

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

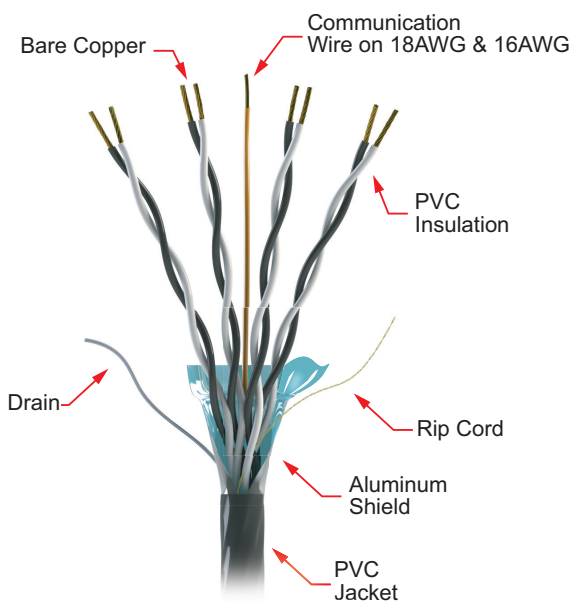
Our instrumentation cables are dual listed as UL 2250 Type ITC (Instrumentation Tray Cables) and UL 13 Type PLTC (Power Limited Tray Cables). Type ITC cables can be used for instrumentation and control circuits operating at 150 volts or less and 5 amperes or less as described in NEC Article 727. Type 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.



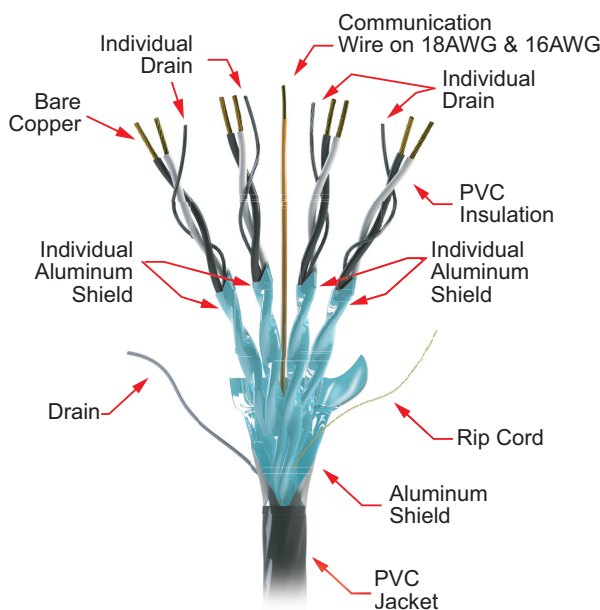
Click on the above thumbnail or go to <https://www.automationdirect.com/VID-WD-0016> for a short introduction on our cut to length cable



Overall Cable Shield



Individual and Overall Cable Shields



20AWG Instrumentation Cable - Overall Shield

20AWG Instrumentation Cable - Overall Shield Specifications			
Conductor Gauge & Stranding	20AWG Class B 7 stranded bare copper per ASTM B-3 and B-8	Shield and Drain Wire	Overall aluminum polyester foil shield with a tinned copper drain wire
Voltage Rating	300V	Min. Bend Radius	10x diameter
Jacket Material	Sunlight resistant black PVC (polyvinyl chloride)	Print Legend*	QUABBIN P/N xxxxx (UL) TYPE PLTC OR ITC 20AWG SHEILDED 105C SUN RES OR C(UL)US CM OR AWM 2464-RoHS--(LOT#)
Conductor Insulation	PVC		
Pair Lay Length	1.25 twists per inch		
Resistance	10.50Ω/1000' @ 20°C per conductor	Flame Rating	UL 1581 Section 1061 Cable Flame, UL 1581 Vertical Tray
Capacitance	31 pF/ft	Applicable Standards	UL Standard 13 Type PLTC UL Standard 2250 Type ITC NEC Article 725 (Type PLTC) NEC Article 727 (Type ITC)
Conductor Markings	Black / White; Alpha-numeric print; alternate & inverted @ 2.5 inch intervals		
Temperature Rating	-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
PLTC3-20-1S-1	1	20	7	15	0.063	37	0.203	2.03	20	0.02	\$0.29
PLTC3-20-2S-1	2						0.264	2.64	20	0.04	\$0.47
PLTC3-20-4S-1	4						0.333	3.33	20	0.06	\$0.76
PLTC3-20-8S-1	8						0.453	4.53	20	0.11	\$1.40

