

# Instrumentation Cable



## Overview

AutomationDirect offers 300V UL Instrumentation Cable available with 20AWG, 18AWG and 16AWG conductors in 1, 2, 4, or 8 twisted pairs with an overall shield or in 2, 4, or 8 individually shielded twisted pairs with an overall shield. The overall shielded cables have an aluminum/polyester foil shield with 100% coverage and a tinned copper continuous drain wire for protection against external electrical noise interference. Cables with both individually shielded pairs and an overall shield have aluminum/polyester foil shields with 100% coverage complete with separate tinned copper continuous drain wires for maximum effectiveness against both external electrical noise interference and crosstalk between pairs. Individual conductor pairs are stranded bare copper with black and white premium grade PVC insulation and marked with alpha-numeric print for easy identification. The cable's outer jacket is a black premium grade PVC that is sunlight resistant. A convenient 22AWG orange PVC insulated communications conductor is included on 18AWG and 16AWG multi-pair cables. Cut to length in 1 foot increments with a 20 foot minimum length.

## Features

- Typical applications include industrial instrumentation, control, alarm, audio, intercom, and energy management circuits
- Dual listed Type ITC and Type PLTC
- Suitable for use in hazardous locations
- 20AWG, 18AWG, and 16AWG with 2, 4 or 8 twisted pairs, overall shield or individually shielded pairs with overall shield
- Conductor pairs with black and white premium PVC insulation and alpha-numeric identification
- Communication (Talk) wire included on multi-pair 18AWG and 16AWG cables for use during installation or instrument calibration
- Sunlight resistant PVC outer jacket with sequential foot markings
- Cut to length in 1 foot increments
- Low 20 foot minimum length
- Made in the USA

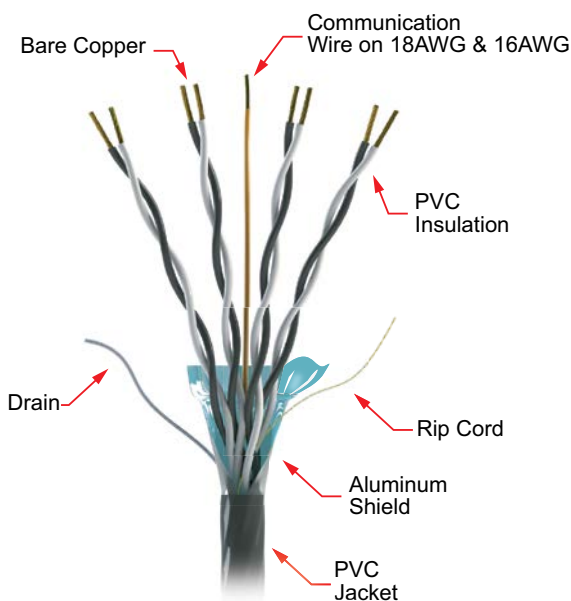
Our instrumentation cables are dual listed as UL 2250 Type ITC (Instrumentation Tray Cables) and UL 13 Type PLTC (Power Limited Tray Cables). Type ITC cables can be used for instrumentation and control circuits operating at 150 volts or less and 5 amperes or less as described in NEC Article 727. Type PLTC cables can be used for Class 2 and Class 3 remote-control, signaling, and power-limited circuits as described in NEC Article 725. Additionally, certain cables are permitted for use in hazardous locations as described in NEC Articles 501 through 505.



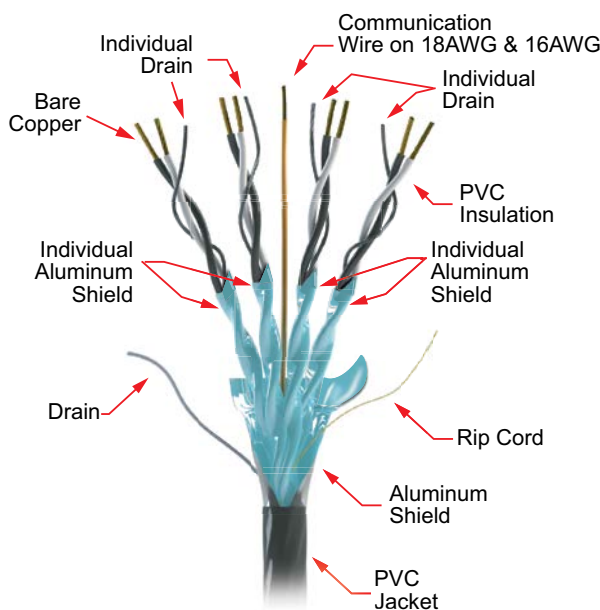
Click on the above thumbnail or go to <https://www.automationdirect.com/VID-WD-0016> for a short introduction on our cut to length cable



