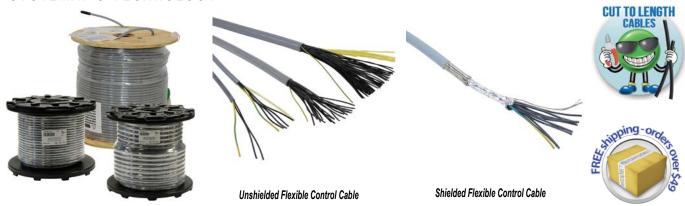


SILFLEX® Control Cable

SYSTEMATIC TECHNOLOGY

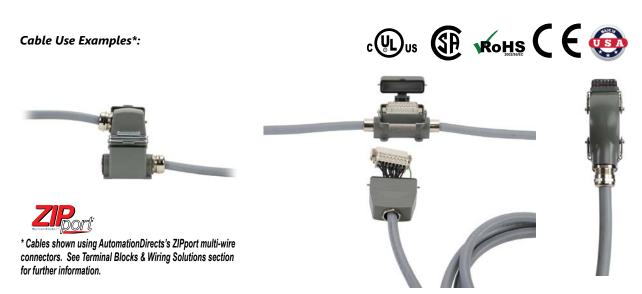


LUTZE SILFLEX® control cable from AutomationDirect is available in sizes from Features 20AWG to 10AWG with 3 to 41 unshielded and shielded conductors. Individual conductors are bare copper and stranded for flexibility, with black PVC/Nylon insulation and marked with numbers for easy identification. A convenient ground conductor is included in the conductor count of each cable and has insulation that is green with a yellow stripe. Shielded versions include both an overall aluminum mylar foil tape with drain wire and tinned copper braid for maximum effectiveness against external electrical noise interference. The cable's outer jacket is PVC that is resistant to sunlight, oil, and moisture penetration, making these cables suitable for wet and dry locations as well as outdoors. Although not suitable for continuous flexing applications, these cables are ideal for both stationary and flexible applications with limited mechanical stress and free movement without any tensile stress, loads or forced movements.

With multiple ratings and approvals, LUTZE SILFLEX®multi-conductor control cable has the versatility to meet a wide range of industrial applications. Given its Tray Cable Exposed Run rating, UL Type TC-ER or Power Limited Tray Cable Tray Cable, UL Type PLTC-ER, our cable can be installed between a cable tray and the utilization equipment or device without the need for metal conduit and/ or armor resulting in installation and maintenance savings. With the Machine Tool Wire rating, UL Type MTW, these cables meet NFPA 79, Electrical Standard for Industrial Machinery. Other ratings and approvals include Wind Turbine Tray Cable UL Type WTTC, Class 1 Division 2 Hazardous Locations and Direct Burial.

When combined with AutomationDirect ZIPport multi-wire connectors, our flexible multi-conductor cables provide an economical way to organize and simplify control wiring in facilities and during assembly of machinery. Cut to length in 1 foot increments with a 20 foot minimum length.

- 20AWG to 10AWG, 3 to 41 conductors including an equal size ground
- · Unshielded and shielded constructions
- Individual conductors have black PVC/Nylon insulation and are marked with identification numbers
- · Oil resistant PVC outer jacket
- Equal size green/yellow ground wire included
- Multiple ratings and approvals include Type TC-ER or PLTC-ER (eliminates need for conduit/armor), Type MTW (meets NFPA 79), WTTC, Class 1 Division 2, Direct Burial for 18AWG and larger, wet and dry location, oil resistant, sunlight resistant
- Flexibility for easy installation
- Cut to length in 1 foot increments
- · Low 20 foot minimum length
- · Made in the USA
- · Ideal for use with ZIPport multi-wire connectors (as shown below)



20 Gai	uge SILFLEX® Control C	able Specificatio	ns (Unshielded)			
Conductor Gauge & Stranding	20AWG 10/30 bare copper, Class K		MSHA Flame Rating			
	300V Power Limited Tray Cable -		UL 13 Standard for Power-Limited Circuit Cables			
	Exposed Run (PLTC-ER)		UL 2250 Standard for Instrumentation Tray Cable			
Voltage Rating	300V Instrumentation Tray Cable -	Applicable Standards	UL 1063 - Machine Tool Wiring (MTW)			
	Exposed Run (ITC-ER)		UL 758 - AWM Style 20886			
	600V MTW Flexing		CSA C22.2 No. 210 - CSA AWM I/II A/B			
	1000V 80C AWM		Class I & II, Div. 2 336, 392, 725, 727 and Class I Zone 2 per NEC 501, 502, 505			
Operating Temperature	-40°C to 90°C (-40°F to 194°F)	Approvals**	UL (E324458), CSA (91737)			
Jacket Material	Flexible Gray (PVC) - sunlight & oil resistant					
Conductor Colors	Black with white numbers and green/ yellow ground		WWW.LUTZE.COM PART# XXXXXXXX Silflex			
Conductor Insulation	0.011 Inch, PVC + 0.005 Inch, NYLON		PLTC-ER AWGXX-XC - (UL)TYPE MTW "FLEXING" E324458 90C 600V OR PLTC-ER SUN RES OIL			
Conductor Markings	#1-ONE", "2-TWO", "3-THREE", etc @ 4.5 inch intervals, ICEA Method 4	Sample Print Legend	RES II -40C FT4 OR AMW 20886 80C 1000V - LL91737 CSA AWM I/II A/B 90C 600V FT4 - P-07-			
Temperature Rating	75°C (167°F) Wet, 90°C (194°F) Dry	~F/1)m/	KA090006-MSHA CE ROHS CE-46 2123 MADE IN USA XXXXXX FT			
Min. Bend Radius	4x diameter					
Flame Rating	FT4					
Oil Resistance	Oil Res I & II					

