MMx Series

Cables specification: EN2714-014X

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 for DR cores

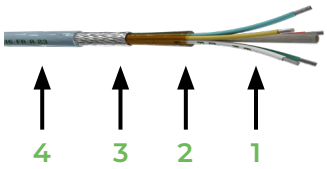
Electrical

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. Cores: DRA EN2267-009 (refer to EN2267-010 for dimensions)
2. Uncoated Polyimide tape (optional)
3. Screen: Copper-Nickel, braided
4. Jacket: Polyimide + PTFE Tape, UV-Laser markable

(Fillers cores shall be permitted for 4, 5, 6, 8, 9, 10 and 11 cores cables)

Identification

Jacket: Light blue for Gauges 24-20-16, White for the other Gauges

Marking (example)

EN MMx yy FR A zz
1 2 3 4 5

e.g. EN MME 16 FRA 23

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

Cores	Colours
1	White, except Gauge 22: Light Green and Gauge 26: Light Yellow
2	Red + Blue
3	Red + Blue + Yellow
4	Red + Blue + Yellow + Green
5	Red + Blue + Yellow + Green + White
6	Red + Blue + Yellow + Green + White + Black
7	Red + Blue + Yellow + Green + White + Black + Brown
8	Red + Blue + Yellow + Green + White + Black + Brown + Orange
9	Red + Blue + Yellow + Green + White + Black + Brown + Orange + Violet
10	Red + Blue + Yellow + Green + White + Black + Brown + Orange + Violet + Grey

Specifications

Cables Specifications
EN2714-014, DR family, 4 to 11 cores, taped, screened braided and jacketed, UV-laser printable product standard

Technical Specification
EN2235

Compliant to ABD0031
Flammability, Smoke and Toxicity requirements and 14 CFR FAR25-1713

Dimensional

For MMA

Short designation	EN reference	Number of cores	Nominal cross section mm²	AWG*	Linear resistance max. at 20°C		Screen strands nom. Ø		Outer diameter max.		Weight max.	
					Ω/km	*Ω/1000ft*	mm	*inch*	mm	*inch*	kg/km	*Lbs/1000ft*
MMA26	EN2714-014A001F	1	0.15	26	160.0	*48.77*	-	-	-	-	-	-
MMA24	EN2714-014A002F	1	0.25	24	114.0	*34.75*	-	-	-	-	-	-
MMA22	EN2714-014A004F	1	0.40	22	60.0	*18.29*	-	-	-	-	-	-
MMA20	EN2714-014A006F	1	0.60	20	33.2	*10.12*	-	-	-	-	-	-
MMA18	EN2714-014A010F	1	1	18	21.1	*6.43*	0.10	*0.0039*	3.15	*0.1240*	18.35	*12.33*
MMA16	EN2714-014A012F	1	1.2	16	14.5	*4.42*	0.10	*0.0039*	3.91	*0.1539*	25.15	*16.90*
MMA14	EN2714-014A020F	1	2	14	10.9	*3.32*	-	-	-	-	-	-
MMA12	EN2714-014A030F	1	3	12	6.8	*2.07*	-	-	-	-	-	-
MMA10	EN2714-014A051F	1	5	10	4.1	*1.25*	-	-	-	-	-	-

For MMB

MMB26	EN2714-014B001F	2	0.15	26	165	*50.33*	-	-	-	-	-	-
MMB24	EN2714-014B002F	2	0.25	24	117	*35.66*	-	-	-	-	-	-
MMB22	EN2714-014B004F	2	0.40	22	61.70	*18.80*	-	-	-	-	-	-
MMB20	EN2714-014B006F	2	0.60	20	34.10	*10.39*	-	-	-	-	-	-
MMB18	EN2714-014B010F	2	1	18	21.70	*6.61*	0.10	*0.0039*	4.33	*0.1705*	35.24	*23.68*
MMB16	EN2714-014B012F	2	1.2	16	14.90	*4.54*	0.10	*0.0039*	4.98	*0.1961*	45.98	*30.90*
MMB14	EN2714-014B020F	2	2	14	11.20	*3.41*	-	-	-	-	-	-
MMB12	EN2714-014B030F	2	3	12	6.99	*2.13*	-	-	-	-	-	-
MMB10	EN2714-014B051F	2	5	10	4.22	*1.29*	-	-	-	-	-	-

