1-800-633-0405

LUTZE
SYSTEMATIC TECHNOLOGY

Control and Signal Cable

Overview

LUTZE multi-conductor industrial grade PLTC electronic cables are suited for use in machine tools, machine and plant construction, HVAC technology, assembly and production lines, process instrumentation, and controls. LUTZE's electronic cables are designed for 300V and 105°C maximum ambient temperature. ECOLAB certified resistance allows this cable to be used in food and beverage washdown procedures.

Features

- 22AWG to 16AWG, 3 to 25 conductors
- Shielded and unshielded constructions
- UL Appliance Wiring Material (AWM) style 2464
- Color-coded Polyvinyl Chloride (PVC) conductor insulation
- Oil-resistant Polyvinyl Chloride (PVC) jacket
- Sunlight resistant
- Gas/vapor-tight shield per UL 13
- ECOLAB certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures.
- Talc and silicone free
- Cut to length in 1-foot increments
- Low 20-foot minimum length
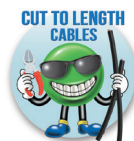- Made in the USA

22AWG Cable Conductor Color Code			
Conductor Number	Primary Color	Conductor Number	Primary Color
1	Black	14	White/Orange
2	Brown	15	White/Yellow
3	Red	16	White/Green
4	Orange	17	White/Blue
5	Yellow	18	White/Violet
6	Green	19	White/Gray
7	Blue	20	White/Black/Brown
8	Violet	21	White/Black/Red
9	Gray	22	White/Black/Orange
10	White	23	White/Black/Yellow
11	White/Black	24	White/Black/Green
12	White/Brown	25	White/Black/Blue
13	White/Red		

20, 18, and 16AWG Cable Conductor Color Code			
Conductor Number	Primary Color	Conductor Number	Primary Color
1	Black	14	Red/Yellow
2	Red	15	Red/Black
3	White	16	White/Black
4	Green	17	White/Red
5	Orange	18	White/Green
6	Blue	19	White/Yellow
7	Brown	20	White/Blue
8	Yellow	21	White/Brown
9	Violet	22	White/Orange
10	Gray	23	White/Gray
11	Pink	24	White/Violet
12	Tan	25	White/Black/Red
13	Red/Green		

MONDAY MINUTE
Cut To Length Wire

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

CUT TO LENGTH CABLES

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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.
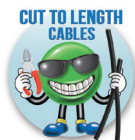
LUTZE ♦
SYSTEMATIC TECHNOLOGY

Control and Signal Cable (Unshielded)

22AWG Control and Signal Cable Specifications (Unshielded)

Conductor Gauge & Stranding	22 AWG, 19-stranded, tinned copper	**UL Classification**	(UL) Type PLTC (UL) Type CM AWM Style 2464 AWM I/II A/B
Conductor Markings**	Color-coded conductors		
Voltage Rating	300V		
Operating Temperature	-40 to 105 deg C (-40 to 221 deg F)	**Approvals***	cULus E331083 CSA LL44103 CE Meets NEC 392, 725, 800 Class I & II, Div. 2 and Class I Zone 2 per NEC 501, 502, and 505 (PLTC use only) RoHS, REACH, TSCA
Temperature Rating	105 deg C		
Jacket Material	PVC		
Jacket Color	Gray		
Flexibility	Flexible		
Shielding	Unshielded	**Sample Print Legend**	WWW.LUTZE.COM Part# A303XXXX LUTZE ELECTRONIC AWGXX-XXC (UL) TYPE PLTC 105C OR CM OR AWM 2464 80C 300V E331083 --- LL41103 CSA CMG OR AWM I/II A/B 105C 300V FT4 --- CE ROHS CE-45 1044 XXXXFT
Sunlight Resistance	Yes		
Outdoor Rated	No		
Oil Resistance	Oil Res II		
Flame Retardant	UL VW-1, FT4		

Note: 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
** Color code located in table on overview page of this section

22AWG Control and Signal Cable (Unshielded)

