Servo Cable

LUTZE SYSTEMATIC TECHNOLOGY

LUTZE Silflex® is ideal for use with any servo drive and motor combination whether you need a signal pair for a brake or feedback. AutomationDirect is proud to offer the full line of Silflex® cable from 16AWG up to 2AWG with or without the shielded signal pair. This cable is available in bulk lengths starting as low as 10ft up to over 1000 feet on most of the part numbers.

Silflex® is rated Tray Cable - Exposed Run (TC-ER) meaning that it can be used with or without conduit, making the installations more cost-effective by reducing the cost of labor and materials.

The TPE jacket is oil and sunlight resistant and suitable for dry, damp, wet and direct burial locations.

Carrying multiple approvals and ratings, LUTZE Silflex® cable can be used for most all stationary servo motor application.

Please Note: Our prices on Servo 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.

Click on the above thumbnail or go to https://www.automationdirect.com/VID-WD-0016 for a short introduction on our cut to length cable

Features

- Class K, flexible stranded bare copper conductors
- Black, brown and blue power conductors with PVC / Nylon insulation
- Green and yellow ground conductor with PVC / Nylon insulation
- 85% coverage tinned copper braid shield
- Shielded Signal Pair for Feedback / Brake Control on A317 Series
- Orange RAL 2003 Thermoplastic Elastomer (TPE) jacket
- Cut to length in 1 foot increments
- Minimum cut lengths as low as 10 feet
- Made in USA

LUTZE Servo Cable Specifications

Power Conductors Gauge & Stranding	16AWG (26 Strands) to 2AWG (665 Strands), Class K flexible stranded bare copper	***Approvals***	UL 1277 - Type TC-ER Standard Power and Control Cables UL 2277 - Type WTTC Flexible Motor Supply AWM Style 20328 CSA C22.2 No. 210 - CSA AWM I/II A/B CE RoHS-2 cULTC UL MTW Class 1 Div. 2 per NEC Art 336, 392, 501, 502, 505 cURus Oil Res I and II CIC FT4
Shield	85% coverage tinned copper braid shield		
Signal Pair	Twisted Pair, bare copper conductor with black and white PVC/Nylon insulation and a tinned copper braid and foil shield		
Voltage Rating	600V UL TC ER 600V UL MTW 1000V WTTC 1000V Flexible Motor Supply 600V UL AWM 105C		
Outer Jacket Material	Thermoplastic Elastomer (TPE)		
Outer Jacket Color	Orange with black print		
Minimum Temperature	-40°F (-40°C)		
Temperature Ratings	-40°F to +221°F (-40°C to +105°C)	***Sample Print Legend***	www.lutze.com LUTZE SILFLEX M ©TPE XXXXXXX AWGxx-4C + AWGXX-2C (4x2,08mm2 + 2x0,82mm2 – E352875 (UL) TYPE FLEXIBLE MOTOR SUPPLY 90C DRY 1000V OR WTTC 1000V OR TC-ER 90C 600V THWN SUN RES DIR BUR OIL RES II OR MTW OR c(UL) TYPE CIC CONTROL PVC/N 90C DRY 75C WET FT4 OR AWM 20328 RoHS REACH XXXX CE-XX
Conductor Insulation	Black, brown and blue PVC / Nylon with green/yellow ground		

** See web store for maximum cut lengths*

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

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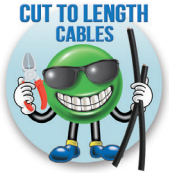
LUTZE Servo Cable Selection

Part Number	Number of Conductors (includes ground)	AWG	Conductor OD inches	Strand	Power Conductors (AWG)	Ground (AWG)	Minimum Cut Length (ft)	Nom. Insulation Thickness PVC/Nylon (mils)	Nominal Jacket Thickness (mils)	Nominal OD inches	*Ampacity NEC 310.16 Amps		Min. Bend Radius inches	Approximate Weight (lb/ft)	Price per foot
											60°C	90°C			
															