^{*} To obtain the most current agency approval information, see Agency Approval Checklist section on the specifict part number's web page at www. AutomationDirect.com

	20 Gauge SILFLEX® Control Cable (Unshielded)												
Part Number	Number of Conductors (includes ground)	AWG	Strand	Overall Conductor Insulation Thickness (Mils)	Overall Jacket Thickness (Mils)	Nominal O.D. (Inches ±10%)	Minimum Installed Bend Radius (inches)*	Minimum Cut Length (ft)**	Approximate Weight (lb/ft)	Price per foot			
		-	_	_					Two Z	_			
					LUTZE STEP	'LEX' TRAY-ER(C) PI							
A3082003-1	3						0.27	1.08	20	0.04	\$1.10		
A3082004-1	4				47	0.29	1.16	20	0.05	\$1.31			
A3082005-1	5	1	10	40		0.31	1.24	20	0.06	\$1.55			
A3082007-1	7	20	10	16		0.34	1.36	20	0.07	\$1.99			
A3082012-1	12]			62	0.43	1.72	20	0.11	\$3.05			
A3082025-1	25]				0.67	2.68	20	0.22	\$6.08			

^{*} Installed bend radius ≥ 4x diameter





Please Note: Our prices on flexible 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.

^{* *} See web store for maximum cut lengths

18 Gai	ige SILFLEX® Control C	able Specificatio	ons (Unshielded)	
Conductor Gauge & Stranding	18AWG 16/30 bare copper, Class K		MSHA Flame Rating	
	600V 90C Tray Cable Exposed Run		UL 1277 - Type TC-ER	
	Joist Pull (TC-ER-JP)		UL 2277 - Type WTTC	
Voltage Rating	1000 V 90C Wind Turbine Tray Cable		UL 1063 - Machine Tool Wiring (MTW)	
	(WTTC)		UL 1690 - Data Processing Cable (DP-1)	
	600V MTW Flexing	Applicable	III 758 AWM Shilo 20886	
	1000V 80C AWM	Standards	UL 758 - AWM Style 20886	
Operating Temperature	-40°C to 90°C (-40°F to 194°F)		CSA C22.2 No. 210 - CSA AWM I/II A/B	
Jacket Material	Flexible Gray (PVC) - sunlight & oil resistant			
Conductor Colors	Black with white numbers and green/ yellow ground		Class I & II, Div. 2 336, 392, 725, 727 and Class I Zone 2 per NEC 501, 502, 505	
Conductor Insulation	0.015 Inch, PVC + 0.005 Inch, NYLON			
Conductor Markings	#1-ONE", "2-TWO", "3-THREE", etc @ 4.5 inch intervals, ICEA Method 4	Approvals**	UL (E324630)	
Temperature Rating	75°C (167°F) Wet, 90°C (194°F) Dry		WWW.LUTZE.COM PART# XXXXXXXX Silflex	
Min. Bend Radius	4x diameter		AWGXX-XC (UL) TYPE TC-ER-JP 90C 600V SUN RES DIR BUR OIL RES II OR DP-1 OR MTW	
Flame Rating	FT4	Sample Print Legend	"FLEXING" OR WTTC E324630 1000V 90C DRY OR	
Oil Resistance	Oil Res I & II		DP-1 OR ITC-ER OR PLTC-ER OR c(UL) TYPE CIC PVC/N CONTROL FT4 OR AWM 20886 80C 1000V - P07-KA090006-MSHA CE ROHS CE-46 2124 MADE IN USA XXXXXX FT	

^{*} To obtain the most current agency approval information, see Agency Approval Checklist section on the specifict part number's web page at www. AutomationDirect.com

	18 Gauge SILFLEX® Control Cable (Unshielded)												
Part Number	Number of Conductors (includes ground)	AWG	Strand	Overall Conductor Insulation Thickness (Mils)	Overall Jacket Thickness (Mils)	Nominal O.D. (Inches ±10%)	Minimum Installed Bend Radius (inches)*	Minimum Cut Length (ft) **	Approximate Weight (lb/ft)	Price per foot			
		-	_		- Comm. Au		and the same of th		1802 -	-			
LÜTZE SILFLEK TRAY-ERIDPVC													
<u> A3081803-1</u>	3					0.28	1.12	20	0.05	\$1.17			
A3081804-1	4					0.31	1.24	20	0.06	\$1.42			
A3081805-1	5					0.33	1.32	20	0.07	\$1.80			
A3081807-1	7	18	16	20	45	0.36	1.44	20	0.09	\$2.32			
A3081809-1	9	1 18	10	20		0.41	1.64	20	0.11	\$3.00			
A3081812-1	12	1				0.46	1.84	20	0.14	\$3.73			
A3081818-1	18				45	0.55	2.20	20	0.21	\$5.53			
A3081825-1	25				60	0.64	2.56	20	0.25	\$7.41			

