

LUTZE SUPERFLEX® TRONIC (C) PUR TP, 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
- Non-wicking fillers
- 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 for twisted pairs
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

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
AWG 24 / 0.25 mm²					
117170	(2x2x0.25)	6.2	0.244	30	15
117171	(3x2x0.25)	6.5	0.256	34	19
117172	(4x2x0.25)	6.8	0.268	38	23
117173	(5x2x0.25)	7.7	0.303	49	27
117177	(6x2x0.25)	8.1	0.319	54	32
117174	(8x2x0.25)	9.4	0.370	75	40
117175	(10x2x0.25)	10.5	0.413	83	53
117176	(12x2x0.25)	10.8	0.425	95	61
AWG 22 / 0.34 mm²					
117180	(2x2x0.34)	6.5	0.256	32	17
117181	(3x2x0.34)	6.8	0.268	39	23
117182	(4x2x0.34)	7.4	0.291	47	28
117185	(8x2x0.34)	10.0	0.394	87	56
AWG 21 / 0.5 mm²					
117190	(2x2x0.5)	7.1	0.280	40	23
117191	(3x2x0.5)	7.5	0.295	48	30
117303	(4x2x0.5)	8.3	0.327	59	38
117193	(6x2x0.5)	9.9	0.390	91	54
AWG 19 / 0.75 mm²					
117199	(2x2x0.75)	8.3	0.327	56	32
117202	(4x2x0.75)	9.7	0.382	86	55