Instrumentation Cable

Overview

AutomationDirect offers 300V UL Instrumentation Cable available with 20 AWG, 18 AWG and 16 AWG 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 22 AWG orange PVC insulated communications conductor is included on 18 AWG and 16 AWG multi-pair cables. Cut to length in 1-foot increments with a 20 foot minimum length.

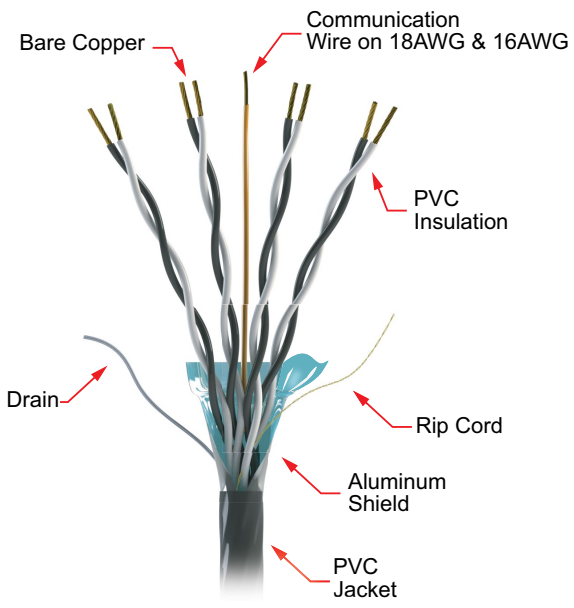
Our instrumentation cables are dual listed as UL 2250 Type ITC (Instrumentation Tray Cables) and UL 13 Type PLTC (Power Limited Tray Cables). Type ITC cables can be used for instrumentation and control circuits operating at 150 volts or less and 5 amperes or less as described in NEC Article 727. Type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

Features

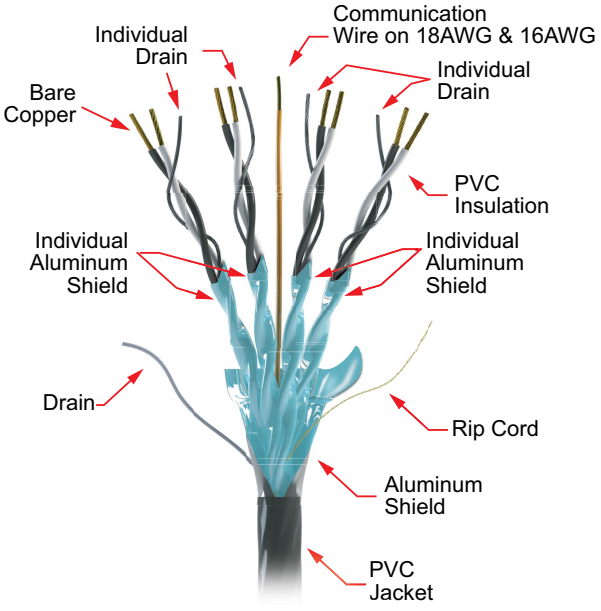
- Typical applications include industrial instrumentation, control, alarm, audio, intercom, and energy management circuits
- Dual listed Type ITC and Type PLTC
- Suitable for use in hazardous locations
- 20 AWG, 18 AWG, and 16 AWG with 2, 4 or 8 twisted pairs, overall shield or individually shielded pairs with overall shield
- Conductor pairs with black and white premium PVC insulation and alpha-numeric identification
- Communication (Talk) wire included on multi-pair 18 AWG and 16 AWG 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

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



20 AWG Instrumentation Cable - Overall Shield

20 AWG Instrumentation Cable - Overall Shield Specifications			
Conductor Gauge & Stranding	20 AWG 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 xxxx (UL) TYPE PLTC OR ITC 20 AWG 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*

20 AWG 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	
PLTC3-20-2S-1	2						0.264	2.64	20	0.04	
PLTC3-20-4S-1	4					42	0.333	3.33	20	0.06	
PLTC3-20-8S-1	8					52	0.453	4.53	20	0.11	

** 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.

18 AWG Instrumentation Cable - Overall Shield

18 AWG Instrumentation Cable - Overall Shield Specifications			
Conductor Gauge & Stranding	18 AWG 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/EEE 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 18 AWG and 16 AWG multi-pair cables*

