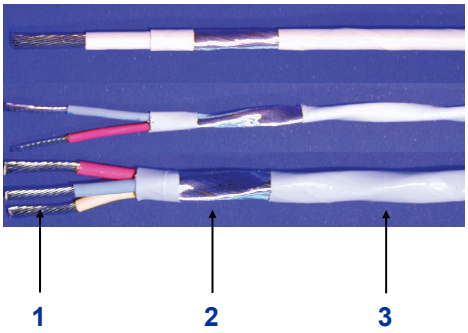
MLA/MLB/MLC/MLD-Series

Light-Weight, High-Performance, UV-Markable Wires, 260°C, Arc-Tracking Resistant

Cable Design

EN 2714-013A/013B/013C/013D



- not to scale -

1: Cores:	EN2267-009 (refer to EN2267-010 for dimensions)
2: Helicoidal Shield:	Nickel-plated Copper Coverage > 90%
3: Jacket:	Polyimide + PTFE Tape, UV-Laser sensitive

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)
- Resistant to: Aircraft fluids (oils, hydrocarbons, kerosene, skydrols…)
  Chemical agents
- Arc-Tracking Resistant

Electrical:

- Maximum Operating Voltage: 115V (phase to neutral) or 200 V (phase to phase)
  AC electrical system of aircrafts
- Operating Frequency: up to 2000 Hz
- Linear Resistance: see table on reverse

Mechanical:

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

Standards/Specifications

- Wire Specification: EN2714-013 DR 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

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Identification

- 1 Core: White, except Gauge 22: light green and Gauge 26: light yellow
- 2 Cores: Red and Blue
- 3 Cores: Red, Blue and Yellow
- 4 Cores: Red, Blue, Yellow and Green

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

Marking

EN MLx yy FR A zz

- zz → Manufacturing Year
- A → Manufacturer (A: Draka)
- FR → Country of Origin
- yy → Gauge
- MLx → Short Designation (MLA = 1 Core, MLB = 2 Cores, MLC = 3 Cores, MLD = 4 Cores)

e.g. EN MLD 24 FRA 04

Technical Data MLA

Short Designation	EN Reference	Number of Cores	Nominal Cross Section mm²	AWG *	Linear Resistance (at 20°C)		Screen strands (nom. Ø)		Maximum Outer Diameter		Maximum Weight	
					Ω/km	Ω/ 1000ft	mm	inch	mm	inch	kg/km	Lbs / 1000ft
MLA26	**EN2714-013A001F**	1	0.15	26	160.0	*48.77*	0.08	*0.0031*	1.31	*0.052*	4.68	*3.144*
MLA24	**EN2714-013A002F**	1	0.25	24	114.0	*34.75*	0.08	*0.0031*	1.45	*0.057*	5.76	*3.870*
MLA22	**EN2714-013A004F**	1	0.40	22	60.0	*18.29*	0.08	*0.0031*	1.60	*0.063*	7.51	*5.046*
MLA20	**EN2714-013A006F**	1	0.60	20	33.2	*10.12*	0.08	*0.0031*	1.84	*0.072*	10.77	*7.238*
MLA18	**EN2714-013A010F**	1	1	18	21.1	*6.43*	0.08	*0.0031*	2.08	*0.082*	14.97	*10.061*
MLA16	**EN2714-013A012F**	1	1.2	16	14.5	*4.42*	0.10	*0.0039*	2.43	*0.096*	20.97	*14.094*
MLA14	**EN2714-013A020F**	1	2	14	10.9	*3.32*	0.10	*0.0039*	2.74	*0.108*	27.03	*18.166*
MLA12	**EN2714-013A030F**	1	3	12	6.8	*2.07*	0.10	*0.0039*	3.2	*0.126*	39.70	*26.682*
MLA10	**EN2714-013A051F**	1	5	10	4.1	*1.25*	0.12	*0.0047*	3.89	*0.153*	61.94	*41.629*

* Closest American Wire Gauge

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Technical Data MLB, MLC and MLD

