

# Technical data sheet · LÜTZE SUPERFLEX® PLUS (C) PUR SERVO

## Feedback typical capacitance wires cULus



PUR C-track cables · For the highest requirements

<b>Identification</b>	Type	(2×0.5+3×(2×0.14)+4×0.23+4×0.14)
	Part-No.	111457

### Use/Area of application

Application	<ul style="list-style-type: none"> <li>• Incremental encoder cable, termination cable for tacho sensor, brake sensor, speed sensor</li> <li>• Through full PUR jacket and TPE cable insulation optimally suited for c-tracks, extremely harsh operating conditions, aggressive coolants and lubricants</li> <li>• Especially for industrial environments, machines and plants</li> </ul>
Properties	<ul style="list-style-type: none"> <li>• High active and passive interference-resistance (EMC)</li> <li>• Braided shield optimised for continuous flexible use</li> <li>• Very good alternating bending strength</li> <li>• Low adhesion, abrasion-proof, nick-resistant, tear-propagation-resistant</li> <li>• Hydrolisis-resistant, microbe-resistant, and rot-resistant</li> <li>• Weathering, ozone and UV resistant (normal lighting conditions)</li> <li>• Good industrial- and salt water resistance</li> <li>• Excellent coolant and lubricant resistance</li> <li>• Widely resistant to oils, greases, alcohol-free benzines and kerosene (see tech. information)</li> <li>• Free from paint wetting disruptive substances (LABS-free), RoHS-compliant</li> </ul>

### Technical data

UL approval	30 V 80 °C	
Voltage	UL	300 V

23.11.2007 – Subject to technical modification

Part-No. 111457

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273  
 Tel.: +1 (704) 504-0222 • Fax: +1 (704) 504-0223  
 www.lutze.com • info@lutze.com

United Kingdom: LÜTZE Ltd.

Unit 3 Sandy Hill Park  
 Sandy Way, Amington • GB-Tamworth, Staffs, B77 4DU  
 Tel.: +44 (0)1827 31333-0 • Fax: +44 (0)1827 31333-2  
 www.lutze.com • sales.gb@lutze.co.uk

# Technical data sheet · LÜTZE SUPERFLEX® PLUS (C) PUR SERVO

## Feedback typical capacitance wires cULus

Test voltage	3000 V
Insulation resistance	min. 200 MΩ × km
Inductance	approx. 0.65 µH/m
Temperature range	moving -25 °C to +80 °C fixed -40 °C to +80 °C
Minimum bending radius	moving Cable diameter × 12 fixed Cable diameter × 6
Burning behaviour	Flame-retardant according to VDE 0482 section 265, IEC 60332-1, UL VW-1; CSA FT 1
Halogen-free	according to DIN EN 202641-1, EN 50267-2-1, EN 60684-2
Number of strands/cross-section	(2x0,5+3x(2x0,14)+4x0,23+4x0,14)
Outer-∅	10.3 approx. mm
Weight	15.3 kg/100 m
Cu-Index	9.3 kg/100 m

### Design

Strand colours	0.5: brownblue, brownred 0.23: greenblack, greenred, brownyellow, browngrey (0.14) black/brown, red/orange, yellow/green 0.14: blue, grey, whiteblack, whiteyellow
Conductor structure	Bare copper wire, finest multi-strand according to DIN VDE 0295 class 6, IEC 60228 class 6
Conductor insulation	Special TPE conductor insulation, UL qualified
Conductor labelling	Colour coded wires
Stranding	Conductors twisted without mechanical stress, layer pitch optimised
Banding	Non-woven material over stranded cable
Overall shield	Meshwork from tinned copper wire braid, optical covering ≥ 85 %
Outer jacket	Full polyurethane jacket, matt, adhesion-free surface
Jacket colour	green RAL 6018

### General

Note	CE These products are in conformity to the EC Low Voltage Directive 73/23/EWG or 93/68/EWG respectively
------	---

### Logo



halogenfree

23.11.2007 – Subject to technical modification

Part-No. 111457

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273  
Tel.: +1 (704) 504-0222 • Fax: +1 (704) 504-0223  
www.lutze.com • info@lutze.com

United Kingdom: LÜTZE Ltd.

Unit 3 Sandy Hill Park  
Sandy Way, Amington • GB-Tamworth, Staffs, B77 4DU  
Tel.: +44 (0)1827 31333-0 • Fax: +44 (0)1827 31333-2  
www.lutze.com • sales.gb@lutze.co.uk



Systematic Technology