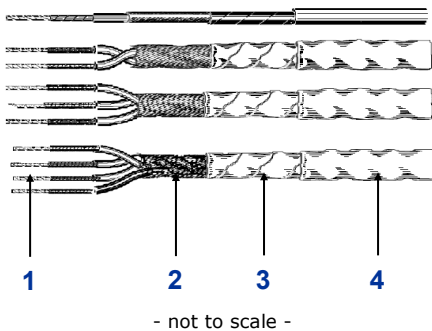


MME/MMX-Series

Aircraft Multi-Conductor Copper Wires, 260°C Based on DRA Cores

Cable Design

EN 2714-014E/014X



- 1 Conductors: DRA Cores (see Technical Data Sheet DR)
- 2 Screen: Cooper-Nickel, braided
- 3 Tape: Polyimide, reinforced (overlap $\geq 25\%$)
- 4 Jacket: PTFE-Tape, UV-Laser markable (sintered)

General purpose high-performance hook-up wires.

Designed for aerospace and other applications requiring excellent thermal stability and light weight.

Characteristics

Physical & Environmental

- Operating Temperature : - 65°C to + 260°C
(ambient temperature and current heating)

Electrical:

- Maximum Operating Voltage: 115V (phase to neutral) or 200 V (phase to phase)
AC electrical system of aircrafts
- Linear Resistance: see table on reverse

Mechanical:

- Weight: see table on reverse
- Dimensions: see table on reverse

Standards/Specifications

- Conductors: DRA Cores (refer to DR-Range Datasheet)
- Product Standard: EN2714-014
- Technical Specification: EN2235
- Compliant to ABD0031: Flammability, Smoke and Toxicity requirements and
14 CFR FAR25-1713

Identification

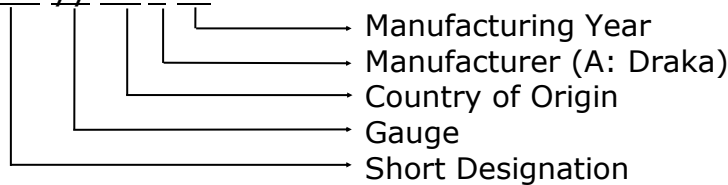
- 1 Core*: White, except Gauge 22: Light Green and Gauge 26: Light Yellow
- 2 Cores*: Red + Blue
- 3 Cores*: Red + Blue + Yellow
- 4 Cores: Red + Blue + Yellow + Green
- 5 Cores: Red + Blue + Yellow + Green + White
- 6 Cores: Red + Blue + Yellow + Green + White + Black
- 7 Cores: Red + Blue + Yellow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

- Jacket: Light Blue for Gauges 24—20—16, White for all other Gauges.

* 1-3 Cores are not part of specification EN2714-014

Marking

EN MMx yy FR A zz



(MMA = 1 Core, MMB = 2 Cores, MMC = 3 Cores, MMD = 4 Cores, MME = 5 Cores, MMF = 6 Cores, MMG = 7 Cores, MMH = 8 Cores, MMK = 10 Cores)

e.g. EN MMA 24 FRA 04

Technical Data MMA

Number of Cores	Short Designation	EN Reference	Nominal Cross Section mm ²	AWG *	Linear Resistance (at 20°C)		Screen Strands Nom. Diameter		External Diameter (Max.)		Maximum Weight	
					Ω/km	Ω/1000ft	mm	inch	mm	inch	kg/km	Lbs / 1000ft
1	MMA26	EN2714-014 A 001 F	0.15	26	160.0	48.8	-	-	-	-	-	-
	MMA24	EN2714-014 A 002 F	0.25	24	114.0	34.8	-	-	-	-	-	-
	MMA22	EN2714-014 A 004 F	0.40	22	60.0	18.3	-	-	-	-	-	-
	MMA20	EN2714-014 A 006 F	0.60	20	33.2	10.1	-	-	-	-	-	-
	MMA18	EN2714-014 A 010 F	1	18	21.1	6.4	0.10	0.0039	3.15	0.1240	18.35	12.33
	MMA16	EN2714-014 A 012 F	1.2	16	14.5	4.4	0.10	0.0039	3.91	0.1539	25.15	16.90
	MMA14	EN2714-014 A 020 F	2	14	10.9	3.3	-	-	-	-	-	-
	MMA12	EN2714-014 A 030 F	3	12	6.8	2.1	-	-	-	-	-	-
	MMA10	EN2714-014 A 051 F	5	10	4.1	1.3	-	-	-	-	-	-

