

LUTZE SUPERFLEX® PVC Control Cable







Unshielded High Flexing Control Cable

Shielded High Flexing Control Cable

LUTZE SUPERFLEX® control cable from AutomationDirect is available in sizes from 21AWG to 12AWG with 3 to 34 unshielded conductors. Individual conductors are bare copper and stranded for flexibility, with black PVC/Nylon insulation and marked with numbers for easy identification. A convenient insulated ground conductor, green with a yellow stripe, is included in the conductor count of each cable.

Well suited for articulated drag chain (C-tracks) installations where moderate to high performance is required. Designed for flexing in short to medium length drag chains.

LUTZE SUPERFLEX[®] PVC is offered with High Glide TPE insulation and with a specially formulated PVC jacket. The PVC outer jacket is resistant to sunlight, oil, and moisture penetration, making this cable suitable for indoor wet and dry applications or outdoor installations.

With multiple ratings and approvals, LUTZE SUPERFLEX® PVC multiconductor control cable has the versatility to meet a wide range of industrial applications. These flexible multi-conductor cables provide an economical way to organize and simplify control wiring in machines and facilities. Suitable for continuous flexing applications, these cables are ideal for both stationary and flexing applications with limited mechanical stress and free movement without any tensile stress, loads or forced movements.

Available cut to length in 1 foot increments with a 20 foot minimum length.

Flex Cycles Traveling Distances Bending Radius Speed Acceleration Cycles > 12 Ø < 3m/s 10,000,000 < 16ft / 5m $< 5 m/s^{2}$ A148 Series < 49ft / 15m > 10 Ø < 10m/s² 5,000,000 < 5m/s 10,000,000 < 16ft / 5m > 15 Ø < 3m/s < 5m/s² A149 Series < 49ft / 15m > 12 Ø < 5m/s $< 10 m/s^{2}$ 5,000,000

Features

- 21AWG to 12AWG, 3 to 34 conductors including an equal size green/yellow ground
- Unshielded and shielded constructions
- Individual conductors have black PVC/TPE insulation and are marked with identification numbers
- Oil resistant PVC outer jacket
- UV resistant PVC outer jacket
- Multiple ratings and approvals include cUL AWM Style 2586; CE, RoHS, REACH
- Flexible for ease of installation
- Designed for linear constant motion
- Ideal for C-Track dragchain installations
- Cut to length in 1 foot increments
- Low 20 foot minimum length
- Made in the USA





STEMATIC TECHNOLOGY 0.5 mm² (21AWG) Unshielded Continuous Flexing Control Cable

0.5 mm² (21AW0	0.5 mm ² (21AWG) Continuous Flexing Control Cable Specifications (Unshielded)							
Conductors Gauge & Stranding	0.5 mm ² (21AWG) 28x0.15 bare copper	Outer Jacket	Gray PVC					
Voltage Ratings	600V per UL	UV Resistance	Yes, UL 1581					
Voltage Hattings	Tested to 3000V	Oil Resistance	Yes					
Min. Bend Radius	Moving, 7.5 x diameter	Flame Retardant	Per UL VW-1, FT-1, DIN EN 50265-2-1 FT1					
MIII. DEIIU RAUIUS	Fixed, 4.0 x diameter Silicone-free		Yes					
Temperature Ratings	Moving, 5°F to +194°F (-15°C to +90°C)	Approvals	cUL AWM Style 2586, CE, RoHS, REACH					
Temperature Ratings	Fixed, -40°F to +221°F (-40°C to +105°C)		LUTZE SUPERFLEX® N PVC CONSTANT					
Conductor Insulation	TPE High Glide with green/yellow ground	Sample Print Legend	FLEXING CABLE OIL RESISTANT FRPP/ PVC A14820XX XG0.5 MM2 (AWG21/XC) E197090 cURus AWM STYLE 2586 105C					
Conductor Markings	Black with White numbers		600V VW-1 AWM I/II A/B 105C 600V FT1 ROHS DATE CODE CE-40					

Part Number	Number of Conductors (includes ground)	AWG	Strand	Maximum O.D. (Inches ±10%)	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per foot
			I ЙТ2F	SUPERFLEX*			Ute 1
<u>A1482003-1</u>	3	0.5 mm ² (21AWG)	28	0.205	20	0.029	\$0.99
							Two 2
			LOTZE	SUPERFLEX*			Three 3 (WO 2
<u>A1482004-1</u>	4	0.5 mm ² (21AWG)	28	0.220	20	0.034	\$1.59
				LOTZE SUPE	RFLEW	-	Ford
<u>A1482005-1</u>	5	0.5 mm ² (21AWG)	28	0.240	20	0.042	\$2.14
					UPERFLEX		Dr.6
				LUTZE	OPENLEY		9 r 6 9 r 9 9 r 9 7 8 r 9 7 7 8 r 9 7 7 7 8 r 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
<u>A1482007-1</u>	7	0.5 mm ² (21AWG)	28	0.283	20	0.058	\$2.23
	·						·
				LÖTZE SUPERFL	EX.		Erven f Irres J 2702 L One 1 o j
A1482012-1	12	0.5 mm ²	28	0.339	20	0.083	\$3.30