^{*} Installed bend radius ≥ 4x diameter





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^{* *} See web store for maximum cut lengths

16 Gau	ge SILFLEX® Control C	able Specification	ons (Unshielded)		
Conductor Gauge & Stranding	16AWG 26/30 bare copper, Class K		MSHA Flame Rating		
	600V 90C Tray Cable Exposed Run		UL 1277 - Type TC-ER		
	Joist Pull (TC-ER-JP)		UL 2277 - Type WTTC		
Voltage Rating	1000 V 90C Wind Turbine Tray Cable		UL 1063 - Machine Tool Wiring (MTW)		
vollaye naliliy	(WTTC)		UL 1690 - Data Processing Cable (DP-1)		
	600V MTW Flexing	Applicable	UL 758 - AWM Style 20886		
	1000V 80C AWM	Standards	CSA C22.2 No. 210 - CSA AWM I/II A/B		
Operating Temperature	-40°C to 90°C (-40°F to 194°F)		OSA 022.2 NO. 2 10 - OSA AVVIVI I/II A/D		
Jacket Material	Flexible Gray (PVC) - sunlight & oil resistant				
Conductor Colors	Black with white numbers and green/ yellow ground		Class I & II, Div. 2 336, 392, 725, 727 and Class I Zone 2 per NEC 501, 502, 505		
Conductor Insulation	0.015 Inch, PVC + 0.005 Inch, NYLON				
Conductor Markings	#1-ONE", "2-TWO", "3-THREE", etc @ 4.5 inch intervals, ICEA Method 4	Approvals**	UL (E324630)		
Temperature Rating	75°C (167°F) Wet, 90°C (194°F) Dry		WWW.LUTZE.COM PART# XXXXXXXX Silflex		
Min. Bend Radius	4x diameter		AWGXX-XC (UL) TYPE TC-ER-JP 90C 600V SUN RES DIR BUR OIL RES II OR MTW "CLASS		
Flame Rating	FT4	Sample Print Legend	K" OR WTTC E324630 1000V 90C DRY OR DP-1		
Oil Resistance	Oil Res I & II	Sumpro 1 Trint Logoliu	OR ITC-ER OR PLTC-ER OR c(UL) TYPE CIC PVC/N CONTROL FT4 OR AWM 20886 80C 1000 - P07-KA090006-MSHA CE ROHS CE-46 2124 MADE IN USA XXXXXX FT		

^{*} To obtain the most current agency approval information, see Agency Approval Checklist section on the specifict part number's web page at www. AutomationDirect.com

	16 Gauge SILFLEX® Control Cable (Unshielded)											
Part Number	Number of Conductors (includes ground)	AWG	Strand	Overall Conductor Insulation Thickness (Mils)	Overall Jacket Thickness (Mils)	Nominal O.D. (Inches ±10%)	Minimum Installed Bend Radius (inches)*	Minimum Cut Length (ft)**	Approximate Weight (lb/ft)	Price per foot		
	_	_	_	_		_			Two 2			
					LÜTZE SILFLEX	TRAY-ERIO PVC						
A3081603-1	3				50	0.31	1.24	20	0.06	\$1.53		
A3081604-1	4					0.34	1.36	20	0.08	\$1.72		
A3081605-1	5					0.37	1.48	20	0.09	\$2.19		
A3081607-1	7	16	26	20		0.40	1.60	20	0.11	\$2.81		
A3081612-1	12	10	20	20	50	0.51	2.04	20	0.20	\$4.63		
A3081618-1	18				65	0.62	2.48	20	0.28	\$7.02		
A3081625-1	25				65	0.72	2.88	20	0.35	\$9.26		
A3081641-1	41				85	0.91	3.64	20	0.56	\$15.62		

^{*} Installed bend radius ≥ 4x diameter





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^{* *} See web store for maximum cut lengths