* Closest American Wire Gauge

Technical Data MMB, MMC, MMD

Number of Cores	Short Designation	EN Reference	Nominal Cross Section mm ²	AWG *	Linear Resistance (at 20°C)		Screen Strands Nom. Diameter		External Diameter (Max.)		Maximum Weight	
					Ω/km	Ω/1000ft	mm	inch	mm	inch	kg/km	Lbs / 1000ft
2	MMB26	EN2714-014 B 001 F	0.15	26	165.0	50.2	-	-	-	-	-	-
	MMB24	EN2714-014 B 002 F	0.25	24	117.0	35.8	-	-	-	-	-	-
	MMB22	EN2714-014 B 004 F	0.40	22	61.7	18.8	-	-	-	-	-	-
	MMB20	EN2714-014 B 006 F	0.60	20	34.1	10.4	-	-	-	-	-	-
	MMB18	EN2714-014 B 010 F	1	18	21.7	6.6	0.10	0.0039	3.88	0.1528	46.61	31.32
	MMB16	EN2714-014 B 012 F	1.2	16	14.9	4.5	0.12	0.0047	4.65	0.1831	44.95	30.21
	MMB14	EN2714-014 B 020 F	2	14	11.2	3.4	-	-	-	-	-	-
	MMB12	EN2714-014 B 030 F	3	12	6.99	2.1	-	-	-	-	-	-
	MMB10	EN2714-014 B 051 F	5	10	4.22	1.3	-	-	-	-	-	-
3	MMC26	EN2714-014 C 001 F	0.15	26	165.0	50.2	-	-	-	-	-	-
	MMC24	EN2714-014 C 002 F	0.25	24	117.0	35.8	-	-	-	-	-	-
	MMC22	EN2714-014 C 004 F	0.40	22	61.7	18.8	-	-	-	-	-	-
	MMC20	EN2714-014 C 006 F	0.60	20	34.1	10.4	-	-	-	-	-	-
	MMC18	EN2714-014 C 010 F	1	18	21.7	6.6	-	-	-	-	-	-
	MMC16	EN2714-014 C 012 F	1.2	16	14.9	4.5	0.12	0.0047	5.11	0.2012	67.05	45.06
	MMC14	EN2714-014 C 020 F	2	14	11.2	3.4	-	-	-	-	-	-
	MMC12	EN2714-014 C 030 F	3	12	6.99	2.1	-	-	-	-	-	-
	MMC10	EN2714-014 C 051 F	5	10	4.22	1.3	-	-	-	-	-	-
4	MMD26	EN2714-014 D 001 F	0.15	26	165.0	50.2	-	-	-	-	-	-
	MMD24	EN2714-014 D 002 F	0.25	24	117.0	35.8	-	-	-	-	-	-
	MMD22	EN2714-014 D 004 F	0.40	22	61.7	18.8	0.10	0.0039	3.45	0.1358	28.3	19.02
	MMD20	EN2714-014 D 006 F	0.60	20	34.1	10.4	0.12	0.0047	4.19	0.1650	44.3	29.77
	MMD18	EN2714-014 D 010 F	1	18	21.7	6.6	-	-	-	-	-	-
	MMD16	EN2714-014 D 012 F	1.2	16	14.9	4.5	-	-	-	-	-	-
	MMD14	EN2714-014 D 020 F	2	14	11.2	3.4	-	-	-	-	-	-
	MMD12	EN2714-014 D 030 F	3	12	6.99	2.1	-	-	-	-	-	-
	MMD10	EN2714-014 D 051 F	5	10	4.22	1.3	-	-	-	-	-	-