### Overall Cable Shield



### Individual and Overall Cable Shields




# 20AWG Instrumentation Cable - Overall Shield

20AWG Instrumentation Cable - Overall Shield Specifications			
<b>Conductor Gauge &amp; Stranding</b>	20AWG Class B 7 stranded bare copper per ASTM B-3 and B-8	<b>Shield and Drain Wire</b>	Overall aluminum polyester foil shield with a tinned copper drain wire
<b>Voltage Rating</b>	300V	<b>Min. Bend Radius</b>	10x diameter
<b>Jacket Material</b>	Sunlight resistant black PVC (polyvinyl chloride)	<b>Print Legend*</b>	QUABBIN P/N xxxxx (UL) TYPE PLTC OR ITC 20AWG SHEILDED 105C SUN RES OR C(UL)US CM OR AWM 2464-RoHS--(LOT#)
<b>Conductor Insulation</b>	PVC		
<b>Pair Lay Length</b>	1.25 twists per inch		
<b>Resistance</b>	10.50Ω/1000' @ 20°C per conductor	<b>Flame Rating</b>	UL 1581 Section 1061 Cable Flame, UL 1581 Vertical Tray
<b>Capacitance</b>	31 pF/ft	<b>Applicable Standards</b>	UL Standard 13 Type PLTC UL Standard 2250 Type ITC NEC Article 725 (Type PLTC) NEC Article 727 (Type ITC)
<b>Conductor Markings</b>	Black / White; Alpha-numeric print; alternate & inverted @ 2.5 inch intervals		
<b>Temperature Rating</b>	-40°C to 105°C (-40°F to 221°F)		

\*XX = Number of shielded pairs

\*\* Included on multi-pair cables

20AWG Instrumentation Cable - Overall Shield											
											
Part Number	Number of Pairs	AWG	Stranding	Overall Conductor Insulation Thickness (Mils)	Conductor Approx. O.D. (Inches)	Overall Jacket Thickness (Mils)	Nominal O.D. (Inches ±10%)	Installed Bend Radius (Inches)	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per foot
<a href="#">PLTC3-20-1S-1</a>	1	20	7	15	0.063	37	0.203	2.03	20	0.02	\$0.29
<a href="#">PLTC3-20-2S-1</a>	2						0.264	2.64	20	0.04	\$0.47
<a href="#">PLTC3-20-4S-1</a>	4						0.333	3.33	20	0.06	\$0.76
<a href="#">PLTC3-20-8S-1</a>	8						0.453	4.53	20	0.11	\$1.40

\* See web store for maximum cut lengths




Please Note: Our prices on instrumentation 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.

# 18AWG Instrumentation Cable - Overall Shield

18AWG Instrumentation Cable - Overall Shield Specifications			
<b>Conductor Gauge &amp; Stranding</b>	18AWG Class B 7 stranded bare copper per ASTM B-3 and B-8	<b>Shield and Drain Wire</b>	Overall aluminum polyester foil shield with a tinned copper drain wire
<b>Voltage Rating</b>	300V	<b>Min. Bend Radius</b>	10x diameter
<b>Jacket Material</b>	Sunlight and moisture resistant black PVC (polyvinyl chloride)	<b>Print Legend*</b>	CCI ROYAL 18 AWG XX SHIELDED PAIRS PVC/PVC TYPE PLTC/ITC E176494 (UL) 105C SUN RES FT4/IEEE 1202 --- SEQUENTIAL MARKING
<b>Conductor Insulation</b>	PVC		
<b>Pair Lay Length</b>	1.25 twists per inch	<b>Flame Rating</b>	Passes FT4/IEEE 1202 Flame Test Passes IEEE 383 Flame Test (70,000btu)
<b>Resistance</b>	6.60Ω/1000' @ 20°C per conductor		
<b>Capacitance</b>	40.66 pF/ft	<b>Applicable Standards</b>	UL Standard 13 Type PLTC UL Standard 2250 Type ITC EPA 40 CFR, Part 26, Subpart C, heavy metals per Table 1, TCLP method NEC Article 725 (Type PLTC) NEC Article 727 (Type ITC) Hazardous Locations: NEC Article 501.10 (Class I, Div 2) NEC Article 502.10 (Class II, Div 2) NEC Article 503.10 (Class III, Div 1 and 2) NEC Article 504 (Intrinsically Safe Systems) NEC Article 505.15 (Class I, Zone 2)
<b>Inductance</b>	0.0957 μH/ft		
<b>Conductor Markings</b>	Black / White; Alpha-numeric print; alternate & inverted @ 2.5 inch intervals		
<b>Temperature Rating</b>	-30°C to 105°C (-22°F to 221°F)		

\* XX = Number of shielded pairs

\*\* Included on 18AWG and 16AWG multi-pair cables

18AWG Instrumentation Cable - Overall Shield											
											
Part Number	Number of Pairs	AWG	Stranding	Overall Conductor Insulation Thickness (Mils)	Conductor Approx. O.D. (Inches)	Overall Jacket Thickness (Mils)	Nominal O.D. (Inches ± 10%)	Installed Bend Radius (Inches)	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per foot
<a href="#">PLTC3-18-1S-1</a>	1	18	7	15	0.0152	52	0.258	2.58	20	0.04	\$0.39
<a href="#">PLTC3-18-2S-1</a>	2						0.385	3.85	20	0.07	\$0.76
<a href="#">PLTC3-18-4S-1</a>	4						0.440	4.40	20	0.11	Retired
<a href="#">PLTC3-18-8S-1</a>	8					65	0.575	5.75	20	0.20	\$2.12