Part Number	Number of Conductors	AWG	Strand	Overall Conductor Insulation Thickness (Mils)	Overall Jacket Thickness (Mils)	Nominal OD (in +/- 10%))	Minimum Installed Bend Radius (in)	Minimum Cut Length (ft)	Approximate Weight (lb/ft)	Price per Foot
A3032203-1	3					0.181	0.72		0.02	$0.74
A3032204-1	4				37	0.194	0.78		0.03	$0.83
A3032208-1	8	22	19	10		0.243	0.97	20	0.04	$1.31
A3032215-1	15				42	0.318	1.27		0.07	$2.10
A3032225-1	25				52	0.407	1.63		0.12	$3.31

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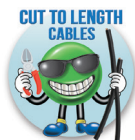
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Control and Signal Cable (Unshielded)

20AWG Control and Signal Cable Specifications (Unshielded)

Conductor Gauge & Stranding	20 AWG, 19-stranded, tinned copper	**UL Classification**	(UL) Type PLTC (UL) Type CM AWM Style 2464 AWM I/II A/B
Conductor Markings**	Color-coded conductors		
Voltage Rating	300V		
Operating Temperature	-40 to 105 deg C (-40 to 221 deg F)	**Approvals***	cULus E331083 CSA LL44103 CE Meets NEC 392, 725, 800 Class I & II, Div. 2 and Class I Zone 2 per NEC 501, 502, and 505 (PLTC use only) RoHS, REACH, TSCA
Temperature Rating	105 deg C		
Jacket Material	PVC		
Jacket Color	Gray		
Flexibility	Flexible		
Shielding	Unshielded	**Sample Print Legend**	WWW.LUTZE.COM Part# A303XXXX LUTZE ELECTRONIC AWGXX-XXC (UL) TYPE PLTC 105C OR CM OR AWM 2464 80C 300V E331083 --- LL41103 CSA CMG OR AWM I/II A/B 105C 300V FT4 --- CE ROHS CE-45 1044 XXXXFT
Sunlight Resistance	Yes		
Outdoor Rated	No		
Oil Resistance	Oil Res II		
Flame Retardant	UL VW-1, FT4		

Note: See web store for maximum cut lengths

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20AWG Control and Signal Cable (Unshielded)

Part Number	Number of Conductors	AWG	Strand	Overall Conductor Insulation Thickness (Mils)	Overall Jacket Thickness (Mils)	Nominal OD (in +/- 10%))	Minimum Installed Bend Radius (in)	Minimum Cut Length (ft)	Approximate Weight (lb/ft)	Price per Foot
A3032003-1	3				37	0.204	0.82		0.03	$0.80
A3032004-1	4					0.220	0.88		0.03	$0.95
A3032008-1	8	20	19	10	42	0.282	1.13	20	0.06	$1.78
A3032015-1	15					0.364	1.46		0.10	$2.97
A3032025-1	25				52	0.461	1.84		0.16	$4.67

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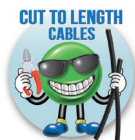
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Control and Signal Cable (Unshielded)

18AWG Control and Signal Cable Specifications (Unshielded)

Conductor Gauge & Stranding	18 AWG, 19-stranded, tinned copper	**UL Classification**	(UL) Type PLTC (UL) Type CM AWM Style 2464 AWM I/II A/B
Conductor Markings**	Color-coded conductors		
Voltage Rating	300V		
Operating Temperature	-40 to 105 deg C (-40 to 221 deg F)	**Approvals***	cULus E331083 CSA LL44103 CE Meets NEC 392, 725, 800 Class I & II, Div. 2 and Class I Zone 2 per NEC 501, 502, and 505 (PLTC use only) RoHS, REACH, TSCA
Temperature Rating	105 deg C		
Jacket Material	PVC		
Jacket Color	Gray		
Flexibility	Flexible		
Shielding	Unshielded	**Sample Print Legend**	WWW.LUTZE.COM Part# A303XXXX LUTZE ELECTRONIC AWGXX-XXC (UL) TYPE PLTC 105C OR CM OR AWM 2464 80C 300V E331083 --- LL41103 CSA CMG OR AWM I/II A/B 105C 300V FT4 --- CE ROHS CE-45 1044 XXXXFT
Sunlight Resistance	Yes		
Outdoor Rated	No		
Oil Resistance	Oil Res II		
Flame Retardant	UL VW-1, FT4		