* Closest American Wire Gauge

Technical Data MME, MMF, MMG

Number of Cores	Short Designation	EN Reference	Nominal Cross Section mm ²	AWG *	Linear Resistance (at 20°C)		Screen Strands Nom. Diameter		External Diameter (Max.)		Maximum Weight	
					Ω/km	Ω/1000ft	mm	inch	mm	inch	kg/km	Lbs / 1000ft
5	MME26	EN2714-014 B 001 F	0.15	26	165.0	50.2	-	-	-	-	-	-
	MME24	EN2714-014 B 002 F	0.25	24	117.0	35.8	0.10	0.0039	3.29	0.1295	26.2	17.61
	MME22	EN2714-014 B 004 F	0.40	22	61.7	18.8	0.12	0.0047	3.87	0.1524	37.5	25.20
	MME20	EN2714-014 B 006 F	0.60	20	34.1	10.4	0.12	0.0047	4.60	0.1811	55.5	37.29
	MME18	EN2714-014 B 010 F	1	18	21.7	6.6	0.12	0.0047	5.26	0.2071	76.0	51.07
	MME16	EN2714-014 B 012 F	1.2	16	14.9	4.5	0.12	0.0047	6.10	0.2402	102.2	68.68
	MME14	EN2714-014 B 020 F	2	14	11.2	3.4	0.12	0.0047	7.05	0.2776	135.0	90.72
	MME12	EN2714-014 B 030 F	3	12	6.99	2.1	0.15	0.0059	8.41	0.3311	205.6	138.16
	MME10	EN2714-014 B 051 F	5	10	4.22	1.3	-	-	-	-	-	-
6	MMF26	EN2714-014 C 001 F	0.15	26	165.0	50.2	-	-	-	-	-	-
	MMF24	EN2714-014 C 002 F	0.25	24	117.0	35.8	0.12	0.0047	3.65	0.1437	31.3	21.03
	MMF22	EN2714-014 C 004 F	0.40	22	61.7	18.8	-	-	-	-	-	-
	MMF20	EN2714-014 C 006 F	0.60	20	34.1	10.4	0.15	0.0059	5.15	0.2028	70.0	47.04
	MMF18	EN2714-014 C 010 F	1	18	21.7	6.6	0.15	0.0059	6.15	0.2421	98.1	65.92
	MMF16	EN2714-014 C 012 F	1.2	16	14.9	4.5	0.15	0.0059	6.77	0.2665	126.7	85.14
	MMF14	EN2714-014 C 020 F	2	14	11.2	3.4	-	-	-	-	-	-
	MMF12	EN2714-014 C 030 F	3	12	6.99	2.1	-	-	-	-	-	-
	MMF10	EN2714-014 C 051 F	5	10	4.22	1.3	-	-	-	-	-	-
7	MMG26	EN2714-014 D 001 F	0.15	26	165.0	50.2	-	-	-	-	-	-
	MMG24	EN2714-014 D 002 F	0.25	24	117.0	35.8	0.12	0.0047	3.80	0.1496	34.6	23.25
	MMG22	EN2714-014 D 004 F	0.40	22	61.7	18.8	0.12	0.0047	4.19	0.1650	46.8	31.45
	MMG20	EN2714-014 D 006 F	0.60	20	34.1	10.4	-	-	-	-	-	-
	MMG18	EN2714-014 D 010 F	1	18	21.7	6.6	-	-	-	-	-	-
	MMG16	EN2714-014 D 012 F	1.2	16	14.9	4.5	-	-	-	-	-	-
	MMG14	EN2714-014 D 020 F	2	14	11.2	3.4	-	-	-	-	-	-
	MMG12	EN2714-014 D 030 F	3	12	6.99	2.1	-	-	-	-	-	-
	MMG10	EN2714-014 D 051 F	5	10	4.22	1.3	-	-	-	-	-	-

* Closest American Wire Gauge

Technical Data MMH, MMK

Number of Cores	Short Designation	EN Reference	Nominal Cross Section mm ²	AWG *	Linear Resistance (at 20°C)		Screen Strands Nom. Diameter		External Diameter (Max.)		Maximum Weight	
					Ω/km	Ω/1000ft	mm	inch	mm	inch	kg/km	Lbs / 1000ft
8	MMH26	EN2714-014 B 001 F	0.15	26	165.0	50.2	-	-	-	-	-	-
	MMH24	EN2714-014 B 002 F	0.25	24	117.0	35.8	0.12	0.0047	4.27	0.1681	39.5	26.54
	MMH22	EN2714-014 B 004 F	0.40	22	61.7	18.8	-	-	-	-	-	-
	MMH20	EN2714-014 B 006 F	0.60	20	34.1	10.4	-	-	-	-	-	-
	MMH18	EN2714-014 B 010 F	1	18	21.7	6.6	-	-	-	-	-	-
	MMH16	EN2714-014 B 012 F	1.2	16	14.9	4.5	-	-	-	-	-	-
	MMH14	EN2714-014 B 020 F	2	14	11.2	3.4	-	-	-	-	-	-
	MMH12	EN2714-014 B 030 F	3	12	6.99	2.1	-	-	-	-	-	-
	MMH10	EN2714-014 B 051 F	5	10	4.22	1.3	-	-	-	-	-	-
10	MMK26	EN2714-014 C 001 F	0.15	26	165.0	50.2	-	-	-	-	-	-
	MMK24	EN2714-014 C 002 F	0.25	24	117.0	35.8	0.12	0.0047	4.74	0.1866	48.75	32.76
	MMK22	EN2714-014 C 004 F	0.40	22	61.7	18.8	-	-	-	-	-	-
	MMK20	EN2714-014 C 006 F	0.60	20	34.1	10.4	-	-	-	-	-	-
	MMK18	EN2714-014 C 010 F	1	18	21.7	6.6	-	-	-	-	-	-
	MMK16	EN2714-014 C 012 F	1.2	16	14.9	4.5	-	-	-	-	-	-
	MMK14	EN2714-014 C 020 F	2	14	11.2	3.4	-	-	-	-	-	-
	MMK12	EN2714-014 C 030 F	3	12	6.99	2.1	-	-	-	-	-	-
	MMK10	EN2714-014 C 051 F	5	10	4.22	1.3	-	-	-	-	-	-