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# 18AWG Instrumentation Cable - Overall Shield

18AWG Instrumentation Cable - Overall Shield Specifications			
<b>Conductor Gauge &amp; Stranding</b>	18AWG 7-stranded bare copper	<b>Shield and Drain Wire</b>	Overall aluminum polyester foil shield with a tinned copper drain wire
<b>Voltage Rating</b>	300V	<b>Min. Bend Radius</b>	10x diameter
<b>Jacket Material</b>	Sunlight resistant black PVC (polyvinyl chloride)	<b>Print Legend</b>	QUABBIN P/N xxxx (UL) TYPE PLTC OR ITC 18AWG SHEILDED 105C SUN RES OR C(UL)US CM OR AWM 2464-RoHS--(LOT#)
<b>Conductor Insulation</b>	PVC		
<b>Pair Lay Length</b>	1.25 twists per inch	<b>Flame Rating</b>	UL 1685 Vertical Tray, Section 1061 of UL 1581 Cable Flame
<b>Resistance</b>	6.64Ω/1000' @ 20°C per conductor		
<b>Conductor Markings</b>	Black / White	<b>Applicable Standards</b>	UL Standard 444 Type CM UL Standard 758 AWM 2464 UL Standard 13 Type PLTC UL Standard 2250 Type ITC
<b>Temperature Rating</b>	-40°C to 105°C (-40°F to 221°F)		
<b>Communication Wire*</b>	22AWG PVC (orange)		

\*Included on 18AWG and 16AWG multi-pair cables

18AWG Instrumentation Cable - Overall Shield												
												
Part Number	Number of Pairs	AWG	Stranding	Overall Conductor Insulation Thickness (Mils)	Conductor Approx. O.D. (Inches)	Overall Jacket Thickness (Mils)	Capacitance (pF/ft)	Nominal O.D. (Inches ± 10%)	Installed Bend Radius (Inches)	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per foot
<a href="#">PLTC-18-1S-1</a>	1	18	7	16	0.078	37	62	0.233	2.33	20	0.03	\$0.33
<a href="#">PLTC-18-2S-1</a>	2					42	47	0.318	3.18	20	0.06	\$0.61
<a href="#">PLTC-18-4S-1</a>	4					52	43	0.417	4.17	20	0.10	\$1.07
<a href="#">PLTC-18-8S-1</a>	8						41	0.535	5.35	20	0.17	\$1.86

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# 16AWG Instrumentation Cable - Overall Shield

16AWG Instrumentation Cable - Overall Shield Specifications			
<b>Conductor Gauge &amp; Stranding</b>	16AWG Class B 7 stranded bare copper per ASTM B-3 and B-8	<b>Shield and Drain Wire</b>	Overall aluminum polyester foil shield with a tinned copper drain wire
<b>Voltage Rating</b>	300V	<b>Min. Bend Radius</b>	10x diameter
<b>Jacket Material</b>	Sunlight and moisture resistant black PVC (polyvinyl chloride)	<b>Print Legend*</b>	CCI ROYAL 16 AWG XX SHIELDED PAIRS PVC/PVC TYPE PLTC/ITC E176494 (UL) 105C SUN RES FT4/IEEE 1202 --- SEQUENTIAL MARKING
<b>Conductor Insulation</b>	PVC		
<b>Pair Lay Length</b>	1.25 twists per inch	<b>Flame Rating</b>	Passes FT4/IEEE 1202 Flame Test Passes IEEE 383 Flame Test (70,000btu)
<b>Resistance</b>	4.18Ω/1000' @ 20°C per conductor		
<b>Capacitance</b>	48.51 pF/ft	<b>Applicable Standards</b>	UL Standard 13 Type PLTC UL Standard 2250 Type ITC EPA 40 CFR, Part 26, Subpart C, heavy metals per Table 1, TCLP method NEC Article 725 (Type PLTC) NEC Article 727 (Type ITC) Hazardous Locations: NEC Article 501.10 (Class I, Div 2) NEC Article 502.10 (Class II, Div 2) NEC Article 503.10 (Class III, Div 1 and 2) NEC Article 504 (Intrinsically Safe Systems) NEC Article 505.15 (Class I, Zone 2)
<b>Inductance</b>	0.0895 μH/ft		
<b>Conductor Markings</b>	Black / White; Alpha-numeric print; alternate & inverted @ 2.5 inch intervals		
<b>Temperature Rating</b>	-30°C to 105°C (-22°F to 221°F)		
<b>Communication Wire**</b>	22AWG PVC (orange)		

\* XX = Number of shielded pairs

\*\* Included on 18AWG and 16AWG multi-pair cables

16AWG Instrumentation Cable - Overall Shield											
											
Part Number	Number of Pairs	AWG	Stranding	Overall Conductor Insulation Thickness (Mils)	Conductor Approx. O.D. (Inches)	Overall Jacket Thickness (Mils)	Nominal O.D. (Inches ±10%)	Installed Bend Radius (Inches)	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per foot
<a href="#"><u>PLTC3-16-1S-1</u></a>	1	16	7	15	0.0152	52	0.282	2.82	20	0.05	\$0.51
<a href="#"><u>PLTC3-16-2S-1</u></a>	2						0.407	4.07	20	0.08	\$0.89
<a href="#"><u>PLTC3-16-4S-1</u></a>	4					65	0.516	5.16	20	0.16	\$1.58
<a href="#"><u>PLTC3-16-8S-1</u></a>	8					75	0.662	6.62	20	0.27	\$2.95

