



High-temperature wire

H07G-K

Flexible EVA Heat-Resistant Wire

450/750 V Class 5 fine-stranded tinned copper wire with +110 °C EVA EI3 insulation



EN 50525-2-42

450/750 V

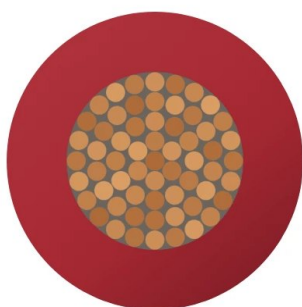
Class 5 Flexible EVA

Application

Harmonised H07G-K flexible heat-resistant single-core wire to EN 50525-2-42, pairing an IEC 60228 Class 5 fine-stranded tinned copper conductor with cross-linked EVA (EI3) insulation for switchgear, motor leads, and heating equipment up to +110 °C.

Typical uses: Electric Motors & Transformers, Switchgear & Drive Cabinets, Plastic Extruders & Moulding, Industrial Ovens & Floodlights, HVAC & Thermal Appliances

Construction



Cross-section, not to scale

- 1 Fine-stranded tinned copper
- 2 Separator tape ($\geq 25 \text{ mm}^2$)
- 3 Cross-linked EVA EI3 dielectric
- 4 Halogen-free outer skin

Technical data

Typical values

Rated voltage U0/U	450/750 V AC	Protected cabinet voltage	600/1000 V AC in protected switchgear
AC test voltage	2500 V AC (50 Hz, 5 min)	Insulation resistance	≥ 200 MΩ·km at +20 °C
Current rating basis	DIN VDE 0298-4 (+110 °C single-core in air)	Continuous conductor temp.	-40 °C to +110 °C
Short-term peak temperature	+120 °C (up to 1000 h)	Short-circuit temperature	+250 °C (max. 5 s)
Min. installation temp.	-25 °C	Conductor stranding	IEC 60228 Class 5 fine-stranded tinned Cu
Min. bending radius (≤ 8 mm OD)	4 × overall diameter (fixed)	Min. bending radius (> 8 mm OD)	5 × OD (8–12 mm) · 6 × OD (> 12 mm)
Tensile load limit	15 N/mm ² during installation routing	Flame retardance	IEC 60332-1-2 vertical single-wire test
Halogen-free verification	IEC 60754-1 & IEC 60754-2	Ozone & varnish resistance	EN 60811-403 ozone & impregnating resins
Standards	EN 50525-2-42 / DIN VDE 0285-525-2-42		

Sizes

15 standard constructions

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

Order designation	Cross-section / size	Conductor build	Wall ≈ mm	Outer Ø ≈ mm	Metal kg/km	Weight ≈ kg/km	Min. bend R fixed mm
Standard H07G-K configurations 15 sizes							
☐ H07G-K 1×0.5	0.5	16×0.25 mm Cl.5	0.60	2.10	4.8	8.8	8
☐ H07G-K 1×0.75	0.75	16×0.25 mm Cl.5	0.60	2.40	7.2	12.2	10
☐ H07G-K 1×1	1	20×0.25 mm Cl.5	0.60	2.50	9.6	14.7	10
☐ H07G-K 1×1.5	1.5	31×0.25 mm Cl.5	0.80	3.20	14.4	23.0	13
☐ H07G-K 1×2.5	2.5	51×0.25 mm Cl.5	0.90	3.90	24.0	36.3	16
☐ H07G-K 1×4	4	82×0.25 mm Cl.5	1.00	4.70	38.4	55.5	19
☐ H07G-K 1×6	6	122×0.25 mm Cl.5	1.00	5.30	57.6	77.5	21
☐ H07G-K 1×10	10	141×0.30 mm Cl.5	1.20	6.60	96.0	125.4	26
☐ H07G-K 1×16	16	225×0.30 mm Cl.5	1.20	7.70	153.6	188.8	31
☐ H07G-K 1×25	25	352×0.30 mm Cl.5	1.40	9.50	240.0	292.3	48
☐ H07G-K 1×35	35	493×0.30 mm Cl.5	1.40	10.70	336.0	395.7	54
☐ H07G-K 1×50	50	704×0.30 mm Cl.5	1.60	12.60	480.0	559.9	63
☐ H07G-K 1×70	70	986×0.30 mm Cl.5	1.60	14.30	672.0	763.6	72
☐ H07G-K 1×95	95	1338×0.30 mm Cl.5	1.80	16.60	912.0	1,034.0	83
☐ H07G-K 1×120	120	1690×0.30 mm Cl.5	1.80	18.20	1,152.0	1,286.9	91

– Outer diameters and weights are nominal engineering values for H07G-K subject to standard manufacturing tolerances per EN 50525-2-42 / DIN VDE 0285-525-2-42.

Electrical & rating data

15 sizes

Configuration	Max. DC R @ 20 °C Ω/km	Primary rating (A or kV)	Derated / AC rating	Dielectric test V AC rms
1×0.5 mm ²	40.10	12.0	9.0	2,500
1×0.75 mm ²	26.70	16.0	12.0	2,500
1×1 mm ²	20.00	20.0	15.0	2,500
1×1.5 mm ²	13.70	26.0	20.0	2,500
1×2.5 mm ²	8.21	36.0	28.0	2,500

Configuration	Max. DC R @ 20 °C Ω/km	Primary rating (A or kV)	Derated / AC rating	Dielectric test V AC rms
1×4 mm ²	5.09	49.0	37.0	2,500
1×6 mm ²	3.39	63.0	48.0	2,500
1×10 mm ²	1.95	86.0	66.0	2,500
1×16 mm ²	1.24	115.0	88.0	2,500
1×25 mm ²	0.80	149.0	114.0	2,500
1×35 mm ²	0.56	185.0	142.0	2,500
1×50 mm ²	0.39	225.0	172.0	2,500
1×70 mm ²	0.28	289.0	221.0	2,500
1×95 mm ²	0.21	352.0	269.0	2,500
1×120 mm ²	0.16	410.0	314.0	2,500

– Electrical resistance at +20 °C and dielectric withstand voltages verified per EN 50525-2-42 / DIN VDE 0285-525-2-42.

Standards and approvals

- ✓ EN 50525-2-42 / DIN VDE 0285-525-2-42
- ✓ CE (2014/35/EU) & RoHS 3 (2015/863/EU) Compliant
- ✓ REACH SVHC & Halogen/Asbestos Compliance Verified

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

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Email

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Web

tebaoflex.com/cables/h07g-k-flexible-eva-heat-resistant-wire



Typical values for this cable type, based on EN 50525-2-42 / DIN VDE 0285-525-2-42. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.