* See web store for maximum cut lengths



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18AWG Instrumentation Cable - Overall Shield

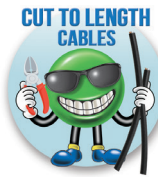
18AWG Instrumentation Cable - Overall Shield Specifications			
Conductor Gauge & Stranding	18AWG Class B 7 stranded bare copper per ASTM B-3 and B-8	Shield and Drain Wire	Overall aluminum polyester foil shield with a tinned copper drain wire
Voltage Rating	300V	Min. Bend Radius	10x diameter
Jacket Material	Sunlight and moisture resistant black PVC (polyvinyl chloride)	Print Legend*	CCI ROYAL 18 AWG XX SHIELDED PAIRS PVC/PVC TYPE PLTC/ITC E176494 (UL) 105C SUN RES FT4/IEEE 1202 --- SEQUENTIAL MARKING
Conductor Insulation	PVC		
Pair Lay Length	1.25 twists per inch	Flame Rating	Passes FT4/IEEE 1202 Flame Test Passes IEEE 383 Flame Test (70,000btu)
Resistance	6.60Ω/1000' @ 20°C per conductor		
Capacitance	40.66 pF/ft	Applicable Standards	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)
Inductance	0.0957 μH/ft		
Conductor Markings	Black / White; Alpha-numeric print; alternate & inverted @ 2.5 inch intervals		
Temperature Rating	-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
PLTC3-18-1S-1	1	18	7	15	0.0152	52	0.258	2.58	20	0.04	\$0.39
PLTC3-18-2S-1	2						0.385	3.85	20	0.07	\$0.76
PLTC3-18-4S-1	4						0.440	4.40	20	0.11	Retired
PLTC3-18-8S-1	8					65	0.575	5.75	20	0.20	\$2.12

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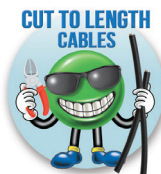
18AWG Instrumentation Cable - Overall Shield

18AWG Instrumentation Cable - Overall Shield Specifications			
Conductor Gauge & Stranding	18AWG 7-stranded bare copper	Shield and Drain Wire	Overall aluminum polyester foil shield with a tinned copper drain wire
Voltage Rating	300V	Min. Bend Radius	10x diameter
Jacket Material	Sunlight resistant black PVC (polyvinyl chloride)	Print Legend	QUABBIN P/N xxxx (UL) TYPE PLTC OR ITC 18AWG SHEILDED 105C SUN RES OR C(UL)US CM OR AWM 2464-RoHS--(LOT#)
Conductor Insulation	PVC		
Pair Lay Length	1.25 twists per inch	Flame Rating	UL 1685 Vertical Tray, Section 1061 of UL 1581 Cable Flame
Resistance	6.64Ω/1000' @ 20°C per conductor		
Conductor Markings	Black / White	Applicable Standards	UL Standard 444 Type CM UL Standard 758 AWM 2464 UL Standard 13 Type PLTC UL Standard 2250 Type ITC
Temperature Rating	-40°C to 105°C (-40°F to 221°F)		
Communication Wire*	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
PLTC-18-1S-1	1	18	7	16	0.078	37	62	0.233	2.33	20	0.03	\$0.33
PLTC-18-2S-1	2					42	47	0.318	3.18	20	0.06	\$0.61
PLTC-18-4S-1	4					52	43	0.417	4.17	20	0.10	\$1.07
PLTC-18-8S-1	8						41	0.535	5.35	20	0.17	\$1.86

* See web store for maximum cut lengths



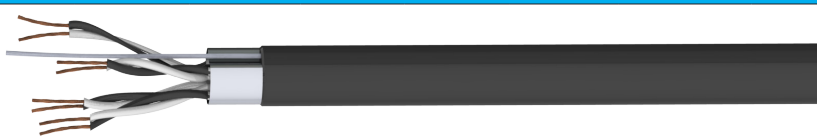
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16AWG Instrumentation Cable - Overall Shield