\* See web store for maximum cut lengths




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# 16AWG Instrumentation Cable - Overall Shield

16AWG Instrumentation Cable - Overall Shield Specifications			
<b>Conductor Gauge &amp; Stranding</b>	16AWG 7-stranded bare copper	<b>Shield and Drain Wire</b>	Overall aluminum polyester foil shield with a tinned copper drain wire
<b>Voltage Rating</b>	300V	<b>Min. Bend Radius</b>	10x diameter
<b>Jacket Material</b>	Sunlight resistant black PVC (polyvinyl chloride)	<b>Print Legend</b>	QUABBIN P/N xxxx (UL) TYPE PLTC OR ITC 16AWG SHEILDDED 105C SUN RES OR C(UL)US CM OR AWM 2464-RoHS--(LOT#)
<b>Conductor Insulation</b>	PVC		
<b>Pair Lay Length</b>	1.25 twists per inch	<b>Flame Rating</b>	UL 1685 Vertical Tray, Section 1061 of UL 1581 Cable Flame
<b>Resistance</b>	4.15Ω/1000' @ 20°C per conductor		
<b>Conductor Markings</b>	Black / White	<b>Applicable Standards</b>	UL Standard 444 Type CM UL Standard 758 AWM 2464 UL Standard 13 Type PLTC UL Standard 2250 Type ITC
<b>Temperature Rating</b>	-40°C to 105°C (-40°F to 221°F)		
<b>Communication Wire*</b>	22AWG PVC (orange)		

\*Included on 18AWG and 16AWG multi-pair cables

16AWG Instrumentation Cable - Overall Shield												
												
Part Number	Number of Pairs	AWG	Stranding	Overall Conductor Insulation Thickness (Mils)	Conductor Approx. O.D. (Inches)	Overall Jacket Thickness (Mils)	Capacitance (pF/ft)	Nominal O.D. (Inches ±10%)	Installed Bend Radius (Inches)	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per foot
<a href="#"><u>PLTC-16-1S-1</u></a>	1	16	7	16	0.091	37	71	0.259	2.59	20	0.04	\$0.71
<a href="#"><u>PLTC-16-2S-1</u></a>	2					42	51	0.378	3.78	20	0.08	\$0.89

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# 20AWG Instrumentation Cable - Individual and Overall Shields

20AWG Instrumentation Cable - Individual and Overall Shields Specifications			
<b>Conductor Gauge &amp; Stranding</b>	20AWG Class B 7 stranded bare copper per ASTM B-3 and B-8	<b>Shield and Drain Wire</b>	Individual and overall aluminum polyester foil shield with a tinned copper drain wire
<b>Voltage Rating</b>	300V	<b>Min. Bend Radius</b>	10x diameter
<b>Jacket Material</b>	Sunlight resistant black PVC (polyvinyl chloride)	<b>Print Legend*</b>	QUABBIN P/N xxxx (UL) TYPE PLTC OR ITC 20AWG SHEILDED 105C SUN RES OR C(UL)US CM OR AWM 2464-RoHS--(LOT#)
<b>Conductor Insulation</b>	PVC		
<b>Pair Lay Length</b>	1.25 twists per inch		
<b>Resistance</b>	10.50Ω/1000' @ 20°C per conductor	<b>Flame Rating</b>	UL 1581 Section 1061 Cable Flame, UL 1581 Vertical Tray
<b>Capacitance</b>	31 pF/ft	<b>Applicable Standards</b>	UL Standard 13 Type PLTC UL Standard 2250 Type ITC NEC Article 725 (Type PLTC) NEC Article 727 (Type ITC)
<b>Conductor Markings</b>	Black / White; Alpha-numeric print; alternate & inverted @ 2.5 inch intervals		
<b>Temperature Rating</b>	-40°C to 105°C (-40°F to 221°F)		
<b>Communication Wire**</b>	22AWG PVC (orange)		

\* XX = Number of shielded pairs

\*\* Included on 18AWG and 16AWG multi-pair cables

20AWG Instrumentation Cable - Individual and Overall Shields											
											
Part Number	Number of Pairs	AWG	Stranding	Overall Conductor Insulation Thickness (Mils)	Conductor Approx. O.D. (Inches)	Overall Jacket Thickness (Mils)	Nominal O.D. (Inches ± 10%)	Installed Bend Radius (Inches)	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per foot
<a href="#">PLTC3-20-2SS-1</a>	2	20	7	15	0.063	42	0.312	3.12	20	0.05	\$0.60
<a href="#">PLTC3-20-4SS-1</a>	4					52	0.411	4.11	20	0.09	\$1.03
<a href="#">PLTC3-20-8SS-1</a>	8						0.520	5.20	20	0.14	\$1.76