Note: See web store for maximum cut lengths

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18AWG Control and Signal Cable (Unshielded)

Part Number	Number of Conductors	AWG	Strand	Overall Conductor Insulation Thickness (Mils)	Overall Jacket Thickness (Mils)	Nominal OD (in +/- 10%))	Minimum Installed Bend Radius (in)	Minimum Cut Length (ft)	Approximate Weight (lb/ft)	Price per Foot
A3031803-1	3	18	19	10	37	0.223	0.89	20	0.04	$1.22
A3031804-1	4				37	0.242	0.97		0.04	$1.48
A3031808-1	8				42	0.312	1.25		0.08	$2.53
A3031815-1	15				53	0.427	1.71		0.14	$4.56
A3031825-1	25				52	0.515	2.06		0.23	$7.03

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CUT TO LENGTH CABLES

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SYSTEMATIC TECHNOLOGY

Control and Signal Cable (Unshielded)

16AWG Control and Signal Cable Specifications (Unshielded)

Conductor Gauge & Stranding	16 AVWG, 26-stranded, tinned copper	**UL Classification**	(UL) Type PLTC (UL) Type CM AWM Style 2464 AWM I/II A/B
Conductor Markings**	Color-coded conductors		
Voltage Rating	300V		
Operating Temperature	-40 to 105 deg C (-40 to 221 deg F)	**Approvals***	cULus E331083 CSA LL44103 CE Meets NEC 392, 725, 800 Class I & II, Div. 2 and Class I Zone 2 per NEC 501, 502, and 505 (PLTC use only) RoHS, REACH, TSCA
Temperature Rating	105 deg C		
Jacket Material	PVC		
Jacket Color	Gray		
Flexibility	Flexible		
Shielding	Unshielded	**Sample Print Legend**	WWW.LUTZE.COM Part# A303XXXX LUTZE ELECTRONIC AWGXX-XXC (UL) TYPE PLTC 105C OR CM OR AWM 2464 80C 300V E331083 --- LL41103 CSA CMG OR AWM I/II A/B 105C 300V FT4 --- CE ROHS CE-45 1044 XXXXFT
Sunlight Resistance	Yes		
Outdoor Rated	No		
Oil Resistance	Oil Res II		
Flame Retardant	UL VW-1, FT4		

Note: See web store for maximum cut lengths

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** Color code located in table on overview page of this section

16AWG Control and Signal Cable (Unshielded)

Part Number	Number of Conductors	AWG	Strand	Overall Conductor Insulation Thickness (Mils)	Overall Jacket Thickness (Mils)	Nominal OD (in +/- 10%))	Minimum Installed Bend Radius (in)	Minimum Cut Length (ft)	Approximate Weight (lb/ft)	Price per Foot
A3031603-1	3				37	0.271	1.08		0.05	$1.21
A3031604-1	4				42	0.304	1.22		0.06	$1.65
A3031608-1	8	16	26	16		0.407	1.63	20	0.12	$3.01
A3031615-1	15				53	0.532	2.13		0.21	$5.07
A3031625-1	25					0.669	2.68		0.34	$8.34

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CUT TO LENGTH CABLES

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Control and Signal Cable (Shielded)

22AWG Control and Signal Cable Specifications (Shielded)

Conductor Gauge & Stranding	22 AWG, 19-stranded, tinned copper	**UL Classification**	(UL) Type PLTC (UL) Type CM AWM Style 2464 AWM I/II A/B
Conductor Markings**	Color-coded conductors		
Voltage Rating	300V		
Operating Temperature	-40 to 105 deg C (-40 to 221 deg F)	**Approvals***	cULus E331083 CSA LL44103 CE Meets NEC 392, 725, 800 Class I & II, Div. 2 and Class I Zone 2 per NEC 501, 502, and 505 (PLTC use only) RoHS, REACH, TSCA
Temperature Rating	105 deg C		
Jacket Material	PVC		
Jacket Color	Gray		
Flexibility	Flexible		
Shielding	Shielded with foil tape, tinned copper braid, and drain wire	**Sample Print Legend**	WWW.LUTZE.COM Part# A313XXXX LUTZE ELECTRONIC (C) Y AWGXX-XXC SHIELDED (UL) TYPE PLTC 105C SUN RES OR CM OR AWM 2464 80C 300V E331083 --- LL41103 CSA CMG OR AWM I/II A/B 105C 300V FT4 --- CE ROHS CE-45 1351 XXXXXFT
Sunlight Resistance	Yes		
Outdoor Rated	No		
Oil Resistance	Oil Res II		
Flame Retardant	UL VW-1, FT4		

