

ÖLFLEX® PLUG 540 P single-phase hookup assembly

PUR-sheathed ÖLFLEX® & 250V CEE single-phase plug for 230/400V TN grid

Robust ÖLFLEX® PLUG 540 P PUR power cable, harnessed, 250 V single-phase CEE plug per VDE 0620 and w/ IP20 or IP44 on 1st end, core crimp sleeves on 2nd end

Info

Mechanically robust, oil resistant PUR power cable w/ VDE Registration
 Certified, moulded 250V single-phase plug acc. to VDE standard
 Up to IP44 and/or K2 ability, depending on version



Mechanical and plant engineering



Flame-retardant



Assembly time



Space requirement



Reliability



Voltage



UV-resistant



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You can find the current technical data in the corresponding data sheet.

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Benefits

Ready-to-connect hookup power assembly for time-saving installation

Accordance of 3G1.5mm² versions with IP44 Schuko/ earth contact plug (recognizable by "P07 3G1.5" in those articles' short descriptions) with certain, technical provisions by relevant third party, such as German BG, resp. DGUV, on heavy-duty mechanical conditions, industrial use category K2, increased, electrical hazard, construction/ assembly sites

Compatible with plug-fit systems type E and type F as well as with pin assignment according to the Czech CSN standard for extensive use in Europe

Durable product, thanks to oil-, MUD-, abrasion-, notch- and cut-resistant outer sheath material of the cable, as well as UV, ozone and hydrolysis resistance of the assembly

Yellow signal colour of the outer sheath for quick visual perception and prevention of accidents and damage

Application range

Assembly and construction of appliances and control cabinets, for mobile use in particular, plugged into regular, European TN infrastructure with $U_0/U = 230/400$ V in nominal voltage @ 50 to 60 Hz in frequency

3-core variants with protection type IP 44 are suitable for outdoor use in Europe, and are permitted to be exposed to falling rain
3-core variants with protection type IP44 and a conductor cross-section of 1.5 mm² (recognizable by "P07 3G1.5" within the article name) are suitable for industrial use category 2 (K2) according to German BGI/ GUV-I 600, for use as heavy design type in case of extended electrical hazard according to German BGI 594, and for use under heavy-duty mechanical conditions according to DIN VDE 0620-2-1, including construction and assembly sites according to German DGUV Information 203-006 (BGI/ GUV-I 608) (provided that extraordinary operating circumstances are excluded)

2-core variants with protection type IP 20 must not get in contact with water and are generally not intended for industrial applications or construction/ assembly sites

Attention during installation regarding **Tensile Strain Relief**: The supply material of the cable's single core insulations has got a floating nature/stretchability, thus during wiring it shall be made sure the cable's **single cores are relieved from tensile strain**.
Unplugging from power source/ socket (female) by grasping and pulling **on the black plug (male) only, not on the yellow cord**

Product features

Cable: LAPP's ÖLFLEX® 540 P flexible Class-5 power cable for occasional flexing and w/ HD 308 core identification code
Yellow PUR cable jacket: Halogen-free, flame retardant acc. to IEC 60332-1-2, UV resistant, ozone resistant, abrasion and notch resistant, hydrolysis resistant, microbe resistant, resistant to oil acc. to EN 50363-10-2, MUD resistant to drilling fluids acc. to Appendix D of IEC 61892-4

The integrated cable ÖLFLEX® 540 P withstands high mechanical loads, and is resistant to acids, alkalis and mineral oils
Plug-fit systems Type E (French) and Type F: CEE 7/17 plugs w/o earthing contact equally plug-compatible with both systems, CEE 7/7 plug w/ earthing contact additionally earth contacting to both plug-fit systems

Depending on the product's ultimate standard version, IP protection type IP20 (CEE 7/17) or IP44 (CEE 7/7);

Standard plugs with IP44 fulfil heavy-duty conditions as per Appendix C of VDE 0620-2-1;

All standard plugs' joint rated ampacity as per DIN VDE 0620-2-1 is 16 A;

Black plugs UV resistant

Norm references / Approvals

Cable ÖLFLEX® 540 P by LAPP:

VDE reg. no. 6583 - AC 300/500 V for 1 mm² and smaller;

VDE reg. no. 6584 - AC 450/750 V from 1.5 mm² and larger

Standard plugs and moulding designed and tested acc. to DIN VDE 0620-2-1 (and a number of related, national design standards) and accordingly KEMA-KEUR certified by notified body DEKRA

Standard plugs and moulding designed and tested acc. to IEC 60884-1 and accordingly IEC/IEC certified by notified body DEKRA, on the basis of CB Scheme test procedure

Normative foundation for processed, 2nd ending (dismantled, stripped, crimped): EN 61238-1, EN 60352-2

Product Make-up

VDE-registered, flexible (conductor class 5 per IEC 60228), yellow, chemically resistant TPE/PUR power cable ÖLFLEX® 540 P with core identification code as per HD 308, and - subject to nominal conductor cross section - different, low, nominal IEC voltage classes U_0/U (see "Technical data")

