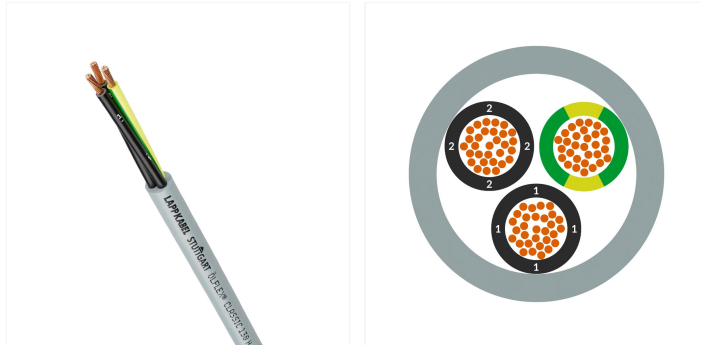


ÖLFLEX® CLASSIC 130 H 5G2,5

Article No.: 1123144

Power and control cable; 5G2.5; U_0/U : 300/500 V; HFFR; Core identification: Numbers; UL recognized; Flexible



Details

Benefits

- Easy handling and installation due to the flexible variant.
- Halogen free and highly flame retardant materials reduce the risk of flame propagation, high smoke density and toxic flue gases in the event of a fire.
- Classified fire behavior according to EU Directive 305/2011 (BauPVO/CPR) with article number selection on the LAPP website.
- High electrical safety thanks to 4000 V test voltage.
- UL certification according to technical data enables the product to be used on the North American market.
- VDE-tested fire behavior.

Application

- For structured building cabling for fulfilling special fire protection requirements.
- For universal use for wiring machine-internal and cross-plant control circuits.
- For fixed installation and occasional flexing without tensile strain.
- Can be used in dry and damp environments.
- Suitable for medium mechanical stress.
- The HFFR outer jacket is highly resistant to acids and alkaline solutions.
- Suitable for temporary outdoor use, subject to the temperature range.
- Flexible use at temperatures down to -25°C.

Notes

Inductance and operating capacitance are neither defined nor controlled electrical parameters. The specified values were determined by calculation and may deviate due to tolerances.

Unless specified otherwise, the product values shown are rated values at room temperature. You can receive additional values, such as tolerances, upon request if they are available and have been released for publication.

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

The absence of PWIS raw materials does not protect against the potential risk of contamination with substances that interfere with the paint wetting during subsequent handling of the product(s) during transport, storage or further processing after delivery.

If applicable, the prices are solid metal prices without additional charges and VAT. Sales only to business customers.

Remarks

Technical Data

General information

| | |
|------------------|---|
| Brand | ÖLFLEX® |
| Product type | Power and control cable |
| Copper index | 806.3 lb/10000 ft |
| Industry segment | <ul style="list-style-type: none"> Assembly Machines Automotive Energy Food & Beverage Healthcare & Pharma Heating, Ventilation, Air Conditioning & Refrigeration Intralogistics & Material handling Lifts & Elevators Machine Tools Packaging Robotics Rolling Stock Ships & boats Solar |

Electrical parameters

| | |
|-----------------|--|
| Nominal voltage | U_0/U : 300/500 V AC rms / DC according to IEC |
| Rated voltage | 600 V AC rms according to UL AWM |
| test voltage | 4 kV |

Product design

| | |
|--|------------------------------|
| Cable dimension | 5G2.5 |
| Nominal cross section conductor (mm ²) | 2.5 mm ² |
| Nominal cross section conductor (AWG) | 14 AWG |
| Leading conductor cross-section | mm ² |
| Conductor material | Bare Copper |
| Conductor design | IEC 60228 class 5: fine-wire |
| Including protective ground | Yes |
| Number of cores | 5 |
| Stranding type | Layered Stranding |
| Shielded | No |
| Nominal outer diameter | 0.398 in |
| Cable form | Round |
| Core insulation base material | Halogen-free compound |
| Conductor insulation basic material, short form | HFFR |
| Basic material of outer jacket | Halogen-free compound |
| Base material of outer sheath, shortname | HFFR |
| Outer jacket color | gray |
| Core identification | Numbers |
| Conductor color code | VDE 0293-1 EN 50334 |

