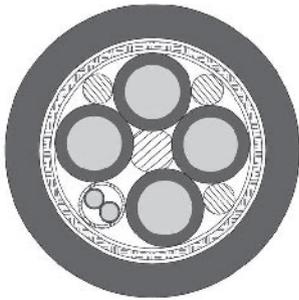


THERMSERV 150 / 120 flexible ETFE 7Y-servo cable, EMC-preferred



Technical data

THERMSERV® 150

- Special ETFE servo cable based on DIN VDE 0881
- ETFE 7Y insulation acc. to DIN VDE 0207 part 6
- **Temperature range**
flexing -55°C to +150°C
fixed installation -90°C to +150°C
- **Nominal voltage** $U_0/U_{300/500}$ V
- **A.c. test voltage**, 50 Hz
2000 V
- **Insulation resistance**
1,5 GOhm/km
- **Coupling resistance**
max. 250 Ohm/km
- **Minimum bending radius**
approx. 15x cable \emptyset
- **Radiation resistance**
min. 1×10^7 cJ/kg

THERMSERV® 120

- Special heat-resistant servo cable
- **Temperature range**
flexing -15°C to +120°C
fixed installation -15°C to +120°C
- **Nominal voltage** $U_0/U_{300/500}$ V
- **A.c. test voltage**, 50 Hz
2000 V
- **Coupling resistance**
max. 250 Ohm/km
- **Minimum bending radius**
approx. 7,5 cable \emptyset

Cable construction

THERMSERV® 150

- Tinned copper, fine wire conductor to DIN VDE 0295 cl. 5 and IEC 60228 cl. 5
- Core Insulation ETFE 7Y
- Core colours
bk, bu, bn, gnye/2,5 mm²
wh, bn/0,75 mm²
- Control pair screened with tinned copper braid, (approx. 85% coverage)
- Under that is a tinned drain wire
- 4 cores stranded with pair
- Glass filament filler in the interstices for roundness
- Polyester foil wrapping
- Braided screen of tinned copper braid, coverage approx. 85%, tinned drain wire
- Sheath ETFE 7Y
- Sheath colour black

TOPSERV® 120

- Tinned copper, fine wire conductor to DIN VDE 0295 cl. 5 and IEC 60228 cl. 5
- Special TPE core insulation
- Core colours
bn, bu, bk +gnye/power cores,
wh, bn/control cores
- Screening of the control cores in pairs wrapped with aluminium-coated polyester foil, tinned drain-wire and tinned copper braid
- Polyester foil wrapping over screen
- Control cores stranded in pairs and laid up in layers together with the power supply cores
- Polyester foil wrapping
- Overall screening of tinned copper braid, coverage approx. 85%
- Special TPE sheath
- Colour grey RAL 7001

Part no. 79883

- Construction as above, but
- Core colours acc. to DIN 47100
- Cable only with overall screening

Properties

THERMSERV® 150

- Optimum compliance with requirements for electromagnetic compatibility (EMC) by approx. 85% coverage from the braided screen.

THERMSERV® 120

- Through the use of special temperature-resistant TPE compounds, the cable can be used at up to +120°C.

Application

THERMSERV® 150

These temperature-resistant servo cables are used in production processes wherever high temperatures or chemical effects are anticipated, e.g. in the area of heat sources or in the chemical industry.

EMC = Electromagnetic compatibility

To optimise the EMC characteristics we recommend a large area of contact of the copper braiding around the entire circumference on both ends.

THERMSERV® 120

The combination of feeder cores with the control cores for the braking function and the thermal protection in these cables is ideal. Precision servomotors, as used today in many areas of highly-automated manufacturing processes, call for high-quality, reliable and long-lasting cables. These requirements are met to a high degree by these cables. The cables have an additional overall screen to ensure EMC compatibility, i.e. for protection against electromagnetic interference. They are manufactured based on specifications from leading manufacturers of servo drives and control systems, as well as in compliance with various VDE standards.

CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Continuation ►