LUTZE SUPERFLEX® TRONIC (C) PUR, Shielded

High Flexing Electronic Cable for Continuous Motion Applications

Application

- Shielded multi-conductor cable for robots, handling equipment, machine tools, drag chains and applications with extremely rough operating conditions
- For the most demanding flexing applications such as drag chains and linear flexing
- Compatible with all major drag chain brands
- Compliant with NFPA 79, Article 12.9

Characteristics

- Super finely stranded per Class 6 for continuous moving applications
- PUR jacket and TPE conductor insulation for use in extremely harsh operating conditions
- Highest level of resistance against cooling fluids, greases and oils
- Abrasion, high wear and tear resistance
- Hydrolysis, microbe and rot resistant
- Dry, wet and damp conditions
- UV resistant
- Talc and silicone free

Technical Data

Voltage	300V	
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
Conductor marking	Color coded per DIN EN 50334 or DIN 47100	
Insulation resistance	Min. 100MΩ x km	
Burning behavior	Flame retardant per DIN EN 60332-2-2 IEC 60332-2-2 UL 1581 FT-2	
Halogen free	According to DIN EN 60754-1	
Oil resistance	Oil Res II	
Approvals	AWM 20549 80C 300V RoHS, REACH	

Construction

- Metric conductor
- Bare copper super finely stranded per DIN VDE 0295 Class 6 and IEC 60228 Class 6
- Special TPE conductor insulation
- Layer pitch optimized
- Fleece wrap over cabled conductors
- Tinned copper braid shield, optical coverage ≥ 85 %
- PUR jacket, matte, adhesion-free surface
- Extremely oil resistant PUR jacket
- Gray jacket similar to RAL 7001

Part No.	Description No. of conductors	OD / Ø ca. mm	OD / Ø inches	Weight Lbs/Mft	Copper Lbs/Mft
	AWG26 / 0.14 mm²				
117092	(4x0.14)	4.7	0.185	17.5	9.5
117093	(5x0.14)	5.0	0.197	20	11.5
117094	(7x0.14)	5.7	0.224	26	14
117095	(10x0.14)	6.3	0.248	32	19
117096	(12x0.14)	6.5	0.256	36	21
117097	(18x0.14)	7.3	0.287	48	28
	AWG 24 / 0.25 mm²				
117099	(2x0.25)	4.6	0.181	18	9
117100	(3x0.25)	4.7	0.185	20	11
117101	(4x0.25)	5.0	0.197	24	13
117102	(5x0.25)	5.3	0.209	27	15
117103	(7x0.25)	6.1	0.240	34	21
117104	(10x0.25)	6.9	0.272	43	28
117105	(12x0.25)	7.0	0.276	46	36
117106	(18x0.25)	8.0	0.315	65	43
117107	(25x0.25)	9.5	0.374	85	57
	AWG 22 / 0.34 mm²				
117108	(2x0.34)	4.7	0.185	20	10
117109	(3x0.34)	4.9	0.193	23	13
117110	(4x0.34)	5.3	0.209	27	16
117111	(5x0.34)	5.6	0.220	31	19
117112	(7x0.34)	6.5	0.256	39	25
117113	(10x0.34)	7.3	0.287	50	34
117124	(15x0.34)	8.2	0.323	68	50
117115	(18x0.34)	8.6	0.339	77	54
117116	(25x0.34)	10.2	0.402	107	77

Specifications are subject to change without prior notice