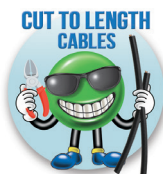
16AWG Instrumentation Cable - Overall Shield Specifications			
Conductor Gauge & Stranding	16AWG Class B 7 stranded bare copper per ASTM B-3 and B-8	Shield and Drain Wire	Overall aluminum polyester foil shield with a tinned copper drain wire
Voltage Rating	300V	Min. Bend Radius	10x diameter
Jacket Material	Sunlight and moisture resistant black PVC (polyvinyl chloride)	Print Legend*	CCI ROYAL 16 AWG XX SHIELDED PAIRS PVC/PVC TYPE PLTC/ITC E176494 (UL) 105C SUN RES FT4/IEEE 1202 --- SEQUENTIAL MARKING
Conductor Insulation	PVC		
Pair Lay Length	1.25 twists per inch	Flame Rating	Passes FT4/IEEE 1202 Flame Test Passes IEEE 383 Flame Test (70,000btu)
Resistance	4.18Ω/1000' @ 20°C per conductor		
Capacitance	48.51 pF/ft	Applicable Standards	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)
Inductance	0.0895 μH/ft		
Conductor Markings	Black / White; Alpha-numeric print; alternate & inverted @ 2.5 inch intervals		
Temperature Rating	-30°C to 105°C (-22°F to 221°F)		
Communication Wire**	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
<u>PLTC3-16-1S-1</u>	1	16	7	15	0.0152	52	0.282	2.82	20	0.05	\$0.51
<u>PLTC3-16-2S-1</u>	2						0.407	4.07	20	0.08	\$0.89
<u>PLTC3-16-4S-1</u>	4					65	0.516	5.16	20	0.16	Retired
<u>PLTC3-16-8S-1</u>	8					75	0.662	6.62	20	0.27	\$2.95

* See web store for maximum cut lengths



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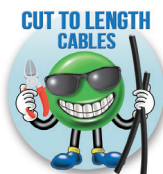
16AWG Instrumentation Cable - Overall Shield

16AWG Instrumentation Cable - Overall Shield Specifications			
Conductor Gauge & Stranding	16AWG 7-stranded bare copper	Shield and Drain Wire	Overall aluminum polyester foil shield with a tinned copper drain wire
Voltage Rating	300V	Min. Bend Radius	10x diameter
Jacket Material	Sunlight resistant black PVC (polyvinyl chloride)	Print Legend	QUABBIN P/N xxxx (UL) TYPE PLTC OR ITC 16AWG SHELDED 105C SUN RES OR C(UL)US CM OR AWM 2464-RoHS--(LOT#)
Conductor Insulation	PVC		
Pair Lay Length	1.25 twists per inch	Flame Rating	UL 1685 Vertical Tray, Section 1061 of UL 1581 Cable Flame
Resistance	4.15Ω/1000' @ 20°C per conductor		
Conductor Markings	Black / White	Applicable Standards	UL Standard 444 Type CM UL Standard 758 AWM 2464 UL Standard 13 Type PLTC UL Standard 2250 Type ITC
Temperature Rating	-40°C to 105°C (-40°F to 221°F)		
Communication Wire*	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
<u>PLTC-16-1S-1</u>	1	16	7	16	0.091	37	71	0.259	2.59	20	0.04	\$0.71
<u>PLTC-16-2S-1</u>	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			
Conductor Gauge & Stranding	20AWG Class B 7 stranded bare copper per ASTM B-3 and B-8	Shield and Drain Wire	Individual and overall aluminum polyester foil shield with a tinned copper drain wire
Voltage Rating	300V	Min. Bend Radius	10x diameter
Jacket Material	Sunlight resistant black PVC (polyvinyl chloride)	Print Legend*	QUABBIN P/N xxxx (UL) TYPE PLTC OR ITC 20AWG SHEILDED 105C SUN RES OR C(UL)US CM OR AWM 2464-RoHS--(LOT#)
Conductor Insulation	PVC		
Pair Lay Length	1.25 twists per inch		
Resistance	10.50Ω/1000' @ 20°C per conductor	Flame Rating	UL 1581 Section 1061 Cable Flame, UL 1581 Vertical Tray
Capacitance	31 pF/ft	Applicable Standards	UL Standard 13 Type PLTC UL Standard 2250 Type ITC NEC Article 725 (Type PLTC) NEC Article 727 (Type ITC)
Conductor Markings	Black / White; Alpha-numeric print; alternate & inverted @ 2.5 inch intervals		
Temperature Rating	-40°C to 105°C (-40°F to 221°F)		
Communication Wire**	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
PLTC3-20-2SS-1	2	20	7	15	0.063	42	0.312	3.12	20	0.05	\$0.60
PLTC3-20-4SS-1	4					52	0.411	4.11	20	0.09	\$1.03
PLTC3-20-8SS-1	8						0.520	5.20	20	0.14	\$1.76