14 Gau	ge SILFLEX® Control C	able Specification	ons (Unshielded)
Conductor Gauge & Stranding	14AWG 41/30 bare copper, Class K		MSHA Flame Rating
	600V 90C Tray Cable Exposed Run		UL 1277 - Type TC-ER
	Joist Pull (TC-ER-JP)		UL 2277 - Type WTTC
/oltage Rating	1000 V 90C Wind Turbine Tray Cable		UL 1063 - Machine Tool Wiring (MTW)
Vullaye naliliy	(WTTC)		UL 1690 - Data Processing Cable (DP-1)
	600V MTW Flexing	Applicable	UL 758 - AWM Style 20886
	1000V 80C AWM	Standards	C22.2 NO. 230 - c(UL) Type TC
Operating Temperature	-40°C to 90°C (-40°F to 194°F)		C22.2 NO. 230 - C(OL) Type TC
Jacket Material	Flexible Gray (PVC) - sunlight & oil resistant		Class I & II, Div. 2 336, 392, 725, 727 and Class I
Conductor Colors	Black with white numbers and green/ yellow ground		Zone 2 per NEC 501, 502, 505
Conductor Insulation	0.015 Inch, PVC + 0.005 Inch, NYLON		
Conductor Markings	#1-ONE", "2-TWO", "3-THREE", etc @ 4.5 inch intervals, ICEA Method 4	Approvals**	UL (E324630)
Temperature Rating	75°C (167°F) Wet, 90°C (194°F) Dry		WWW.LUTZE.COM PART# XXXXXXXX Silflex
Cold Impact	-40°C (-40°F) per UL 1277		TRAY-ER AWGXX-XC (UL) TYPE TC-ER-JP 90C 600V THHN-THWN SUN RES DIR BUR OIL
Min. Bend Radius	4x diameter	Sample Print Legend	RES II OR MTW "CLASS K" OR WTTC E324630
Flame Rating	FT4		1000V 90C DRY OR DP-1 OR ITC-ER OR PLTC-ER OR c(UL) TYPE CIC PVC/N CONTROL FT4 OR
Oil Resistance	Oil Res I & II		AWM 20886 80C 10000V - P07-KA090006-MSHA CE ROHS CE-46 2124 MADE IN USA XXXXXX FT

^{*} To obtain the most current agency approval information, see Agency Approval Checklist section on the specifict part number's web page at www. AutomationDirect.com

	14 Gauge SILFLEX® Control Cable (Unshielded)											
Part Number	Number of Conductors (includes ground)	AWG	Strand	Overall Conductor Insulation Thickness (Mils)	Overall Jacket Thickness (Mils)	Nominal O.D. (Inches ±10%)	Minimum Installed Bend Radius (inches)*	Minimum Cut Length (ft)**	Approximate Weight (lb/ft)	Price per foot		
LUTZE SILFLENTTRAY-ERIOPVC												
A3081403-1	3					0.34	1.36	20	0.82	\$1.94		
A3081404-1	4	1			50	0.37	1.48	20	0.11	\$2.35		
A3081405-1	5	14	41	20		0.41	1.64	20	0.13	\$2.99		
A3081425-1	25	1			65	0.81	3.24	20	0.57	\$13.52		

^{*} Installed bend radius ≥ 4x diameter





Please Note: Our prices on flexible 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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Wires Cords and Cables

^{* *} See web store for maximum cut lengths

12 Gau	ge SILFLEX® Control Ca	able Specification	s (Unshielded)		
Conductor Gauge & Stranding	12AWG 65/30 bare copper, Class K		MSHA Flame Rating		
	600V 90C Tray Cable Exposed Run		UL 1277 - Type TC-ER		
	Joist Pull (TC-ER-JP)		UL 2277 - Type WTTC		
Voltago Dating	1000 V 90C Wind Turbine Tray Cable	_	UL 1063 - Machine Tool Wiring (MTW)		
Voltage Rating	(WTTC)		UL 1690 - Data Processing Cable (DP-1)		
	600V MTW Flexing	Applicable	UL 758 - AWM Style 20886		
	1000V 80C AWM	Standards	C22 2 NO. 220		
Operating Temperature	-40°C to 90°C (-40°F to 194°F)		C22.2 NO. 230 - c(UL) Type TC		
Jacket Material	Flexible Gray (PVC) - sunlight & oil resistant "				
Conductor Colors	Black with white numbers and green/ yellow ground		Class I & II, Div. 2 336, 392, 725, 727 and Class I Zone 2 per NEC 501, 502, 505		
Conductor Insulation	0.015 Inch, PVC + 0.005 Inch, NYLON				
Conductor Markings	"#1-ONE", "2-TWO", "3-THREE", etc @ 4.5 inch intervals, ICEA Method 4	Approvals**	UL (E324630)		
Temperature Rating	75°C (167°F) Wet, 90°C (194°F) Dry		WWW.LUTZE.COM PART# XXXXXXXX Silflex		
Cold Impact	-40°C (-40°F) per UL 1277		TRAY-ER AWGXX-XC (UL) TYPE TC-ER-JP 90C 600V THHN-THWN SUN RES DIR BUR OIL		
Min. Bend Radius	4x diameter		RES II OR MTW "CLASS K" OR WTTC E324630		
Flame Rating	FT4	Sample Print Legend	1000V 90C DRY OR DP-1 OR ITC-ER OR PLTC- ER OR c(UL) TYPE CIC PVC/N CONTROL FT4		
Oil Resistance	Oil Res I & II		OR AWM 20886 80C 10000V - P07-KA090006- MSHA CE ROHS CE-46 2124 MADE IN USA XXXXXX FT		

^{*} To obtain the most current agency approval information, see Agency Approval Checklist section on the specifict part number's web page at www. AutomationDirect.com

	12 Gauge SILFLEX® Control Cable (Unshielded)										
Part Number	Number of Conductors (includes ground)	AWG		Overall Conductor Insulation Thickness (Mils)	Overall Jacket Thickness (Mils)	Nominal O.D. (Inches		Minimum Cut Length (ft)**	Approximate Weight (lb/ft)	Price per foot	
LÜTZE SILFLEX TRAY-ERIOPVO											
<u>A3081204-1</u>	4	12	65	20	50	0.43	1.72	20	0.15	\$3.36	

