Just click on the products in the selection table. Click on the HELUKABEL logo at the end of the page to go back.

### Selection table for trailing cables

| Cables & Wires | www.helukabel.com |
### TRAILING CABLES

<table>
<thead>
<tr>
<th>Trailing Cables</th>
<th>Temperature (°C)</th>
<th>Nominal Voltage U₀/U</th>
<th>Bending radius - flexing x Ø</th>
<th>Bending radius - fixed x Ø</th>
<th>Halogen-free</th>
<th>UV-resistant</th>
<th>Outdoor use</th>
<th>Drag chain</th>
<th>Colored cores</th>
<th>VDE 0293</th>
<th>Screened/shielded</th>
<th>HAR/VDE REG no.</th>
<th>UL/CSA</th>
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<tbody>
<tr>
<td>TROMMPUR®</td>
<td>-40 bis +80</td>
<td>300/500</td>
<td>10x</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td>-20 to +80</td>
<td>300/500</td>
<td>15x</td>
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<tr>
<td>NSHTOU</td>
<td>-35 to +70</td>
<td>0.6/1 kV</td>
<td>7.5x</td>
<td>7.5x</td>
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<tr>
<td>(N)SHTOU-V</td>
<td>-25 to +80</td>
<td>0.6/1 kV</td>
<td>7.5x</td>
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</table>

The selection table is intended as an initial orientation. Please see the relevant page of the catalogue for detailed information on the product properties.
TROMMPUR® PUR trailing and control cable, halogen-free

**Technical data**
- Special PUR insulation and sheath adapted to DIN VDE 0295
- Strain bearing support strand
- Temperature range: -40°C to +80°C (up to +100°C for short periods)
- Nominal voltage:
  - up to 1 mm²: U0/U 300/500 V
  - from 1,5 mm²: U0/U 450/750 V
- Test voltage:
  - up to 1 mm²: 2000 V
  - from 1,5 mm²: 4000 V
- Insulation resistance:
  - min. 20 MΩm x km
- Minimum bending radius:
  - 10x cable Ø
- Radiation resistance:
  - up to 100x10⁶ cJ/kg (up to 100 Mrad)

**Cable structure**
- Bare copper-conductor, to DIN VDE 0295 cl.6, col.4, extra fine-wire, BS 6360 cl.6, IEC 60228 cl.6
- Special PUR insulation and sheath adapted to DIN VDE 0250
- High flexibility at low temperatures
- Usable for foodstuffs
- Strain bearing support strand
- Abrasion and tear resistant
- Core insulation of special PUR
- Temperature range: -40°C to +80°C (up to +100°C for short periods)
- Loadable under torsional stress
- Support core
- Insulation resistance:
  - min. 20 MΩm x km
- Minimum bending radius:
  - 10x cable Ø
- Radiation resistance:
  - up to 100x10⁶ cJ/kg (up to 100 Mrad)

**Properties**
- High flexibility at low temperatures
- Usable for foodstuffs
- Abrasion and tear resistant
- Loadable under torsional stress

**Resistant to**
- Oils and fats
- Non-alcoholic fuels and kerosene
- Atmospheric influences
  - UV-radiation
  - Oils and fats
  - Non-alcoholic fuels and kerosene
- Cores stranded in layers with optimal lay-length
- Strain bearing support strand
- Abrasion and tear resistant
- Core wrapping with fleece
- Support braiding of synthetic fibres
- Microbes and rotting
- Outer sheath of halogen-free PUR
- Sea and waste water
- Breakdown voltage:
  - up to 1 mm²: 4000 V
  - from 1,5 mm²: 5000 V
- Sheath colour orange
- Test voltage:
  - up to 1 mm²: 2000 V
  - from 1,5 mm²: 2500 V

**Note**
- G = with green-yellow conductor
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

**Application**
TROMMPUR® has taken the development of the neoprene type cables one step further. It is a robust, all-weather cable, halogen-free, tear and abrasion resistant and suitable for use in drag-chains, in ship docks, on building sites, for conveyor systems, in mining, for tunnels and roadbuilding. For the connecting the ski lift terminal positions to the control unit, surveillance of the joining rods in ski lift cables, as feeder cables for very high currents as for example in pump engineering, mining, locomotive and rail-carriage construction, for oil rig platforms, emergency power generators etc.