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18AWG Instrumentation Cable - Individual and Overall Shields

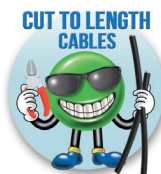
18AWG Instrumentation Cable - Individual and Overall Shields Specifications			
Conductor Gauge & Stranding	18AWG Class B 7 stranded bare copper per ASTM B-3 and B-8	Min. Bend Radius	10x diameter
Voltage Rating	300V	Shield and Drain Wire	Individual and overall aluminum polyester foil shield with a tinned copper drain wire
Jacket Material	Sunlight and moisture resistant black PVC (polyvinyl chloride)	Print Legend*	CCI ROYAL 18 AWG XX SHIELDED PAIRS PVC/PVC TYPE PLTC/ITC E176494 (UL) 105C SUN RES FT4/IEEE 1202 --- SEQUENTIAL MARKING
Conductor Insulation	PVC		
Pair Lay Length	1.25 twists per inch	Flame Rating	Passes FT4/IEEE 1202 Flame Test Passes IEEE 383 Flame Test (70,000btu)
Resistance	6.60Ω/1000' @ 20°C per conductor		
Capacitance	40.66 pF/ft	Applicable Standards	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)
Inductance	0.0957 μH/ft		
Conductor Markings	Black / White; Alpha-numeric print; alternate & inverted @ 2.5 inch intervals		
Temperature Rating	-30°C to 105°C (-22°F to 221°F)		
Communication Wire**	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
PLTC3-18-2SS-1	2	18	7	15	0.0152	52	0.401	4.01	20	0.08	\$0.84
PLTC3-18-4SS-1	4					65	0.490	4.90	20	0.14	Retired
PLTC3-18-8SS-1	8						0.605	6.05	20	0.23	\$2.80

* See web store for maximum cut lengths

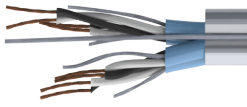


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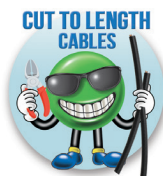
18AWG Instrumentation Cable - Individual and Overall Shields

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

*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)	Capacitance (pF/ft)	Nominal O.D. (Inches ±10%)	Installed Bend Radius (Inches)	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per foot
<u>PLTC-18-2SS-1</u>	2	18	7	16	0.078	42	62	0.365	3.65	20	0.07	\$0.77
<u>PLTC-18-4SS-1</u>	4					52		0.483	4.83	20	0.12	\$1.37
<u>PLTC-18-8SS-1</u>	8					62		0.639	6.39	20	0.22	\$2.51

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16AWG Instrumentation Cable - Individual and Overall Shields

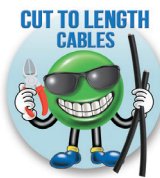
16AWG Instrumentation Cable - Individual and Overall Shields Specifications			
Conductor Gauge & Stranding	16AWG Class B 7 stranded bare copper per ASTM B-3 and B-8	Shield and Drain Wire	Individual and overall aluminum polyester foil shield with a tinned copper drain wire
Voltage Rating	300V	Min. Bend Radius	10x diameter
Jacket Material	Sunlight and moisture resistant black PVC (polyvinyl chloride)	Print Legend*	CCI ROYAL 16 AWG XX SHIELDED PAIRS PVC/PVC TYPE PLTC/ITC E176494 (UL) 105C SUN RES FT4/IEEE 1202 --- SEQUENTIAL MARKING
Conductor Insulation	PVC		
Pair Lay Length	1.25 twists per inch		
Resistance	4.18Ω/1000' @ 20°C per conductor	Flame Rating	Passes FT4/IEEE 1202 Flame Test Passes IEEE 383 Flame Test (70,000btu)
Capacitance	48.51 pF/ft	Applicable Standards	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)
Inductance	0.0895 μH/ft		
Conductor Markings	Black / White; Alpha-numeric print; alternate & inverted @ 2.5 inch intervals		
Temperature Rating	-30°C to 105°C (-22°F to 221°F)		
Communication Wire**	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
PLTC3-16-2SS-1	2	16	7	15	0.0152	52	0.443	4.43	20	0.11	Retired
PLTC3-16-4SS-1	4					65	0.539	5.39	20	0.18	\$1.97
PLTC3-16-8SS-1	8					75	0.690	6.90	20	0.32	Retired