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# 18AWG Instrumentation Cable - Individual and Overall Shields

18AWG Instrumentation Cable - Individual and Overall Shields Specifications			
<b>Conductor Gauge &amp; Stranding</b>	18AWG Class B 7 stranded bare copper per ASTM B-3 and B-8	<b>Min. Bend Radius</b>	10x diameter
<b>Voltage Rating</b>	300V	<b>Shield and Drain Wire</b>	Individual and overall aluminum polyester foil shield with a tinned copper drain wire
<b>Jacket Material</b>	Sunlight and moisture resistant black PVC (polyvinyl chloride)	<b>Print Legend*</b>	CCI ROYAL 18 AWG XX SHIELDED PAIRS PVC/PVC TYPE PLTC/ITC E176494 (UL) 105C SUN RES FT4/IEEE 1202 --- SEQUENTIAL MARKING
<b>Conductor Insulation</b>	PVC		
<b>Pair Lay Length</b>	1.25 twists per inch	<b>Flame Rating</b>	Passes FT4/IEEE 1202 Flame Test Passes IEEE 383 Flame Test (70,000btu)
<b>Resistance</b>	6.60Ω/1000' @ 20°C per conductor		
<b>Capacitance</b>	40.66 pF/ft	<b>Applicable Standards</b>	UL Standard 13 Type PLTC UL Standard 2250 Type ITC EPA 40 CFR, Part 26, Subpart C, heavy metals per Table 1, TCLP method NEC Article 725 (Type PLTC) NEC Article 727 (Type ITC) Hazardous Locations: NEC Article 501.10 (Class I, Div 2) NEC Article 502.10 (Class II, Div 2) NEC Article 503.10 (Class III, Div 1 and 2) NEC Article 504 (Intrinsically Safe Systems) NEC Article 505.15 (Class I, Zone 2)
<b>Inductance</b>	0.0957 μH/ft		
<b>Conductor Markings</b>	Black / White; Alpha-numeric print; alternate & inverted @ 2.5 inch intervals		
<b>Temperature Rating</b>	-30°C to 105°C (-22°F to 221°F)		
<b>Communication Wire**</b>	22AWG PVC (orange)		

\*XX = Number of shielded pairs

\*\* Included on 18AWG and 16AWG multi-pair cables

18AWG Instrumentation Cable - Individual and Overall Shields											
											
Part Number	Number of Pairs	AWG	Stranding	Overall Conductor Insulation Thickness (Mils)	Conductor Approx. O.D. (Inches)	Overall Jacket Thickness (Mils)	Nominal O.D. (Inches ± 10%)	Installed Bend Radius (Inches)	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per foot
<a href="#">PLTC3-18-2SS-1</a>	2	18	7	15	0.0152	52	0.401	4.01	20	0.08	\$0.84
<a href="#">PLTC3-18-4SS-1</a>	4					65	0.490	4.90	20	0.14	Retired
<a href="#">PLTC3-18-8SS-1</a>	8						0.605	6.05	20	0.23	\$2.80

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# 18AWG Instrumentation Cable - Individual and Overall Shields

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<b>Conductor Gauge &amp; Stranding</b>	18AWG 7-stranded bare copper	<b>Min. Bend Radius</b>	10x diameter
<b>Voltage Rating</b>	300V	<b>Shield and Drain Wire</b>	Individual and overall aluminum polyester foil shield with a tinned copper drain wire
<b>Jacket Material</b>	Sunlight resistant black PVC (polyvinyl chloride)	<b>Print Legend</b>	QUABBIN P/N xxxx (UL) TYPE PLTC OR ITC 18AWG SHEILDED 105C SUN RES OR C(UL)US CM OR AWM 2464-RoHS--(LOT#)
<b>Conductor Insulation</b>	PVC		
<b>Pair Lay Length</b>	1.25 twists per inch	<b>Flame Rating</b>	UL 1685 Vertical Tray, Section 1061 of UL 1581 Cable Flame
<b>Resistance</b>	6.64Ω/1000' @ 20°C per conductor		
<b>Conductor Markings</b>	Black / White	<b>Applicable Standards</b>	UL Standard 444 Type CM UL Standard 758 AWM 2464 UL Standard 13 Type PLTC UL Standard 2250 Type ITC
<b>Temperature Rating</b>	-40°C to 105°C (-40°F to 221°F)		
<b>Communication Wire*</b>	22AWG PVC (orange)		

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18AWG Instrumentation Cable - Individual and Overall Shields												
												
Part Number	Number of Pairs	AWG	Stranding	Overall Conductor Insulation Thickness (Mils)	Conductor Approx. O.D. (Inches)	Overall Jacket Thickness (Mils)	Capacitance (pF/ft)	Nominal O.D. (Inches ±10%)	Installed Bend Radius (Inches)	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per foot
<a href="#"><u>PLTC-18-2SS-1</u></a>	2	18	7	16	0.078	42	62	0.365	3.65	20	0.07	\$0.77
<a href="#"><u>PLTC-18-4SS-1</u></a>	4					52		0.483	4.83	20	0.12	\$1.37
<a href="#"><u>PLTC-18-8SS-1</u></a>	8					62		0.639	6.39	20	0.22	\$2.51

