

LUTZE SUPERFLEX® N PVC, Unshielded

High Flexing Control Cable for Continuous Motion Applications



Application

- Suitable for control, monitoring and instrumentation applications with continuous flexing cycles
- For flexing applications such as drag chains and other applications where linear flexing occurs
- Compatible with all major drag chain brands
- Compliant with NFPA 79, Article 12.9

Characteristics

- Extremely small cable ODs due to special TPE High Glide insulation compliant with UL
- TPE/PVC combination for high performance flexing and longer cable runs
- Very flexible with superfine stranding
- Specially formulated PVC jacket per UL Class 43
- Non-wicking fillers
- Abrasion, high wear and tear resistance
- Hydrolysis, microbe and rot resistant
- UV resistant according to UL 1581
- Dry and wet conditions
- Talc and silicone free

Technical Data

Voltage	600V 105C AWM
Test voltage	3000V
Insulation resistance	Min 100 MΩ x km
Temperature range	Moving -15°C - +90°C Fixed -40°C - +105°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
Burning behavior	Flame retardant per UL VW-1, DIN EN 50265-2-1 FT1
Oil resistance	4D100C, UL Oil res 80°C and DIN EN 60811-2-1
Approvals	cUL AWM Style 2586 CE RoHS, REACH

Construction

- Metric conductor
- Bare copper 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
- Special high strength PVC jacket per UL class 43 / VDE 0207 TM5, oil resistant
- 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
AWG 21 / 0.5 mm²					
A1482003	3G0.5	5.2	0.205	29	10
A1482004	4G0.5	5.6	0.220	34	13
A1482005	5G0.5	6.1	0.240	42	16
A1482007	7G0.5	7.2	0.283	58	23
A1482012	12G0.5	8.6	0.339	83	39
A1482018	18G0.5	10.3	0.406	125	58
A1482025	25G0.5	12.6	0.496	177	80
AWG 18 / 1.0 mm²					
A1481803	3G1.0	6.1	0.240	44	19
A1481804	4G1.0	6.7	0.264	53	26
A1481805	5G1.0	7.2	0.283	65	32
A1481807	7G1.0	8.5	0.335	92	45
A1481812	12G1.0	10.6	0.417	141	77
A1481818	18G1.0	12.7	0.500	211	116
A1481825	25G1.0	15.3	0.602	291	161
A1481834	34G1.0	17.4	0.685	392	218
AWG 16 / 1.5 mm²					
A1481603	3G1.5	7.0	0.276	59	28
A1481604	4G1.5	7.7	0.303	73	38
A1481605	5G1.5	8.4	0.331	90	47
A1481607	7G1.5	10.2	0.402	132	66
A1481612	12G1.5	12.7	0.500	203	113
A1481618	18G1.5	14.8	0.583	294	169
A1481625	25G1.5	18.2	0.717	417	235
AWG 14 / 2.5 mm²					
A1481404	4G2.5	8.6	0.339	102	62
A1481405	5G2.5	9.7	0.382	132	77
A1481407	7G2.5	11.9	0.469	194	108
AWG 12 / 4 mm²					
A1481204	4G4	11.0	0.433	180	112
A1481207	7G4	15.0	0.591	328	195