

1308802	DATA SHEET	
valid from: 01.01.2019	ÖLFLEX® 408 P	

Application

ÖLFLEX® 408 P cables are VDE approved power and control cables for occasional flexible use and fixed installation subject to normal load conditions. They are also suitable for use in dry, damp or wet areas. They are suitable for 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 move-ments. 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 (VDE 0285-525-2-51)
Certification	< VDE-REG 8744 > limited to following dimension range: 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
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 5
Insulation	PVC compound TI2 acc. to VDE 0207-363-3 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 DIN EN 50334 (VDE 0293-334)
Outer sheath	two layer design: Inner layer: PVC compound TM2 acc. to VDE 0207-363-4-1 Outer layer: TPU Polyurethane acc. to VDE 0207-363-10-2 Colour: Inner layer black, similar RAL 9005 Outer layer silver grey, similar RAL 7001

Electrical properties at 20°C

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

Mechanical and thermal properties

Minimum bending radius	occasional flexing: 12,5 x cable diameter fixed installation: 4 x cable diameter
Temperature range	occasional flexing: -15 °C up to +70 °C max. conductor temp. fixed installation: -40 °C up to +80 °C max. conductor temp.
UV resistance	acc. to EN 50618 resp. VDE 0283-618 acc. to EN 50620 resp. VDE 0285-620 acc. to EN ISO 4892-2-2013, method A (change of colour allowed)
Ozone resistance	acc. to EN 50396 resp. VDE 0473-396, method B
Oil resistance	acc. to EN 50363-10-2 resp. VDE 0207-363-10-2
MUD resistance	acc. to IEC 61892-4 Annex D
Tests	acc. to IEC 60811, EN 50395, EN 50396
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)

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