

# Pre-assembled servo motor cables

for mobile use

Base line for use on SEW drive systems



## Technical data

- **Temperature range**  
flexing -20°C to +60°C  
fixed installation -50°C to +80°C
- **Minimum bending radius**  
flexing 10x cable Ø  
fixed installation 3x cable Ø
- **Max. acceleration**  
20 m/s<sup>2</sup>
- **Bending cycles**  
5 million for ≥ 10x cable Ø
- **Operating voltage**  
power cores U<sub>0</sub>/U 600/1000 V  
control cores 1000 V AC
- **Test voltage**  
power cores 4 kV  
control cores 4 kV
- **Insulation resistance** ≥ 100 MOhm x km

## Approbations

DESINA® (ISO 23570)  
UL/CSA

## Cable structure

### Power supply cores

- Bare copper, extra fine wire conductor acc. to DIN VDE 0295 cl.6
- high quality PP core insulation
- Core identification U/L1/C/L+ V/L2 W/L3/D/L-
- GN-YE conductor

### Signal cores

- Copper conductors, bare, fine wire stranded
- High quality PP core insulation
- Core identification 1, 2, 3
- Cores twisted to triple
- Shield tin-plated copper braiding
- Complete shield of tin-plated copper braiding, coverage approx. 85%
- PUR outer sheath
- Sheath colour orange (RAL 2003)

## Application

This high quality pre-assembled motor connection cable is specially manufactured for applications with high mechanical stress. The special PUR outer sheath allows use in many industrial environments of general machine and plant construction.

## Characteristic

Particularly suitable for use with small bending radii and high acceleration. These pre-assembled cables can be produced in any lengths and also with customer-specific modifications.

## Note

Please observe the installation instructions for laying cables in cable carriers and the drive or controller manufacturer's information about maximum permitted cable length. The prefabricated cables listed here are not original parts, but accessories manufactured by the company HELUKABEL® GmbH. The data, standards and approvals relate solely to the bulk goods used.

| Helukabel Designation         | Helukabel Part no. |
|-------------------------------|--------------------|
| motor cable 1991809 PUR 4x1,5 | <b>660824</b>      |
| motor cable 1991825 PUR 4x2,5 | <b>660825</b>      |
| motor cable 1991841 PUR 4x4   | <b>660826</b>      |
| motor cable 1991868 PUR 4x6   | <b>660827</b>      |
| motor cable 1991884 PUR 4x10  | <b>660828</b>      |

| Helukabel Designation             | Helukabel Part no. |
|-----------------------------------|--------------------|
| motor cable 1991906 PUR 4x1,5+3x1 | <b>660829</b>      |
| motor cable 1991922 PUR 4x2,5+3x1 | <b>660830</b>      |
| motor cable 1991949 PUR 4x4+3x1   | <b>660831</b>      |
| motor cable 1991965 PUR 4x6+3x1   | <b>660832</b>      |
| motor cable 1991981 PUR 4x10+3x1  | <b>660833</b>      |

Dimensions and specifications may be changed without prior notice.