*Closest American Wire Gauge

For MMC

Short designation	EN reference	Number of cores	Nominal cross section mm²	AWG*	Linear resistance max. at 20°C		Screen strands nom. Ø		Outer diameter max.		Weight max.	
					Ω/km	*Ω/ 1000ft*	mm	*inch*	mm	*inch*	kg/ km	*Lbs/ 1000ft*
MMC26	EN2714-014C001F	3	0.15	26	165.00	*50.33*	-	-	-	-	-	-
MMC24	EN2714-014C002F	3	0.25	24	117.00	*35.66*	-	-	-	-	-	-
MMC22	EN2714-014C004F	3	0.40	22	61.70	*18.80*	-	-	-	-	-	-
MMC20	EN2714-014C006F	3	0.60	20	34.10	*10.39*	-	-	-	-	-	-
MMC18	EN2714-014C010F	3	1	18	21.70	*6.61*	-	-	-	-	-	-
MMC16	EN2714-014C012F	3	1.2	16	14.90	*4.54*	-	-	-	-	-	-
MMC14	EN2714-014C020F	3	2	14	11.20	*3.41*	-	-	-	-	-	-
MMC12	EN2714-014C030F	3	3	12	6.99	*2.13*	-	-	-	-	-	-
MMC10	EN2714-014C051F	3	5	10	4.22	*1.29*	-	-	-	-	-	-

For MMD

MMD26	EN2714-014D001F	4	0.15	26	165.00	*50.33*	-	-	-	-	-	-
MMD24	EN2714-014D002F	4	0.25	24	117.00	*35.66*	-	-	-	-	-	-
MMD22	EN2714-014D004F	4	0.40	22	61.70	*18.80*	0.10	*0.0039*	3.45	*0.1358*	28.3	*19.02*
MMD20	EN2714-014D006F	4	0.60	20	34.10	*10.39*	0.12	*0.0047*	4.19	*0.1650*	44.3	*29.77*
MMD18	EN2714-014D010F	4	1	18	21.70	*6.61*	-	-	-	-	-	-
MMD16	EN2714-014D012F	4	1.2	16	14.90	*4.54*	-	-	-	-	-	-
MMD14	EN2714-014D020F	4	2	14	11.20	*3.41*	-	-	-	-	-	-
MMD12	EN2714-014D030F	4	3	12	6.99	*2.13*	-	-	-	-	-	-
MMD10	EN2714-014D051F	4	5	10	4.22	*1.29*	-	-	-	-	-	-

For MME

MME26	EN2714-014E001F	5	0.15	26	165.00	*50.33*	-	-	-	-	-	-
MME24	EN2714-014E002F	5	0.25	24	117.00	*35.66*	0.10	*0.0039*	3.29	*0.1295*	26.2	*17.61*
MME22	EN2714-014E004F	5	0.40	22	61.70	*18.80*	0.12	*0.0047*	3.87	*0.1524*	37.5	*25.20*
MME20	EN2714-014E006F	5	0.60	20	34.10	*10.39*	0.12	*0.0047*	4.60	*0.1811*	55.5	*37.29*
MME18	EN2714-014E010F	5	1	18	21.70	*6.61*	0.12	*0.0047*	5.26	*0.2071*	76.0	*51.07*
MME16	EN2714-014E012F	5	1.2	16	14.90	*4.54*	0.12	*0.0047*	6.10	*0.2402*	102.2	*68.68*
MME14	EN2714-014E020F	5	2	14	11.20	*3.41*	0.12	*0.0047*	7.05	*0.2776*	135.0	*90.72*
MME12	EN2714-014E030F	5	3	12	6.99	*2.13*	0.15	*0.0059*	8.41	*0.3311*	205.6	*138.16*
MME10	EN2714-014E051F	5	5	10	4.22	*1.29*	-	-	-	-	-	-