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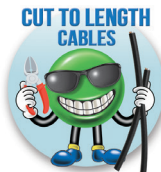
16AWG Instrumentation Cable - Individual and Overall Shields

16AWG Instrumentation Cable - Individual and Overall Shields Specifications			
Conductor Gauge & Stranding	16AWG 7-stranded bare copper	Shield and Drain Wire	Individual and overall aluminum polyester foil shield with a tinned copper drain wire
Voltage Rating	300V	Min. Bend Radius	10x diameter
Jacket Material	Sunlight resistant black PVC (polyvinyl chloride)	Print Legend	QUABBIN P/N xxxx (UL) TYPE PLTC OR ITC 16AWG SHEILDED 105C SUN RES OR C(UL)US CM OR AWM 2464-RoHS--(LOT#)
Conductor Insulation	PVC		
Pair Lay Length	1.25 twists per inch		
Resistance	4.18Ω/1000' @ 20°C per conductor	Flame Rating	UL 1685 Vertical Tray, Section 1061 of UL 1581 Cable Flame
Conductor Markings	Black / White	Applicable Standards	UL Standard 444 Type CM UL Standard 758 AWM 2464 UL Standard 13 Type PLTC UL Standard 2250 Type ITC
Temperature Rating	-40°C to 105°C (-40°F to 221°F)		
Communication Wire*	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>PLTC-16-2SS-1</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



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20AWG Triad Instrumentation Cable - Overall Shield

20AWG Triad Instrumentation Cable - Overall Shield Specifications			
Conductor Gauge & Stranding	20AWG Class B 10 stranded bare copper per ASTM B-3 and B-8	Shield and Drain Wire	Overall aluminum polyester foil shield with a 22AWG tinned copper drain wire
Voltage Rating	300V	Min. Bend Radius	10x diameter
Jacket Material	Sunlight resistant black PVC (polyvinyl chloride)	Print Legend*	QUABBIN P/N xxxx (UL) TYPE PLTC OR ITC 20AWG SHEILDED 105C SUN RES OR C(UL)US CM OR AWM 2464-RoHS--(LOT#)
Conductor Insulation	PVC		
Conductor Insulation Colors	(1) Black/ (1) Red/ (1) White		
Set Lay Length	1 twist per inch		
Resistance	10.50Ω/1000' @ 20°C per conductor	Flame Rating	UL 1581 Section 1061 Cable Flame, UL 1581 Vertical Tray
Capacitance	42 pF/ft	Applicable Standards	NEC (UL) Type PLTC NEC (UL) Type ITC NEC (UL) Type CM CEC C(UL)Type CM UL AWM STYLE 2464
Conductor Markings	Black / White; Alpha-numeric print; alternate & inverted @ 2.5 inch intervals		
Temperature Rating	-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
PLTC3-20-1TS-1	1	20	10	13	0.037	37	0.212	2.12	20	0.03	\$0.35
PLTC3-20-2TS-1	2					42	0.358	3.58	20	0.05	\$0.72
PLTC3-20-4TS-1	4					52	0.432	4.32	20	0.09	\$1.17
PLTC3-20-8TS-1	8						0.560	5.60	20	0.16	\$2.01

* See web store for maximum cut lengths

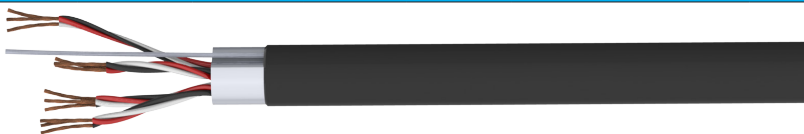


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18AWG Triad Instrumentation Cable - Overall Shield