A3161604-1	4	16	0.117	26/30	16	16	20	0.016/0.005	45	0.410	10	10	2.5	0.124	$3.93
															
A3161404-1	4	14	0.136	41/30	14	14	20	0.016/0.005	60	0.455	15	15	2.7	0.159	$5.08
															
A3161204-1	4	12	0.158	65/30	12	12	20	0.016/0.005	60	0.510	20	20	3.1	0.214	$7.14
															
A3161004-1	4	10	0.206	105/30	10	10	20	0.021/0.005	60	0.650	30	30	3.9	0.321	$10.77
															
A3160804-1	4	8	0.274	168/30	8	8	20	0.031/0.005	80	0.825	40	55	4.9	0.490	$17.77

** Ampacity based on NEC 310.16 up to and including 2000 volts, not more than 3 current-carrying conductors, ambient 86°F (30°C)*
All dimensions are nominal and subject to normal manufacturing tolerances.



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LUTZE Servo Cable With Signal Pair Selection

Part Number	Number of Conductors (includes ground)	AWG	Conductor OD inches	Strand	Power Conductors (AWG)	Ground (AWG)	Minimum Cut Length	Nom. Insulation Thickness PVC/Nylon (mils)	Nominal Jacket Thickness (mils)	Shielded Signal Pair AWG**	Nominal OD inches	*Ampacity NEC 310.16 Amps		Min. Bend Radius inches	Approximate Weight (lb/ft)	Price per foot
												60°C	90°C			
																
A3171604-1	4	16	0.117	26/30	16	16	20	0.016/0.005	60	18	0.477	10	10	2.9	0.161	$5.70
																
A3171404-1	4	14	0.136	41/30	14	14	20	0.016/0.005	60	18	0.505	15	15	3	0.196	$6.99
																
A3171204-1	4	12	0.158	65/30	12	12	20	0.016/0.005	60	18	0.590	20	20	3.5	0.263	$8.62
																
A3171004-1	4	10	0.206	105/30	10	10	20	0.021/0.005	80	18	0.716	30	30	4.3	0.380	$12.34
																
A3170804-1	4	8	0.274	168/30	8	8	20	0.031/0.005	80	18	0.890	40	55	5.3	0.568	$19.08
																
A3170604-1	4	6	0.314	266/30	6	6	10	0.031/0.005	80	18	1.003	55	75	6.0	0.786	$26.84
																
A3170404-1	4	4	0.394	413/30	4	4	10	0.041/0.005	80	16	1.162	70	95	7.0	1.119	$34.89
																
A3170204-1	4	2	0.466	655/30	2	2	10	0.041/0.005	80	16	1.340	95	130	8.0	1.543	$50.16

** Ampacity based on NEC 310.16 up to and including 2000 volts, not more than 3 current-carrying conductors, ambient 86°F (30°C)*
*** Signal Pair Ampacity: 18AWG = 7 amps, 16AWG = 10 amps*
All dimensions are nominal and subject to normal manufacturing tolerances.

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LUTZE Servo Cable Specifications Continued						
Part Number	*Nom. Capacitance Conductor to Shield (pF/ft.)*	*Nom. Capacitance Conductor to Conductor (pF/ft.)*	*Nom. Conductor DC Resistance @ 20°C (Ohm/1000 ft.)*	*Nominal Outer Shield DC Resistance @ 20°C (Ohm/1000 ft.)*	*Impedance (ohms)*	*Max. Operating Voltage - UL*
A3161604-1	78.2	27.7	4.1	11.7	59.1	1000V
A3161404-1	86	29.5	2.57	10.9	55.7	1000V
A3161204-1	118	34.5	1.62	7.8	47.6	1000V
A3161004-1	127.7	35.74	1.17	7	46	1000V
A3160804-1	122.2	35	0.638	6.4	46.9	1000V
A3171604-1	62.4	21.7	4.1	11.7	45.9	1000V
A3171404-1	79.5	26	2.57	10.9	45.3	1000V
A3171204-1	96.6	29.8	1.62	7.8	52.5	1000V
A3171004-1	123.4	33.5	1.17	7	51.9	1000V
A3170804-1	134.4	36.7	0.638	6.4	43.9	1000V
A3170604-1	142.9	37.7	0.403	5.8	43.6	1000V
A3170404-1	137.3	37.1	0.253	5.2	44.3	1000V
A3170204-1	170.3	40.3	0.159	4.7	40.7	1000V

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