---

**Table of Dimensions and Specifications**

<table>
<thead>
<tr>
<th>Part no.</th>
<th>No. cores x cross-sec. mm²</th>
<th>Outer Ø app. mm</th>
<th>Cop. weight kg / km</th>
<th>Weight app. kg / km</th>
<th>Breaking strain ca. kp</th>
<th>AWG-No.</th>
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<td>26052</td>
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<td>384,0</td>
<td>650,0</td>
<td>500</td>
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<tr>
<td>26055</td>
<td>4 G 16</td>
<td>27,0</td>
<td>614,0</td>
<td>1100,0</td>
<td>500</td>
<td>6</td>
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<tr>
<td>26059</td>
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<td>788,0</td>
<td>1600,0</td>
<td>750</td>
<td>6</td>
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<td>1600,0</td>
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<td>1000</td>
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<td>1920,0</td>
<td>2800,0</td>
<td>1000</td>
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</tr>
</tbody>
</table>

Dimensions and specifications may be changed without prior notice. (RG01)
Flugzeugheber-T trailing, PUR

**Technical data**
- **Temperature range**
  - flexing: -20°C to +80°C
- **Nominal voltage**
  - control cores: 300/500 V
  - power supply cores: 600/1000 V
- **A.C. test voltage**, 50 Hz
  - control cores: 1500 V
  - power supply cores: 4000 V
- **Minimum bending radius**
  - for flexible installation: 15 times cable Ø

**Cable structure**
- **Part no. 70736**
  - Bare copper-conductor, to
    - DIN VDE 0295 cl.6, extra fine-wire,
      BS 6360 cl.6, IEC 60228 cl.6
  - **Power supply cores** (4 mm²)
    - Core insulation of cold flexible special PVC
    - Core identification black with numbering
    - Cores stranded with elements
    - Core identification: DIN 47100
    - Foil wrapping
    - Tinned copper braided screen, approx. 85% coverage
    - Inner sheath of cold flexible special PVC
  - **Control cores** (0,75 mm²)
    - Core insulation of cold flexible special PVC
    - Core identification: DIN 47100
    - Foil wrapping
    - Tinned copper braided screen, approx. 85% coverage
    - Inner sheath of cold flexible special PVC
  - **Data pair** (0,34 mm²)
    - Core insulation data pair of polyethylene
    - Core identification to DIN 47100
    - Cores twisted in pairs
    - Foil wrapping
    - Tinned copper braided screen, approx. 85% coverage
    - Inner sheath of cold flexible special PVC

**Properties**
- **PUR outer sheath**
  - low adhesion, extremely abrasion resistant, halogen-free, resistant to UV, oil, hydrolysis and microbial attack

**Application**
This hybrid cable is designed for the aircraft industry, and contains cores for power supply, control cores, and cores for a positioning laser. The cable is used to control and position a support robot, which absorbs loads at specific points when loading extremely heavy items, for example during loading of aircraft assemblies in large transport aircraft of the Airbus industry. The cable is trailing, UV and weather-resistant, and is provided with an extremely wear-resistant and petrol-resistant special sheath. Part no. 77548 is designed for similar applications, as a load-reducing lifter in aircraft assembly.

**AWG-No.** The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

---

**AWG-Table**

<table>
<thead>
<tr>
<th>Part no.</th>
<th>No. cores x cross-sec. mm²</th>
<th>Outer Ø app. mm</th>
<th>Cop. weight kg/km</th>
<th>Weight app. kg/km</th>
<th>AWG-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>70736</td>
<td>5 x 4 + 5 x 3 G 0,75 + 2 x 2 x 0,34</td>
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<td>390,0</td>
<td>600,0</td>
<td>12</td>
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<tr>
<td>77548</td>
<td>5 x 2,5 + 18 G 1,0 + 4 x 2 x 0,34</td>
<td>27,0</td>
<td>461,0</td>
<td>750,0</td>
<td>14</td>
</tr>
</tbody>
</table>

Dimensions and specifications may be changed without prior notice.
NSHTÖU drum cable, VDE approved

### Technical data
- Special-crane-drum cable to DIN VDE 0250 part 814
- Temperature range
  - flexing -35°C to +70°C
  - fixed installation -40°C to +70°C
- max. Temperature at conductor in operation +60°C in short-circuit +200°C
- Nominal voltage $U_0/U = 0.6/1$ kV
- max. permissible operating voltages in three-phase and one-phase
  - a.c. system $U_0/U = 0.7/1.2$ kV in direct current system
  - $U_0/U = 0.9/1.8$ kV
- Test voltage 2500 V
- Insulation resistance
  - min. 10 MΩ x km
- Minimum bending radius
  - 7.5 x cable Ø
- Radiation resistance
  - up to 20x10$^5$ cl./kg (up to 20 Mrad)

### Cable structure
- Tinned copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of rubber compound type G1 to DIN VDE 0207 part 20
- Core identification to DIN VDE 0293 - up to 5 cores coloured. Maximum lay-length of 8x Ø over the stranding layers
- Textile tape
- Core identification to DIN VDE 0293
- Core insulation of rubber compound type SGM2 to DIN VDE 0207 part 21
- Sheath colour black
- Textile braiding as protection against torsion, embedded in inner filling sheath
- Outer sheath of neoprene compound type 5GM2 to DIN VDE 0250 part 814
- Insulation of rubber compound type GI1 to DIN VDE 0207 part 20
- Textile tape
- Core identification to DIN VDE 0293
- Core insulation of rubber compound type SGM2 to DIN VDE 0207 part 21
- Sheath colour black