* See web store for maximum cut lengths





Please Note: Our prices on Flexing Control Cable are closely tied to the market price for copper. This allows us to offer the best savings possible if conditions are favorable; however, it also means that our prices may increase if market conditions warrant.

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0.5 n	nm² (21AWG)	Continu	ious Flex	ing Control C	able (Uns	hielded)	
Part Number	Number of Conductors (includes ground)	AWG	Strand	Maximum O.D. (Inches ±10%)	Minimum Cut Length (ft)*	Approximate Weight (Ib/ft)	Price per foot
				LÜTZ	E SUPERFLEX*		Science 17
							TRO Z
<u>A1482018-1</u>	18	0.5 mm² (21AWG)	28	0.406	20	0.125	\$4.24
				LOTZI	E SUPERFLEX*		Trenty For 2
							Three 3 Four d
<u>A1482025-1</u>	25	0.5 mm ² (21AWG)	28	0.496	20	0.177	\$5.44



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TEMATIC

1.0 mm² (18AWG) Unshielded Continuous Flexing Control Cable

1.0 mm ² (18AWG) Continuous Flexing Control Cable Specifications (Unshielded)						
Conductors Gauge & Stranding	1.0 mm ² (18AWG) 56x0.15 bare copper	² (18AWG) 56x0.15 bare copper Outer Jacket				
Voltage Ratings	600V per UL	UV Resistance	Yes, UL 1581			
Voltage Hattings	Tested to 3000V	Oil Resistance	Yes			
Min. Bend Radius	Moving, 7.5 x diameter	Flame Retardant	Per UL VW-1, FT-1, DIN EN 50265-2-1 FT1			
	Fixed, 4.0 x diameter Silicone-free		Yes			
Tomporatura Datinga	Moving, 5°F to +194°F (-15°C to +90°C)	Approvals	cUL AWM Style 2586, CE, RoHS, REACH			
Temperature Ratings	Fixed, -40°F to +221°F (-40°C to +105°C)		LUTZE SUPERFLEX® N PVC CONSTANT			
Conductor Insulation	TPE High Glide with green/yellow ground	Sample Print Legend	FLEXING CABLE OIL RESISTANT FRPP/ PVC A14818XX XG0.5 MM2 (AWG18/XC) E197090 cURus AWM STYLE 2586 105C			
Conductor Markings	Black with White numbers		600V VW-1 AWM I/II A/B 105C 600V FT1 ROHS DATE CODE CE-40			

	1.0 mm ² (18AWG)) Continu	ous Flexi	ing Control Ca	able (Unsh	ielded)	
Part Number	Number of Conductors (includes ground)	AWG	Strand	Maximum O.D. (Inches ±10%)	Minimum Cut Length (ft)*	Approximate Weight (Ib/ft)	Price per fool
							1wo 2
			LOTZE SUPE	RFLEX*			
<u>A1481803-1</u>	3	1.0 mm² (18AWG)	56	0.240	20	0.044	\$1.71
			LÜTZE SUPER	RFLEX		Thre	two 2
<u>A1481804-1</u>	4	1.0 mm² (18AWG)	56	0.264	20	0.053	\$2.04
				LUTZE SUPERFLEX			For 4
<u>A1481805-1</u>	5	1.0 mm² (18AWG)	56	0.283	20	0.065	\$2.34
				LOTZE SUPERFLEW	-		Six 6 Six 6 These 3 1903
<u>A1481807-1</u>	7	1.0 mm² (18AWG)	56	0.335	20	0.092	\$3.03
				LÖTZE SUFERFLEX			Erven 11 Trans J - Vig 21 One 1 - og 2
<u>A1481812-1</u>	12	1.0 mm² (18AWG)	56	0.417	20	0.141	\$4.12

* See web store for maximum cut lengths



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1.0 mm² (18AWG) Unshielded SYSTEMATIC TECHNOLOGY Continuous Flexing Control Cable

