
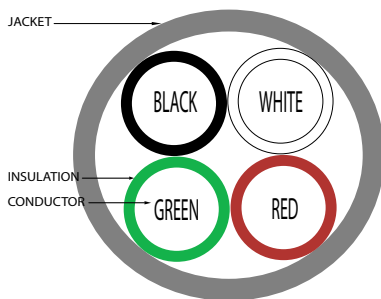


# Control and Signal Cable

Q3100-1 Unshielded 4-Conductor 16AWG Cable Specifications			
<b>Conductors Gauge &amp; Stranding</b>	16AWG 19/.0117 Stranded Tinned Copper	<b>Insulated Conductor Diameter</b>	0.089 Inch Nominal
<b>Voltage Rating</b>	300V	<b>Twisted Pair Diameter</b>	0.215 Inch Nominal
<b>Temperature Rating, Max.</b>	80°C & 90°C (176°F & 194°F)	<b>Overall Diameter</b>	0.279 Inch Nominal
<b>Temperature Rating, Min.</b>	-20°C (-4°F)	<b>Jacket Color</b>	Chrome Gray
<b>Capacitance, Mutual, Nom.</b>	26 pF/ft	<b>Jacket Thickness</b>	0.032 Inch Nominal
<b>Capacitance, Grounded, Nom.</b>	N/A	<b>Jacket Material</b>	Polyvinylchloride (PVC)
<b>Dielectric Withstanding, Min.</b>	1000V RMS	<b>Sunlight Resistant</b>	No
<b>D.C. Resistance, Max.</b>	4.82 Ω / 1000ft.	<b>Oil Resistance</b>	No
<b>Conductor Twist / Lay</b>	Left hand / 2-1/2 Inch	<b>Flame Retardant</b>	FT-4
<b>Shield</b>	None	<b>Approvals</b>	NEC (UL) TYPE CL2 UL STYLE 2464 CSA AWM FT4
<b>Drain</b>	None		
<b>Conductor Insulation Material</b>	Polyvinylchloride (PVC)		
<b>Conductor Identification</b>	Black, White, Red, Green	<b>Sample Print Legend</b>	QUABBIN 3100 (UL) TYPE CL2 16 AWG 90C OR AWM 2464 -- CSA LL51726 AWM I/II A/B 90C 300V FT4 -- RoHS -- (LOT DESIGNATOR)
<b>Conductor Insulation Wall Thickness</b>	0.016 Inch Nominal		
<b>Bare Conductor Diameter</b>	0.057 Inch Nominal		

Q3100-1 Unshielded 4-Conductor 16AWG Cable Specifications								
Part Number	Number of Conductors	AWG	Strand	Maximum O.D. (Inches ± 10%)	Minimum Installed Bend Radius (inches)*	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per foot
								
Q3100-1	4	16	19	0.279 [7.09 mm]	2.79	30	0.0562	



\* See web store

for maximum cut lengths



Please Note: Our prices on Control and Sensor 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.

# Control and Signal Cable



Control and signal cable from AutomationDirect is available in sizes from 24 AWG to 16 AWG with 2, 3, 4, 5, 6, 8 or 12-conductors. These are available either in unshielded or shielded constructions. Individual conductors are stranded tinned copper with color coded insulation for easy identification, with an industry standard PVC Chrome Grey Jacket. Shielded versions include an overall aluminum mylar foil tape with a tinned copper drain wire for maximum effectiveness against external electrical noise interference.

With a 300-volt rating, these cables are ideal for low voltage control signals and audio applications.

The 4-conductor unshielded versions are designed to work directly with our SureStep® STP-DRV drives for applications when a longer cable is required. The cables carry both UL and CSA approvals and are proudly made in the USA. Combining all that with our cut to length ordering, which eliminates unnecessary expense and waste by ordering only the length needed in 1 foot increments with a low 30 foot minimum, makes these cables a great value.

