



Technical data

- **Temperature range**
flexing -5°C to +80°C
fixed installation -30°C to +80°C
- **Peak operating voltage**
to 0,25 mm² 350 V
from 0,34 mm² 500 V
- **A.c. test voltage**, 50 Hz
to 0,25 mm² 1200 V
from 0,34 mm² 2000 V
- **Minimum bending radius**
Sensorflex PUR
approx. 7,5x cable Ø
Sensorflex PVC/PUR
approx. 7,5x cable Ø
Sensorflex PVC
approx. 15x cable Ø

Cable construction

Sensorflex PVC

- Bare copper, fine wire conductors in acc. with DIN VDE 0295 cl. 5 and/or cl. 6 and IEC 60228 cl. 5 and cl. 6
- PVC core insulation, core colours see below
- Special PVC sheath

Sensorflex PUR

- Bare copper, ultra-fine wire conductors acc. to DIN VDE 0295 cl. 6 and/or IEC 60228 cl. 6
- PVC core insulation, core colours see below
- PUR sheath

Sensorflex PVC/PUR

- Construction as above, except
- PVC inner sheath, with PUR sheath applied over it by means of coextrusion

Properties

Sensorflex PVC

- Extensively oil resistant.
Chemical Resistance - see table Technical Informations
- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

Sensorflex PUR

- PUR sheath: low adhesion, extremely abrasion resistant, resistant to hydrolysis and microbial attack

Sensorflex PVC/PUR

- The cables with the highly flexible stranded conductor, cl. 6, are suitable for drag chain applications
- These cables are produced to high quality specifications and conform with a yellow sheath to the DESINA®-standard

Sheath colour yellow (RAL 1021) according to DESINA®

Note

- All cables can be delivered with UL/CSA approval and Cu shield.
- Desina®: Explanation: see introduction.

Application

For decentralised installation and control technology.

These cables are used in connector systems for sensors and actuators.

In combination with injected circular connectors and installed actuator-sensor boxes, they constitute an important connecting element between the periphery and the PLC in production systems. The assembled cables offer attractive opportunities for reducing costs, not only in the field of automation technology, but also in the entire manufacturing industry.

While previously it was necessary to carry out time-consuming wiring of switchgear cabinets and machines, now field bus technology has made it possible to move the periphery interfaces from the switchgear cabinets to the machines and systems.

Moving the I/O points to the system periphery enables significant reductions in installation costs.

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

| Part No. yellow | orange | grey | Cable structure No. cores x cross-sec. mm ² | Jacket material | Core colours | Fine wire | High flex** | Outer ø ca. mm | Cop. weight kg/km | Weight ca. kg/km | AWG-No. |
|-----------------|--------|-------|--|-----------------|---|-----------|-------------|----------------|-------------------|------------------|---------|
| 76061 | 76076 | 73473 | 3 x 0,25 | PVC | brown, blue, black | | X | 4,4 | 7,2 | 22,0 | 24 |
| 76062 | 76077 | 73466 | 3 x 0,25 | PUR | brown, blue, black | | X | 4,4 | 7,2 | 22,0 | 24 |
| 76063 | 76078 | 73474 | 4 x 0,25 | PVC | brown, blue, black, white | | X | 4,7 | 9,6 | 26,0 | 24 |
| 76064 | 76079 | 73471 | 4 x 0,25 | PUR | brown, blue, black, white | | X | 4,7 | 9,6 | 26,0 | 24 |
| 76065 | 76080 | 76094 | 5 x 0,25 | PVC | brown, blue, black, white, green-yellow | | X | 4,8 | 12,0 | 30,0 | 24 |
| 76066 | 76081 | 76095 | 5 x 0,25 | PVC/PUR | brown, blue, black, white, green-yellow | | X | 4,8 | 12,0 | 30,0 | 24 |
| 76070 | 76085 | 76099 | 3 x 0,34 | PVC | brown, blue, black | | X | 4,9 | 9,8 | 30,0 | 22 |
| 76071 | 76086 | 73472 | 3 x 0,34 | PVC/PUR | brown, blue, green-yellow | | X | 4,9 | 9,8 | 30,0 | 22 |
| 73485 | 76087 | 73568 | 4 x 0,34 | PVC | brown, blue, black, white | X | | 5,2 | 13,1 | 43,0 | 22 |
| 73484 | 76088 | 72973 | 4 x 0,34 | PVC/PUR | brown, blue, black, white | | X | 5,2 | 13,1 | 43,0 | 22 |
| 78240 | 78241 | 73728 | 5 x 0,34 | PVC | brown, blue, black, white, grey | X | | 5,9 | 16,4 | 54,0 | 22 |
| 76072 | 76089 | 73657 | 5 x 0,34 | PVC | brown, blue, black, white, green-yellow | X | | 5,9 | 16,4 | 54,0 | 22 |
| 73870 | 76090 | 73548 | 5 x 0,34 | PVC/PUR | brown, blue, black, white, green-yellow | | X | 5,9 | 16,4 | 54,0 | 22 |

Dimensions and specifications may be changed without prior notice.