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<b>Conductor Gauge &amp; Stranding</b>	16AWG Class B 7 stranded bare copper per ASTM B-3 and B-8	<b>Shield and Drain Wire</b>	Individual and overall aluminum polyester foil shield with a tinned copper drain wire
<b>Voltage Rating</b>	300V	<b>Min. Bend Radius</b>	10x diameter
<b>Jacket Material</b>	Sunlight and moisture resistant black PVC (polyvinyl chloride)	<b>Print Legend*</b>	CCI ROYAL 16 AWG XX SHIELDED PAIRS PVC/PVC TYPE PLTC/ITC E176494 (UL) 105C SUN RES FT4/IEEE 1202 --- SEQUENTIAL MARKING
<b>Conductor Insulation</b>	PVC		
<b>Pair Lay Length</b>	1.25 twists per inch		
<b>Resistance</b>	4.18Ω/1000' @ 20°C per conductor	<b>Flame Rating</b>	Passes FT4/IEEE 1202 Flame Test Passes IEEE 383 Flame Test (70,000btu)
<b>Capacitance</b>	48.51 pF/ft	<b>Applicable Standards</b>	UL Standard 13 Type PLTC UL Standard 2250 Type ITC EPA 40 CFR, Part 26, Subpart C, heavy metals per Table 1, TCLP method NEC Article 725 (Type PLTC) NEC Article 727 (Type ITC) Hazardous Locations: NEC Article 501.10 (Class I, Div 2) NEC Article 502.10 (Class II, Div 2) NEC Article 503.10 (Class III, Div 1 and 2) NEC Article 504 (Intrinsically Safe Systems) NEC Article 505.15 (Class I, Zone 2)
<b>Inductance</b>	0.0895 μH/ft		
<b>Conductor Markings</b>	Black / White; Alpha-numeric print; alternate & inverted @ 2.5 inch intervals		
<b>Temperature Rating</b>	-30°C to 105°C (-22°F to 221°F)		
<b>Communication Wire**</b>	22AWG PVC (orange)		

\* XX = Number of shielded pairs

\*\* Included on 18AWG and 16AWG multi-pair cables

16AWG Instrumentation Cable - Individual and Overall Shields											
											
Part Number	Number of Pairs	AWG	Stranding	Overall Conductor Insulation Thickness (Mils)	Conductor Approx. O.D. (Inches)	Overall Jacket Thickness (Mils)	Nominal O.D. (Inches ± 10%)	Installed Bend Radius (Inches)	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per foot
<a href="#">PLTC3-16-2SS-1</a>	2	16	7	15	0.0152	52	0.443	4.43	20	0.11	Retired
<a href="#">PLTC3-16-4SS-1</a>	4					65	0.539	5.39	20	0.18	\$1.97
<a href="#">PLTC3-16-8SS-1</a>	8					75	0.690	6.90	20	0.32	Retired

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# 16AWG Instrumentation Cable - Individual and Overall Shields

16AWG Instrumentation Cable - Individual and Overall Shields Specifications			
<b>Conductor Gauge &amp; Stranding</b>	16AWG 7-stranded bare copper	<b>Shield and Drain Wire</b>	Individual and overall aluminum polyester foil shield with a tinned copper drain wire
<b>Voltage Rating</b>	300V	<b>Min. Bend Radius</b>	10x diameter
<b>Jacket Material</b>	Sunlight resistant black PVC (polyvinyl chloride)	<b>Print Legend</b>	QUABBIN P/N xxxx (UL) TYPE PLTC OR ITC 16AWG SHEILDED 105C SUN RES OR C(UL)US CM OR AWM 2464-RoHS--(LOT#)
<b>Conductor Insulation</b>	PVC		
<b>Pair Lay Length</b>	1.25 twists per inch		
<b>Resistance</b>	4.18Ω/1000' @ 20°C per conductor	<b>Flame Rating</b>	UL 1685 Vertical Tray, Section 1061 of UL 1581 Cable Flame
<b>Conductor Markings</b>	Black / White	<b>Applicable Standards</b>	UL Standard 444 Type CM UL Standard 758 AWM 2464 UL Standard 13 Type PLTC UL Standard 2250 Type ITC
<b>Temperature Rating</b>	-40°C to 105°C (-40°F to 221°F)		
<b>Communication Wire*</b>	22AWG PVC (orange)		

\*Included on 18AWG and 16AWG multi-pair cables

16AWG Instrumentation Cable - Individual and Overall Shields												
												
Part Number	Number of Pairs	AWG	Stranding	Overall Conductor Insulation Thickness (Mils)	Conductor Approx. O.D. (Inches)	Overall Jacket Thickness (Mils)	Capacitance (pF/ft)	Nominal O.D. (Inches ±10%)	Installed Bend Radius (Inches)	Minimum Cut Length (ft) *	Approximate Weight (lb/ft)	Price per foot
<u><a href="#">PLTC-16-2SS-1</a></u>	2	16	7	16	0.091	52	71	0.432	4.32	20 ft	0.10	\$1.09


\* See web store for maximum cut lengths



Please Note: Our prices on instrumentation 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.