Product features

| | |
|------------------|--------------------------------|
| Application area | Flexible Fixed Installation |
|------------------|--------------------------------|

| | |
|--|---|
| For torsional load | No |
| Minimum bending radius, stationary | 4 x outer diameter |
| Minimum bending radius in inch, fixed installation | 1.591 in |
| Minimum bending radius, occasionally moved | 15 x outer diameter |
| Minimum bending radius in mm, occasionally moved | 5.965 in |
| Temperature, fixed installation | -40 °C to 80 °C max. conductor temperature to 75 °C max. conductor temperature according to UL AWM |
| Temperature, occasionally moved | to 75 °C max. conductor temperature according to UL AWM -25 °C to 70 °C max. conductor temperature |
| Flame-retardant | Yes |
| Flame retardance according to | IEC 60332-1-2 IEC 60332-3-22 IEC 60332-3-25 UL Horizontal Flame Test |
| low smoke density according to | IEC 61034-2 |
| low toxicity of combustion gases | NES 02-713 (≤ 3) |
| Corrosiveness of combustion gases according to | IEC 60754-2 |
| UV-resistant | Yes |
| UV-resistant according to | EN 50620 |
| Ozone-resistant | Yes |
| ozone resistant according to | EN 50396, method B |
| Halogenfree | Yes |
| Halogen-free according to | IEC 60754-1 |
| Oil resistant | No |
| PWIS-free | Yes |
| PWIS-free according to | VDMA 24364-B2-L |
| Certifications and standards | |
| CE marking | Yes |

| | |
|---|---|
| EAC certified | Yes |
| EAC certification number | EAЭC N RU Д-DE.АЮ64.В.00130/20 |
| UL recognized | Yes |
| UL AWM certification | 21217 according to UL 758 (e-file number: E63634) |
| UL listed | No |
| cUR recognized | No |
| cUL listed | No |
| CSA certified | No |
| VDE certified | No |
| DNV-certified | No |
| CPR fire class | Dca |
| CPR smoke density | s1b |
| CPR droplets | d2 |
| CPR acidity | a1 |
| Resistance to flame propagation tested according to UN/ECE-R118 | No |
| Tested for fire protection for railway vehicles | No |