	1.0 mm² (18AWG)	Continu	ous Flexi	ng Control Ca	ble (Unsh	ielded)	
Part Number	Number of Conductors (includes ground)	AWG	Strand	Maximum O.D. (Inches ±10%)	Minimum Cut Length (ft)*	Approximate Weight (Ib/ft)	Price per foot
				LOT	ZE SUPERFLEX		Evident 1 Formations 1 California (San California) Timo 2
<u>A1481818-1</u>	18	1.0 mm² (18AWG)	56	0.500	20	0.211	\$5.93
				LÜTZ	E SUPERFLEX [®]		Twenty From 3
<u>A1481825-1</u>	25	1.0 mm² (18AWG)	56	0.602	20	0.291	\$8.25
				LOTZ	E SUPERFLEX*		Three 3
<u>A1481834-1</u>	34	1.0 mm² (18AWG)	56	0.685	20	0.392	\$10.86



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STEMATIC TECHNOLOGY 1.5 mm² (16AWG) Unshielded Continuous Flexing Control Cable

1.5 mm ² (16AW)	1.5 mm ² (16AWG) Continuous Flexing Control Cable Specifications (Unshielded)						
Conductors Gauge & Stranding	1.5 mm ² (16AWG) 82x0.15 bare copper	Outer Jacket	Gray PVC				
Voltage Ratings	600V per UL	UV Resistance	Yes, UL 1581				
vonaye namys	Tested to 3000V	Oil Resistance	Yes				
Min. Bend Radius	Moving, 7.5 x diameter	Flame Retardant	Per UL VW-1, FT-1, DIN EN 50265-2-1 FT1				
	Fixed, 4.0 x diameter	Silicone-free	Yes				
Tomporatura Datinga	Moving, 5°F to +194°F (-15°C to +90°C)	Approvals	cUL AWM Style 2586, CE, RoHS, REACH				
Temperature Ratings	Fixed, -40°F to +221°F (-40°C to +105°C)		LUTZE SUPERFLEX® N PVC CONSTANT				
Conductor Insulation	TPE High Glide with green/yellow ground	Sample Print Legend	FLEXING CABLE OIL RESISTANT FRPP/ PVC A14816XX XG1.5 MM2 (AWG16/XC) E197090 cURus AWM STYLE 2586 105C				
Conductor Markings	Black with White numbers		600V VW-1 AWM I/II A/B 105C 600V FT1 ROHS DATE CODE CE-40				

1	.5 mm ² (16AWG)	Continu	ious Flexi	ing Control Ca	ble (Unsh	ielded)	
Part Number	Number of Conductors (includes ground)	AWG	Strand	Maximum O.D. (Inches ±10%)	Minimum Cut Length (ft)*	Approximate Weight (Ib/ft)	Price per foot
							Two 2
_			LÜTZE S	UPERFLEX'			Une i
<u>A1481603-1</u>	3	1.5 mm² (16AWG)	82	0.276	20	0.059	\$2.11
			LÜTZE SUPE	RFLEX		Three	3 WO 2
<u>A1481604-1</u>	4	1.5 mm² (16AWG)	82	0.303	20	0.073	\$2.48
				LÖTZE SUPERFLEX			Four 4
A1481605-1	5	1.5 mm ²	82	0.331	20	0.090	\$2.95
<u>11401000-1</u>	5	(16AWG)	02	0.001	20	0.000	ψ2.00
				LOTZE SUPERFLE	X		Dr 6 Citr 1 These 3 Table 2
<u>A1481607-1</u>	7	1.5 mm² (16AWG)	82	0.402	20	0.132	\$3.70
				LINTZE SUPERFLORM			Bieven 11
							United 2 100 202 202 202 One 1 100 200 2
<u>A1481612-1</u>	12	1.5 mm² (16AWG)	82	0.500	20	0.203	\$5.62

* See web store for maximum cut lengths



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1.5 mm² (16AWG) Unshielded SYSTEMATIC TECHNOLOGY Continuous Flexing Control Cable

1.	5 mm² (16AWG)	Continu	ous Flex	ing Control Ca	ble (Unsh	ielded)	
Part Number	Number of Conductors (includes ground)	AWG	Strand	Maximum O.D. (Inches ±10%)	Minimum Cut Length (ft)*	Approximate Weight (Ib/ft)	Price per foot
				LÜT	ZE SUPERFLEX		Endan to Branstan 1 Uni 1 Uni 1 Field Field
<u>A1481618-1</u>	18	1.5 mm² (16AWG)	82	0.583	20	0.294	\$8.15
LOTZE SUPERFLEX*							
<u>A1481625-1</u>	25	1.5 mm² (16AWG)	82	0.717	20	0.417	\$11.30

