

# Technical data sheet - LÜTZE SUPERFLEX® PLUS (C) PUR UL FEEDBACK

## Encoder cables for Siemens and other systems

### For highest requirements in drive technology



PUR feedback cables - C-track compatible

<b>Identification</b>	Type	(2×(0.5)+3×(2×0.14))
	Part-No.	111459

#### Use/Application/Characteristics

Application	<ul style="list-style-type: none"> <li>• Incremental encoder cable, termination cable for tachometer 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>
Characteristics	<ul style="list-style-type: none"> <li>• High active and passive interference resistance (EMC)</li> <li>• Braided shield optimised for continuous flexing applications</li> <li>• Very good flexing strength</li> <li>• Low adhesion, Abrasion-resistant, Tear resistant</li> <li>• Hydrolysis-resistant, microbe-resistant, and rot-resistant</li> <li>• Weathering, ozone and UV resistant (normal lighting conditions)</li> <li>• Good resistance to wear and salt water</li> <li>• Excellent coolant and lubricant resistance</li> <li>• Largely resistant to oils, greases, alcohol-free benzines and kerosene (See tech. information)</li> <li>• Silicone free</li> <li>• RoHS-compliant</li> </ul>

#### Technical data

28.10.2014 – Subject to technical modification

Part-No. 111459

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UL approval	AWM 20236	
Nominal voltage	30 V 80 °C	
Test voltage	500 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	D × 12
	fixed	D × 6
Jacket material	PUR	
Burning behavior	Flame-retardant according to VDE 0482 part 265-2 DIN EN 50265-2, IEC 60332-1, UL 1581 section 1080 VW-1, CSA FT 1	
Halogen-free	according to EN 50267-2-1	
Approvals	UL/CSA/CE UL-VW-1 CSA FT1 IEC 60332-1 Halogen free per DIN EN 50264-1 EN 50267-2-1 EN 60684-2 Oil Res II RoHS	
OD-Ø	0.343 inches	
Weight	86.0 Lbs/Mft	
Copper	46 Lbs/Mft	

#### Construction

Number of strands/cross-section	(2×(0.5)+3×(2×0.14))
Number of strands/cross-section	(2C/AWG 20 + 3 TSP AWG 26)
Strand colors	0.5: black, red
	0.14: black/brown, red/orange, green/yellow
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 marking	Conductors colour-coded for specific system
Stranding	Conductors twisted without mechanical stress, layer pitch optimised
Banding	Non-woven material over stranded cable

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Overall shield	Braid from tinned copper wire, optical covering ≥ 85 %
Outer jacket	Full polyurethane jacket, matt, adhesion-free surface
Jacket color	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 *Siemens and DRIVE CliQ are registered trademarks
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#### Symbols



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