

# LUTZE SUPERFLEX® Plus (C) PUR Feedback, Shielded

## High Flexing Feedback Cable for Continuous Motion Applications



### Application

- Incremental encoder cable, termination cable for tach sensor, brake sensor, speed sensor
- Suitable for applications with extremely rough operating conditions and oil exposure
- For the most demanding flexing applications such as drag chains and linear flexing
- For Siemens and other systems
- Compatible with all major drag chain brands
- Compliant with NFPA 79, Article 12.9

### Characteristics

- High resistance to electromagnetic interference (EMI)
- Special braided shield, optimized for continuous flexing
- Very good alternating bending strength
- Abrasion, high wear and tear resistance
- Hydrolysis, microbe, and rot resistant
- UV resistant
- Salt water resistant
- Excellent coolant and lubricant resistance
- Resistant to most oils, greases, alcohol-free benzenes and kerosene
- Talc and silicone free

### Technical Data

Voltage	30V 80C AWM
Test voltage	500V
Insulation resistance	Min. 500MΩ x km
Temperature range	Moving -25°C - +80°C Fixed -40°C - +80°C
Bending radius min	Moving 12 x cable OD Fixed 6 x cable OD
Burning behavior	Flame retardant per DIN EN 60332-1-2 IEC 60332-1 UL 1581 section VW-1 FT1
Halogen free	According to DIN EN 60754-1
Approvals	UL AWM 20236 RoHS, REACH

### Construction

- Bare copper wire super finely stranded per DIN VDE 0295 class 6 and IEC 60228 class 6
- Special TPE conductor insulation
- Conductors color-coded for specific system
- Layer pitch optimized
- Fleece wrap over cabled conductors
- Tinned copper braid shield, optical coverage 85%
- Extremely oil resistant PUR jacket
- Green jacket similar to RAL 6018

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Part No.	Description No. of conductors incl. ground	Siemens Designation	OD / Ø ca. mm	OD / Ø inches	Weight Lbs/Mft	Copper Lbs/Mft
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### For Siemens Standard Systems 6FX8000\* and similar

111456	(4×0.5+4×2×0.38) 0.5: WHBU, WHBK, WHRD, WHYE 0.38: BK/BN, RD/OG, GN/YE, BU/VT	1BD21*	9.4	0.370	89	58
111459	(2×(0.5)+3×(2×0.14)) (0.5): BK, RD 0.14: BK/BN, RD/OG, GN/YE	1BD31*	8.7	0.343	86	46
111458	(2×0.5+3×(2×0.14)+4×0.14) 0.5: BNBU, BNRD (0.14) BK/BN, RD/OG, GN/YE 0.14: BU, GY, WHBK, WHYE	1BD41*	8.6	0.339	82	41
111457	(2×0.5+3×(2×0.14)+ 4×0.23+4×0.14) 0.5: BNBU, BNRD 0.23: GNBK, GNRD, BNYE, BNGY (0.14) BK/BN, RD/OG, YEGN 0.14: BU, GY, WHBK, WHYE	1BD51*	9.8	0.386	103	62

### For Siemens DRIVE-CLiQ Standard System\* and similar

104002	(2×2×AWG24+1×2×AWG22) AWG24: PK/BU, YE/GN AWG22: RD/BK	2DC00*	7.0	0.275	65	21
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