

LUTZE SUPERFLEX® N PVC, Unshielded

High Flexing Control Cable with UL/CE Approvals



Application

- Suitable for control, monitoring and instrumentation applications with continuous flexing cycles
- For flexing applications such as C-tracks and other applications where linear flexing occurs
- 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

- 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 decompose resistant
- UV resistant per EN ISO 4892-2-A
- Dry and wet conditions
- Talc and Silicone free

Technical Data

Voltage	600V UL AWM
Test voltage	3000V
Insulation resistance	Min 100 MΩ x km
Temperature	Moving -5°C - +80°C Fixed -40°C - +80°C
Minimum Bending radius	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 60332-1-2
Oil resistance	4D100C, UL Oil res 80°C and DIN EN 60811-404
Approvals	cUL AWM Style 20207 FT1 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
x: without 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

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					
A1382003	3G0.5	5.7	0.224	30	10
A1382004	4G0.5	6.1	0.240	36	13
A1382005	5G0.5	6.7	0.264	42	16
A1382007	7G0.5	7.7	0.303	53	23
A1382012	12G0.5	9.3	0.366	78	39
A1382018	18G0.5	10.7	0.421	109	59
A1382025	25G0.5	12.5	0.492	146	82
AWG 18 / 1.0 mm²					
A1381803	3G1.0	6.6	0.260	44	20
A1381804	4G1.0	7.2	0.283	54	27
A1381805	5G1.0	7.8	0.307	64	33
A1381807	7G1.0	9.1	0.358	83	46
A1381812	12G1.0	10.8	0.425	127	80
A1381818	18G1.0	12.7	0.500	179	120
A1381825	25G1.0	15.1	0.594	243	166
A1381834	34G1.0	17.8	0.701	318	226
A1381841	41G1.0	19.0	0.750	325	274
A1381850	50G1.0	21.3	0.839	332	335
AWG 16 / 1.5 mm²					
A1381603	3G1.5	7.2	0.283	58	30
A1381604	4G1.5	7.8	0.307	71	40
A1381605	5G1.5	8.6	0.339	84	49
A1381607	7G1.5	10.1	0.398	111	69
A1381612	12G1.5	12.4	0.488	173	119
A1381618	18G1.5	14.5	0.571	246	178
A1381625	25G1.5	16.8	0.661	336	231
AWG 14 / 2.5 mm²					
A1381404	4G2.5	9.1	0.358	107	65
A1381405	5G2.5	10.0	0.394	127	82
A1381407	7G2.5	12.1	0.476	170	115
AWG 12 / 4 mm²					
A1381204	4G4	10.7	0.421	154	105
A1381207	7G4	14.0	0.551	253	183

Specifications are subject to change without prior notice