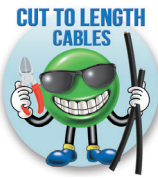
18AWG Triad Instrumentation Cable - Overall Shield Specifications			
Conductor Gauge & Stranding	18AWG 7 stranded bare copper	Shield and Drain Wire	Overall aluminum polyester foil shield with a 22AWG tinned copper drain wire
Voltage Rating	300V	Min. Bend Radius	10x diameter
Jacket Material	Sunlight resistant black PVC (polyvinyl chloride)	Print Legend*	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)
Conductor Insulation	PVC		
Conductor Insulation Colors	(1) Black/ (1) Red/ (1) White		
Set Lay Length	1 twist per inch	Flame Rating	UL 1581 Section 1061 Cable Flame, UL 1581 Vertical Tray
Resistance	6.64Ω/1000' @ 20°C per conductor		
Capacitance	42 pF/ft	Agency Approvals	NEC (UL) Type PLTC NEC (UL) Type ITC NEC (UL) Type CM CEC C(UL)Type CM UL AWM STYLE 2464
Conductor Markings	Black / White; Alpha-numeric print; alternate & inverted @ 2.5 inch intervals		
Temperature Rating	-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
PLTC3-18-1TS-1	1	18	7	16	0.046	37	0.245	2.45	20	0.04	\$0.41
PLTC3-18-2TS-1	2					52	0.442	4.42	20	0.08	\$0.80
PLTC3-18-4TS-1	4					62	0.513	5.13	20	0.13	\$1.42
PLTC3-18-8TS-1	8					62	0.681	6.81	20	0.24	\$2.48

* See web store for maximum cut lengths



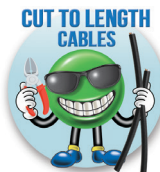
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20AWG Triad Instrumentation Cable - Individual and Overall Shields

20AWG Triad Instrumentation Cable - Individual and Overall Shields Specifications			
Conductor Gauge & Stranding	20AWG Class B 10 stranded bare copper per ASTM B-3 and B-8	Shield and Drain Wire	Individual and overall aluminum polyester foil shield with a 22AWG tinned copper drain wire
Voltage Rating	300V	Min. Bend Radius	10x diameter
Jacket Material	Sunlight resistant black PVC (polyvinyl chloride)	Print Legend*	QUABBIN P/N xxxx (UL) TYPE PLTC OR ITC 20AWG SHEILDED 105C SUN RES OR C(UL)US CM OR AWM 2464-RoHS--(LOT#)
Conductor Insulation	PVC		
Conductor Insulation Colors	(1) Black/ (1) Red/ (1) White		
Set Lay Length	1 twist per inch		
Resistance	10.50Ω/1000' @ 20°C per conductor	Flame Rating	UL 1581 Section 1061 Cable Flame, UL 1581 Vertical Tray
Capacitance	57 pF/ft	Agency Approvals	NEC (UL) Type PLTC NEC (UL) Type ITC NEC (UL) Type CM CEC C(UL)Type CM UL AWM STYLE 2464
Conductor Markings	Black / White; Alpha-numeric print; alternate & inverted @ 2.5 inch intervals		
Temperature Rating	-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
PLTC3-20-2TSS-1	2	20	10	13	0.37	42	0.367	3.67	20	0.06	\$0.85
PLTC3-20-4TSS-1	4					52	0.444	4.44	20	0.11	\$1.38
PLTC3-20-8TSS-1	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			
Conductor Gauge & Stranding	18AWG 7 stranded bare copper	Min. Bend Radius	10x diameter
Voltage Rating	300V	Shield and Drain Wire	Individual and overall aluminum polyester foil shield with a 22AWG tinned copper drain wire
Jacket Material	Sunlight resistant black PVC (polyvinyl chloride)	Print Legend*	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)
Conductor Insulation	PVC		
Conductor Insulation Colors	(1) Black/ (1) Red/ (1) White		
Set Lay Length	1 twist per inch	Flame Rating	UL 1581 Section 1061 Cable Flame, UL 1581 Vertical Tray
Resistance	6.64Ω/1000' @ 20°C per conductor		
Capacitance	57 pF/ft	Agency Approvals	NEC (UL) Type PLTC NEC (UL) Type ITC NEC (UL) Type CM CEC C(UL)Type CM UL AWM STYLE 2464
Conductor Markings	Black / White; Alpha-numeric print; alternate & inverted @ 2.5 inch intervals		
Temperature Rating	-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
<u>PLTC3-18-2TSS-1</u>	2	18	7	16	0.046	52	0.454	4.54	20	0.09	\$1.05
<u>PLTC3-18-4TSS-1</u>	4						0.527	5.27	20	0.15	\$1.68
<u>PLTC3-18-8TSS-1</u>	8					62	0.701	7.01	20	0.28	\$3.03

* See web store for maximum cut lengths



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