### Properties
- Designed and developed for horizontal drum-operation
- Permissible running speed up to max. 120 m/min
- Polychloroprene-rubber (neoprene)-sheath, extremely cold resistant
- Due to the neoprene outer sheath, the cables is resistant against ozone and radiation, oils, acids, fats, gasoline, solvents and chemicals
- During the installation and operation the tensile stress on conductor may not increase 15 N/mm$^2$
- Acceleration not more than 0.4 m/s$^2$
- During operation, 1-2 convolutions should remain on the operating drum
- In case of high mechanical stress, especially of high dynamic tensile stress result high acceleration, the permissible stress must be defined in each case

### Tests
- Behaviour in fire to DIN VDE 0482-332-1-2
- DIN EN 60332-2-1, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- Oil resistant acc. to DIN VDE 0473-811-404

### Note
- G = with green-yellow conductor
- AWG sizes are approximate equivalent values. The actual cross-section is in mm$^2$.

### Application
Trailing cables are used for high mechanical stress, especially for applications with frequent winding and unwinding with simultaneous tensile and torsional stress, for building machinery, conveyors, shifts and cranes. They are used as robust and all weather resistant cables of roughest operations in mining and in flexible handling equipment and railway motors. The cables are suitable for outdoor installation in dry, damp and wet places as well as open air. For applications which go beyond standard solutions we recommend that you fill out our especially developed questionnaire for reeling cables. Please read the installation instructions.

---

<table>
<thead>
<tr>
<th>Part no.</th>
<th>No.cores x cross-sec. mm$^2$</th>
<th>Outer Ø app. mm</th>
<th>Cop. weight kg / km</th>
<th>Weight app. kg / km</th>
<th>AWG-No.</th>
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</table>

Dimensions and specifications may be changed without prior notice. (RG011)
(N) SHTOU - V Trailing-Cable

Technical data
- Special trailing cable adapted to DIN VDE 0250, Part 814
- Temperature range: flexible -25°C to +80°C
- Maximum temperature at conductor in operation +90°C in short circuit +250°C
- Nominal voltage U0/U 0,6/1 kV
- Maximum permissible operating voltage in three-phase and one-phase a.c. system U0/U 0,7/1,2 kV in direct current system U0/U 0,9/1,8 kV
- Test voltage 4 kV
- Insulation resistance min. 10 MΩ x km
- Minimum bending radius 7,5x cable Ø

Cable structure
- Tinned copper-conductor, to DIN VDE 0295 c.s., fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of special rubber compound type 3G13 to DIN VDE 207 part 20
- Core identification to DIN VDE 0293 - 308 (HD 308 S2)
- Cores stranded (without elongated central core) with max. lay-length of 8xØ over the stranded layers
- Depending on dimension/structure with Kevlar fillers
- Inner sheath special rubber compound type 5GMS to DIN VDE 207 part 21
- Torsion protection between inner and outer sheath
- Outer sheath of special rubber compound type 5GMS to DIN VDE 207 part 21
- Sheath colour yellow

Properties
- Permitted running speed up to 180 m/min
- Highly resistant to acids, fats, gasoline, solvents and chemicals
- During installation and operation, the tensile stress must not exceed 30 N/mm²

Tests
- Behaviour in fire to DIN VDE 0482-332-1-2, DIN EN 60332-2-1, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- Oil resistant to DIN VDE 0473-811-404, DIN EN 60811-404

Note
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application
For vertical drum operation under extreme mechanical stress and on moving cable carriers. Used as a rugged feeder to construction machines, conveyor, transport and crane systems in dry, damp, wet environments and outdoors. For applications that go beyond standard solutions we recommend you to our specially developed questionnaire for reeling cables. Please note installation instructions.

Control Cable (Kevlar fillers)

<table>
<thead>
<tr>
<th>Part no.</th>
<th>No.cores x cross sections mm²</th>
<th>Outer Ø min, max. mm</th>
<th>Weight kg/km</th>
<th>Tensile strain max. N</th>
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</table>

