

LAPP Ölflex Heat 180 SIF High Temperature Control Cable User Manual

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Benefits
Possesses insulating properties after combustion due to remaining SiO2 ash on the conductor

Application range

Areas with high ambient temperatures where conventional core insulation materials will embrittle after a short while Typical fields of application

- Control cabinet manufacturing
- Appliances and apparatus engineering
- Electric motor industry
- Sauna/solarium construction
- Thermal and heating elements
- Lighting technology
- Ventilator engineering
- Air-conditioning technology
- Furnace construction

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Product Management **www.lappkabel.de**
You can find the current technical data in the corresponding datasheet. PN 0456 / 02_03.16

Product Features

Halogen-free according to IEC 60754-1 (amount of halogen acid gas)
Corrosiveness of combustion gases according to IEC 60754-2 (degree of acidity)
Flame-retardant according to IEC 60332-1-2
Resistant to a multitude of oils, alcohols, vegetable and animal fats and chemical substances
Adequate ventilation must be ensured since the mechanical properties of silicone cables decrease from +100°C in the absence of air

Product Make-up
Fine-wire, tinned-copper conductor
Silicone-based insulation

Technical Data

- **Classification ETIM 5:** ETIM 5.0 Class-ID: EC000993
  ETIM 5.0 Class-Description: Single-core cable
- **Classification ETIM 6:** ETIM 6.0 Class-ID: EC000993
  ETIM 6.0 Class-Description: Single-core cable
- **Conductor stranding:** Fine wire acc. to VDE 0295, class 5 / IEC 60228 class 5 from 0.5 mm²
- **Minimum bending radius:** Fixed installation: 6 x core diameter One bend at end of core: 3 x cable diameter
- **Nominal voltage:** U0/U: 300/500 V
- **Test voltage:** 2000 V
- **Temperature range:** –50 °C to +180 °C (adequate ventilation required) Short-term: +200°C

Note
Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Copper price basis: EUR 150/100 kg. Refer to catalog appendix T17 for the definition and calculation of copper-related surcharges.
Please find our standard lengths at: **www.lappkabel.de/en/cable-standardlengths**
Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum
Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).
Also available on large spools and non-returnable drums.
Photographs and graphics are not to scale and do not represent detailed images of the respective products.
Prices are net prices without VAT and surcharges. Sale to business customers only.
Other colors are available upon request

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Article number	Conductor cross-section (mm²)	Outer diameter [mm]	Core colour	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 180 SiF					
0047000	0.25	1.9	green/yellow	2.4	5.4
0047001	0.25	1.9	black	2.4	5.4
0047002	0.25	1.9	blue	2.4	5.4
0047003	0.25	1.9	brown	2.4	5.4
0047005	0.25	1.9	yellow	2.4	5.4
0047006	0.25	1.9	green	2.4	5.4
0047007	0.25	1.9	violet	2.4	5.4
0047008	0.25	1.9	pink	2.4	5.4

0047009	0.25	1.9	orange	2.4	5.4
0047104	0.25	1.9	red	2.4	5.4
0047105	0.25	1.9	white	2.4	5.4
0047106	0.25	1.9	grey	2.4	5.4
0048000	0.5	2.1	green/yellow	4.8	9
0048001	0.5	2.1	black	4.8	9
0048002	0.5	2.1	blue	4.8	9
0048003	0.5	2.1	brown	4.8	9
0048005	0.5	2.1	yellow	4.8	9
0048006	0.5	2.1	green	4.8	9
0048007	0.5	2.1	violet	4.8	9
0048008	0.5	2.1	pink	4.8	9
0048009	0.5	2.1	orange	4.8	9
0048104	0.5	2.1	red	4.8	9
0048105	0.5	2.1	white	4.8	9
0048106	0.5	2.1	grey	4.8	9
0049000	0.75	2.4	green/yellow	7.2	12
0049001	0.75	2.4	black	7.2	12
0049002	0.75	2.4	blue	7.2	12
0049003	0.75	2.4	brown	7.2	12
0049005	0.75	2.4	yellow	7.2	12
0049006	0.75	2.4	green	7.2	12
0049007	0.75	2.4	violet	7.2	12
0049008	0.75	2.4	pink	7.2	12
0049009	0.75	2.4	orange	7.2	12

Article number	Conductor cross-section (mm^2)	Outer diameter [mm]	Core colour	Copper index (kg/km)	Weight (kg/km)
0049104	0.75	2.4	red	7.2	12
0049105	0.75	2.4	white	7.2	12
0049106	0.75	2.4	grey	7.2	12
0050000	1.0	2.5	green/yellow	9.6	15
0050001	1.0	2.5	black	9.6	15