# 20AWG Triad Instrumentation Cable - Overall Shield

20AWG Triad Instrumentation Cable - Overall Shield Specifications			
<b>Conductor Gauge &amp; Stranding</b>	20AWG Class B 10 stranded bare copper per ASTM B-3 and B-8	<b>Shield and Drain Wire</b>	Overall aluminum polyester foil shield with a 22AWG tinned copper drain wire
<b>Voltage Rating</b>	300V	<b>Min. Bend Radius</b>	10x diameter
<b>Jacket Material</b>	Sunlight resistant black PVC (polyvinyl chloride)	<b>Print Legend*</b>	QUABBIN P/N xxxx (UL) TYPE PLTC OR ITC 20AWG SHEILDED 105C SUN RES OR C(UL)US CM OR AWM 2464-RoHS--(LOT#)
<b>Conductor Insulation</b>	PVC		
<b>Conductor Insulation Colors</b>	(1) Black/ (1) Red/ (1) White		
<b>Set Lay Length</b>	1 twist per inch		
<b>Resistance</b>	10.50Ω/1000' @ 20°C per conductor	<b>Flame Rating</b>	UL 1581 Section 1061 Cable Flame, UL 1581 Vertical Tray
<b>Capacitance</b>	42 pF/ft	<b>Applicable Standards</b>	NEC (UL) Type PLTC NEC (UL) Type ITC NEC (UL) Type CM CEC C(UL)Type CM UL AWM STYLE 2464
<b>Conductor Markings</b>	Black / White; Alpha-numeric print; alternate & inverted @ 2.5 inch intervals		
<b>Temperature Rating</b>	-40°C to 105°C (-40°F to 221°F)		

20AWG Triad Instrumentation Cable - Overall Shield											
											
Part Number	Number of Triads	AWG	Stranding	Overall Conductor Insulation Thickness (Mils)	Conductor Approx. O.D. (Inches)	Overall Jacket Thickness (Mils)	Nominal O.D. (Inches ± 10%)	Installed Bend Radius (Inches)	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per foot
<a href="#">PLTC3-20-1TS-1</a>	1	20	10	13	0.037	37	0.212	2.12	20	0.03	\$0.35
<a href="#">PLTC3-20-2TS-1</a>	2					42	0.358	3.58	20	0.05	\$0.72
<a href="#">PLTC3-20-4TS-1</a>	4					52	0.432	4.32	20	0.09	\$1.17
<a href="#">PLTC3-20-8TS-1</a>	8						0.560	5.60	20	0.16	\$2.01


\* See web store for maximum cut lengths



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# 18AWG Triad Instrumentation Cable - Overall Shield

18AWG Triad Instrumentation Cable - Overall Shield Specifications			
<b>Conductor Gauge &amp; Stranding</b>	18AWG 7 stranded bare copper	<b>Shield and Drain Wire</b>	Overall aluminum polyester foil shield with a 22AWG tinned copper drain wire
<b>Voltage Rating</b>	300V	<b>Min. Bend Radius</b>	10x diameter
<b>Jacket Material</b>	Sunlight resistant black PVC (polyvinyl chloride)	<b>Print Legend*</b>	QUABBIN P/N xxxx (UL) TYPE PLTC OR ITC 18 AWG SHIELDED 105C SUN RES OR C(UL)US CM OR AWM 2464-- RoHS-- (LOT DESIGNATOR)
<b>Conductor Insulation</b>	PVC		
<b>Conductor Insulation Colors</b>	(1) Black/ (1) Red/ (1) White		
<b>Set Lay Length</b>	1 twist per inch	<b>Flame Rating</b>	UL 1581 Section 1061 Cable Flame, UL 1581 Vertical Tray
<b>Resistance</b>	6.64Ω/1000' @ 20°C per conductor		
<b>Capacitance</b>	42 pF/ft	<b>Agency Approvals</b>	NEC (UL) Type PLTC NEC (UL) Type ITC NEC (UL) Type CM CEC C(UL)Type CM UL AWM STYLE 2464
<b>Conductor Markings</b>	Black / White; Alpha-numeric print; alternate & inverted @ 2.5 inch intervals		
<b>Temperature Rating</b>	-40°C to 105°C (-40°F to 221°F)		

18AWG Triad Instrumentation Cable - Overall Shield											
											
Part Number	Number of Triads	AWG	Stranding	Overall Conductor Insulation Thickness (Mils)	Conductor Approx. O.D. (Inches)	Overall Jacket Thickness (Mils)	Nominal O.D. (Inches ± 10%)	Installed Bend Radius (Inches)	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per foot
<a href="#">PLTC3-18-1TS-1</a>	1	18	7	16	0.046	37	0.245	2.45	20	0.04	\$0.41
<a href="#">PLTC3-18-2TS-1</a>	2					52	0.442	4.42	20	0.08	\$0.80
<a href="#">PLTC3-18-4TS-1</a>	4					62	0.513	5.13	20	0.13	\$1.42
<a href="#">PLTC3-18-8TS-1</a>	8					62	0.681	6.81	20	0.24	\$2.48


