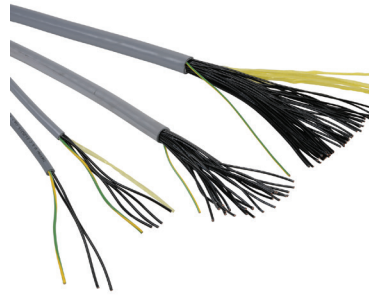
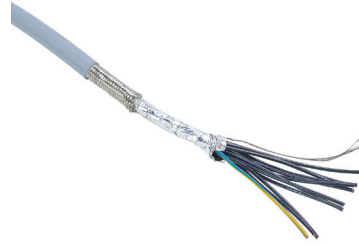


Multi-Conductor Flexible Control Cable



Unshielded Flexible Control Cable



Shielded Flexible Control Cable



Multi-conductor flexible control cable from AutomationDirect is available in sizes from 18AWG 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 line. 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 a flexible, premium grade Thermoplastic Elastomer (TPE) 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, AutomationDirect flexible 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, 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.

Features

- 18AWG to 10AWG, 3 to 41 conductors including a ground
- Unshielded and shielded constructions
- Individual conductors have black PVC/Nylon insulation and are marked with identification numbers
- Rugged Thermoplastic Elastomer (TPE) outer jacket
- Green/yellow ground wire included
- Multiple ratings and approvals include Type TC-ER (eliminates need for conduit/armor), Type MTW (meets NFPA 79), WTTC, Class 1 Division 2, Direct Burial, 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)

Cable Use Examples*:



* Cables shown using AutomationDirect's ZIPport multi-wire connectors. See Terminal Blocks & Wiring Solutions section for further information.



18 Gauge Multi-Conductor Flexible Control Cable (Unshielded)

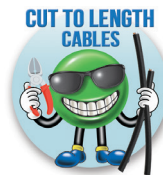
18 Gauge Multi-Conductor Flexible Control Cable Specifications (Unshielded)			
Conductor Gauge & Stranding	18AWG 16/30 bare copper, Class K	Flame Rating	FT4, IEEE 1202/383, ICEA T-29-520
Voltage Rating	600V (Type TC-ER)		UL1685, UL MTW NFPA 79 2007
	1000V (Type WTTC)	Oil Resistance	Oil Res I & II
	1000V (UL/CSA AWM)		ASTM B3, B172, B174
Capacitance	28.2 pF/ft Nom. Conductor to Conductor		UL 1277 - Type TC-ER
Resistance	6.53 Ω /kft*		UL 2277 - Type WTTC
Impedance	55.0 Ω		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 Thermoplastic Elastomer (TPE) - sunlight & oil resistant "		UL 758 - AWM Style 20886
Conductor Insulation	0.015 Inch, PVC + 0.005 Inch, NYLON		C22.2 NO. 230 - c(UL) Type TC
Conductor Markings	"#1-ONE", "2-TWO", "3-THREE", etc... @ 4.5 inch intervals, ICEA Method 4		CSA 22.2 No. 239 - c(UL) Type CIC
Temperature Rating	75°C (167°F) Wet, 90°C (194°F) Dry		CSA C22.2 No. 210 - CSA AWM I/II A/B
Cold Impact	-40°C (-40°F) per UL 1277		Class 1 Division II per NEC 336, 501, 502
Min. Bend Radius	4x diameter		

* Per ASTM B174

18 Gauge Multi-Conductor Flexible 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 \pm 10%)	Minimum Installed Bend Radius (inches)*	Minimum Cut Length (ft)**	Approximate Weight (lb/ft)	Price per foot
V40166-1	3	18	16	20	45	0.28	1.12	20	0.05	\$0.47
V40168-1	4					0.31	1.24	20	0.06	\$0.58
V40170-1	5					0.33	1.32	20	0.07	\$0.74
V40172-1	7					0.36	1.44	20	0.09	\$0.99
V40174-1	9					0.41	1.64	20	0.11	\$1.40
V40176-1	12					0.46	1.84	20	0.14	\$1.67
V40178-1	18				45	0.55	2.20	20	0.21	\$2.33
V40180-1	25				60	0.64	2.56	20	0.25	\$3.26

* Installed bend radius \geq 4x diameter

** See web store for maximum cut lengths



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.