Short Designation	EN Reference	Number of Cores	Nominal Cross Section mm²	AWG *	Linear Resistance (at 20°C)		Screen strands (nom. Ø)		Maximum Outer Diameter		Maximum Weight	
					Ω/km	Ω/ 1000ft	mm	inch	mm	inch	kg/km	Lbs / 1000ft
MLB26	**EN2714-013B001F**	2	0.15	26	164.80	*50.23*	0.08	*0.0031*	2.13	*0.084*	8.17	*5.491*
MLB24	**EN2714-013B002F**	2	0.25	24	117.42	*35.79*	0.08	*0.0031*	2.40	*0.094*	10.23	*6.875*
MLB22	**EN2714-013B004F**	2	0.40	22	61.80	*18.84*	0.08	*0.0031*	2.70	*0.106*	13.64	*9.167*
MLB20	**EN2714-013B006F**	2	0.60	20	34.20	*10.42*	0.10	*0.0039*	3.22	*0.127*	21.05	*14.147*
MLB18	**EN2714-013B010F**	2	1	18	21.73	*6.62*	0.10	*0.0039*	3.71	*0.146*	29.52	*19.840*
MLB16	**EN2714-013B012F**	2	1.2	16	14.94	*4.55*	0.12	*0.0047*	4.38	*0.172*	41.20	*27.690*
MLB14	**EN2714-013B020F**	2	2	14	11.23	*3.42*	0.15	*0.0059*	5.04	*0.198*	55.83	*37.522*
MLB12	**EN2714-013B030F**	2	3	12	7	*2.13*	0.20	*0.0079*	6.09	*0.240*	86.79	*58.330*
MLB10	**EN2714-013B051F**	2	5	10	4.22	*1.29*	0.20	*0.0079*	7.39	*0.291*	130.51	*87.714*
MLC26	**EN2714-013C001F**	3	0.15	26	164.80	*50.23*	0.08	*0.0031*	2.26	*0.089*	10.94	*7.353*
MLC24	**EN2714-013C002F**	3	0.25	24	117.42	*35.79*	0.10	*0.0039*	2.59	*0.102*	14.72	*9.893*
MLC22	**EN2714-013C004F**	3	0.40	22	61.80	*18.84*	0.10	*0.0039*	2.91	*0.115*	19.76	*13.280*
MLC20	**EN2714-013C006F**	3	0.60	20	34.20	*10.42*	0.12	*0.0047*	3.48	*0.137*	30.44	*20.458*
MLC18	**EN2714-013C010F**	3	1	18	21.73	*6.62*	0.12	*0.0047*	4.00	*0.157*	42.96	*28.873*
MLC16	**EN2714-013C012F**	3	1.2	16	14.94	*4.55*	0.15	*0.0059*	4.73	*0.186*	60.67	*40.775*
MLC14	**EN2714-013C020F**	3	2	14	11.23	*3.42*	0.15	*0.0059*	5.39	*0.212*	78.83	*52.980*
MLC12	**EN2714-013C030F**	3	3	12	7	*2.13*	0.20	*0.0079*	6.50	*0.256*	122.72	*82.478*
MLC10	**EN2714-013C051F**	3	5	10	4.22	*1.29*	0.20	*0.0079*	7.90	*0.311*	186.69	*125.471*
MLD26	**EN2714-013D001F**	4	0.15	26	164.80	*50.23*	0.10	*0.0039*	2.51	*0.099*	14.57	*9.792*
MLD24	**EN2714-013D002F**	4	0.25	24	117.42	*35.79*	0.10	*0.0039*	2.84	*0.112*	18.47	*12.413*
MLD22	**EN2714-013D004F**	4	0.40	22	61.80	*18.84*	0.10	*0.0039*	3.19	*0.126*	25.04	*16.829*
MLD20	**EN2714-013D006F**	4	0.60	20	34.20	*10.42*	0.12	*0.0047*	3.82	*0.150*	38.81	*26.084*
MLD18	**EN2714-013D010F**	4	1	18	21.73	*6.62*	0.12	*0.0047*	4.41	*0.174*	55.22	*37.112*
MLD16	**EN2714-013D012F**	4	1.2	16	14.94	*4.55*	0.15	*0.0059*	5.23	*0.206*	78.02	*52.436*
MLD14	**EN2714-013D020F**	4	2	14	11.23	*3.42*	0.20	*0.0079*	6.06	*0.239*	107.36	*75.155*

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