Note: See web store for maximum cut lengths

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** Color code located in table on overview page of this section

22AWG Control and Signal Cable (Shielded)

Part Number	Number of Conductors	AWG	Strand	Overall Conductor Insulation Thickness (Mils)	Overall Jacket Thickness (Mils)	Nominal OD (in +/- 10%))	Minimum Installed Bend Radius (in)	Minimum Cut Length (ft)	Approximate Weight (lb/ft)	Price per Foot
A3132203-1	3					0.205	0.82		0.03	$1.10
A3132204-1	4				37	0.218	0.87		0.04	$1.23
A3132208-1	8	22	19	10		0.263	1.05	20	0.06	$1.74
A3132215-1	15				40	0.338	1.35		0.09	$2.96
A3132225-1	25				50	0.423	1.69		0.14	$4.10

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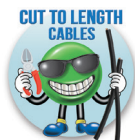
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Control and Signal Cable (Shielded)

20AWG Control and Signal Cable Specifications (Shielded)

Conductor Gauge & Stranding	20 AWG, 19-stranded, tinned copper	**UL Classification**	(UL) Type PLTC (UL) Type CM AWM Style 2464 AWM I/II A/B
Conductor Markings**	Color-coded conductors		
Voltage Rating	300V		
Operating Temperature	-40 to 105 deg C (-40 to 221 deg F)	**Approvals***	cULus E331083 CSA LL44103 CE Meets NEC 392, 725, 800 Class I & II, Div. 2 and Class I Zone 2 per NEC 501, 502, and 505 (PLTC use only) RoHS, REACH, TSCA
Temperature Rating	105 deg C		
Jacket Material	PVC		
Jacket Color	Gray		
Flexibility	Flexible		
Shielding	Shielded with foil tape, tinned copper braid, and drain wire	**Sample Print Legend**	WWW.LUTZE.COM Part# A313XXXX LUTZE ELECTRONIC (C) Y AWGXX-XXC SHIELDED (UL) TYPE PLTC 105C SUN RES OR CM OR AWM 2464 80C 300V E331083 --- LL41103 CSA CMG OR AWM I/II A/B 105C 300V FT4 --- CE ROHS CE-45 1351 XXXXXFT
Sunlight Resistance	Yes		
Outdoor Rated	No		
Oil Resistance	Oil Res II		
Flame Retardant	UL VW-1, FT4		

Note: See web store for maximum cut lengths

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** Color code located in table on overview page of this section

20AWG Control and Signal Cable (Shielded)

Part Number	Number of Conductors	AWG	Strand	Overall Conductor Insulation Thickness (Mils)	Overall Jacket Thickness (Mils)	Nominal OD (in +/- 10%))	Minimum Installed Bend Radius (in)	Minimum Cut Length (ft)	Approximate Weight (lb/ft)	Price per Foot
A3132003-1	3				40	0.230	0.92		0.04	$1.33
A3132004-1	4				40	0.246	0.98		0.05	$1.51
A3132008-1	8	20	19	10	42	0.302	1.21	20	0.08	$2.38
A3132015-1	15				52	0.404	1.62		0.13	$3.94
A3132025-1	25				52	0.481	1.92		0.19	$5.79

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Control and Signal Cable (Shielded)

18AWG Control and Signal Cable Specifications (Shielded)