16 Gauge Multi-Conductor Flexible Control Cable (Unshielded)

16 Gauge Multi-Conductor Flexible Control Cable Specifications (Unshielded)				
Conductor Gauge & Stranding	16AWG 26/30 bare copper, Class K	Flame Rating	FT4, IEEE 1202/383, ICEA T-29-520	
Voltage Rating	600V (Type TC-ER)	Applicable Standards	UL1685, UL MTW NFPA 79 2007	
	1000V (Type WTTC)		Oil Resistance	Oil Res I & II
	1000V (UL/CSA AWM)		ASTM B3, B172, B174 UL 1277 - Type TC-ER UL 2277 - Type WTTC UL 1063 - Machine Tool Wiring (MTW) UL 1690 - Data Processing Cable (DP-1) UL 758 - AWM Style 20886 C22.2 NO. 230 - c(UL) Type TC CSA 22.2 No. 239 - c(UL) Type CIC CSA C22.2 No. 210 - CSA AWM I/II A/B Class 1 Division II per NEC 336, 501, 502	
Capacitance	32.78 pF/ft Nom. Conductor to Conductor			
Resistance	4.10 Ω /kft*			
Impedance	46.3 Ω			
Operating Temperature	-40°C to 90°C (-40°F to 194°F)			
Jacket Material	"Flexible Gray Thermoplastic Elastomer (TPE) - sunlight & oil resistant "			
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			
Temperature Rating	75°C (167°F) Wet, 90°C (194°F) Dry			
Cold Impact	-40°C (-40°F) per UL 1277			
Min. Bend Radius	4x diameter			

* Per ASTM B174

16 Gauge Multi-Conductor Flexible 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 $\pm 10\%$)	Minimum Installed Bend Radius (inches)*	Minimum Cut Length (ft)**	Approximate Weight (lb/ft)	Price per foot
V50196-1	3	16	26	20	50	0.31	1.24	20	0.06	\$0.65
V50198-1	4					0.34	1.36	20	0.08	\$0.81
V50200-1	5					0.37	1.48	20	0.09	\$1.02
V50202-1	7					0.40	1.60	20	0.11	\$1.40
V50206-1	9					0.46	1.84	20	0.14	\$1.81
V50208-1	12				50	0.51	2.04	20	0.20	\$2.28
V50212-1	18				65	0.62	2.48	20	0.28	\$3.30
V50214-1	25				0.72	2.88	20	0.35	\$4.46	
V50216-1	41				85	0.91	3.64	20	0.56	\$6.98

* Installed bend radius $\geq 4x$ diameter

** See web store for maximum cut lengths



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.

14 Gauge Multi-Conductor Flexible Control Cable (Unshielded)

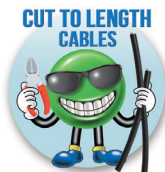
14 Gauge Multi-Conductor Flexible Control Cable Specifications (Unshielded)			
Conductor Gauge & Stranding	14AWG 41/30 bare copper, Class K	Flame Rating	FT4, IEEE 1202/383, ICEA T-29-520
Voltage Rating	600V (Type TC-ER)		UL1685, UL MTW NFPA 79 2007
	1000V (Type WTTC)	Applicable Standards	Oil Res I & II
	1000V (UL/CSA AWM)		ASTM B3, B172, B174
Capacitance	37.09 pF/ft Nom. Conductor to Conductor		UL 1277 - Type TC-ER
Resistance	2.57 Ω /kft*		UL 2277 - Type WTTC
Impedance	40.0 Ω		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 Thermoplastic Elastomer (TPE) - sunlight & oil resistant"		UL 758 - AWM Style 20886
Conductor Insulation	0.015 Inch, PVC + 0.005 Inch, NYLON		C22.2 NO. 230 - c(UL) Type TC
Conductor Markings	"#1-ONE", "2-TWO", "3-THREE", etc... @ 4.5 inch intervals, ICEA Method 4		CSA 22.2 No. 239 - c(UL) Type CIC
Temperature Rating	75°C (167°F) Wet, 90°C (194°F) Dry		CSA C22.2 No. 210 - CSA AWM I/II A/B
Cold Impact	-40°C (-40°F) per UL 1277	Class 1 Division II per NEC 336, 501, 502	
Min. Bend Radius	4x diameter		

* Per ASTM B174

14 Gauge Multi-Conductor Flexible 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 $\pm 10\%$)	Minimum Installed Bend Radius (inches)*	Minimum Cut Length (ft)**	Approximate Weight (lb/ft)	Price per foot
V60127-1	3	14	41	20	50	0.34	1.36	20	0.82	\$0.91
V60129-1	4					0.37	1.48	20	0.11	\$1.12
V60131-1	5					0.41	1.64	20	0.13	\$1.39
V60133-1	7					0.45	1.80	20	0.16	\$1.93
V60135-1	9					0.52	2.08	20	0.21	\$2.51
V60137-1	12					0.60	2.40	20	0.28	\$3.40
V60139-1	18				65	0.70	2.80	20	0.40	\$4.88
V60141-1	25					0.81	3.24	20	0.57	\$6.84

* Installed bend radius $\geq 4x$ diameter

** See web store for maximum cut lengths



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.

