

1308802

DATA SHEETvalid from:
28.07.2025**ÖLFLEX® 408 P****LAPP****Application**

ÖLFLEX® 408 P cables are VDE approved power and control cables for occasional flexible use and fixed installation subject to medium mechanical load conditions. They are also suitable for use in dry, damp or wet areas. They are suitable for permanent outdoor use if the indicated temperature range is observed. ÖLFLEX® 408 P cables are increased oil resistant and at room temperature largely resistant to acids and caustic solutions. The outer sheath withstands high mechanical stresses, in particular abrasion and dragging. It is also cut proof and resists microbes and hydrolysis. They are suitable for occasional, non-automated movements. The maximum tensile load is 15 N/mm² of conductor cross-section during installation and operation. Compulsory guidance is not permitted.

Application range:

As power and connecting cable for control systems in machine tools, plant engineering and construction, industrial machinery, conveyor systems, production and assembly lines as well as in measuring and control technology and data processing systems.

Design

Design	based on EN 50525-2-51								
Certification	<p>⇒ VDE-REG 8744 ⇒</p> <p>limited to following dimension range:</p> <table> <tr><td>0.5 mm² - 2.5 mm²</td><td>2 - 25 cores</td></tr> <tr><td>4 mm² - 6 mm²</td><td>2 - 7 cores</td></tr> <tr><td>10 mm²</td><td>4 - 7 cores</td></tr> <tr><td>16 mm²</td><td>4 cores</td></tr> </table>	0.5 mm ² - 2.5 mm ²	2 - 25 cores	4 mm ² - 6 mm ²	2 - 7 cores	10 mm ²	4 - 7 cores	16 mm ²	4 cores
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4 mm ² - 6 mm ²	2 - 7 cores								
10 mm ²	4 - 7 cores								
16 mm ²	4 cores								
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. EN IEC 60228, Class 5								
Insulation	PVC compound TI2 acc. to EN 50363-3 with increased requirements acc. to Lapp specification								
Core identification code	acc. to VDE 0293-1, with or without GN/YE ground conductor black cores with white numbers acc. to EN 50334								
Cable assembly	cores stranded in layers								
Outer sheath	<p>two layer design:</p> <p>Inner layer: PVC compound TM2 acc. to EN 50363-4-1</p> <p>Outer layer: TPU Polyurethane acc. to EN 50363-10-2</p> <p>Colour:</p> <p>Inner layer black, similar RAL 9005</p> <p>Outer layer silver grey, similar RAL 7001</p>								

Electrical properties at 20 °C

Nominal voltage	U ₀ / U: 300 / 500 V
Test voltage	4000 V AC

Mechanical and thermal properties

Minimum bending radius	occasional flexing: 12,5 x outer diameter fixed installation: 4 x outer diameter
Temperature range	occasional flexing: -15 °C up to +70 °C max. conductor temperature fixed installation: -40 °C up to +80 °C max. conductor temperature
UV resistance	acc. to EN 50618 acc. to EN 50620 acc. to EN ISO 4892-2-2013, method A (change of colour allowed)
Ozone resistance	acc. to EN 50396, method B
Oil resistance	acc. to EN 50363-10-2
MUD resistance	acc. to IEC 60092-360, Annex C&D

Tests

acc. to IEC 60811 resp. EN 60811, EN 50395, EN 50396

General requirements These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)

Environmental information These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).