

## ÖLFLEX® SMART 108

DB 1752010R  
valid from: 15.11.2012**Application**

ÖLFLEX® SMART 108 cables are VDE approved power and control cables for occasional flexible use and fixed installation under normal mechanical load conditions. They are among others designed for use in dry, damp and wet rooms. Outdoor use: They may only be installed with UV protection and considering the temperature range. They are suitable for free non-continuously recurring movement without tensile load or compulsory guidance.

**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 (HD 21.13 S1/VDE 0281-13)
Approval	VDE-REG.-Nr. 8639 limited to following dimension range: 0.5 mm <sup>2</sup> - 2.5 mm <sup>2</sup> 2 - 7 cores
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 5
Core insulation	PVC compound T12 acc. to VDE 0207-363-3 with increased requirements acc. to Lapp specification
Core identification	acc. to VDE 0293-1, with or without GN/YE ground conductor black cores with white numbers acc. to DIN EN 50334 resp. VDE 0293-334
Outer sheath	PVC compound TM2 acc. to VDE 0207-363-4-1 2-layer design Colour: Silver Grey, similar RAL 7001 Internal layer Black, similar RAL 9005.

**Electrical properties**

Nominal voltage	300 / 500 V
Test voltage	4000 V AC

**Mechanical and thermal properties**

Min. bending radius	occasional flexing: 15 x cable diameter fixed installation: 4 x cable diameter
Temperature range	occasional flexing: -5 °C up to +70 °C max. conductor temp. fixed installation: -40 °C up to +80 °C max. conductor temp.
Flammability	flame retardant in acc. with IEC 60332-1-2 resp. VDE 0482-332-1-2
Tests	acc. to IEC 60811, EN 50395, EN 50396
EC-Directives	This cable is conform to the EC-Directives 2006/95/EC (Low Voltage Directive), ECD 2002/95/EC and 2011/65/EG (RoHS, Restriction of the use of certain hazardous substances).