LUTZE SUPERFLEX® Plus N (C) PUR, Shielded

High Flexing Control 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
- High performance linear flexing cable, compliant with **NFPA 79, 2012 Edition** Article 12.9 special cables and conductors

Characteristics

- Superfine stranding per Class 6 for continuous moving applications
- Extremely small cable ODs due to special **TPE High Glide Insulation** compliant with UL
- Reduced friction
- Highest level of resistance against cooling fluids, greases and oils
- Abrasion, high wear and tear resistance
- Hydrolysis, microbe and decompose resistant
- Dry and wet conditions
- UV resistant
- Non-wicking fillers
- Talc and Silicone free

Technical Data

Voltage	300/600V UL AWM	
Temperature	Moving	-25°C - +80°C
	Fixed	-40°C - +80°C
Minimum bending radius	Moving	10 x cable OD
	Fixed	6 x cable OD
Conductor marking	Black with white numbers and one green/yellow ground	
Isolation resistance	Min 100MΩ x km	
Burning behavior	Flame retardant per DIN EN 60332-1-2 IEC 60332-1, UL VW-1 FT1	
Halogen free	According to DIN EN 60754-1	
Oil resistance	Oil Res II	
Approvals	RoHS, REACH	

Construction

- Metric conductor
- Bare copper wire super finely stranded per DIN VDE 0295 Class 6 and IEC 60228 Class 6
- Special TPE conductor insulation
- G: with GNYE ground conductor
- Optimized construction for flexing applications
- Conductors cabled with fleece wrap
- TPE subjacket for long flex life
- Tinned copper braid shield
- Extremely oil resistant PUR jacket
- Gray jacket RAL 7001

Specifications are subject to change without prior notice

Part No.	Description No. of conductors incl. ground	OD / Ø ca. mm	OD / Ø inches	Weight Lbs/Mft	Copper Lbs/Mft
300V UL AWM Style 20233					
	AWG 21 / 0.5 mm²				
113300	(3G0.5)	6.6	0.260	38	18
113347	(4G0.5)	7.0	0.276	43	22
113301	(5G0.5)	7.5	0.295	49	26
113302	(7G0.5)	8.3	0.327	61	34
113303	(12G0.5)	9.7	0.382	86	53
113304	(18G0.5)	11.0	0.433	120	80
113305	(25G0.5)	12.0	0.472	157	107
	AWG 18 / 1.0 mm²				
113312	(3G1.0)	7.8	0.307	61.1	30
113324	(4G1.0)	8.3	0.327	71.2	38
113313	(5G1.0)	9.1	0.358	82.0	46
113314	(7G1.0)	10.2	0.402	104.8	61
113315	(12G1.0)	12.1	0.476	161.3	103
113316	(18G1.0)	14.0	0.551	217.7	147
113317	(25G1.0)	15.8	0.622	295.7	204
600V UL AWM Style 20234					
	AWG 16 / 1.5 mm²				
113318	(3G1.5)	9.7	0.382	84	42
113331	(4G1.5)	10.5	0.413	99	58
113319	(5G1.5)	11.2	0.441	120	70
113320	(7G1.5)	12.8	0.504	153	93
113321	(12G1.5)	14.9	0.587	222	147
113322	(18G1.5)	17.2	0.677	308	217
113323	(25G1.5)	20.1	0.791	425	310
	AWG 14 / 2.5 mm²				
113341	(3G2.5)	10.9	0.429	113	64
113332	(4G2.5)	11.8	0.465	142	86
113339	(5G2.5)	12.6	0.496	165	105
113340	(7G2.5)	14.6	0.575	214	142
113344	(12G2.5)	17.4	0.685	325	236
113342	(18G2.5)	19.9	0.783	466	356