

LUTZE SUPERFLEX® Plus N PUR, Unshielded

High Flexing Control 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 chains brands
- Compliant with NFPA 79, Article 12.9

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
- PUR jacket
- Highest level of resistance against cooling fluids, greases and oils
- Abrasion, high wear and tear resistance
- Hydrolysis, microbe, and rot resistant
- Dry and wet conditions
- UV resistant
- Non-wicking fillers
- Talc and silicone free

Technical Data

Voltage	300/600V 80C AWM
Temperature range	Moving -25°C - +80°C Fixed -40°C - +80°C
Bending radius min	Moving 7.5 x cable OD Fixed 4 x cable OD
Conductor marking	Black with white numbers and one green/yellow ground; *no ground included
Insulation 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
x: without ground conductor
- Optimized construction for flexing applications
- Conductors cabled with fleece wrap
- Extremely oil resistant PUR jacket
- Gray jacket similar to RAL 7001

Part No.	Description No. of conductors incl. ground	OD / Ø ca. mm	OD / Ø inches	Weight Lbs/Mft	Copper Lbs/Mft
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300V UL AWM Style 20233

AWG 21 / 0.5 mm ²					
113431	2x0.5*	4.8	0.189	19	7
113441	3G0.5	5.0	0.197	24	10
113442	4G0.5	5.4	0.213	28	13
113443	5G0.5	5.8	0.228	32	16
113444	7G0.5	6.7	0.264	43	23
113446	12G0.5	8.0	0.315	65	40
113438	18G0.5	9.3	0.366	91	59
113447	25G0.5	11.0	0.433	122	82
AWG 18 / 1.0 mm ²					
113484	2x1.0*	5.6	0.220	31.5	13
113400	3G1.0	5.9	0.232	33.5	20
113433	4G1.0	6.4	0.252	48.2	27
113401	5G1.0	7.0	0.276	57.0	34
113402	7G1.0	8.2	0.323	77.1	46
113403	12G1.0	9.8	0.386	120.6	80
113404	18G1.0	11.4	0.449	180.9	119
113405	25G1.0	13.6	0.535	227.1	166

600V UL AWM Style 20234

AWG 18 / 1.0 mm ²					
113570	2x1.0*	7.1	0.280	40	13
113571	3G1.0	7.4	0.291	48	20
113572	4G1.0	8.0	0.315	57	27
113573	5G1.0	8.7	0.343	68	34
113574	7G1.0	10.0	0.394	89	46
113575	12G1.0	12.0	0.472	135	80
113576	18G1.0	13.8	0.543	189	120
113577	25G1.0	16.4	0.646	255	167
AWG 16 / 1.5 mm ²					
113485	2x1.5*	7.7	0.303	52	19
113406	3G1.5	8.0	0.315	62	30
113412	4G1.5	8.8	0.346	76	40
113407	5G1.5	9.5	0.374	89	50
113408	7G1.5	11.0	0.433	118	69
113409	12G1.5	13.2	0.520	180	118
113410	18G1.5	15.3	0.602	255	178
113411	25G1.5	18.2	0.717	346	247
AWG 14 / 2.5 mm ²					
113483	3G2.5	9.2	0.362	89	49
113415	4G2.5	10.0	0.394	109	66
113416	5G2.5	10.9	0.429	130	82
113417	7G2.5	12.8	0.504	174	114
113426	12G2.5	15.3	0.602	271	192
113479	18G2.5	17.8	0.701	388	294

Specifications are subject to change without prior notice