

|                                   |                                  |                                                                                     |
|-----------------------------------|----------------------------------|-------------------------------------------------------------------------------------|
| <b>0044008</b>                    | <b>DATA SHEET</b>                |  |
| <b>valid from:<br/>30.04.2025</b> | <b>ÖLFLEX® CRANE VS (N)SHTÖU</b> |                                                                                     |

## Application

ÖLFLEX® CRANE VS (N)SHTÖU cables are connecting and control cables with a central strength member especially for use in hoists, transport and conveyor systems, also for reeling and unreeling, for high mechanical load considering the admissible values. 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 generally resistant against acids, alkalis and certain oils.

## Design

|                          |                                                                                                                                                                                                |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design                   | based on 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<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 EN 50334 |
| Cable assembly           | cores stranded around a supporting element made of synthetic material.                                                                                                                         |
| Inner sheath             | rubber compound 5GM5 acc. to VDE 0207-21,<br>Colour: yellow, similar RAL 1021                                                                                                                  |
| Support braid            | supporting braid of textile integrated in the outer sheath                                                                                                                                     |
| Outer sheath             | rubber compound 5GM5 acc. to VDE 0207-21,<br>Colour: yellow, similar RAL 1021                                                                                                                  |

## Electrical properties at 20 °C

|                 |                                 |
|-----------------|---------------------------------|
| Nominal voltage | U <sub>0</sub> /U: 600 / 1000 V |
| Test voltage    | 4000 V AC                       |

## Mechanical and thermal properties

|                        |                                                                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Minimum bending radius | acc. to VDE 0298-3, table 3                                                                                                                                          |
| Temperature range      | fixed installation: -45 °C up to +80 °C max. ambient temperature<br>flexing: -25 °C up to +80 °C max. ambient temperature<br>up to +90 °C max. conductor temperature |
| Flammability           | flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2                                                                                                             |
| Oil resistance         | acc. to VDE 0207-21, 5GM5                                                                                                                                            |

## Tests

acc. to IEC 60811 resp. EN 60811 and VDE 0472

## 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).

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| No. of cores x cross-section<br>[mm²] |     | Tensile load<br>centre filler<br>[N] | Tensile load<br>complete cable<br>[N] | No. of cores x cross-section<br>[mm²] |     | Tensile load<br>centre filler<br>[N] | Tensile load<br>complete cable<br>[N] |
|---------------------------------------|-----|--------------------------------------|---------------------------------------|---------------------------------------|-----|--------------------------------------|---------------------------------------|
| 3                                     | 1,5 | 2000                                 | 2050                                  | 7                                     | 1.5 | 2000                                 | 2150                                  |
|                                       | 2,5 | 2000                                 | 2100                                  | 12                                    |     | 2000                                 | 2250                                  |
|                                       | 4   | 2000                                 | 2150                                  | 18                                    |     | 2000                                 | 2400                                  |
|                                       | 6   | 2000                                 | 2250                                  | 24                                    |     | 4000                                 | 4500                                  |
|                                       | 10  | 2000                                 | 2450                                  | 30                                    |     | 4000                                 | 4650                                  |
|                                       | 16  | 2000                                 | 2700                                  | 36                                    |     | 4000                                 | 4800                                  |
|                                       | 25  | 2000                                 | 3100                                  | 44                                    |     | 4000                                 | 4950                                  |
| 4                                     | 1,5 | 2000                                 | 2050                                  | 7                                     | 2.5 | 2000                                 | 2250                                  |
|                                       | 2,5 | 2000                                 | 2150                                  | 12                                    |     | 4000                                 | 4450                                  |
|                                       | 4   | 2000                                 | 2200                                  | 18                                    |     | 4000                                 | 4650                                  |
|                                       | 6   | 2000                                 | 2350                                  | 24                                    |     | 4000                                 | 4900                                  |
|                                       | 10  | 2000                                 | 2600                                  | 30                                    |     | 4000                                 | 5100                                  |
|                                       | 16  | 2000                                 | 2950                                  | 36                                    |     | 4000                                 | 5350                                  |
|                                       | 25  | 2000                                 | 3500                                  | 44                                    |     | 4000                                 | 5650                                  |
|                                       | 35  | 2000                                 | 4100                                  | 7                                     | 4   | 4000                                 | 4400                                  |
|                                       | 50  | 4000                                 | 7000                                  | 12                                    |     | 4000                                 | 4700                                  |
|                                       | 70  | 4000                                 | 8200                                  | 18                                    |     | 4000                                 | 5000                                  |
|                                       | 95  | 7000                                 | 12700                                 |                                       |     |                                      |                                       |
| 5                                     | 1,5 | 2000                                 | 2100                                  |                                       |     |                                      |                                       |
|                                       | 2,5 | 2000                                 | 2150                                  |                                       |     |                                      |                                       |
|                                       | 4   | 2000                                 | 2300                                  |                                       |     |                                      |                                       |
|                                       | 6   | 2000                                 | 2450                                  |                                       |     |                                      |                                       |
|                                       | 10  | 2000                                 | 2750                                  |                                       |     |                                      |                                       |
|                                       | 16  | 2000                                 | 3200                                  |                                       |     |                                      |                                       |
|                                       | 25  | 2000                                 | 3850                                  |                                       |     |                                      |                                       |
|                                       | 35  | 4000                                 | 6600                                  |                                       |     |                                      |                                       |
|                                       | 50  | 4000                                 | 7750                                  |                                       |     |                                      |                                       |
|                                       | 70  | 7000                                 | 12250                                 |                                       |     |                                      |                                       |
|                                       | 35  | 4000                                 | 6600                                  |                                       |     |                                      |                                       |

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