Cable Application Examples	
Part Number	Common Application
Q8165-1	Instrumentation, audio, control cable
Q8170-1	RS-232 computer interconnect, instrumentation, sound, broadcast, Class 2 circuits, RoHS compliant materials
Q8508-1	Low capacitance, RS-232 computer interconnect, extended distance cable, RoHS compliant materials
Q8175-1	RS-232 computer interconnect, instrumentation, sound, broadcast, Class 2 circuits, RoHS compliant materials
Q8180-1	
Q7115-1	Instrumentation, audio, control cable
Q7121-1	
Q7125-1	Instrumentation, audio, control cable, stepper motor control
Q7135-1	RS-232 computer interconnect, control and sound cable, RoHS compliant materials
Q7145-1	Instrumentation, audio, control cable
Q7315-1	
Q7120-1	RS-232 computer interconnect, control and sound cable, RoHS compliant materials
Q7325-1	Instrumentation, sound, broadcast cable, RoHS compliant materials
Q7525-1	Communication, data and control cable, RoHS compliant materials
Q7395-1	Instrumentation, audio, control cable
Q7535-1	Communication, data and control cable, RoHS compliant materials
Q7160-1	RS-232 computer interconnect, control and sound cable, RoHS compliant materials
Q6130-1	Instrumentation, audio and control cable, RoHS compliant materials
Q6100-1	Instrumentation, audio, control cable, stepper motor control
Q6140-1	Instrumentation, sound, broadcast cable
Q0165-1	Process system interconnect, power limited tray cable, instrumentation tray cable, class 3 circuits
Q0220-1	
Q6145-1	Instrumentation, sound, broadcast cable, RoHS compliant materials
Q4560-1	Instrumentation, sound, broadcast cable
Q0140-1	Process system interconnect, power limited tray cable, instrumentation tray cable, class 3 circuits
Q4100-1	Instrumentation, audio, control cable, stepper motor control
Q4105-1	Instrumentation, audio and control cable, RoHS compliant materials
Q4165-1	Instrumentation, sound, broadcast cable
Q0170-1	Process system interconnect, power limited tray cable, instrumentation tray cable, class 3 circuits, RoHS compliant materials
Q4170-1	Instrumentation, sound, broadcast cable
Q4175-1	Instrumentation, sound, broadcast cable, RoHS compliant materials
Q4177-1	
Q3100-1	Instrumentation, audio, control cable, stepper motor control