ÖLFLEX® CLASSIC 130 H

| Article No. | Name | Number of cores | Including protective ground | Nominal cross section conductor (mm ²) | Nominal outer diameter | Copper index | CPR fire class |
|-------------|-------------------------------|-----------------|-----------------------------|--|------------------------|---------------------|----------------|
| 1123000 | ÖLFLEX® CLASSIC 130 H 2X0,5 | 2 | No | 0.5 mm ² | 0.201 in | 64.5 lb/10000 ft | Dca |
| 1123001 | ÖLFLEX® CLASSIC 130 H 3G0,5 | 3 | Yes | 0.5 mm ² | 0.213 in | 96.76 lb/10000 ft | Dca |
| 1123002 | ÖLFLEX® CLASSIC 130 H 3X0,5 | 3 | No | 0.5 mm ² | 0.213 in | 96.8 lb/10000 ft | Dca |
| 1123003 | ÖLFLEX® CLASSIC 130 H 4G0,5 | 4 | Yes | 0.5 mm ² | 0.228 in | 129.02 lb/10000 ft | Dca |
| 1123004 | ÖLFLEX® CLASSIC 130 H 4X0,5 | 4 | No | 0.5 mm ² | 0.228 in | 130 lb/10000 ft | Dca |
| 1123005 | ÖLFLEX® CLASSIC 130 H 5G0,5 | 5 | Yes | 0.5 mm ² | 0.248 in | 161.27 lb/10000 ft | Dca |
| 1123006 | ÖLFLEX® CLASSIC 130 H 5X0,5 | 5 | No | 0.5 mm ² | 0.248 in | 161.27 lb/10000 ft | Dca |
| 1123008 | ÖLFLEX® CLASSIC 130 H 7G0,5 | 7 | Yes | 0.5 mm ² | 0.272 in | 225.78 lb/10000 ft | Dca |
| 1123010 | ÖLFLEX® CLASSIC 130 H 8G0,5 | 8 | Yes | 0.5 mm ² | 0.323 in | 258.04 lb/10000 ft | Dca |
| 1123013 | ÖLFLEX® CLASSIC 130 H 12G0,5 | 12 | Yes | 0.5 mm ² | 0.358 in | 387.05 lb/10000 ft | Dca |
| 1123017 | ÖLFLEX® CLASSIC 130 H 18G0,5 | 18 | Yes | 0.5 mm ² | 0.425 in | 580.58 lb/10000 ft | Dca |
| 1123032 | ÖLFLEX® CLASSIC 130 H 2X0,75 | 2 | No | 0.75 mm ² | 0.217 in | 100 lb/10000 ft | Dca |
| 1123033 | ÖLFLEX® CLASSIC 130 H 3G0,75 | 3 | Yes | 0.75 mm ² | 0.228 in | 150 lb/10000 ft | Dca |
| 1123034 | ÖLFLEX® CLASSIC 130 H 3X0,75 | 3 | No | 0.75 mm ² | 0.228 in | 145.15 lb/10000 ft | Dca |
| 1123035 | ÖLFLEX® CLASSIC 130 H 4G0,75 | 4 | Yes | 0.75 mm ² | 0.248 in | 193.53 lb/10000 ft | Dca |
| 1123036 | ÖLFLEX® CLASSIC 130 H 4X0,75 | 4 | No | 0.75 mm ² | 0.248 in | 193.53 lb/10000 ft | Dca |
| 1123037 | ÖLFLEX® CLASSIC 130 H 5G0,75 | 5 | Yes | 0.75 mm ² | 0.272 in | 241.91 lb/10000 ft | Dca |
| 1123038 | ÖLFLEX® CLASSIC 130 H 5X0,75 | 5 | No | 0.75 mm ² | 0.272 in | 241.91 lb/10000 ft | Dca |
| 1123041 | ÖLFLEX® CLASSIC 130 H 7G0,75 | 7 | Yes | 0.75 mm ² | 0.295 in | 338.67 lb/10000 ft | Dca |
| 1123042 | ÖLFLEX® CLASSIC 130 H 7X0,75 | 7 | No | 0.75 mm ² | 0.295 in | 338.67 lb/10000 ft | Dca |
| 1123046 | ÖLFLEX® CLASSIC 130 H 10G0,75 | 10 | Yes | 0.75 mm ² | 0.386 in | 483.8 lb/10000 ft | Dca |
| 1123047 | ÖLFLEX® CLASSIC 130 H 12G0,75 | 12 | Yes | 0.75 mm ² | 0.398 in | 580.5 lb/10000 ft | Dca |
| 1123048 | ÖLFLEX® CLASSIC 130 H 12X0,75 | 12 | No | 0.75 mm ² | 0.398 in | 580.58 lb/10000 ft | Dca |
| 1123051 | ÖLFLEX® CLASSIC 130 H 18G0,75 | 18 | Yes | 0.75 mm ² | 0.472 in | 870.87 lb/10000 ft | Dca |
| 1123054 | ÖLFLEX® CLASSIC 130 H 25G0,75 | 25 | Yes | 0.75 mm ² | 0.555 in | 1209.54 lb/10000 ft | Dca |
| 1123066 | ÖLFLEX® CLASSIC 130 H 2X1 | 2 | No | 1 mm ² | 0.228 in | 129.02 lb/10000 ft | Dca |
| 1123067 | ÖLFLEX® CLASSIC 130 H 3G1 | 3 | Yes | 1 mm ² | 0.24 in | 193.5 lb/10000 ft | Dca |
| 1123068 | ÖLFLEX® CLASSIC 130 H 3X1 | 3 | No | 1 mm ² | 0.24 in | 193.5 lb/10000 ft | Dca |
| 1123069 | ÖLFLEX® CLASSIC 130 H 4G1 | 4 | Yes | 1 mm ² | 0.26 in | 258.04 lb/10000 ft | Dca |
| 1123070 | ÖLFLEX® CLASSIC 130 H 4X1 | 4 | No | 1 mm ² | 0.26 in | 258.04 lb/10000 ft | Dca |