Black-coloured, non-reconnectable (moulded), 250 V rated single-phase plugs as per DIN VDE 0620-2-1

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Plug-fit systems Type E (French) and Type F: CEE 7/17 plugs w/o earthing contact equally plug-compatible with both systems, CEE 7/7 plug w/ earthing contact additionally earth contacting to both plug-fit systems. Both CEE plugs with functional pole-to-pin allocation acc. to Czech CSN Standard, yet still in line with most European allocations

Standard plug option 1: Round, straightly shaped, 2-pole pin attachment contour central plug without earth contact (CEE 7/17 style), made of PVC, protection type IP 20 (not waterproof)

Standard plug option 2: Straightly shaped 2-pole Schuko [earth contact] central plug (CEE 7/7 style) made of PVC, Schutzart IP 44 (spritzwasserdicht)

Second cable end: 3 cm dismantling from cable end, stripped single core ends, solder-freely/ mechanically crimped crimp sleeves, as per DIN EN 60352-2, without cable lug, and with metal collar crimped onto core insulation

On request, close to standard product, and under additional LAPP part number: Additionally reinforced tensile strain relief between the cable's outer sheath and the plug's moulding

Technical Data

| | |
|---------------------------|--|
| Classification ETIM 5: | ETIM 5.0 Class-ID: EC001576 ETIM 5.0 Class-Description: Power cord |
| Classification ETIM 6: | ETIM 6.0 Class-ID: EC001576 ETIM 6.0 Class-Description: Power cord |
| Core identification code: | According to VDE 0293-308 (table T9) |
| Conductor stranding: | Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5 |
| Minimum bending radius: | Occasional flexing: 10 x outer diameter Fixed installation: 4 x outer diameter |
| Nominal voltage: | <u>Plugs' Rated Voltage 250 V</u> as per VDE 0620-2-1 solely relevant and permissible regarding continuous operation of the entire, finished, harnessed assembly IEC nominal AC voltage classes of the integrated metre ware cable ÖLFLEX® 540 P by LAPP, depending on the nominal conductor cross section of the cable: $U_0/U = 300/500$ V for cable conductors of 1 mm ² and smaller, $U_0/U = 450/750$ V for cable conductors not smaller than 1.5 mm ² <u>(unpermissible as reference for the maximum, permanent operating voltage of the entire harnessed assembly, but instead solely the rated voltage of the plug of 250 V acc. to VDE 0620-2-1 is permissible for the assembly)</u> |
| Test voltage: | Assembly: 2000 V |
| Protective conductor: | G = with GN-YE protective conductor |

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 catalogue appendix T17 for the definition and calculation of copper-related surcharges.

1 piece in each polyester bag

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.

Please observe the safety information as per DIN VDE 0620-1, Plugs and socket-outlets for household and similar purposes - Part 1: General requirements, appendix E: "Installation only by persons with the relevant electrotechnical expertise and experience!"

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| Article number | Charging current | Length (m) | Outer sheath colour | Copper index kg/1.000 pieces |
|---|------------------|------------|---------------------|------------------------------|
| 250V assembly with 2-pole, round CEE 7/17 pin attachment contour central plug without earth contact, IP20, PVC-based, regularly not for heavy-duty use conditions | | | | |
| 73224180 | 2 X 0.75 | 2 | yellow | 28.8 |
| 73224181 | 2 X 0.75 | 3.5 | yellow | 50.4 |
| 73224182 | 2 X 0.75 | 5 | yellow | 72 |
| 73224183 | 2 X 1.0 | 2 | yellow | 38.4 |
| 73224184 | 2 X 1.0 | 3.5 | yellow | 67.2 |
| 73224185 | 2 X 1.0 | 5 | yellow | 96 |
| 73224186 | 2 X 1.5 | 2 | yellow | 58 |
| 73224187 | 2 X 1.5 | 3.5 | yellow | 101.5 |
| 73224188 | 2 X 1.5 | 5 | yellow | 145 |
| 250V assembly with 2-pole CEE 7/7 earth contact central plug, IP44, PVC-based - regularly not for K2 heavy-duty conditions or for construction/ installation sites due to cable's 300/500V class | | | | |
| 73224189 | 3 G 0.75 | 2 | yellow | 43.2 |
| 73224190 | 3 G 0.75 | 3.5 | yellow | 75.6 |
| 73224191 | 3 G 0.75 | 5 | yellow | 108 |
| 73224192 | 3 G 1.0 | 2 | yellow | 58 |
| 73224193 | 3 G 1.0 | 3.5 | yellow | 101.5 |
| 73224194 | 3 G 1.0 | 5 | yellow | 145 |
| 250V assembly with 2-pole CEE 7/7 earth contact central plug, IP44, PVC-based - thanks to cable's 450/750V class for K2 heavy-duty conditions or for construction/ installation sites if secluded from special use conditions | | | | |
| 73224195 | 3 G 1.5 | 2 | yellow | 86 |
| 73224196 | 3 G 1.5 | 3.5 | yellow | 150.5 |
| 73224197 | 3 G 1.5 | 5 | yellow | 215 |

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