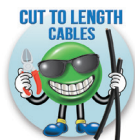|			
Conductor Gauge & Stranding	18 AWG, 19-stranded, tinned copper	**UL Classification**	(UL) Type PLTC (UL) Type CM AWM Style 2464 AWM I/II A/B
Conductor Markings**	Color-coded conductors		
Voltage Rating	300V		
Operating Temperature	-40 to 105 deg C (-40 to 221 deg F)	**Approvals***	cULus E331083 CSA LL44103 CE Meets NEC 392, 725, 800 Class I & II, Div. 2 and Class I Zone 2 per NEC 501, 502, and 505 (PLTC use only) RoHS, REACH, TSCA
Temperature Rating	105 deg C		
Jacket Material	PVC		
Jacket Color	Gray		
Flexibility	Flexible		
Shielding	Shielded with foil tape, tinned copper braid, and drain wire	**Sample Print Legend**	WWW.LUTZE.COM Part# A313XXXX LUTZE ELECTRONIC (C) Y AWGXX-XXC SHIELDED (UL) TYPE PLTC 105C SUN RES OR CM OR AWM 2464 80C 300V E331083 --- LL41103 CSA CMG OR AWM I/II A/B 105C 300V FT4 --- CE ROHS CE-45 1351 XXXXXFT
Sunlight Resistance	Yes		
Outdoor Rated	No		
Oil Resistance	Oil Res II		
Flame Retardant	UL VW-1, FT4		

Note: See web store for maximum cut lengths

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18AWG Control and Signal Cable (Shielded)

Part Number	Number of Conductors	AWG	Strand	Overall Conductor Insulation Thickness (Mils)	Overall Jacket Thickness (Mils)	Nominal OD (in +/- 10%))	Minimum Installed Bend Radius (in)	Minimum Cut Length (ft)	Approximate Weight (lb/ft)	Price per Foot
A3131803-1	3	18	19	10	37	0.243	0.97	20	0.05	$1.91
A3131804-1	4				37	0.262	1.05		0.06	$2.12
A3131808-1	8				42	0.332	1.33		0.10	$3.23
A3131815-1	15				52	0.447	1.79		0.18	$5.47
A3131825-1	25				52	0.535	2.14		0.26	$8.33

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Control and Signal Cable (Shielded)

16AWG Control and Signal Cable Specifications (Shielded)

Conductor Gauge & Stranding	16 AWG, 26-stranded, tinned copper	**UL Classification**	(UL) Type PLTC (UL) Type CM AWM Style 2464 AWM I/II A/B
Conductor Markings**	Color-coded conductors		
Voltage Rating	300V		
Operating Temperature	-40 to 105 deg C (-40 to 221 deg F)	**Approvals***	cULus E331083 CSA LL44103 CE Meets NEC 392, 725, 800 Class I & II, Div. 2 and Class I Zone 2 per NEC 501, 502, and 505 (PLTC use only) RoHS, REACH, TSCA
Temperature Rating	105 deg C		
Jacket Material	PVC		
Jacket Color	Gray		
Flexibility	Flexible		
Shielding	Shielded with foil tape, tinned copper braid, and drain wire	**Sample Print Legend**	WWW.LUTZE.COM Part# A313XXXX LUTZE ELECTRONIC (C) Y AWGXX-XXC SHIELDED (UL) TYPE PLTC 105C SUN RES OR CM OR AWM 2464 80C 300V E331083 --- LL41103 CSA CMG OR AWM I/II A/B 105C 300V FT4 --- CE ROHS CE-45 1351 XXXXXFT
Sunlight Resistance	Yes		
Outdoor Rated	No		
Oil Resistance	Oil Res II		
Flame Retardant	UL VW-1, FT4		

Note: See web store for maximum cut lengths

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16AWG Control and Signal Cable (Shielded)

Part Number	Number of Conductors	AWG	Strand	Overall Conductor Insulation Thickness (Mils)	Overall Jacket Thickness (Mils)	Nominal OD (in +/- 10%))	Minimum Installed Bend Radius (in)	Minimum Cut Length (ft)	Approximate Weight (lb/ft)	Price per Foot
A3131603-1	3				42	0.302	1.21		0.07	$1.90
A3131604-1	4				42	0.325	1.3		0.08	$2.17
A3131608-1	8	16	26	16	53	0.428	1.71	20	0.14	$3.53
A3131615-1	15				53	0.553	2.21		0.24	$6.27
A3131625-1	25				63	0.690	2.76		0.37	$9.93

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