ÖLFLEX® HEAT 125 SC A

LK 23060701R
Version: Rev.6 Date: 04 Sep. 2025

1. DESIGNATION: ÖLFLEX® HEAT 125 SC A

2. APPLICATION

ÖLFLEX® HEAT 125 SC A is a UL recognized, AWM 3271 and 3820, single core cable. This cable is designed to withstand high temperatures and is ideal for applications requiring heat resistance. ÖLFLEX® HEAT 125 SC A is halogen-free and features low toxicity. Typical applications are internal wiring of lamps, heating appliances, electric machines, switchboards and cabinets in apparatus, mechanical and plant engineering.

3. CABLE MAKE UP

Conductor	Fine wire strands of tinned copper wires
Core insulation	Electron beam cross-linked polyolefine compound(XLPO), halogen free and flame retardant
Colour	Grey, White, Yellow, Orange, Red, Violet, Blue, Green, Brown, Black, Green/Yellow, Dark Blue

4. TECHNICAL DATA

►Approvals ◄	UL cUL CSA	AWM Style 3271 and 3820 125 °C, 600 Vac and 1000 Vac, Class I, Group A, B or A/B, FT1/FT2. AWM, Class I, Group A, B or A/B, rated at 125C, 600V, FT1, FT2 *FT1 (except for 0.34sqmm, 0.5sqmm, 0.75sqmm, 1.0sqmm and 1.5sqmm)
Specific insulation resistance		> 10 GOhm x cm
Nominal voltage	UL	600 V and 1000V
Test voltage		4,000V
Min. bending radius	occasional flexing: fixed installation:	6 x cable diameter 4 x cable diameter
Temperature range	occasional flexing: fixed installation:	-35 °C up to +120 °C max. conductor temp. -50 °C up to +125 UL: up to +125°C max. conductor temp.
►Flammability◄	flame retardant acc. to	IEC 60332-1-2 (Except for 0.34sqmm, 0.5sqmm 0.75sqmm, 1.0sqmm, and 1.5sqmm)
UV-resistance	according to	EN ISO 4892-2, method A (change of colour allowed)
Smoke density	according to	IEC 61034-2
Toxicity of gases	according to	EN 50305, section 9.2 (ITC < 3)

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Halogen-free	according to	IEC 60754-1, EN 50267-2-1
Low corrosivity	according to	IEC 60754-2, EN 50267-2-2
EU-Directives	These cables are conform to the EU Directives 2014/35/EU (Low Voltage Directive), and 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances)	

5. Dimensional Data

Conductor cross-section (mm²)	Outer diameter Average (mm)	Copper index (kg/km)	Weight (kg/km)
0.34	2.3	3.4	8
0.5	2.4	5	9
0.75	2.6	7	11
1	2.8	10	14
1.5	3.1	14	18
2.5	3.5	24	28
4	4.0	38	41
6	4.6	58	58
10	6.3	96	105
16	7.9	154	165
25	9.3	240	244
35	10.6	336	339
50	13.0	480	500
70	14.9	672	686
95	16.8	912	902
120	18.4	1,152	1,173

6. GENERAL REQUIREMENTS

RoHS: Dangerous and forbidden substances according to EU-Directive 2011/65/EU regarding Restriction of (the use of certain) hazardous substances **(RoHS)**, are not allowed during manufacturing.

REACH: All materials used in the manufacturing process of the product are subject to the EC-Regulation No. 1907/2006 regarding Registration, Evaluation, Authorization and Restriction of Chemicals **(REACH)**. If substances based on the current Candidate List are used, they must be listed with their designation and their concentration.

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