\* See web store for maximum cut lengths



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# 20AWG Triad Instrumentation Cable - Individual and Overall Shields

20AWG Triad Instrumentation Cable - Individual and Overall Shields Specifications			
<b>Conductor Gauge &amp; Stranding</b>	20AWG Class B 10 stranded bare copper per ASTM B-3 and B-8	<b>Shield and Drain Wire</b>	Individual and overall aluminum polyester foil shield with a 22AWG tinned copper drain wire
<b>Voltage Rating</b>	300V	<b>Min. Bend Radius</b>	10x diameter
<b>Jacket Material</b>	Sunlight resistant black PVC (polyvinyl chloride)	<b>Print Legend*</b>	QUABBIN P/N xxxx (UL) TYPE PLTC OR ITC 20AWG SHELDED 105C SUN RES OR C(UL)US CM OR AWM 2464-RoHS--(LOT#)
<b>Conductor Insulation</b>	PVC		
<b>Conductor Insulation Colors</b>	(1) Black/ (1) Red/ (1) White		
<b>Set Lay Length</b>	1 twist per inch		
<b>Resistance</b>	10.50Ω/1000' @ 20°C per conductor	<b>Flame Rating</b>	UL 1581 Section 1061 Cable Flame, UL 1581 Vertical Tray
<b>Capacitance</b>	57 pF/ft	<b>Agency Approvals</b>	NEC (UL) Type PLTC NEC (UL) Type ITC NEC (UL) Type CM CEC C(UL)Type CM UL AWM STYLE 2464
<b>Conductor Markings</b>	Black / White; Alpha-numeric print; alternate & inverted @ 2.5 inch intervals		
<b>Temperature Rating</b>	-40°C to 105°C (-40°F to 221°F)		

20AWG Triad Instrumentation Cable - Individual and Overall Shields											
											
Part Number	Number of Triads	AWG	Stranding	Overall Conductor Insulation Thickness (Mils)	Conductor Approx. O.D. (Inches)	Overall Jacket Thickness (Mils)	Nominal O.D. (Inches ±10%)	Installed Bend Radius (Inches)	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per foot
<a href="#">PLTC3-20-2TSS-1</a>	2	20	10	13	0.37	42	0.367	3.67	20	0.06	\$0.85
<a href="#">PLTC3-20-4TSS-1</a>	4					52	0.444	4.44	20	0.11	\$1.38
<a href="#">PLTC3-20-8TSS-1</a>	8						0.576	5.76	20	0.18	\$2.48

\* See web store for maximum cut lengths




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# 18AWG Triad Instrumentation Cable - Individual and Overall Shields

18AWG Triad Instrumentation Cable - Individual and Overall Shields Specifications			
<b>Conductor Gauge &amp; Stranding</b>	18AWG 7 stranded bare copper	<b>Min. Bend Radius</b>	10x diameter
<b>Voltage Rating</b>	300V	<b>Shield and Drain Wire</b>	Individual and overall aluminum polyester foil shield with a 22AWG tinned copper drain wire
<b>Jacket Material</b>	Sunlight resistant black PVC (polyvinyl chloride)	<b>Print Legend*</b>	QUABBIN P/N xxxx (UL) TYPE PLTC OR ITC 18 AWG SHIELDED 105C SUN RES OR C(UL)US CM OR AWM 2464-- RoHS-- (LOT DESIGNATOR)
<b>Conductor Insulation</b>	PVC		
<b>Conductor Insulation Colors</b>	(1) Black/ (1) Red/ (1) White		
<b>Set Lay Length</b>	1 twist per inch	<b>Flame Rating</b>	UL 1581 Section 1061 Cable Flame, UL 1581 Vertical Tray
<b>Resistance</b>	6.64Ω/1000' @ 20°C per conductor		
<b>Capacitance</b>	57 pF/ft	<b>Agency Approvals</b>	NEC (UL) Type PLTC NEC (UL) Type ITC NEC (UL) Type CM CEC C(UL)Type CM UL AWM STYLE 2464
<b>Conductor Markings</b>	Black / White; Alpha-numeric print; alternate & inverted @ 2.5 inch intervals		
<b>Temperature Rating</b>	-40°C to 105°C (-40°F to 221°F)		

18AWG Triad Instrumentation Cable - Individual and Overall Shields											
											
Part Number	Number of Triads	AWG	Stranding	Overall Conductor Insulation Thickness (Mils)	Conductor Approx. O.D. (Inches)	Overall Jacket Thickness (Mils)	Nominal O.D. (Inches ± 10%)	Installed Bend Radius (Inches)	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per foot
<a href="#"><u>PLTC3-18-2TSS-1</u></a>	2	18	7	16	0.046	52	0.454	4.54	20	0.09	\$1.05
<a href="#"><u>PLTC3-18-4TSS-1</u></a>	4						0.527	5.27	20	0.15	\$1.68
<a href="#"><u>PLTC3-18-8TSS-1</u></a>	8					62	0.701	7.01	20	0.28	\$3.03

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