0043006	DATA SHEET	LAPP
valid from: 09.05.2025	ÖLFLEX® CRANE NSHTÖU	

Application

ÖLFLEX® CRANE NSHTÖU cables are connecting and control cables especially for use in drum guidance, hoists, transport and conveyor systems for high mechanical load considering the admissible values. Furthermore, they are for use as hawser, drum and drag cable as well as for power chains. They are among others useable in dry and damp areas and in industrial water. Considering the indicated temperature range an outdoor use is possible. At room temperature they are largely resistant to acids, alkalis and certain oils. Usage under a strain of more than 20 N/mm² is not allowed.

Design

Design	acc. to VDE 0250-814
Certification	acc. to VDE 0250-814
Conductor	fine strands of tinned copper wires acc. to IEC 60228 resp. EN IEC 60228, class 5
Insulation	rubber compound 3GI3 acc. to VDE 0207-20
Core identification code	acc. to VDE 0293-1, with GN/YE ground conductor up to 5 cores coloured in acc. to HD 308 S2 resp. VDE 0293-308 starting at 6 cores: Black cores with white numbers acc. to EN 50334
Cable assembly	Cores are stranded in layers
Inner sheath	rubber compound 5GM3 acc. to VDE 0207-21, colour: black, similar, RAL 9005
Support braid	supporting braid of textile integrated in the outer sheath
Outer sheath	rubber compound 5GM3 acc. to VDE 0207-21, Colour: black, similar RAL 9005

Electrical properties at 20 °C

Nominal voltage	600 / 1000 V
Test voltage	4000 V AC

Mechanical and thermal properties

Minimum bending radius	drum operation acc. to VDE 0298-3, table 3 with an outer diameter ≤ 20 mm: 5 x outer diameter with an outer diameter > 20 mm: 6 x outer diameter
Temperature range	fixed installation: -45 °C up to +80 °C max. ambient temperature for flex. applications: -25 °C up to +80 °C max. ambient temperature up to +90 °C max. conductor temperature
Flammability	acc. to IEC 60332-1-2 resp. EN 60332-1-2
Oil resistance	acc. to VDE 0207-21, 5GM3

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).

We reserve all rights according to DIN ISO 16016.