^{*} Installed bend radius ≥ 4x diameter





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^{* *} See web store for maximum cut lengths

10 Gau	ge SILFLEX® Control C	able Specification	ons (Unshielded)		
Conductor Gauge & Stranding	10 AWG 105/30 bare copper, Class K		MSHA Flame Rating		
	600V 90C Tray Cable Exposed Run		UL 1277 - Type TC-ER		
	Joist Pull (TC-ER-JP)		UL 2277 - Type WTTC		
Voltage Rating	1000 V 90C Wind Turbine Tray Cable		UL 1063 - Machine Tool Wiring (MTW)		
	(WTTC)		UL 1690 - Data Processing Cable (DP-1)		
	600V MTW Flexing	Applicable	UL 758 - AWM Style 20886		
	1000V 80C AWM	Standards	C22 2 NO 220 c/III) Time TC		
Operating Temperature	-40°C to 90°C (-40°F to 194°F)		C22.2 NO. 230 - c(UL) Type TC		
Jacket Material	Flexible Gray (PVC) - sunlight & oil resistant				
Conductor Colors	Black with white numbers and green/ yellow ground		Class I & II, Div. 2 336, 392, 725, 727 and Class I Zone 2 per NEC 501, 502, 505		
Conductor Insulation	0.015 Inch, PVC + 0.005 Inch, NYLON				
Conductor Markings	#1-ONE", "2-TWO", "3-THREE", etc @ 4.5 inch intervals, ICEA Method 4	Approvals**	UL (E324630)		
Temperature Rating	75°C (167°F) Wet, 90°C (194°F) Dry		WWW.LUTZE.COM PART# XXXXXXXX Silflex		
Cold Impact	-40°C (-40°F) per UL 1277		TRAY-ER AWGXX-XC (UL) TYPE TC-ER-JP 90C		
Min. Bend Radius	4x diameter		600V THHN-THWN SUN REŚ DIR BUR OIL RES II		
Flame Rating	FT4	Sample Print Legend	OR MTW "CLASS K" OR WTTC E324630 1000V		
,	Oil Res I & II		90C DRY OR DP-1 OR ITC-ER OR PLTC-ER OR c(UL) TYPE CIC PVC/N CONTROL FT4 OR AWM 20886 80C 10000V - P07-KA090006-MSHA CE ROHS CE-46 2124 MADE IN USA XXXXXX FT		

^{*} To obtain the most current agency approval information, see Agency Approval Checklist section on the specifict part number's web page at www. AutomationDirect.com

	10 Gauge SILFLEX® Control Cable (Unshielded)										
Part Number	Number of Conductors (includes ground)	AWG	Strand	Overall Conductor Insulation Thickness (Mils)	Overall Jacket Thickness (Mils)	Nominal O.D. (Inches ±10%)	Minimum Installed Bend Radius (inches)*	Minimum Cut Length (ft)**	Approximate Weight (lb/ft)	Price per foot	
LOTEE STEPLEY TRAY ENGINEE											
A3081004-1	4	10	105	25	50	0.50	2.00	20	0.21	\$5.34	

^{*} Installed bend radius ≥ 4x diameter





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www.automationdirect.com Wires Cords and Cables

^{* *} See web store for maximum cut lengths

20 Gai	uge SILFLEX® Control (Cable Specificatio	ns (Shielded)		
Conductor Gauge & Stranding	20AWG 10/30 bare copper, Class K		MSHA Flame Rating		
	300V Power Limited Tray Cable - Exposed Run (PLTC-ER)		UL 1277 - Type TC-ER		
Voltage Rating	300V Instrumentation Tray Cable - Exposed Run (ITC-ER)		UL 2277 - Type WTTC		
	600V MTW Flexing		UL 1063 - Machine Tool Wiring (MTW)		
Operating Temperature	-40°C to 90°C (-40°F to 194°F)	Applicable	UL 1690 - Data Processing Cable (DP-1)		
Jacket Material	Flexible Gray (PVC) - sunlight & oil resistant "	Standards	UL 758 - AWM Style 20886		
Conductor Colors	Black with white numbers and green/ yellow ground		CSA C22.2 No. 210 - CSA AWM I/II A/B		
Shield	Overall aluminized polyester foil shield 100% coverage & tinned copper braid 85% coverage with 20 AWG drain		Class I & II, Div. 2 336, 392, 725, 727 and Class I Zone 2 per NEC 501, 502, 505		
Conductor Insulation	0.015 Inch, PVC + 0.005 Inch, NYLON		2510 2 por 1120 00 1, 002, 000		
Conductor Markings	"#1-ONE", "2-TWO", "3-THREE", etc @ 4.5 inch intervals, ICEA Method 4	Approvals**	UL (E324458), CSA (91737)		
Temperature Rating	75°C (167°F) Wet, 90°C (194°F) Dry		WWW.LUTZE.COM PART# XXXXXXXX		
Cold Impact	-40°C (-40°F) per UL 1277		CONTROL PLTC-ER (C) AWGXX-XC - (UL) TYPE MTW "FLEXING" E324458 90C 600V OR		
Min. Bend Radius	4x diameter	Sample Print Legend	PLTC-ER SUN RES OIL RES II -40C FT4 OR		
Flame Rating	FT4		AMW 20886 80C 1000V - LL91737 CSA AWM / A/B 90C 600V FT4 - P-07-KA090006-MSHA CE		
Oil Resistance	Oil Res I & II		ROHS CE-46 2123 MADE IN USA XXXXXX FT		

