

LÜTZE SUPERFLEX® Tronic (C) PUR TP, Shielded

High Flexing Electronic Cable with UL/CE Approvals



Application

- Multi-conductor cable for robots, handling equipment, machine tools, C-tracks and applications with extremely rough operating conditions
- For the most demanding flexing applications such as C-tracks and linear flexing
- Compatible with all major brand C-tracks

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 and hydrolysis resistant, low water absorption
- Dry, wet and damp conditions
- UV resistant
- Non-wicking fillers
- Talc and Silicone free

Technical Data

Voltage	300V UL AWM
Temperature	Moving -25°C - +80°C
	Fixed -40°C - +80°C
Minimum bending radius	Moving 12 x cable OD
	Fixed 6 x cable OD
Conductor marking	Color coded per DIN EN 50334 or DIN 47100 for twisted pairs
Isolation resistance	Min 20MΩ x km
Burning behavior	Flame retardant per VDE 0482 part 265-2
	DIN EN 50265-2
	UL VW-1, CSA FT1
	Flame test IEC 60332-1
Halogen free	According to DIN EN 50267-2-1
Oil resistance	Oil Res II
Approvals	UL AWM 20233
	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
- G: with GNYE ground conductor
x: without ground conductor
- 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 RAL 7001

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)	6.3	0.248	55	15
117171	(3x2x0.25)	6.6	0.260	61	19
117172	(4x2x0.25)	7.1	0.280	69	23
117173	(5x2x0.25)	7.5	0.295	79	27
117177	(6x2x0.25)	8.1	0.319	88	32
117174	(8x2x0.25)	9.4	0.370	108	40
117175	(10x2x0.25)	10.5	0.413	128	53
117176	(12x2x0.25)	10.8	0.425	139	61
AWG 22 / 0.34 mm²					
117180	(2x2x0.34)	6.6	0.260	62	17
117181	(3x2x0.34)	6.9	0.272	69	23
117182	(4x2x0.34)	7.4	0.291	79	28
117184	(6x2x0.34)	8.6	0.339	101	40
117185	(8x2x0.34)	10.0	0.394	129	56
117187	(12x2x0.34)	11.1	0.437	162	77
AWG 20 / 0.5 mm²					
117190	(2x2x0.5)	7.3	0.287	73	23
117191	(3x2x0.5)	7.7	0.303	83	30
117303	(4x2x0.5)	8.2	0.323	95	38
117193	(6x2x0.5)	9.9	0.390	124	54
117194	(8x2x0.5)	11.2	0.441	160	75
117196	(12x2x0.5)	13.0	0.512	203	105