-011D020F	37 x 0.25	4	1.82	14	11.2	3.4	2.49	0.0980	0.20	0.0059	6.73	0.2650	122.32	82.195

*Closest American Wire Gauge



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