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|---------------------------|-----------------------------|-------------------------------------------------------------------------------------|
| 0043006                   | <b>DATA SHEET</b>           |  |
| valid from:<br>01.01.2019 | <b>ÖLFLEX® CRANE NSHTÖU</b> |                                                                                     |

## Application

ÖLFLEX® CRANE NSHTÖU cables are connecting and control cables special 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. Usage under a strain of more than 20 N / mm<sup>2</sup> is not allowed. At room temperature they are largely resistant to acids, alkalis and certain oils.

## Design

|                          |                                                                                                                                                                                                                       |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design                   | acc. to VDE 0250 part 814                                                                                                                                                                                             |
| Certification            | acc. to VDE 0250 part 814                                                                                                                                                                                             |
| Conductor                | fine strands of tinned copper wires acc. to IEC 60228 resp. VDE 0295, class 5                                                                                                                                         |
| Insulation               | rubber compound 3GI3 acc. to VDE 0207 part 20                                                                                                                                                                         |
| Core identification code | acc. to VDE 0293-1, with GN/YE ground conductor<br>up to 5 cores coloured in acc. to HD 308 S2 that is VDE 0293-308<br>starting at 6 cores: Black cores with white numbers<br>acc. to DIN EN 50334 resp. VDE 0293-334 |
| Support braid            | supporting braid of textile integrated in the outer sheath                                                                                                                                                            |
| Outer sheath             | rubber compound 5GM3 acc. to VDE 0207 part 21,<br>Colour: black, similar RAL 9005                                                                                                                                     |

## Electrical properties at 20°C

|               |              |
|---------------|--------------|
| Rated voltage | 600 / 1000 V |
| Test voltage  | 4000 V AC    |

## Mechanical and thermal properties

|                        |                                                                                                                                                                                     |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Minimum bending radius | for flexing:<br>with an outer diameter < 21.5 mm : 5 x cable diameter<br>with an outer diameter > 21.5 mm : 6.25 x cable diameter                                                   |
| Temperature range      | fixed installation: -45 °C up to +60 °C max. ambient temperature<br>for flex. applications: -25 °C up to +60 °C max. ambient temperature<br>up to +80 °C max. conductor temperature |
| Flammability           | flame retardant in acc. with IEC 60332-1-2 resp. VDE 0482-332-1-2                                                                                                                   |
| Oil resistance         | acc. to IEC 60811-404 resp. VDE 0473 part 811-404                                                                                                                                   |
| Tests                  | acc. to IEC 60811 resp. VDE 0473-811 and VDE 0472                                                                                                                                   |
| General requirements   | These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)                                                                                                     |

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| Creator: LABU / PDC  | Document: DB0043006EN | Page 1 of 1 |
| Released: ALTE / PDC | Version: 07           |             |