ÖLFLEX® 115 CY

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Application

ÖLFLEX® 115 CY cables are control cables for occasional flexible use and fixed installation under normal mechanical load conditions. They are among others designed for use in dry, damp or wet rooms. Outdoor use: They may only be installed with UV protection and considering the temperature range. At room temperature they are widely resistant to acids, caustic solutions and certain oils**.**
They are suitable for free, non-continuously recurring movement without tensile load. Continuous operational movements, restricted guidance, usage of these cables in moving cable carriers or on motor drum guidance or under a strain of more than 15 N/mm² conductor cross-section are not allowed. The screen is a protection against electrical interference.

Application range:
Control units for machine tools, conveyor systems, measurement and control technology, systems for data processing.

Design

Design	Based on EN 50525-2-51 ressp. VDE 0285-525-2-51
Conductor	Fine wire strands of bare copper acc. to IEC 60228 resp. VDE 0295, Class 5
Core insulation	PVC compound TI2 acc. to DIN EN 50363-3 resp. VDE 0207-363-3 with increased requirements acc. to Lapp specification
Core identification code	according 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
Wrapping	Plastic foil
Screen	Braid of tinned copper, coverage = 85% (nominal value)
Outer sheath	PVC compound TM2 acc. to DIN EN 50363-4-1 resp. VDE 0207-363-4-1 Colour: Siver grey, similar RAL 7001

Electrical properties at 20°C

Nominal voltage	300 / 500 V
Test voltage	Core/core 4000 V AC Core/screen 2000 V AC
Transfer impedance	max. 250 mΩ/m at 30 MHz

Mechanical and thermal properties

Minimum bending radius	Occasional flexing: 20 x outer diameter Fixed installation: 6 x outer 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	acc. to 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) and 2011/65/EG (RoHS, Restriction of the use of certain hazardous substances).

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