^{*} Per ASTM B174

^{**} To obtain the most current agency approval information, see Agency Approval Checklist section on the specifict part number's web page at www. AutomationDirect.com

	20 Gauge SILFLEX® Control Cable (Shielded)																				
Part Number	Number of Conductors (includes ground)	AWG	Strand	Overall Conductor Insulation Thickness (Mils)	Overall Jacket Thickness (Mils)	Nominal O.D. (Inches ±10%)	Minimum Installed Bend Radius (inches)*	Minimum Cut Length (ft)**	Approximate Weight (lb/ft)	Price per foot											
	_	-	-						Two Z	_											
					LOTZE SILF	'LEX' TRAY-ER(C) PV			ur.												
A3092003-1	3																0.26	1.12	20	0.04	\$1.94
A3092004-1	4				47	0.28	1.24	20	0.04	\$2.00											
A3092005-1	5	20	10	16		0.30	1.32	20	0.05	\$2.31											
A3092007-1	7	20	10	16		0.33	1.44	20	0.06	\$2.67											
A3092012-1	12				62	0.45	1.84	20	0.11	\$3.90											
A3092025-1	25					0.60	2.56	20	0.20	\$7.33											

^{*} Installed bend radius ≥ 4x diameter





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^{* *} See web store for maximum cut lengths

18 Ga	uge SILFLEX® Control	Cable Specificat	ions (Shielded)
Conductor Gauge & Stranding	18AWG 16/30 bare copper, Class K		MSHA Flame Rating
	600V 90C Tray Cable Exposed Run Joist Pull (TC-ER-JP)		UL 1277 - Type TC-ER
Voltage Rating	1000 V 90C Wind Turbine Tray Cable (WTTC)		UL 2277 - Type WTTC
	600V MTW Flexing	Applicable	III 1062 Machine Teel Wiring (MTM)
	1000V (UL AWM)	Standards	UL 1063 - Machine Tool Wiring (MTW)
Jacket Material	Flexible Gray (PVC) - sunlight & oil resistant		Class I & II, Div. 2 336, 392, 725, 727 and Class I
Conductor Colors	Black with white numbers and green/ yellow ground		Zone 2 per NEC 501, 502, 505
Shield	Overall aluminized polyester foil shield 100% coverage & tinned copper braid 85% coverage with 20 AWG drain	Approvals**	UL (E324630)
Conductor Insulation	0.015 Inch, PVC + 0.005 Inch, NYLON		WWW.LUTZE.COM PART# XXXXXXXX Silflex
Conductor Markings	#1-ONE", "2-TWO", "3-THREE", etc @ 4.5 inch intervals, ICEA Method 4		(C) AWGXX-XC (UL) TYPE TC-ER-JP 90C 600V SUN RES DIR BUR OIL RES II OR DP-1 OR
Temperature Rating	75°C (167°F) Wet, 90°C (194°F) Dry	Sample Print Legend	MTW "FLEXING" OR WTTC E324630 1000V 90C
Min. Bend Radius	6x diameter		DRY ITC-ER OR PLTC-ER OR c(UL) TYPE CIC CONTROL PVC/N FT4 SHIELDED OR AWM 20886
Flame Rating	FT4		80C 10000V - P07-KA090006-MSHA CE ROHS
Oil Resistance	Oil Res I & II		CE-46 2124 MADE IN USA XXXXXX FT

^{*} To obtain the most current agency approval information, see Agency Approval Checklist section on the specifict part number's web page at www. AutomationDirect.com

		18	Gaug	e SILFLEX	(® Control	Cable (Shielded	l)		
Part Number	Number of Conductors (includes ground)	AWG	Strand	Overall Conductor Insulation Thickness (Mils)	Overall Jacket Thickness (Mils)	Nominal O.D. (Inches ±10%)	Minimum Installed Bend Radius (inches)*	Minimum Cut Length (ft)**	Approximate Weight (lb/ft)	Price per foot
		-	_		LOTZE SILFLEX TR	av.500,000			Une (-
					FOURS SICKES IN	ni-churre -				
A3091803-1	3					0.30	3.60	20	0.06	\$2.03
A3091804-1	4	1				0.33	3.96	20	0.07	\$2.35
A3091805-1	5	18	16	20	47	0.35	4.20	20	0.08	\$2.91
A3091807-1	7	1 18	16	20		0.38	4.56	20	0.10	\$3.47
A3091812-1	12					0.47	5.64	20	0.16	\$4.98
A3091825-1	25	1			62	0.66	7.92	20	0.31	\$9.23

^{*} Installed bend radius ≥ 6x diameter





Please Note: Our prices on flexible 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.

