LUTZE SUPERFLEX® Plus 3000/4000 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
- Highest level of resistance against cooling fluids, greases and oils
- Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures
- 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	300/1000V 90C AWM
Temperature range	Moving -25°C - +90°C
	Fixed -40°C - +90°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	UL AWM 21209 RoHS, REACH, TSCA

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
3000 Series - 300V					
	AWG 21 / 0.5 mm²				
113032	2x0.5*	4.8	0.189	20	6
113033	3G0.5	5.0	0.197	24	10
113034	4G0.5	5.4	0.213	29	13
113035	5G0.5	5.8	0.228	33	16
113036	7G0.5	6.7	0.264	44	23
113037	12G0.5	8.0	0.315	66	40
113038	18G0.5	9.3	0.366	91	59
113039	25G0.5	11.0	0.433	122	88
	AWG 18 / 1.0 mm²				
113049	2x1.0*	5.6	0.220	28	13
113050	3G1.0	5.9	0.232	36	20
113051	4G1.0	6.4	0.252	45	26
113052	5G1.0	7.0	0.276	54	32
113053	7G1.0	8.2	0.323	73	46
113054	12G1.0	9.8	0.386	113	80
113055	18G1.0	11.4	0.449	180.9	121
113056	25G1.0	13.6	0.535	227.1	175
4000 Series - 1000V					
	AWG 18 / 1.0 mm²				
113100	2x1.0*	6.0	0.236	30	13
113101	3G1.0	6.3	0.248	39	19
113102	4G1.0	6.9	0.272	48	26
113103	5G1.0	7.5	0.295	58	32
113104	7G1.0	8.7	0.342	77	46
113105	12G1.0	10.3	0.405	119	80
113106	18G1.0	11.9	0.469	189	120
113107	25G1.0	14.7	0.579	255	176
	AWG 16 / 1.5 mm²				
113108	2x1.5*	7.0	0.276	42	19
113109	3G1.5	7.3	0.287	53	29
113110	4G1.5	7.9	0.311	67	40
113111	5G1.5	8.6	0.339	81	49
113112	7G1.5	10.3	0.406	113	68
113113	12G1.5	12.1	0.476	173	118
113114	18G1.5	14.1	0.555	255	180
113115	25G1.5	17.4	0.685	346	259
	AWG 14 / 2.5 mm²				
113117	3G2.5	8.3	0.327	74	47
113118	4G2.5	9.1	0.358	96	65
113119	5G2.5	10.1	0.398	119	82
113120	7G2.5	12.2	0.480	166	115
113121	12G2.5	15.0	0.591	264	198
113122	18G2.5	17.5	0.689	388	290

Specifications are subject to change without prior notice