12 and 10 Gauge Multi-Conductor Flexible Control Cable (Unshielded)

12 Gauge Multi-Conductor Flexible Control Cable Specifications (Unshielded)			
Conductor Gauge & Stranding	12AWG 65/30 bare copper, Class K	Flame Rating	FT4, IEEE 1202/383, ICEA T-29-520
Voltage Rating	600V (Type TC-ER)	Oil Resistance	UL1685, UL MTW NFPA 79 2007
	1000V (Type WTTTC)		Oil Res I & II
	1000V (UL/CSA AWM)		Applicable Standards
Capacitance	40.4 pF/ft Nom. Conductor to Conductor	ASTM B3, B172, B174	
Resistance	1.62 Ω/kft*	UL 1277 - Type TC-ER	
Impedance	36.1 Ω	UL 2277 - Type WTTTC	
Operating Temperature	-40°C to 90°C (-40°F to 194°F)	UL 1063 - Machine Tool Wiring (MTW)	
Jacket Material	"Flexible Gray Thermoplastic Elastomer (TPE) - sunlight & oil resistant "	UL 1690 - Data Processing Cable (DP-1)	
Conductor Insulation	0.015 Inch, PVC + 0.005 Inch, NYLON	UL 758 - AWM Style 20886	
Conductor Markings	"#1-ONE", "2-TWO", "3-THREE", etc... @ 4.5 inch intervals, ICEA Method 4	C22.2 NO. 230 - c(UL) Type TC	
Temperature Rating	75°C (167°F) Wet, 90°C (194°F) Dry	CSA 22.2 No. 239 - c(UL) Type CIC	
Cold Impact	-40°C (-40°F) per UL 1277	CSA C22.2 No. 210 - CSA AWM I/II A/B	
Min. Bend Radius	4x diameter	Class 1 Division II per NEC 336, 501, 502	

* Per ASTM B174

12 Gauge Multi-Conductor Flexible 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
V70107-1	4	12	65	20	50	0.43	1.72	20	0.15	\$1.81

* Installed bend radius ≥ 4x diameter

** See web store for maximum cut lengths

10 Gauge Multi-Conductor Flexible Control Cable Specifications (Unshielded)			
Conductor Gauge & Stranding	10 AWG 105/30 bare copper, Class K	Flame Rating	FT4, IEEE 1202/383, ICEA T-29-520
Voltage Rating	600V (Type TC-ER)	Oil Resistance	UL1685, UL MTW NFPA 79 2007
	1000V (Type WTTTC)		Oil Res I & II
	1000V (UL/CSA AWM)		Applicable Standards
Capacitance	40.7 pF/ft Nom. Conductor to Conductor	ASTM B3, B172, B174	
Resistance	1.02 Ω/kft*	UL 1277 - Type TC-ER	
Impedance	35.8 Ω	UL 2277 - Type WTTTC	
Operating Temperature	-40°C to 90°C (-40°F to 194°F)	UL 1063 - Machine Tool Wiring (MTW)	
Jacket Material	"Flexible Gray Thermoplastic Elastomer (TPE) - sunlight & oil resistant "	UL 1690 - Data Processing Cable (DP-1)	
Conductor Insulation	0.015 Inch, PVC + 0.005 Inch, NYLON	UL 758 - AWM Style 20886	
Conductor Markings	"#1-ONE", "2-TWO", "3-THREE", etc... @ 4.5 inch intervals, ICEA Method 4	C22.2 NO. 230 - c(UL) Type TC	
Temperature Rating	75°C (167°F) Wet, 90°C (194°F) Dry	CSA 22.2 No. 239 - c(UL) Type CIC	
Cold Impact	-40°C (-40°F) per UL 1277	CSA C22.2 No. 210 - CSA AWM I/II A/B	
Min. Bend Radius	4x diameter	Class 1 Division II per NEC 336, 501, 502	

* Per ASTM B174

10 Gauge Multi-Conductor Flexible Control Cable										
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
V80059-1	4	10	105	25	50	0.50	2.00	20	0.21	\$2.60

* Installed bend radius ≥ 4x diameter

** See web store for maximum cut lengths



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.

