

LUTZE SUPERFLEX® TRONIC PUR, Unshielded

High Flexing Electronic Cable for Continuous Motion Applications



Application

- 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 10 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
Halogen free	FT-2
	According to
	DIN EN 60754-1
Oil resistance	Oil Res II
Approvals	AWM 20549 80C 300V RoHS, REACH, TSCA

Part No.	Description No. of conductors	OD / Ø ca. mm	OD / Ø inches	Weight Lbs/Mft	Copper Lbs/Mft
AWG 24 / 0.25 mm²					
117039	2x0.25	4.1	0.161	12	3
117040	3x0.25	4.2	0.165	14	5
117041	4x0.25	4.5	0.177	17	7
117042	5x0.25	4.8	0.189	19	8
117043	7x0.25	5.6	0.220	25	11
117044	10x0.25	6.3	0.248	33	16
117028	15x0.25	7.1	0.280	46	24
117046	18x0.25	7.6	0.299	53	29
117047	25x0.25	8.9	0.350	71	40
AWG 22 / 0.34 mm²					
117048	2x0.34	4.3	0.169	13	6
117049	3x0.34	4.5	0.177	16	7
117050	4x0.34	4.8	0.189	19	9
117051	5x0.34	5.2	0.205	23	11
117052	7x0.34	6.0	0.236	30	15
117053	10x0.34	6.9	0.272	40	20
117029	15x0.34	7.8	0.307	56	30
117056	25x0.34	9.6	0.378	86	52

Color Code Table

1-	WH	13-	WH/GN
2-	BN	14-	BN/GN
3-	GN	15-	WH/YE
4-	YE	16-	YE/BN
5-	GY	17-	WH/GY
6-	PK	18-	GY/BN
7-	BU	19-	WH/PK
8-	RD	20-	PK/BN
9-	BK	21-	WH/BU
10-	VT	22-	BN/BU
11-	GY/PK	23-	WH/RD
12-	RD/BU	24-	BN/RD
		25-	WH/BK

Construction

- Metric conductor
- Bare copper super finely stranded per DIN VDE 0295 Class 6 or IEC 60228 Class 6
- TPE conductor insulation
- Layer pitch optimized
- Fleece wrap over cabled conductors
- 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