LUTZE SUPERFLEX® N (C) PVC, Shielded

High Flexing Control Cable for Continuous Motion Applications

Application

- Shielded multi-conductor high flexing cable suitable for control, monitoring and instrumentation applications with continuous flexing in drag chains
- Machine tools, gantry robots, conveyors and other continuous motion applications in industrial environments
- 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
- Sub-jacket for increased flex life in high performance flexing and long 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 100MΩ x km	
Temperature range	Moving	-15°C - +90°C
	Fixed	-40°C - +105°C
Bending radius min	Moving	10 x cable OD
	Fixed	6 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
- PVC sub-jacket
- Tinned copper braid shield
- 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				
A1492003	(3G0.5)	6.7	0.264	53	19
A1492004	(4G0.5)	7.1	0.280	60	23
A1492005	(5G0.5)	7.8	0.307	74	28
A1492007	(7G0.5)	9.0	0.354	98	37
A1492012	(12G0.5)	10.9	0.429	141	56
A1492018	(18G0.5)	12.5	0.492	194	121
A1492025	(25G0.5)	14.7	0.579	259	164
	AWG 18 / 1.0 mm²				
A1491803	(3G1.0)	7.7	0.303	74	31
A1491804	(4G1.0)	8.4	0.331	89	39
A1491805	(5G1.0)	9.0	0.354	105	46
A1491807	(7G1.0)	10.9	0.429	151	62
A1491812	(12G1.0)	12.9	0.508	213	101
A1491818	(18G1.0)	14.7	0.579	293	145
A1491825	(25G1.0)	18.2	0.717	436	220
A1491834	(34G1.0)	20.9	0.823	585	290
	AWG 16 / 1.5 mm²				
A1491603	(3G1.5)	8.8	0.346	98	42
A1491604	(4G1.5)	9.6	0.378	118	53
A1491605	(5G1.5)	10.7	0.421	147	66
A1491607	(7G1.5)	12.4	0.488	201	90
A1491612	(12G1.5)	14.7	0.579	285	143
A1491618	(18G1.5)	17.1	0.673	369	212
A1491625	(25G1.5)	21.2	0.835	409	308
	AWG 14 / 2.5 mm²				
A1491404	(4G2.5)	11.0	0.433	146	63
A1491405	(5G2.5)	12.0	0.472	200	100
A1491407	(7G2.5)	14.0	0.551	271	134
	AWG 12 / 4 mm²				
A1491204	(4G4)	13.2	0.520	254	136