

PLASTHERM®

E40BE40-FR & M40BE-E40-FR Shielded & Jacketed

- 1 • Tinned copper core
- 2 • Special thermoplastic
- 3 • Tinned copper braid
- 4 • Special thermoplastic

Standards and approvals

Construction:

- NF C 93-524

Performances:

- FAR 25
- ISO 6722
- UL94-V2
- NF F 16-101
- IEC 60754-1

Colour code

- (1x) = White jacket and White core
- (2x) = White jacket and Blue / White cores
- (3x) = White jacket and White / Blue / Orange cores

For any other request: please contact us

Applications

Electrical lightweight cables used in electronic equipments for aircraft, missile systems or aeronautical test benches



Characteristics

• Thermal

Continuous operating temperature: **-40°C to +150°C**

• Electrical

Operating voltage: 600 V RMS

• Mechanical

Resistance to abrasion: ★★★★★

• Chemical

Resistance to chemical environments: ★★★☆☆

• Fire-smoke

Self-extinguishing

FAR 25 / ISO 6722 / UL94-V2 (material)

Low smoke density & toxicity

ITC = 10 according to NF C 16-101

• Halogen free

Yes

E40BE40-FR (1x)

AWG	Cross Section (mm²)	Stranding (n x mm)	Cable outer diameter (mm)		Approx. linear weight (kg / km)	Maximum linear resistance at 20°C (Ω / km)
			Mini	Maxi		
30	0.06	7 x 0.10	1.23	1.43	4.0	365.4
28	0.09	7 x 0.13	1.29	1.49	5.3	208.0
26	0.14	19 x 0.10	1.41	1.61	5.5	128.7
24	0.22	19 x 0.13	1.61	1.81	8.8	76.6
22	0.34	19 x 0.16	1.86	2.06	10.0	50.3
20	0.60	19 x 0.20	2.28	2.48	14.8	32.1
18	0.93	19 x 0.25	2.61	2.91	21.4	20.6
16	1.34	19 x 0.30	2.81	3.11	29.7	14.3
14	1.91	37 x 0.25	3.17	3.47	34.5	10.6
12	3.09	37 x 0.32	3.70	4.00	48.8	6.5

M40BE-E40-FR (2x)

AWG	Cable outer diameter (mm)		Approx. linear weight (kg / km)
	Mini	Maxi	
30	1.98	2.22	8.5
28	2.10	2.34	11.7
26	2.32	2.62	12.1
24	2.62	2.91	18.8
22	2.99	3.30	21.1
20	3.81	4.13	29.2
18	4.36	4.72	39.3
16	4.76	5.12	49.5
14	5.52	5.92	65.7
12	6.53	7.03	96.7

M40BE-E40-FR (3x)

AWG	Cable outer diameter (mm)		Approx. linear weight (kg / km)
	Mini	Maxi	
30	2.19	2.43	11.4
28	2.31	2.55	14.6
26	2.54	2.82	15.7
24	2.74	3.05	23.8
22	3.15	3.46	26.4
20	4.06	4.38	39.8
18	4.66	4.98	53.7
16	5.09	5.40	68.7
14	5.87	6.31	92.8
12	7.01	7.47	137.4

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For an optimum use of the cables produced by our company, we recommend testing in real conditions. Our sales department is available for a possible provision of samples, and/or for the conditions of a complete study in our laboratories.

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