* See web store for maximum cut lengths





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2.5 mm² (14AWG) Unshielded SYSTEMATIC TECHNOLOGY **Continuous Flexing Control Cable**

2.5 mm ² (14AW	2.5 mm ² (14AWG) Continuous Flexing Control Cable Specifications (Unshielded)							
Conductors Gauge & Stranding	2.5 mm ² (14AWG) 134x0.15 bare copper	Outer Jacket	Gray PVC					
Voltage Ratings	600V per UL	UV Resistance	Yes, UL 1581					
	Tested to 3000V	Oil Resistance	Yes					
Min. Bend Radius	Moving, 7.5 x diameter	Flame Retardant	Per UL VW-1, FT-1, DIN EN 50265-2-1 FT1					
	Fixed, 4.0 x diameter	Silicone-free	Yes					
T	Moving, 5°F to +194°F (-15°C to +90°C)	Approvals	cUL AWM Style 2586, CE, RoHS, REACH					
Temperature Ratings	Fixed, -40°F to +221°F (-40°C to +105°C)		LUTZE SUPERFLEX® N PVC CONSTANT FLEXING CABLE OIL RESISTANT FRPP/					
Conductor Insulation	TPE High Glide with green/yellow ground	Sample Print Legend	PVC A14814XX XG2.5 MM2 (AWG14/XC)					
Conductor Markings	Black with White numbers	,	E197090 cURus AWM STYLE 2586 105C 600V VW-1 AWM I/II A/B 105C 600V FT1 ROHS DATE CODE CE-40					

2.5	mm ² (14AWG)	Continu	ous Flexi	ng Control Ca	ble (Unshi	ielded)	
Part Number	Number of Conductors (includes ground)	AWG	Strand	Maximum O.D. (Inches ±10%)	Minimum Cut Length (ft)*	Approximate Weight (Ib/ft)	Price per foot
	_	_	LÛTZE	SUPERFLEX*			Three 3
<u>A1481404-1</u>	4	2.5 mm² (14AWG)	134	0.339	20	0.102	\$3.38
							Paral
				LOTZE SUPERFLEX			Tirree 3
<u>A1481405-1</u>	5	2.5 mm² (14AWG)	134	0.382	20	0.132	\$4.06
							Gr &
				LOTZE SU	PERFLEX		0.00 1 0.002 Three 3 1002
<u>A1481407-1</u>	7	2.5 mm² (14AWG)	134	0.469	20	0.194	\$5.38



For the latest prices, please check AutomationDirect.com.

Amm² (12AWG) Unshielded SYSTEMATIC TECHNOLOGY Continuous Flexing Control Cable

4mm ² (12AWG)	4mm ² (12AWG) Continuous Flexing Control Cable Specifications (Unshielded)							
Conductors Gauge & Stranding	4mm ² (12AWG) 224x0.15 bare copper	Outer Jacket	Gray PVC					
Voltage Ratings	600V per UL	UV Resistance	Yes, UL 1581					
	Tested to 3000V	Oil Resistance	Yes					
Min. Bend Radius	Moving, 7.5 x diameter	Flame Retardant	Per UL VW-1, FT-1, DIN EN 50265-2-1 FT1					
	Fixed, 4.0 x diameter	Silicone-free	Yes					
Temperature Ratings	Moving, 5°F to +194°F (-15°C to +90°C)	Approvals	cUL AWM Style 2586, CE, RoHS, REACH					
	Fixed, -40°F to +221°F (-40°C to +105°C)		LUTZE SUPERFLEX® N PVC CONSTANT FLEXING CABLE OIL RESISTANT FRPP/					
Conductor Insulation	TPE High Glide with green/yellow ground	Sample Print Legend	PVC A14812XX XG4.0 MM2 (AWG12/XC)					
Conductor Markings	Black with White numbers	oumpio i init Logona	E197090 cURus AWM STYLE 2586 105C 600V VW-1 AWM I/II A/B 105C 600V FT1 ROHS DATE CODE CE-40					

4mm ² (12AWG) Continuous Flexing Control Cable (Unshielded)							
Part Number	Number of Conductors (includes ground)	AWG	Strand	Maximum O.D. (Inches ±10%)	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per foot
	_		LOTZI	E SUPERFLEX			Three 3
<u>A1481204-1</u>	4	4mm ² (12AWG)	224	0.433	20	0.180	\$5.57
				1072	SUPERFLEM		5k 4
							Viril 1024 Read 1022
<u>A1481207-1</u>	7	4mm² (12AWG)	224	0.591	20	0.328	\$9.04



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