18 Gauge Multi-Conductor Flexible Control Cable (Shielded)

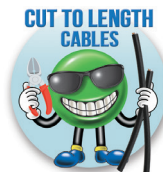
18 Gauge Multi-Conductor Flexible Control Cable Specifications (Shielded)			
Conductor Gauge & Stranding	18AWG 16/30 bare copper, Class K	Cold Impact	-40°C (-40°F) per UL 1277
Voltage Rating	600V (Type TC-ER)	Min. Bend Radius	12x diameter
	1000V (Type WTTC)	Flame Rating	FT4, IEEE 1202/383, ICEA T-29-520
	1000V (UL/CSA AWM)		UL1685, UL MTW NFPA 79 2007
Capacitance	72.02 pF/ft Nom. Conductor to Shield	Applicable Standards	Oil Res I & II
	40.01 pF/ft Nom. Conductor to Conductor		ASTM B3, B172, B174
Resistance	6.53 Ω/kt*		UL 1277 - Type TC-ER
Impedance	53.8 Ω		UL 2277 - Type WTTC
Operating Temperature	-40°C to 90°C (-40°F to 194°F)		UL 1063 - Machine Tool Wiring (MTW)
Jacket Material	Flexible Gray Thermoplastic Elastomer (TPE) - sunlight & oil resistant		UL 1690 - Data Processing Cable (DP-1)
Shield	Overall aluminized polyester foil shield 100% coverage & tinned copper braid 85% coverage with 20 AWG drain		UL 758 - AWM Style 20886
Conductor Insulation	0.015 Inch, PVC + 0.005 Inch, NYLON		C22.2 NO. 230 - c(UL) Type TC
Conductor Markings	"#1-ONE", "2-TWO", "3-THREE", etc... @ 4.5 inch intervals, ICEA Method 4		CSA 22.2 No. 239 - c(UL) Type CIC
Temperature Rating	75°C (167°F) Wet, 90°C (194°F) Dry		CSA C22.2 No. 210 - CSA AWM I/II A/B
			Class 1 Division II per NEC 336, 501, 502

* Per ASTM B174

18 Gauge Multi-Conductor Flexible 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
MCTC-18-3S-1	3	18	16	20	47	0.30	3.60	20	0.06	\$0.89
MCTC-18-4S-1	4					0.33	3.96	20	0.07	\$0.98
MCTC-18-5S-1	5					0.35	4.20	20	0.08	\$1.08
MCTC-18-7S-1	7					0.38	4.56	20	0.10	\$1.27
MCTC-18-9S-1	9					0.44	5.28	20	0.14	\$1.58
MCTC-18-12S-1	12					0.47	5.64	20	0.16	\$1.84
MCTC-18-25S-1	25				62	0.66	7.92	20	0.31	\$3.53

* Installed bend radius ≥ 4x diameter

** See web store for maximum cut lengths



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.

16 Gauge Multi-Conductor Flexible Control Cable (Shielded)

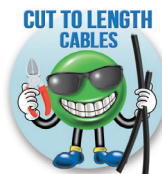
16 Gauge Multi-Conductor Flexible Control Cable Specifications (Shielded)			
Conductor Gauge & Stranding	16AWG 26/30 bare copper, Class K	Cold Impact	-40°C (-40°F) per UL 1277
Voltage Rating	600V (Type TC-ER)	Min. Bend Radius	12x diameter
	1000V (Type WTTC)	Flame Rating	FT4, IEEE 1202/383, ICEA T-29-520
	1000V (UL/CSA AWM)		UL1685, UL MTW NFPA 79 2007
Capacitance	85.59 pF/ft Nom. Conductor to Shield	Oil Resistance	Oil Res I & II
	47.55 pF/ft Nom. Conductor to Conductor		ASTM B3, B172, B174
Resistance	4.10 Ω/kft*		UL 1277 - Type TC-ER
Impedance	45.3 Ω		UL 2277 - Type WTTC
Operating Temperature	-40°C to 90°C (-40°F to 194°F)		UL 1063 - Machine Tool Wiring (MTW)
Jacket Material	Flexible Gray Thermoplastic Elastomer (TPE) - sunlight & oil resistant		UL 1690 - Data Processing Cable (DP-1)
Shield	Overall aluminized polyester foil shield 100% coverage & tinned copper braid 85% coverage with 18 AWG drain		UL 758 - AWM Style 20886
Conductor Insulation	0.015 Inch, PVC + 0.005 Inch, NYLON		C22.2 NO. 230 - c(UL) Type TC
Conductor Markings	"#1-ONE", "2-TWO", "3-THREE", etc... @ 4.5 inch intervals, ICEA Method 4		CSA 22.2 No. 239 - c(UL) Type CIC
Temperature Rating	75°C (167°F) Wet, 90°C (194°F) Dry		CSA C22.2 No. 210 - CSA AWM I/II A/B
			Class 1 Division II per NEC 336, 501, 502