^{* *} See web store for maximum cut lengths

16 Ga	uge SILFLEX® Control	Cable Specificat	ions (Shielded)				
Conductor Gauge & Stranding	16AWG 26/30 bare copper, Class K		MSHA Flame Rating				
	600V 90C Tray Cable Exposed Run Joist Pull (TC-ER-JP)		UL 1277 - Type TC-ER				
Voltage Rating	1000 V 90C Wind Turbine Tray Cable (WTTC)		UL 2277 - Type WTTC				
	600V MTW Flexing	A P b.l.	UL 1063 - Machine Tool Wiring (MTW)				
	1000V UL AWM	Applicable Standards	OL 1063 - Machine 1001 Wiring (MTW)				
Oneveting Temperature	4000 to 0000 (4005 to 40405)	Otaniaarao	UL 1690 - Data Processing Cable (DP-1)				
Operating Temperature	-40°C to 90°C (-40°F to 194°F)		UL 758 - AWM Style 20886				
Jacket Material	Flexible Gray (PVC) - sunlight & oil resistant		C22.2 NO. 230 - c(UL) Type TC				
	Overall aluminized polyester foil shield		Class I & II, Div. 2 336, 392, 725, 727 and Class I Zone 2 per NEC 501, 502, 505				
Shield	100% coverage & tinned copper braid 85% coverage with 18 AWG drain	Approvals**	UL (E324630)				
Conductor Colors	Black with white numbers and green/ yellow ground		WWW.LUTZE.COM PART# XXXXXXXX Silflex				
Conductor Insulation	0.015 Inch, PVC + 0.005 Inch, NYLON		(C) AWGXX-XC (UL) TYPE TC-ER-JP 90C				
Conductor Markings	#1-ONE", "2-TWO", "3-THREE", etc @ 4.5 inch intervals, ICEA Method 4	Sample Print Legend	600V SUN RES DIR BUR OIL RES II OR DP-1 OR MTW "CLASS K" OR WTTC E324630 1000V 90C				
Temperature Rating	75°C (167°F) Wet, 90°C (194°F) Dry		DRY ITC-ER OR PLTC-ER OR c(UL) TYPE CIC CONTROL PVC/N FT4 SHIELDED OR AWM 20886				
Min. Bend Radius	6x diameter		80C 10000V - P07-KA090006-MSHA CE ROHS				
Flame Rating	FT4		CE-46 2124 MADE IN USA XXXXXX FT				
Oil Resistance	Oil Res I & II						

^{*} Per ASTM B174

^{**} To obtain the most current agency approval information, see Agency Approval Checklist section on the specifict part number's web page at www. AutomationDirect.com

	16 Gauge SILFLEX® Control Cable (Shielded)											
Part Number	Number of Conductors (includes ground)	AWG		Overall Conductor Insulation Thickness (Mils)		Nominal O.D. (Inches ±10%)	Minimum Installed Bend Radius (inches)*	Cut Length	Approximate Weight (lb/ft)	Price per foot		
		-	-	100	EE STUPEEN TRAY-ERED				Two 2	1		
					es andress thus she							
A3091603-1	3					0.33	3.96	20	0.08	\$2.56		
A3091604-1	4				47	0.36	4.32	20	0.10	\$3.01		
A3091605-1	5	16	26	20	47	0.39	4.68	20	0.11	\$3.22		
A3091607-1	7					0.42	5.04	20	0.14	\$4.22		
A3091625-1	25				76	0.75	9.00	20	0.41	\$11.50		

^{*} Installed bend radius ≥ 6x diameter





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www.automationdirect.com Wires Cords and Cables

^{* *} See web store for maximum cut lengths

14 Ga	uge SILFLEX® Control	Cable Specificat	ions (Shielded)				
Conductor Gauge & Stranding	14AWG 41/30 bare copper, Class K		MSHA Flame Rating				
	600V 90C Tray Cable Exposed Run Joist Pull (TC-ER-JP)		UL 1277 - Type TC-ER				
Voltage Rating	1000 V 90C Wind Turbine Tray Cable (WTTC)		UL 2277 - Type WTTC				
	600V MTW Flexing	Applicable	UL 1063 - Machine Tool Wiring (MTW)				
	1000V UL AWM	Standards	OL 1003 - Machine 1001 Willing (MTW)				
Operating Temperature	-40°C to 90°C (-40°F to 194°F)		UL 1690 - Data Processing Cable (DP-1)				
Jacket Material	Flexible Gray (PVC) - sunlight & oil resistant		UL 758 - AWM Style 20886				
Shield	Overall aluminized polyester foil shield 100% coverage & tinned copper braid		C22.2 NO. 230 - c(UL) Type TC Class I & II, Div. 2 336, 392, 725, 727 and Class I Zone 2 per NEC 501, 502, 505				
	85% coverage with 16 AWG drain	Approvals**	UL (E324630)				
Conductor Colors	Black with white numbers and green/ yellow ground		WWW.LUTZE.COM PART# XXXXXXXX Silflex (C)				
Conductor Insulation	0.015 Inch, PVC + 0.005 Inch, NYLON		AWGXX-XC (UL) TYPE TC-ER-JP 90C 600V THHN-THWN SUN RES DIR BUR OIL RES II OR				
Conductor Markings	#1-ONE", "2-TWO", "3-THREE", etc @ 4.5 inch intervals, ICEA Method 4	Sample Print Legend	DP-1 OR MTW "CLASS K" OR WTTC E324630 1000V 90C DRY ITC-ER OR PLTC-ER OR c(UL)				
Temperature Rating	75°C (167°F) Wet, 90°C (194°F) Dry		TYPE CIC CONTROL PVC/N FT4 SHIELDED OR				
lin. Bend Radius	6x diameter		AWM 20886 80C 10000V - P07-KA090006-MSHA CE ROHS CE-46 2124 MADE IN USA XXXXXX FT				
Flame Rating	FT4		OL NOTIO SE 30 Z1Z4 MADE IN OUR MOUNT I				
Oil Resistance	Oil Res I & II						