0050002	1.0	2.5	blue	9.6	15
0050003	1.0	2.5	brown	9.6	15
0050005	1.0	2.5	yellow	9.6	15
0050006	1.0	2.5	green	9.6	15
0050007	1.0	2.5	violet	9.6	15
0050008	1.0	2.5	pink	9.6	15
0050009	1.0	2.5	orange	9.6	15
0050104	1.0	2.5	red	9.6	15
0050105	1.0	2.5	white	9.6	15
0050106	1.0	2.5	grey	9.6	15
0051000	1.5	2.8	green/yellow	14.4	20
0051001	1.5	2.8	black	14.4	20
0051002	1.5	2.8	blue	14.4	20
0051003	1.5	2.8	brown	14.4	20
0051005	1.5	2.8	yellow	14.4	20
0051006	1.5	2.8	green	14.4	20
0051007	1.5	2.8	violet	14.4	20
0051008	1.5	2.8	pink	14.4	20
0051009	1.5	2.8	orange	14.4	20
0051104	1.5	2.8	red	14.4	20
0051105	1.5	2.8	white	14.4	20
0051106	1.5	2.8	grey	14.4	20
0052000	2.5	3.4	green/yellow	24	32
0052001	2.5	3.4	black	24	32
0052002	2.5	3.4	blue	24	32
0052003	2.5	3.4	brown	24	32
0052005	2.5	3.4	yellow	24	32
0052006	2.5	3.4	green	24	32
0052007	2.5	3.4	violet	24	32

Article number	Conductor cross-section (mm^2)	Outer diameter [mm]	Core colour	Copper index (kg/km)	Weight (kg/km)
0052104	2.5	3.4	red	24	32

0052105	2.5	3.4	white	24	32
0052106	2.5	3.4	grey	24	32
0053000	4.0	4.2	green/yellow	38	50
0053001	4.0	4.2	black	38	50
0053002	4.0	4.2	blue	38	50
0053003	4.0	4.2	brown	38	50
0053005	4.0	4.2	yellow	38	50
0053006	4.0	4.2	green	38	50
0053009	4.0	4.2	orange	38	50
0053104	4.0	4.2	red	38	50
0053105	4.0	4.2	white	38	50
0053106	4.0	4.2	grey	38	50
0054000	6.0	5	green/yellow	58	73
0054001	6.0	5	black	58	73
0054002	6.0	5	blue	58	73
0054003	6.0	5	brown	58	73
0054005	6.0	5	yellow	58	73
0054006	6.0	5	green	58	73
0054104	6.0	5	red	58	73
0054105	6.0	5	white	58	73
0054106	6.0	5	grey	58	73
0055000	10.0	6.6	green/yellow	96	118
0055001	10.0	6.6	black	96	118
0055002	10.0	6.6	blue	96	118
0055003	10.0	6.6	brown	96	118
0055009	10.0	6.6	orange	96	118
0055104	10.0	6.6	red	96	118
0055105	10.0	6.6	white	96	118
0055106	10.0	6.6	grey	96	118
0056000	16.0	7.4	green/yellow	154	177
0056001	16.0	7.4	black	154	177
0056002	16.0	7.4	blue	154	177
0056104	16.0	7.4	red	154	177

Article number	Conductor cross -section (mm²)	Outer diameter [mm]	Core colour	Copper index (k g/km)	Weight (kg/km)
0056105	16.0	7.4	white	154	177
0056106	16.0	7.4	grey	154	177
0057000	25.0	9.2	green/yellow	240	277
0057001	25.0	9.2	black	240	277
0057002	25.0	9.2	blue	240	277
0057104	25.0	9.2	red	240	277
0057106	25.0	9.2	grey	240	277
0058000	35.0	10.3	green/yellow	336	374
0058001	35.0	10.3	black	336	374
0058002	35.0	10.3	blue	336	374
0058104	35.0	10.3	red	336	374
0059000	50.0	12.2	green/yellow	480	530
0059001	50.0	12.2	black	480	530
0059104	50.0	12.2	red	480	530
0060001	70.0	14.2	black	672	724
0060002	70.0	14.2	blue	672	724
0061000	95.0	16.6	green/yellow	912	982
0061001	95.0	16.6	black	912	982
0061105	95.0	16.6	white	912	982
0062000	120.0	18	green/yellow	1152	1219
0062001	120.0	18	black	1152	1219
0063001	150.0	20	black	1440	1524
0064001	185.0	22.5	black	1776	1915

Documents / Resources

	LAPP Ölflex Heat 180 SIF High Temperature Control Cable [pdf] User Manual Iflex Heat 180 SIF High Temperature Control Cable, Iflex Heat 180 SIF, High Temperature Control Cable, Temperature Control Cable, Control Cable, Cable

References

- CPR declaration of performance
- Lapp Kabel - Hersteller von Kabel, Leitung und Kabel Zubehör
- Cable standard lengths
- TCPDF

Manuals+,