

# LUTZE SUPERFLEX® TRONIC AS PUR, Unshielded

## High Flexing Actuator Sensor Cable with UL Approval



### Application

- Termination cable for actuator-sensor applications
- For continuous flexing use in C-tracks or free movement in automation technology, transport and conveyor technology, machine tool manufacturing
- Full PUR jacket and TPE conductor insulation optimally suited for extremely harsh operating conditions, aggressive coolants and lubricants

### Characteristics

- Very good alternating bending strength
- Good pressure and flexing stability
- Low adhesion, abrasion-resistant, nick-resistant, tear-resistant
- Hydrolysis-resistant, microbe-resistant, and rot-resistant
- Weathering, ozone and UV resistant
- Salt water resistant
- Excellent coolant and lubricant resistance
- Largely resistant to oils, greases, alcohol-free benzenes and kerosene
- Talc and Silicone free

### Technical Data

Voltage	300V UL AWM
Test voltage	3000V
Insulation resistance	Min. 100MΩ x km
Temperature range	Moving -20°C - +80°C Fixed -40°C - +80°C
Minimum bending radius	Moving 8 x cable OD Fixed 4 x cable OD
Burning behavior	Flame retardant per DIN EN 60332-1-2 IEC 60332-1 UL 1581 section VW-1 Flame Test FT1
Halogen free	According to DIN EN 60754-1
Approvals	UL AWM 20549 RoHS REACH

### Construction

- Metric conductor
- Bare copper wire super finely stranded per DIN VDE 0295 class 6 and IEC 60228 class 6
- Special TPE conductor insulation
- G: with GNYE ground conductor  
x: without ground conductor
- Conductors color coded per EN 60947-5-2
- Layer pitch optimized
- Fleece wrap over cabled conductors
- PUR jacket, matte, adhesion-free surface
- Black jacket RAL 9005

Specifications are subject to change without prior notice

Part No.	Description No. of conductors	OD / Ø ca. mm	OD / Ø inches	Weight Lbs/Mft	Copper Lbs/Mft
<b>AWG24 / 0.25 mm<sup>2</sup></b>					
<b>117240</b>	3x0.25 BN, BU, BK	4.0	0.157	13	5
<b>117241</b>	4x0.25 BN, WH, BU, BK	4.3	0.169	15	7
<b>117242</b>	8x0.25 WH, BN, GN, YE, GY, PK, BU, RD	5.9	0.232	28	14
<b>AWG22 / 0.34 mm<sup>2</sup></b>					
<b>117243</b>	3x0.34 BN, BU, BK	4.2	0.165	15	7
<b>117244</b>	4x0.34 BN, WH, BU, BK	4.5	0.177	18	9
<b>117245</b>	5x0.34 BN, WH, BU, BK, GY	4.9	0.193	22	11
<b>117246</b>	5x0.34 BN, WH, BU, BK, GN-YE	4.9	0.193	22	11

### With Power Supply Conductors

<b>110872</b>	3G1.0+8x0.34 1.0: BN, BU, GNYE 0.34: WH, BK, GN, YE, GY, PK, VT, RD	8.2	0.323	67	37
<b>110874</b>	3G1.0+16x0.34 1.0: BN, BU, GNYE 0.34: WH, GN, YE, GY, PK, RD, BK, VT, GYPK, RDBU, WHGN, BNGN, WHYE, YEBN, WHGY, GYBN	9.7	0.382	91	54

“Extra rugged actuator sensor cable for use in continuous motion applications such as energy chains”.