* Per ASTM B174

16 Gauge Multi-Conductor Flexible 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
MCTC-16-3S-1	3	16	26	20	47	0.33	3.96	20	0.08	\$1.09
MCTC-16-4S-1	4					0.36	4.32	20	0.10	\$1.19
MCTC-16-5S-1	5					0.39	4.68	20	0.11	\$1.34
MCTC-16-7S-1	7					0.42	5.04	20	0.14	\$1.67
MCTC-16-9S-1	9					0.49	5.88	20	0.18	\$2.01
MCTC-16-12S-1	12				73	0.56	6.72	20	0.28	\$2.73
MCTC-16-25S-1	25				76	0.75	9.00	20	0.41	\$4.69

* Installed bend radius ≥ 4x diameter

** See web store for maximum cut lengths



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.

14 Gauge Multi-Conductor Flexible Control Cable (Shielded)

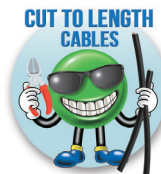
14 Gauge Multi-Conductor Flexible Control Cable Specifications (Shielded)			
Conductor Gauge & Stranding	14AWG 41/30 bare copper, Class K	Cold Impact	-40°C (-40°F) per UL 1277
Voltage Rating	600V (Type TC-ER)	Min. Bend Radius	12x diameter
	1000V (Type WTTC)	Flame Rating	FT4, IEEE 1202/383, ICEA T-29-520
	1000V (UL/CSA AWM)		UL1685, UL MTW NFPA 79 2007
Capacitance	99.09 pF/ft Nom. Conductor to Shield 55.05 pF/ft Nom. Conductor to Conductor	Oil Resistance	Oil Res I & II
Resistance	2.57 Ω/kft*		ASTM B3, B172, B174
Impedance	39.1 Ω		UL 1277 - Type TC-ER
Operating Temperature	-40°C to 90°C (-40°F to 194°F)		UL 2277 - Type WTTC
Jacket Material	Flexible Gray Thermoplastic Elastomer (TPE) - sunlight & oil resistant		UL 1063 - Machine Tool Wiring (MTW)
Shield	Overall aluminized polyester foil shield 100% coverage & tinned copper braid 85% coverage with 16 AWG drain		UL 1690 - Data Processing Cable (DP-1)
Conductor Insulation	0.015 Inch, PVC + 0.005 Inch, NYLON		UL 758 - AWM Style 20886
Conductor Markings	"#1-ONE", "2-TWO", "3-THREE", etc... @ 4.5 inch intervals, ICEA Method 4		C22.2 NO. 230 - c(UL) Type TC
Temperature Rating	75°C (167°F) Wet, 90°C (194°F) Dry		CSA 22.2 No. 239 - c(UL) Type CIC
			CSA C22.2 No. 210 - CSA AWM I/II A/B Class 1 Division II per NEC 336, 501, 502

* Per ASTM B174

14 Gauge Multi-Conductor Flexible 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
MCTC-14-3S-1	3	14	41	20	47	0.36	4.32	20	0.10	\$1.38
MCTC-14-4S-1	4					0.40	4.80	20	0.13	\$1.65
MCTC-14-7S-1	7					0.47	5.64	20	0.20	\$2.43

* Installed bend radius ≥ 4x diameter

** See web store for maximum cut lengths



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.

