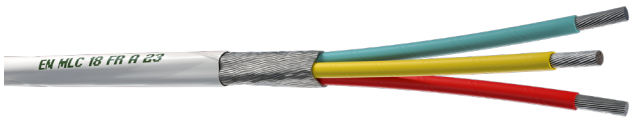
MLA/MLB/MLC/MLD Series

Cables specification:
EN2714-013A/013B/013C/013D

General purpose high-performance hook-up cables. 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

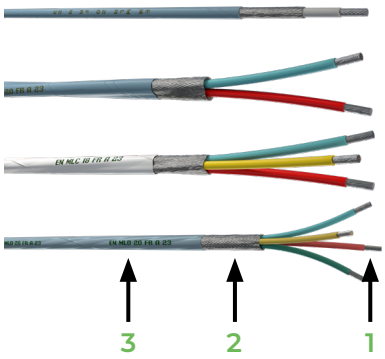
Electrical

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: EN2267-009 (refer to EN2267-010 for dimensions)
2. Helicoidal Shield: Nickel-plated Copper
3. Jacket: Polyimide + PTFE Tape, UV-Laser sensitive

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 (example)

EN MLx yy FR A zz
1 2 3 4 5

e.g. EN MLD 24 FRA 23

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

Specifications

Cables Specifications
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

Dimensional

For MLA

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*
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*	3.20	*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*

For MLB

MLB26	EN2714-013B001F	2	0.15	26	165.00	*50.33*	0.08	*0.0031*	2.13	*0.084*	8.17	*5.491*
MLB24	EN2714-013B002F	2	0.25	24	117	*35.66*	0.08	*0.0031*	2.40	*0.094*	10.23	*6.875*
MLB22	EN2714-013B004F	2	0.40	22	61.70	*18.80*	0.08	*0.0031*	2.70	*0.106*	13.64	*9.167*
MLB20	EN2714-013B006F	2	0.60	20	34.10	*10.39*	0.10	*0.0039*	3.22	*0.127*	21.05	*14.147*
MLB18	EN2714-013B010F	2	1	18	21.70	*6.61*	0.10	*0.0039*	3.71	*0.146*	29.52	*19.840*
MLB16	EN2714-013B012F	2	1.2	16	14.90	*4.54*	0.12	*0.0047*	4.38	*0.172*	41.20	*27.690*
MLB14	EN2714-013B020F	2	2	14	11.20	*3.41*	0.15	*0.0059*	5.04	*0.198*	55.83	*37.522*
MLB12	EN2714-013B030F	2	3	12	6.99	*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*

*Closest American Wire Gauge

For MLC

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*
MLC26	EN2714-013C001F	3	0.15	26	165	*50.33*	0.08	*0.0031*	2.26	*0.089*	10.94	*7.353*
MLC24	EN2714-013C002F	3	0.25	24	117	*35.66*	0.10	*0.0039*	2.59	*0.102*	14.72	*9.893*
MLC22	EN2714-013C004F	3	0.40	22	61.70	*18.80*	0.10	*0.0039*	2.91	*0.115*	19.76	*13.280*
MLC20	EN2714-013C006F	3	0.60	20	34.10	*10.39*	0.12	*0.0047*	3.48	*0.137*	30.44	*20.458*
MLC18	EN2714-013C010F	3	1	18	21.70	*6.62*	0.12	*0.0047*	4.00	*0.157*	42.96	*28.873*
MLC16	EN2714-013C012F	3	1.2	16	14.90	*4.55*	0.15	*0.0059*	4.73	*0.186*	60.67	*40.775*
MLC14	EN2714-013C020F	3	2	14	11.20	*3.42*	0.15	*0.0059*	5.39	*0.212*	78.83	*52.980*
MLC12	EN2714-013C030F	3	3	12	6.99	*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*

For MLD

MLD26	EN2714-013D001F	4	0.15	26	165.00	*50.33*	0.10	*0.0039*	2.51	*0.099*	14.57	*9.792*
MLD24	EN2714-013D002F	4	0.25	24	117.00	*35.66*	0.10	*0.0039*	2.84	*0.112*	18.47	*12.413*
MLD22	EN2714-013D004F	4	0.40	22	61.70	*18.80*	0.10	*0.0039*	3.19	*0.126*	25.04	*16.829*
MLD20	EN2714-013D006F	4	0.60	20	34.10	*10.39*	0.12	*0.0047*	3.82	*0.150*	38.81	*26.084*
MLD18	EN2714-013D010F	4	1	18	21.70	*6.61*	0.12	*0.0047*	4.41	*0.174*	55.22	*37.112*
MLD16	EN2714-013D012F	4	1.2	16	14.90	*4.54*	0.15	*0.0059*	5.23	*0.206*	78.02	*52.436*
MLD14	EN2714-013D020F	4	2	14	11.20	*3.41*	0.20	*0.0079*	6.06	*0.239*	107.36	*75.155*

*Closest American Wire Gauge

Bending radius

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

Prysmian câbles et systèmes France
Head Office
23 avenue Aristide Briand - BP 801 - PARON - 89108 SENS Cedex / France
Tel : +33 (0)4 72 46 73 99 - infocables.fr@prysmian.com

Draka Fileca SAS
D 1001 - 60730 Sainte-Geneviève / France
fileca-office@prysmian.com

www.prysmian.com

FT N°403 MLA/MLB/MLC/MLD Series - V2 - 2024-03