^{*} Per ASTM B174

^{**} To obtain the most current agency approval information, see Agency Approval Checklist section on the specifict part number's web page at www. AutomationDirect.com

	14 Gauge SILFLEX® Control Cable (Shielded)											
Part Number	Number of Conductors (includes ground)	AWG	Strand	Overall Conductor Insulation Thickness (Mils)	Overall Jacket Thickness (Mils)	Nominal O.D. (Inches ±10%)	Minimum Installed Bend Radius (inches)*	Minimum Cut Length (ft)**	Approximate Weight (lb/ft)	Price per foot		
					TITLE IN THE HEAVY SERVICES	7//			Une I	•		
					MASS STREETS ASSISTED	The Atlanta			and the second			
A3091403-1	3	14	41	20	47	0.36	4.32	20	0.10	\$3.59		
A3091404-1	4	14	41	20	47	0.40	4.80	20	0.13	\$3.98		

^{*} Installed bend radius ≥ 6x diameter





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^{* *} See web store for maximum cut lengths

12 Ga	uge SILFLEX® Control	Cable Specificat	ions (Shielded)			
Conductor Gauge & Stranding	12AWG 65/30 bare copper, Class K		MSHA Flame Rating			
	600V 90C Tray Cable Exposed Run Joist Pull (TC-ER-JP)		UL 1277 - Type TC-ER			
Voltage Rating	1000 V 90C Wind Turbine Tray Cable (WTTC)		UL 2277 - Type WTTC			
	600V MTW Flexing	Applicable				
	1000V UL AWM	Standards	UL 1063 - Machine Tool Wiring (MTW)			
Operating Temperature	-40°C to 90°C (-40°F to 194°F)		UL 1690 - Data Processing Cable (DP-1)			
Jacket Material	Flexible Gray (PVC) - sunlight & oil		UL 758 - AWM Style 20886			
Jacket Materiai	resistant		C22.2 NO. 230 - c(UL) Type TC			
	Overall aluminized polyester foil shield		Class I & II, Div. 2 336, 392, 725, 727 and Class I Zone 2 per NEC 501, 502, 505			
Shield	100% coverage & tinned copper braid 85% coverage with 14 AWG drain	Approvals**	UL (E324630)			
Conductor Colors	Black with white numbers and green/ yellow ground		WWW.LUTZE.COM PART# XXXXXXXX Silflex (C)			
Conductor Insulation	0.015 Inch, PVC + 0.005 Inch, NYLON		AWGXX-XC (UL) TYPE TC-ER-JP 90C 600V			
Conductor Markings	#1-ONE", "2-TWO", "3-THREE", etc @ 4.5 inch intervals, ICEA Method 4	Sample Print Legend	THHN-THWN SUN RES DIR BUR OIL RES II OR DP-1 OR MTW "CLASS K" OR WTTC E324630 1000V 90C DRY ITC-ER OR PLTC-ER OR c(UL)			
Temperature Rating	75°C (167°F) Wet, 90°C (194°F) Dry		TYPE CIC CONTROL PVC/N FT4 SHIELDED OR			
Min. Bend Radius	6x diameter		AWM 20886 80C 10000V - P07-KA090006-MSHA			
Flame Rating	FT4		CE ROHS CE-46 2124 MADE IN USA XXXXXX FT			
Oil Resistance	Oil Res I & II					

^{*} Per ASTM B174

^{**} To obtain the most current agency approval information, see Agency Approval Checklist section on the specifict part number's web page at www. AutomationDirect.com

	12 Gauge SILFLEX® Control Cable (Shielded)										
Part Number	Number of Conductors (includes ground)	AWG	Strand	Overall Conductor Insulation Thickness (Mils)	Overall Jacket Thickness (Mils)	Nominal O.D. (Inches ±10%)	Minimum Installed Bend Radius (inches)*	Minimum Cut Length (ft)**	Approximate Weight (lb/ft)	Price per foot	
	LOTSE STEPLEY TRAY-ENDING										
A3091204-1	4	12	65	25	47	0.44	5.28	20	0.18	\$5.74	

^{*} Installed bend radius ≥ 6x diameter





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^{* *} See web store for maximum cut lengths