# Control and Signal Cable

Control & Signal Cable Cross-Reference							
ADC	Belden	Quabbin	Carol	Alpha	Lake	Description	Colors
Q8165-1	9533	8165	C0741A	6300/3	C243CST-45	24 AWG, 3-conductor, shielded, PVC, chrome gray,	bk/rd/wh
Q8170-1	9534	8170	C0742A	6300/4	C244CST-BLD	24 AWG, 4-conductor, shielded, PVC, chrome gray,	bk/rd/wh/gn
Q8508-1	---	8508	---	---	---	24 AWG, 4 twisted pairs, shielded, PVC, chrome gray,	bk-wh/wh-bk/gn-wh/rd-wh
Q8175-1	9535	8175	C0753A	6305	C245CST-45	24 AWG, 5-conductor, shielded, PVC, chrome gray,	bk/rd/wh/gn/bn
Q8180-1	9536	8180	C0743A	6306	B246CST	24 AWG, 6-conductor, shielded, PVC, chrome gray,	bk/rd/wh/gn/bn/bu
Q7115-1	8442	7115	C6348A	1172C	B222CT	22AWG, 2-conductor, unshielded, PVC, chrome gray	bk/rd
Q7121-1	9443	7121	C4062A	1173C	C223CT	22AWG, 3-conductor, unshielded, PVC, chrome gray	bk/rd/gn
Q7125-1	8444	7125	C4063A	1174C	----	22AWG, 4-conductor, unshielded, PVC, chrome gray	bk/rd/wh/gn
Q7135-1	---	7135		1176C	---	22AWG, 6-conductor, unshielded, PVC, chrome gray	bk/rd/wh/gn/bu/or
Q7145-1	9421	7145	C4065	1178C	B228CT-45	22AWG, 8-conductor, unshielded, PVC, chrome gray	bk/rd/wh/gn/bn/bu/or/yl
Q7315-1	8451	7315	C2516A	2461C	222CSTPP	22AWG, 2-conductor, shielded, PVC, chrome gray	bk/rd
Q7120-1	---	7120	---	---	---	22AWG, 3-conductor, unshielded, PVC, chrome gray	bk/rd/wh
Q7325-1	8771	7325	C2526	1294C	223CSP	22AWG, 3-conductor, shielded, PVC, chrome gray	bk/rd/cl
Q7525-1	---	7525	C0762	1294C	---	22AWG, 4-conductor, shielded, PVC, chrome gray	bk/rd/wh/gn
Q7395-1	8723	7395	C1352	2466C	B222PRT	22AWG, 2 twisted pairs, shielded, PVC, chrome gray	bk/rd/wh/gn
Q7535-1	---	7535	C0763	1296C		22AWG, 6-conductor, shielded, PVC, chrome gray	bk/rd/wh/gn/bu/or
Q7160-1	8457	7160	C4607	1181C	C2212CT-2464	22AWG, 12-conductor, unshielded, PVC, chrome gray	bk/rd/wh/gn/bn/bu/or/yl/vi/gr/pk/tn
Q6130-1	8205	6130	C6351	1895C	B202CT	20 AWG, 1 twisted pair, unshielded, PVC, chrome gray	bk/rd
Q6100-1	9444	6100	C6353A	1317C	----	20AWG, 4-conductor, unshielded, PVC, chrome gray	bk/rd/wh/gn
Q6140-1	8762	6140	C2524A	2411C	202CSP	20AWG, 2-conductor, shielded, PVC, chrome gray	bk/cl
Q0165-1	9320	0165	---	M39115	---	20AWG, 2-conductor, shielded, PVC, chrome gray	bk/rd
Q0220-1	9364	0220	C0453A	M39116	----	20AWG, 3-conductor, shielded, PVC, chrome gray	bk/rd/wh
Q6145-1	8772	6145	C2528	2413C	203CSP	20AWG, 3-conductor, shielded, PVC, chrome gray	bk/rd/cl
Q4560-1	9740	4560	C8116	1897C	B182CT16	18AWG, 2-conductor, unshielded, PVC, chrome gray	bk/rd
Q0140-1	9409	140	C0435	---	---	18AWG, 2-conductor, unshielded, PVC, chrome gray	bk/rd
Q4100-1	8489	4100	C2404A	1858/4C	C184T(16)-2598	18AWG, 4-conductor, unshielded, PVC, chrome gray	bk/rd/wh/gn
Q4105-1	8465	4105	C2420	1898/5C	B185CT(19)-45	18AWG, 5-conductor, unshielded, PVC, chrome gray	bk/rd/wh/gn/bn
Q4165-1	8760	4165	C2534A	2421C	C182CSTP(16)-4S	18AWG, 2-conductor, shielded, PVC, chrome gray	bk/cl
Q0170-1	9318	170	C0454	---	---	18AWG, 2-conductor, shielded, PVC, chrome gray	bk/rd
Q4170-1	8770	4170	C2535A	2423C	183CSP	18AWG, 3-conductor, shielded, PVC, chrome gray	bk/rd/cl
Q4175-1	9418	4175	C2543	M13244	C184CST(19)-45BL	18AWG, 4-conductor, shielded, PVC, chrome gray	bk/rd/wh/gn
Q4177-1	---	4177	---	---	---	18AWG, 6-conductor, shielded, PVC, chrome gray	bk/rd/wh/gn/bn/bu
Q3100-1	8620	3100	C2425A	----	----	16AWG, 4-conductor, unshielded, PVC, chrome gray	bk/rd/wh/gn



Click on the above thumbnail or go to <https://VID-WD-0016> for a short introduction on our cut to length cable