Power supply cable

<table>
<thead>
<tr>
<th>Part no.</th>
<th>No.cores x cross sections mm²</th>
<th>Outer Ø min, max. mm</th>
<th>Weight kg/km</th>
<th>Tensile strain max. N</th>
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</thead>
<tbody>
<tr>
<td>01403</td>
<td>3 G 1,5</td>
<td>10,9 - 13,6</td>
<td>75,0</td>
<td>231,0 - 540,0</td>
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<td>01404</td>
<td>3 G 2,5</td>
<td>12,3 - 14,8</td>
<td>74,0</td>
<td>240,0 - 220,0</td>
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<td>01405</td>
<td>3 G 3</td>
<td>14,9 - 17,6</td>
<td>115,0</td>
<td>362,0 - 350,0</td>
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<tr>
<td>01406</td>
<td>3 G 4</td>
<td>16,2 - 18,9</td>
<td>133,0 - 450,0</td>
<td>540,0 - 540,0</td>
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<tr>
<td>01407</td>
<td>3 G 10</td>
<td>19,6 - 22,6</td>
<td>288,0 - 682,0</td>
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<tr>
<td>01408</td>
<td>3 G 16</td>
<td>21,8 - 24,9</td>
<td>461,0</td>
<td>1890,0</td>
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<tr>
<td>01409</td>
<td>3 G 25</td>
<td>27,5 - 30,8</td>
<td>720,0</td>
<td>1220,0</td>
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<tr>
<td>01410</td>
<td>3 G 35</td>
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<td>39,6 - 43,8</td>
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<tr>
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<td>92,8 - 100,0</td>
<td>32150,0</td>
<td>64300,0</td>
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</tbody>
</table>

Dimensions and specifications may be changed without prior notice. (RG01)
### Technical data
- Medium voltage power cable adapted to VDE 0250 part 813
- Temperature range: flexing -20°C to +60°C, fixed installation -20°C to +80°C
- Nominal voltages: U₀/U 3,6/6 kV, U₀/U 6/10 kV, U₀/U 8,7/15 kV, U₀/U 12/20 kV
- Operating voltages: 3,6/6 kV = 4,2/7,2 kV, 6/10 kV = 6,9/12 kV, 8,7/15 kV = 10,4/18 kV, 12/20 kV = 13,9/24 kV
- Test voltages: 3,6/6 kV = 11 kV, 6/10 kV = 17 kV, 8,7/15 kV = 24 kV, 12/20 kV = 29 kV
- Minimum bending radius: 15x outer Ø

### Cable structure
- Tinned copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Inner semi-conducting layer
- Core insulation of HEPR
- Resistant against oils and fats, atmospheric exposure and UV-radiation

### Properties
- Maximum permissible speed 200 m/min is allowed when operating drums in one direction
- Extremely torsion resistant
- Resistant against oils and fats, atmospheric exposure and UV-radiation

### Note
- Further dimensions and special designs on request

### Application
Reeling medium voltage supply train for use in high mechanical stresses, such as in container cranes or large mobile equipment as well as excavators in the mining industry for days, in dry, damp, wet areas and outdoors.

### Nominal voltages

<table>
<thead>
<tr>
<th>Nominal voltages</th>
<th>U₀/U 3,6/6 kV</th>
<th>U₀/U 6/10 kV</th>
<th>U₀/U 8,7/15 kV</th>
<th>U₀/U 12/20 kV</th>
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<td>3,6/6 kV</td>
<td>4,2/7,2 kV</td>
<td>6,9/12 kV</td>
<td>10,4/18 kV</td>
<td>13,9/24 kV</td>
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<tr>
<td>6/10 kV</td>
<td>11 kV</td>
<td>17 kV</td>
<td>24 kV</td>
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### Dimensions and specifications may be changed without prior notice. (RQ03)

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Nominal voltages</th>
<th>Outer Ø min. - max. mm²</th>
<th>Cross-section mm²</th>
<th>Tensile strain max. N</th>
<th>Weight app. kg/km</th>
<th>COP weight kg/km</th>
</tr>
</thead>
<tbody>
<tr>
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<td>2200</td>
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<td>2280,0</td>
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<td>2000</td>
<td>3100</td>
<td>1292,0</td>
<td>2752,0</td>
</tr>
<tr>
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<td>4300</td>
<td>1728,0</td>
<td>3400,0</td>
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<tr>
<td>38536</td>
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<td>47,0 - 50,0</td>
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<td>5100</td>
<td>2477,0</td>
<td>4100,0</td>
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<td>4176,0</td>
<td>6650,0</td>
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<table>
<thead>
<tr>
<th>Part no.</th>
<th>Nominal voltages</th>
<th>Outer Ø min. - max. mm²</th>
<th>Cross-section mm²</th>
<th>Tensile strain max. N</th>
<th>Weight app. kg/km</th>
<th>COP weight kg/km</th>
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<tr>
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<th>Part no.</th>
<th>Nominal voltages</th>
<th>Outer Ø min. - max. mm²</th>
<th>Cross-section mm²</th>
<th>Tensile strain max. N</th>
<th>Weight app. kg/km</th>
<th>COP weight kg/km</th>
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<tbody>
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<th>Nominal voltages</th>
<th>Outer Ø min. - max. mm²</th>
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### Suitable accessories can be found in Chapter X.
- Tool - HAM 1