| Article No. | Name | Number of cores | Including protective ground | Nominal cross section conductor (mm ²) | Nominal outer diameter | Copper index | CPR fire class |
|-------------|------------------------------|-----------------|-----------------------------|--|------------------------|---------------------|----------------|
| 1123071 | ÖLFLEX® CLASSIC 130 H 5G1 | 5 | Yes | 1 mm ² | 0.287 in | 322.55 lb/10000 ft | Dca |
| 1123072 | ÖLFLEX® CLASSIC 130 H 5X1 | 5 | No | 1 mm ² | 0.287 in | 322.5 lb/10000 ft | Dca |
| 1123074 | ÖLFLEX® CLASSIC 130 H 7G1 | 7 | Yes | 1 mm ² | 0.319 in | 451.56 lb/10000 ft | Dca |
| 1123075 | ÖLFLEX® CLASSIC 130 H 7X1 | 7 | No | 1 mm ² | 0.319 in | 451.56 lb/10000 ft | Dca |
| 1123078 | ÖLFLEX® CLASSIC 130 H 10G1 | 10 | Yes | 1 mm ² | 0.409 in | 645.09 lb/10000 ft | Dca |
| 1123080 | ÖLFLEX® CLASSIC 130 H 12G1 | 12 | Yes | 1 mm ² | 0.421 in | 774.11 lb/10000 ft | Dca |
| 1123081 | ÖLFLEX® CLASSIC 130 H 12X1 | 12 | No | 1 mm ² | 0.421 in | 774.11 lb/10000 ft | Dca |
| 1123084 | ÖLFLEX® CLASSIC 130 H 18G1 | 18 | Yes | 1 mm ² | 0.508 in | 1161.16 lb/10000 ft | Dca |
| 1123090 | ÖLFLEX® CLASSIC 130 H 25G1 | 25 | Yes | 1 mm ² | 0.591 in | 1612.73 lb/10000 ft | Dca |
| 1123106 | ÖLFLEX® CLASSIC 130 H 2X1,5 | 2 | No | 1.5 mm ² | 0.252 in | 193.53 lb/10000 ft | Dca |
| 1123107 | ÖLFLEX® CLASSIC 130 H 3G1,5 | 3 | Yes | 1.5 mm ² | 0.268 in | 290.3 lb/10000 ft | Dca |
| 1123108 | ÖLFLEX® CLASSIC 130 H 3X1,5 | 3 | No | 1.5 mm ² | 0.268 in | 290.26 lb/10000 ft | Dca |
| 1123109 | ÖLFLEX® CLASSIC 130 H 4G1,5 | 4 | Yes | 1.5 mm ² | 0.291 in | 387 lb/10000 ft | Dca |
| 1123110 | ÖLFLEX® CLASSIC 130 H 4X1,5 | 4 | No | 1.5 mm ² | 0.291 in | 387.05 lb/10000 ft | Dca |
| 1123111 | ÖLFLEX® CLASSIC 130 H 5G1,5 | 5 | Yes | 1.5 mm ² | 0.327 in | 483.82 lb/10000 ft | Dca |
| 1123112 | ÖLFLEX® CLASSIC 130 H 5X1,5 | 5 | No | 1.5 mm ² | 0.327 in | 483.82 lb/10000 ft | Dca |
| 1123114 | ÖLFLEX® CLASSIC 130 H 7G1,5 | 7 | Yes | 1.5 mm ² | 0.354 in | 677.3 lb/10000 ft | Dca |
| 1123115 | ÖLFLEX® CLASSIC 130 H 7X1,5 | 7 | No | 1.5 mm ² | 0.354 in | 677.34 lb/10000 ft | Dca |
| 1123116 | ÖLFLEX® CLASSIC 130 H 8G1,5 | 8 | Yes | 1.5 mm ² | 0.425 in | 774.11 lb/10000 ft | Dca |
| 1123118 | ÖLFLEX® CLASSIC 130 H 10G1,5 | 10 | Yes | 1.5 mm ² | 0.465 in | 967.64 lb/10000 ft | Dca |
| 1123120 | ÖLFLEX® CLASSIC 130 H 12G1,5 | 12 | Yes | 1.5 mm ² | 0.48 in | 1161.16 lb/10000 ft | Dca |
| 1123124 | ÖLFLEX® CLASSIC 130 H 18G1,5 | 18 | Yes | 1.5 mm ² | 0.575 in | 1741.74 lb/10000 ft | Dca |
| 1123128 | ÖLFLEX® CLASSIC 130 H 25G1,5 | 25 | Yes | 1.5 mm ² | 0.677 in | 2419.09 lb/10000 ft | Dca |
| 1123130 | ÖLFLEX® CLASSIC 130 H 34G1,5 | 34 | Yes | 1.5 mm ² | 0.78 in | 3289.96 lb/10000 ft | Dca |
| 1123139 | ÖLFLEX® CLASSIC 130 H 2X2,5 | 2 | No | 2.5 mm ² | 0.299 in | 322.55 lb/10000 ft | Dca |
| 1123140 | ÖLFLEX® CLASSIC 130 H 3G2,5 | 3 | Yes | 2.5 mm ² | 0.327 in | 483.8 lb/10000 ft | Dca |
| 1123142 | ÖLFLEX® CLASSIC 130 H 4G2,5 | 4 | Yes | 2.5 mm ² | 0.354 in | 645.09 lb/10000 ft | Dca |
| 1123144 | ÖLFLEX® CLASSIC 130 H 5G2,5 | 5 | Yes | 2.5 mm ² | 0.398 in | 806.3 lb/10000 ft | Dca |
| 1123146 | ÖLFLEX® CLASSIC 130 H 7G2,5 | 7 | Yes | 2.5 mm ² | 0.441 in | 1128.9 lb/10000 ft | Dca |
| 1123149 | ÖLFLEX® CLASSIC 130 H 12G2,5 | 12 | Yes | 2.5 mm ² | 0.594 in | 1935.27 lb/10000 ft | Dca |

