ROBOFLEX® 2001 / 2001-C Robot cables, meter marking

Technical data
- Special TPE-E/PUR adapted to DIN VDE 0250 / DIN VDE 0285-525-1 / DIN EN 50525-1
- Temperature range: flexing -30°C to +80°C, fixed installation -40°C to +100°C
- Nominal voltage: up to 0.34 mm² 350 V (operating peak voltage) from 0.5 mm² U0/U 300/500 V
- Test voltage: up to 0.34 mm² 1.5 kV, 5 minutes from 0.5 mm² 3.0 kV, 5 minutes
- Mutual capacitance: core/core approx. 100 nF/km core/screen approx. 120 nF/km
- Inductance approx. 0.69 mH/km
- Minimum bending radius: 7.5x cable Ø

Cable structure
- Bare copper, stranded to DIN VDE 0295 and IEC 60228, fine or extra fine wires, cl.5 or cl.6, 85 6360 cl.5 or 6, up to 0.34 mm² cl.5, above 0.5 mm² cl.6
- Special core insulation, PP
- Cores coded up to 0.34 mm² according DIN 47100 above 0.5 mm² black cores with continuous white numbering acc. to DIN VDE 0293
- GN-YE conductor, 3 cores and above in the outer layer
- Cores stranded in layers with optimal lay-length
- Special separating foil
- Cable structure C-type, cu-screen of helically wound, approx. 85-95% coverage
- Outer sheath, special polyurethane
- Sheath colour black (RAL 9005)
- with meter marking

Properties
- High flexibility at low temperatures
- High abrasion resistance
- Loadable under torsion stress ±360°/meter
- Low adhesion
- Resistant to Microbes and rotting Ozone and ozone
- Vibrations UV-radiation
- Largely resistant to Oil and fats resistant
- AWG sizes are approximate equivalent values. The actual cross-section is in mm²

Application
These special robotic control and signal cables specially designed for torsion and bending stresses in robots and connecting handling tools.

EMC = Electromagnetic compatibility
To optimize the EMC features we recommend a large round contact of the copper braiding on both ends.

C&E = The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Dimensions and specifications may be changed without prior notice. (RH01)