

LUTZE SUPERFLEX® Plus 3100/4100 (C) PUR, Shielded

High Flexing Control Cable for Continuous Motion Applications



Application

- Shielded 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 5 x cable OD
Conductor marking	Black with white numbers and one green/yellow ground
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
- 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 similar to 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
----------	--	------------------	------------------	-------------------	-------------------

3100 Series - 300V

AWG 21 / 0.5 mm ²					
113070	(3G0.5)	6.6	0.260	39	18
113071	(4G0.5)	7.0	0.276	45	23
113072	(5G0.5)	7.4	0.295	52	26
113073	(7G0.5)	8.3	0.327	64	35
113074	(12G0.5)	9.7	0.382	95	55
113075	(18G0.5)	11.0	0.433	120	89
113076	(25G0.5)	13.1	0.516	157	121

AWG 18 / 1.0 mm ²					
113087	(3G1.0)	7.8	0.307	60	31
113088	(4G1.0)	8.3	0.327	70	38
113089	(5G1.0)	9.0	0.354	83	46
113090	(7G1.0)	10.2	0.402	114	70
113091	(12G1.0)	12.1	0.476	166	109
113092	(18G1.0)	13.7	0.539	217.7	158
113093	(25G1.0)	16.0	0.623	295.7	218

4100 Series - 1000V

AWG 16 / 1.5 mm ²					
113220	(3G1.5)	9.4	0.370	84	42
113221	(4G1.5)	10.0	0.394	100	53
113222	(5G1.5)	11.0	0.433	126	73
113223	(7G1.5)	13.0	0.512	174	99
113224	(12G1.5)	15.2	0.598	248	156
113225	(18G1.5)	17.4	0.685	308	225
113227	(25G1.5)	21.0	0.827	425	331

AWG 14 / 2.5 mm ²					
113228	(3G2.5)	10.8	0.425	120	72
113229	(4G2.5)	11.9	0.469	151	91
113230	(5G2.5)	12.9	0.508	181	111
113231	(7G2.5)	15.2	0.598	244	153
113232	(12G2.5)	17.7	0.697	351	243