

PLASTHERM®

E40-FR & M-E40-FR Unshielded

- 1 • Tinned copper core
- 2 • 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

- E40-FR = Red, Blue, Yellow, Green, White, Black, Brown, Orange, Purple, Grey
 - M-E40-FR (2x) = White / Blue
 - M-E40-FR (3x) = White / Blue / Orange
- 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

E40-FR

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	0.58	0.68	0.9	365.4
28	0.09	7 x 0.13	0.64	0.74	1.5	208.0
26	0.14	19 x 0.10	0.76	0.86	2.0	128.7
24	0.22	19 x 0.13	0.86	0.96	3.6	76.6
22	0.34	19 x 0.16	1.05	1.15	4.6	50.3
20	0.60	19 x 0.20	1.47	1.57	7.6	32.1
18	0.93	19 x 0.25	1.75	1.85	11.3	20.6
16	1.34	19 x 0.30	1.93	2.07	15.5	14.3
14	1.91	37 x 0.25	2.26	2.46	21.4	10.6
12	3.09	37 x 0.32	2.79	2.99	33.8	6.5

M-E40-FR (2x)

AWG	Cable outer diameter (mm)		Approx. linear weight (kg / km)
	Mini	Maxi	
30	1.16	1.36	2.0
28	1.28	1.48	3.1
26	1.52	1.72	4.1
24	1.72	1.92	7.4
22	2.10	2.30	9.5
20	2.94	3.14	16.0
18	3.50	3.70	23.8
16	3.86	4.14	32.6
14	4.52	4.92	44.9
12	5.58	5.98	71.0

M-E40-FR (3x)

AWG	Cable outer diameter (mm)		Approx. linear weight (kg / km)
	Mini	Maxi	
30	1.25	1.46	3.0
28	1.38	1.58	4.7
26	1.63	1.85	6.1
24	1.85	2.06	11.4
22	2.26	2.47	14.1
20	3.16	3.38	24.1
18	3.76	3.98	35.8
16	4.15	4.45	48.8
14	4.86	5.29	67.4
12	6.00	6.43	106.5

CGP SAS
62 route du Coin
42400 Saint-Chamond
FRANCE
Phone: **+33 (0)4 77 31 02 54**
www.omerin.com



www.omerin.com

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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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