*Closest American Wire Gauge

For MMF

Short designation	EN reference	Number of cores	Nominal cross section mm²	AWG*	Linear resistance max. at 20°C		Screen strands nom. Ø		Outer diameter max.		Weight max.	
					Ω/km	*Ω/ 1000ft*	mm	*inch*	mm	*inch*	kg/ km	*Lbs/ 1000ft*
MMF26	EN2714-014F001F	6	0.15	26	165.00	*50.33*	-	-	-	-	-	-
MMF24	EN2714-014F002F	6	0.25	24	117.00	*35.66*	0.12	*0.0047*	3.65	*0.1437*	31.3	*21.03*
MMF22	EN2714-014F004F	6	0.40	22	61.70	*18.80*	-	-	-	-	-	-
MMF20	EN2714-014F006F	6	0.60	20	34.10	*10.39*	0.15	*0.0059*	5.15	*0.2028*	70.0	*47.04*
MMF18	EN2714-014F010F	6	1	18	21.70	*6.61*	-	-	-	-	-	-
MMF16	EN2714-014F012F	6	1.2	16	14.90	*4.54*	0.15	*0.0059*	6.77	*0.2665*	126.7	*85.14*
MMF14	EN2714-014F020F	6	2	14	11.20	*3.41*	-	-	-	-	-	-
MMF12	EN2714-014F030F	6	3	12	6.99	*2.13*	-	-	-	-	-	-
MMF10	EN2714-014F051F	6	5	10	4.22	*1.29*	-	-	-	-	-	-

For MMG

MMG26	EN2714-014G001F	7	0.15	26	165.00	50.33	-	-	-	-	-	-
MMG24	EN2714-014G002F	7	0.25	24	117.00	35.66	0.12	0.0047	3.80	0.1496	34.6	23.25
MMG22	EN2714-014G004F	7	0.40	22	61.70	18.80	0.12	0.0047	4.19	0.1650	46.8	31.45
MMG20	EN2714-014G006F	7	0.60	20	34.10	10.39	-	-	-	-	-	-
MMG18	EN2714-014G010F	7	1	18	21.70	6.61	-	-	-	-	-	-
MMG16	EN2714-014G012F	7	1.2	16	14.90	4.54	-	-	-	-	-	-
MMG14	EN2714-014G020F	7	2	14	11.20	3.41	-	-	-	-	-	-
MMG12	EN2714-014G030F	7	3	12	6.99	2.13	-	-	-	-	-	-
MMG10	EN2714-014G051F	7	5	10	4.22	1.29	-	-	-	-	-	-

For MMH

MMH26	EN2714-014H001F	8	0.15	26	165.00	*50.33*	-	-	-	-	-	-
MMH24	EN2714-014H002F	8	0.25	24	117.00	*35.66*	0.12	*0.0047*	4.27	*0.1681*	39.5	*26.54*
MMH22	EN2714-014H004F	8	0.40	22	61.70	*18.80*	-	-	-	-	-	-
MMH20	EN2714-014H006F	8	0.60	20	34.10	*10.39*	-	-	-	-	-	-
MMH18	EN2714-014H010F	8	1	18	21.70	*6.61*	-	-	-	-	-	-
MMH16	EN2714-014H012F	8	1.2	16	14.90	*4.54*	-	-	-	-	-	-
MMH14	EN2714-014H020F	8	2	14	11.20	*3.41*	-	-	-	-	-	-
MMH12	EN2714-014H030F	8	3	12	6.99	*2.13*	-	-	-	-	-	-
MMH10	EN2714-014H051F	8	5	10	4.22	*1.29*	-	-	-	-	-	-

*Closest American Wire Gauge

For MMK

Short designation	En reference	Number of cores	Nominal cross section mm²	AWG*	Linear resistance max. at 20°C		Screen strands nom. Ø		Outer diameter max.		Weight max.	
					Ω/km	*Ω/ 1000ft*	mm	*inch*	mm	*inch*	kg/ km	*Lbs/ 1000ft*
MMK26	EN2714-014K001F	10	0.15	26	165.00	*50.33*	-	-	-	-	-	-
MMK24	EN2714-014K002F	10	0.25	24	117.00	*35.66*	0.12	*0.0047*	4.74	*0.1866*	48.75	*32.76*
MMK22	EN2714-014K004F	10	0.40	22	61.70	*18.80*	-	-	-	-	-	-
MMK20	EN2714-014K006F	10	0.60	20	34.10	*10.39*	-	-	-	-	-	-
MMK18	EN2714-014K010F	10	1	18	21.70	*6.61*	-	-	-	-	-	-
MMK16	EN2714-014K012F	10	1.2	16	14.90	*4.54*	-	-	-	-	-	-
MMK14	EN2714-014K020F	10	2	14	11.20	*3.41*	-	-	-	-	-	-
MMK12	EN2714-014K030F	10	3	12	6.99	*2.13*	-	-	-	-	-	-
MMK10	EN2714-014K051F	10	5	10	4.22	*1.29*	-	-	-	-	-	-

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Bending radius

Permissible bend radius (recommendation following EN3197)	AWG
	26 to 10
Static use	6xØ
Dynamic use	12xØ

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FT N°404 MME MMx Series - V2 - 2024-03