12 Gauge Multi-Conductor Flexible Control Cable (Shielded)

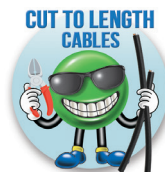
12 Gauge Multi-Conductor Flexible Control Cable Specifications (Shielded)			
Conductor Gauge & Stranding	12AWG 65/30 bare copper, Class K	Cold Impact	-40°C (-40°F) per UL 1277
Voltage Rating	600V (Type TC-ER)	Min. Bend Radius	12x diameter
	1000V (Type WTTC)	Flame Rating	FT4, IEEE 1202/383, ICEA T-29-520
	1000V (UL/CSA AWM)		UL1685, UL MTW NFPA 79 2007
Capacitance	109.85 pF/ft Nom. Conductor to Shield	Oil Resistance	Oil Res I & II
	61.03 pF/ft Nom. Conductor to Conductor		ASTM B3, B172, B174
Resistance	1.62 Ω/kft*		UL 1277 - Type TC-ER
Impedance	35.5 Ω		UL 2277 - Type WTTC
Operating Temperature	-40°C to 90°C (-40°F to 194°F)		UL 1063 - Machine Tool Wiring (MTW)
Jacket Material	Flexible Gray Thermoplastic Elastomer (TPE) - sunlight & oil resistant		UL 1690 - Data Processing Cable (DP-1)
Shield	Overall aluminized polyester foil shield 100% coverage & tinned copper braid 85% coverage with 14 AWG drain		UL 758 - AWM Style 20886
Conductor Insulation	0.015 Inch, PVC + 0.005 Inch, NYLON		C22.2 NO. 230 - c(UL) Type TC
Conductor Markings	"#1-ONE", "2-TWO", "3-THREE", etc... @ 4.5 inch intervals, ICEA Method 4		CSA 22.2 No. 239 - c(UL) Type CIC
Temperature Rating	75°C (167°F) Wet, 90°C (194°F) Dry		CSA C22.2 No. 210 - CSA AWM I/II A/B
			Class 1 Division II per NEC 336, 501, 502

* Per ASTM B174

12 Gauge Multi-Conductor Flexible 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
MCTC-12-4S-1	4	12	65	25	47	0.44	5.28	20	0.18	\$1.96

* Installed bend radius ≥ 4x diameter

** See web store for maximum cut lengths



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10 Gauge Multi-Conductor Flexible Control Cable (Shielded)

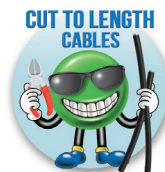
10 Gauge Multi-Conductor Flexible Control Cable Specifications (Shielded)			
Conductor Gauge & Stranding	10AWG 105/30 bare copper, Class K	Cold Impact	-40°C (-40°F) per UL 1277
Voltage Rating	600V (Type TC-ER)	Min. Bend Radius	12x diameter
	1000V (Type WTTC)	Flame Rating	FT4, IEEE 1202/383, ICEA T-29-520
	1000V (UL/CSA AWM)		UL1685, UL MTW NFPA 79 2007
Capacitance	110.83 pF/ft Nom. Conductor to Shield	Oil Resistance	Oil Res I & II
	61.57 pF/ft Nom. Conductor to Conductor		ASTM B3, B172, B174
Resistance	1.02 Ω/kt*		UL 1277 - Type TC-ER
Impedance	35.0 Ω		UL 2277 - Type WTTC
Operating Temperature	-40°C to 90°C (-40°F to 194°F)		UL 1063 - Machine Tool Wiring (MTW)
Jacket Material	Flexible Gray Thermoplastic Elastomer (TPE) - sunlight & oil resistant		UL 1690 - Data Processing Cable (DP-1)
Shield	Overall aluminized polyester foil shield 100% coverage & tinned copper braid 85% coverage with 12 AWG drain		UL 758 - AWM Style 20886
Conductor Insulation	0.015 Inch, PVC + 0.005 Inch, NYLON		C22.2 NO. 230 - c(UL) Type TC
Conductor Markings	"#1-ONE", "2-TWO", "3-THREE", etc... @ 4.5 inch intervals, ICEA Method 4		CSA 22.2 No. 239 - c(UL) Type CIC
Temperature Rating	75°C (167°F) Wet, 90°C (194°F) Dry		CSA C22.2 No. 210 - CSA AWM I/II A/B
			Class 1 Division II per NEC 336, 501, 502

* Per ASTM B174

10 Gauge Multi-Conductor Flexible 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
MCTC-10-4S-1	4	10	105	25	62	0.56	6.72	20	0.32	\$3.13

* Installed bend radius ≥ 4x diameter

** See web store for maximum cut lengths



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