| Article No. | Name | Number of cores | Including protective ground | Nominal cross section conductor (mm ²) | Nominal outer diameter | Copper index | CPR fire class |
|-------------|------------------------------|-----------------|-----------------------------|--|------------------------|---------------------|----------------|
| 1123151 | ÖLFLEX® CLASSIC 130 H 18G2,5 | 18 | Yes | 2.5 mm ² | 0.709 in | 2902.91 lb/10000 ft | Dca |
| 1123153 | ÖLFLEX® CLASSIC 130 H 25G2,5 | 25 | Yes | 2.5 mm ² | 0.831 in | 4031.4 lb/10000 ft | Dca |
| 1123159 | ÖLFLEX® CLASSIC 130 H 3G4 | 3 | Yes | 4 mm ² | 0.386 in | 774 lb/10000 ft | Dca |
| 1123160 | ÖLFLEX® CLASSIC 130 H 4G4 | 4 | Yes | 4 mm ² | 0.425 in | 1032.14 lb/10000 ft | Dca |
| 1123161 | ÖLFLEX® CLASSIC 130 H 5G4 | 5 | Yes | 4 mm ² | 0.476 in | 1290.18 lb/10000 ft | Dca |
| 1123162 | ÖLFLEX® CLASSIC 130 H 7G4 | 7 | Yes | 4 mm ² | 0.528 in | 1806.25 lb/10000 ft | Dca |
| 1123166 | ÖLFLEX® CLASSIC 130 H 3G6 | 3 | Yes | 6 mm ² | 0.461 in | 1161.16 lb/10000 ft | Dca |
| 1123167 | ÖLFLEX® CLASSIC 130 H 4G6 | 4 | Yes | 6 mm ² | 0.512 in | 1548.22 lb/10000 ft | Dca |
| 1123168 | ÖLFLEX® CLASSIC 130 H 5G6 | 5 | Yes | 6 mm ² | 0.571 in | 1935.27 lb/10000 ft | Dca |
| 1123169 | ÖLFLEX® CLASSIC 130 H 7G6 | 7 | Yes | 6 mm ² | 0.63 in | 2709.4 lb/10000 ft | Dca |
| 1123172 | ÖLFLEX® CLASSIC 130 H 4G10 | 4 | Yes | 10 mm ² | 0.638 in | 2580.36 lb/10000 ft | Dca |
| 1123173 | ÖLFLEX® CLASSIC 130 H 5G10 | 5 | Yes | 10 mm ² | 0.713 in | 3225.45 lb/10000 ft | Dca |
| 1123177 | ÖLFLEX® CLASSIC 130 H 4G16 | 4 | Yes | 16 mm ² | 0.74 in | 4128.5 lb/10000 ft | Dca |
| 1123178 | ÖLFLEX® CLASSIC 130 H 5G16 | 5 | Yes | 16 mm ² | 0.835 in | 5160.72 lb/10000 ft | Dca |
| 1123181 | ÖLFLEX® CLASSIC 130 H 4G25 | 4 | Yes | 25 mm ² | 0.925 in | 6450.2 lb/10000 ft | Dca |
| 1123182 | ÖLFLEX® CLASSIC 130 H 5G25 | 5 | Yes | 25 mm ² | 1.039 in | 8063.63 lb/10000 ft | Dca |
| 1123185 | ÖLFLEX® CLASSIC 130 H 4G35 | 4 | Yes | 35 mm ² | 1.047 in | 9031.26 lb/10000 ft | Dca |

V1.1