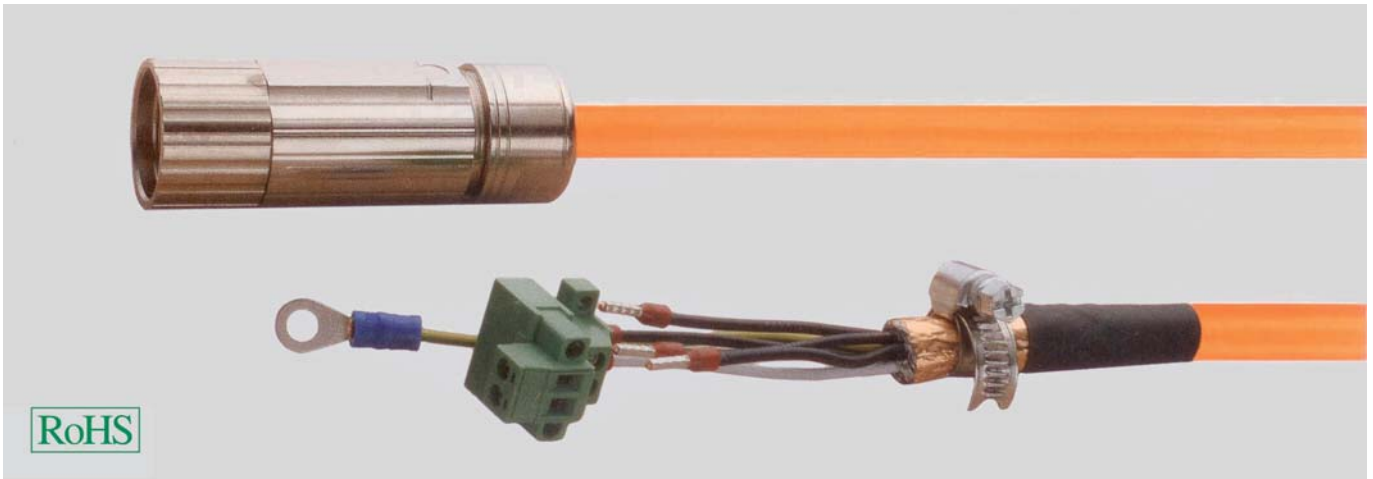


# Pre-assembled servo motor cable



for mobile use

Base line use on SEIMENS drive systems



## Technical data

- **Temperature range**  
moving  $-20^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$   
not moving  $-50^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$
- **Bending radius**  
moving  $10 \times$  cables diameter  $\varnothing$   
not moving  $7 \times$  cable diameter  $\varnothing$
- **Max. acceleration**  
 $5 \text{ m/s}^2$
- **Bending cycles**  
10 million for  $12 \times$  cable diameter  $\varnothing$
- **Operating voltage**  $U_o/ U \text{ 600/ 1000V}$   
(VDE 100V (UL))
- **Test voltage, power cores** 4 kV
- **Test voltage, control cores** 2 kV
- **Insulation resistance** 500M $\Omega$  x km

## Approbations

Desina® (ISO 23570)  
VDE  
UL/CSA

## Cable structure

### power supply cores

- Bare copper, extra fine wire conductor according to DIN VDE 0295 CL. 6
- high quality PP core insulation
- **Core identification** U/L1/C/L+  
V/L2  
W/L3/D/L-
- **Green-yellow earth core**

### Signal cores

- Copper conductor, bare
- **High quality PP core insulation**
- **Core identification** black white
- Core twisted in pairs
- **Shielding** screened with tin-plated copper wires
- **Complete shield made of tin-plated copper braiding**
- **Coverage** approx. 80%
- PUR outer sheath
- **Sheath colour**, orange (RAL 2003)

## Application

This high quality pre-assembled motor connection cable is specially manufactured in for application with mobile use. The special PUR outer jacket allow use in many industrial environments of general machine and plant construction.

## Characteristic

These pre-assembled cables can be produced in many lengths and also with customer-specific modification

## Note

Please observe the installation instructions for laying cables in cable carriers on Page 34 and the drive or controller manufacturer's information about maximum permitted cable length.

Manufacturer Designation	Helukabel Designation	Helukabel Part no.	Manufacturer Designation	Helukabel Designation	Helukabel Part no.
6FX8002 - 5CA01	5CA01 DESINA PUR	660053	6FX8002 - 5DA21	5DA21 DESINA PUR	660076
6FX8002 - 5CA11	5CA11 DESINA PUR	660056	6FX8002 - 5DA31	5DA31 DESINA PUR	660080
6FX8002 - 5CA21	5CA21 DESINA PUR	660059	6FX8002 - 5DA41	5DA41 DESINA PUR	660084
6FX8002 - 5CA31	5CA31 DESINA PUR	660063	6FX8002 - 5DA51	5DA51 DESINA PUR	660088
6FX8002 - 5CA41	5CA41 DESINA PUR	660066	6FX8002 - 5DA61	5DA61 DESINA PUR	660089
6FX8002 - 5CA62	5CA51 DESINA PUR	660067	6FX8002 - 5DA13	5DA13 DESINA PUR	89800
6FX8002 - 5CA61	5CA61 DESINA PUR	660068	6FX8002 - 5DA23	5DA23 DESINA PUR	89802
6FX8002 - 5CA13	5CA13 DESINA PUR	660058	6FX8002 - 5DA33	5DA33 DESINA PUR	660082
6FX8002 - 5CA23	5CA23 DESINA PUR	660061	6FX8002 - 5DA43	5DA43 DESINA PUR	660085
6FX8002 - 5DA01	5DA01 DESINA PUR	660070	6FX8002 - 5DA53	5DA53 DESINA PUR	660668
6FX8002 - 5DA11	5DA11 DESINA PUR	660073			

a. r. = on request

Dimensions and specifications may be changed without prior notice.

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.