

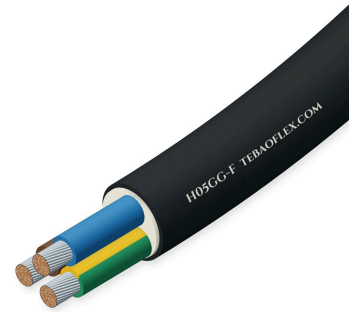


General rubber flexible cables

H05GG-F

EVA Flexible Cable

Harmonised 300/500 V +110 °C EI3/EM4 cross-linked EVA heat-resistant flexible cord



EN 50525-2-21

U0/U 300/500 V

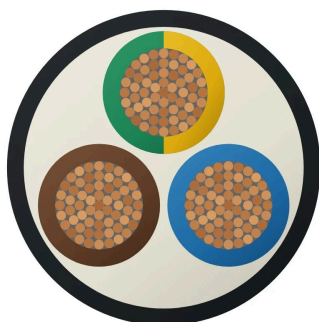
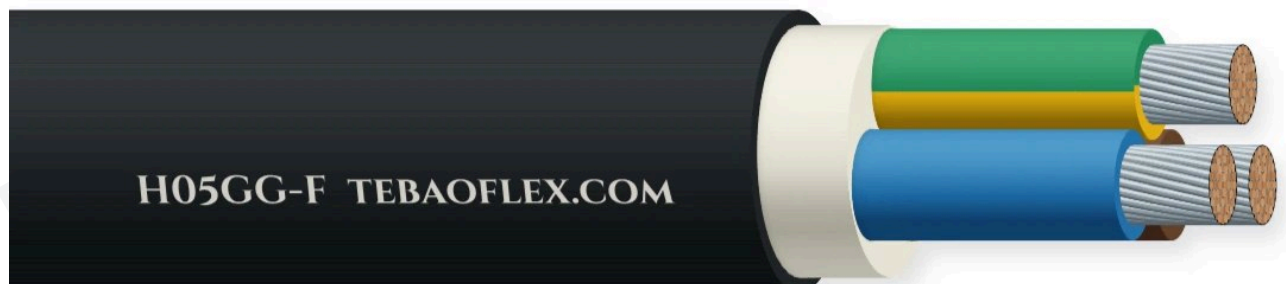
EI3/EM4 EVA · +110 °C

Application

Heat-resistant 300/500 V flexible cord to EN 50525-2-21 with Class 5 copper conductors, +110 °C cross-linked ethylene-vinyl acetate (EI3 EVA) core insulation and EM4 EVA outer sheath for high-temperature luminaires, heating appliances and commercial ovens.

Typical uses: High-bay & stage lighting fixtures, Commercial kitchen & bakery ovens, Industrial drying & curing chambers, Heating apparatus & boiler plant, Plastics extrusion & moulding zones

Construction



Cross-section, not to scale

1 Flexible copper conductor

EN 60228 Class 5

2 +110 °C EVA core insulation

EN 50363-1 EI3 (+110 °C continuous)

3 +110 °C EVA outer sheath

EN 50363-2-1 EM4 (+110 °C · halogen-free)

Technical data

Typical values

Rated voltage U0/U	300/500 V AC	Max. operating voltage	330/550 V AC
AC test voltage	2000 V AC (50 Hz, 15 min)	Conductor stranding	IEC 60228 Class 5 flexible bare or tinned copper
Current rating basis	DIN VDE 0298-4 (+110 °C heat-resistant rating)	Max. conductor temperature	+110 °C continuous (+120 °C short-term)
Short-circuit temperature	+250 °C max. (up to 5 s)	Temperature, flexing	-25 °C to +110 °C
Temperature, fixed	-40 °C to +110 °C	Min. bending radius, fixed	4 × overall diameter (OD ≤ 12 mm: 3 × OD)
Min. bending radius, moving	6 × overall diameter (free movement)	Max. tensile load	15 N/mm ² dynamic (50 N/mm ² static)
Notch & tear strength	Cross-linked EVA offers higher tear strength than silicone rubber	Thermal ageing resistance	EI3/EM4 cross-linked EVA resists embrittlement at +110 °C
Halogen-free	IEC 60754-1 halogen-free EVA insulation and sheath	Ozone & UV stability	EN 60811-403 ozone-resistant cross-linked EVA
Service environment	Dry, damp or wet interiors and protected heating equipment	Standards	EN 50525-2-21 (HD 22.7 S2 / DIN VDE 0285-525-2-21)
Standard packing	Heat-treated ISPM-15 timber drums with sealed cable ends		

Sizes

17 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Cores × mm ²	AWG ≈	Outer Ø min mm	Outer Ø max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm
Harmonised H05GG-F cross-linked EVA sizes (0.75–6 mm ² per EN 50525-2-21 Table B.3) 17 sizes							
☐ H05GG-F 2×0.75	2×0.75	18	5.7	6.2	14	52	25
☐ H05GG-F 3G0.75	3G0.75	18	6.2	6.7	22	64	27
☐ H05GG-F 4G0.75	4G0.75	18	6.7	7.3	29	78	29
☐ H05GG-F 2×1.0	2×1.0	17	6.1	6.6	19	61	26
☐ H05GG-F 3G1.0	3G1.0	17	6.5	7.1	29	75	28
☐ H05GG-F 4G1.0	4G1.0	17	7.2	7.8	38	92	31
☐ H05GG-F 5G1.0	5G1.0	17	7.9	8.6	48	112	34
☐ H05GG-F 2×1.5	2×1.5	16	7.5	8.2	29	94	33
☐ H05GG-F 3G1.5	3G1.5	16	8.2	8.9	43	116	36
☐ H05GG-F 4G1.5	4G1.5	16	9.1	9.9	58	145	40
☐ H05GG-F 5G1.5	5G1.5	16	10.0	10.9	72	178	44
☐ H05GG-F 3G2.5	3G2.5	14	9.8	10.6	72	170	42
☐ H05GG-F 4G2.5	4G2.5	14	10.7	11.6	96	210	46
☐ H05GG-F 5G2.5	5G2.5	14	11.9	12.9	120	258	52
☐ H05GG-F 3G4	3G4	12	11.4	12.4	115	248	50
☐ H05GG-F 4G4	4G4	12	12.5	13.6	154	312	54
☐ H05GG-F 3G6	3G6	10	13.0	14.1	173	342	56

– Dimensions and weights are typical values per EN 50525-2-21 (HD 22.7). Minimum fixed bending radius shown is 4 × OD.

Electrical & current ratings

6 sizes

Cross-section mm ²	AWG ≈	Max. DC resistance 20 °C, Ω/km	1-core in air 30 °C, A	3–4 core in air 30 °C, A
0.75	18	26	12	10
1	17	19.5	15	13
1.5	16	13.3	23	18
2.5	14	7.98	30	25
4	12	4.95	41	34
6	10	3.3	53	44

– Current ratings at 30 °C ambient in free air per DIN VDE 0298-4 / EN 50565-1. Apply derating factors for elevated ambient temperature or reeling layer grouping.

Standards and approvals

✓ EN 50525-2-21 (HD 22.7)

✓ CE · RoHS 2 (2011/65/EU) · REACH

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/h05gg-f-eva-flexible-cable



Typical values for this cable type, based on EN 50525-2-21 (HD 22.7). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.