

|                                         |                      |                                                                                     |
|-----------------------------------------|----------------------|-------------------------------------------------------------------------------------|
| <b>0039001</b>                          | <b>DATA SHEET</b>    |  |
| <b>valid from:</b><br><b>30.04.2025</b> | <b>ÖLFLEX® CRANE</b> |                                                                                     |

## Application

ÖLFLEX® CRANE cables are chloroprene rubber cables with supporting element for flexible use for medium mechanical load conditions. They are also suitable for use in dry and damp areas as well as wet industrial conditions. They are suitable for outdoor use if the indicated temperature range is observed. They are weatherproof and suitable for harsh environmental conditions.

For application the selection table A3 in Lapp download services (<https://www.lapp.com>) shall be considered.

Usage of these cables on drums or on guide pulleys under tensile load is not allowed.

Application range: Handling and hoisting equipment, construction machinery, dockyard installations etc.

## Design

|                          |                                                                                                                                                                                                                                               |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design                   | based on VDE 0250-814                                                                                                                                                                                                                         |
| Conductor                | extra fine wire strands of bare copper acc. to IEC 60228 resp. EN IEC 60228, class 6, except cross-sections from 1.5 to 4mm² with special strands of bare copper                                                                              |
| Insulation               | ethylen propylen rubber compound 3GI3 acc. to VDE 0207-20                                                                                                                                                                                     |
| Core identification code | acc. to VDE 0293-1, with or without 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 are stranded in layers<br>depending on the number of cores and the conductor cross-section one or several supporting elements are used<br><br>tensile load = number of cores x nominal cross section x 30 N/mm²<br>tensile load ≥ 300 N |
| Outer sheath             | Chloroprene rubber compound acc. to VDE 0207-21<br>Colour: black, similar RAL 9005                                                                                                                                                            |

## Electrical properties at 20 °C

|                 |                              |
|-----------------|------------------------------|
| Nominal voltage | U <sub>0</sub> /U: 300/500 V |
| Test voltage    | 3000 V AC                    |

## Mechanical and thermal properties

|                        |                                                                                                                                                                                 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Minimum bending radius | occasional flexing: 12.5 x outer diameter<br>fixed installation: 6 x outer diameter                                                                                             |
| Temperature range      | occasional flexing: - 25 °C up to +80 °C max. conductor temperature<br>fixed installation: - 40 °C up to +80 °C max. conductor temperature<br>max. conductor temperature: 90 °C |
| Flammability           | flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2                                                                                                                        |

## 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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