18 AWG 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	
PLTC3-18-2S-1	2						0.385	3.85	20	0.07	
PLTC3-18-4S-1	4						0.440	4.40	20	0.11	
PLTC3-18-8S-1	8					65	0.575	5.75	20	0.20	

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18 AWG Instrumentation Cable - Overall Shield

18 AWG Instrumentation Cable - Overall Shield Specifications			
Conductor Gauge & Stranding	18 AWG 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 18 AWG 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*	22 AWG PVC (orange)		

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

18 AWG 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	0.2330in	2.33	20ft	0.03	
PLTC-18-2S-1	2					42	47	0.3180in	3.18	20ft	0.06	
PLTC-18-4S-1	4					52	43	0.4170in	4.17	20ft	0.10	
PLTC-18-8S-1	8						41	0.5350in	5.35	20ft	0.17	

*** See web store for maximum cut lengths**

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16 AWG Instrumentation Cable - Overall Shield

16 AWG Instrumentation Cable - Overall Shield Specifications			
Conductor Gauge & Stranding	16 AWG 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/EEE 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*	22 AWG PVC (orange)		

** XX = Number of shielded pairs*
*** Included on 18 AWG and 16 AWG multi-pair cables*

16 AWG 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
PLTC3-16-1S-1	1	16	7	15	0.0152	52	0.282	2.82	20	0.05	
PLTC3-16-2S-1	2						0.407	4.07	20	0.08	
PLTC3-16-4S-1	4					65	0.516	5.16	20	0.16	
PLTC3-16-8S-1	8					75	0.662	6.62	20	0.27	

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16 AWG Instrumentation Cable - Overall Shield

16 AWG Instrumentation Cable - Overall Shield Specifications			
Conductor Gauge & Stranding	16 AWG 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 16 AWG 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	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*	22 AWG PVC (orange)		

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

16 AWG 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-16-1S-1	1	16	7	16	0.091	37	71	0.2590in	2.59	20ft	0.04	
PLTC-16-2S-1	2					42	51	0.3780in	3.78	20ft	0.08	

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20 AWG Instrumentation Cable - Individual and Overall Shields

20 AWG Instrumentation Cable - Individual and Overall Shields Specifications			
Conductor Gauge & Stranding	20 AWG 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 20 AWG 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*	22 AWG PVC (orange)		

** XX = Number of shielded pairs*
*** Included on 18 AWG and 16 AWG multi-pair cables*

20 AWG 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	
PLTC3-20-4SS-1	4					52	0.411	4.11	20	0.09	
PLTC3-20-8SS-1	8						0.520	5.20	20	0.14	

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18 AWG Instrumentation Cable - Individual and Overall Shields

18 AWG Instrumentation Cable - Individual and Overall Shields Specifications			
Conductor Gauge & Stranding	18 AWG 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/EEE 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*	22 AWG PVC (orange)		

** XX = Number of shielded pairs*
*** Included on 18 AWG and 16 AWG multi-pair cables*

18 AWG 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	
PLTC3-18-4SS-1	4					65	0.490	4.90	20	0.14	
PLTC3-18-8SS-1	8						0.605	6.05	20	0.23	

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18 AWG Instrumentation Cable - Individual and Overall Shields

18 AWG Instrumentation Cable - Individual and Overall Shields Specifications			
Conductor Gauge & Stranding	18 AWG 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 18 AWG 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*	22 AWG PVC (orange)		

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

18 AWG 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*
PLTC-18-2SS-1	2	18	7	16	0.078	42	62	0.3650in	3.65	20ft	0.07	
PLTC-18-4SS-1	4					52		0.4830in	4.83	20ft	0.12	
PLTC-18-8SS-1	8					62		0.6390in	6.39	20ft	0.22	

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16 AWG Instrumentation Cable - Individual and Overall Shields

16 AWG Instrumentation Cable - Individual and Overall Shields Specifications			
Conductor Gauge & Stranding	16 AWG 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/EEE 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*	22 AWG PVC (orange)		

** XX = Number of shielded pairs*
*** Included on 18 AWG and 16 AWG multi-pair cables*

16 AWG 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	
PLTC3-16-4SS-1	4					65	0.539	5.39	20	0.18	
PLTC3-16-8SS-1	8					75	0.690	6.90	20	0.32	

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16 AWG Instrumentation Cable - Individual and Overall Shields

16 AWG Instrumentation Cable - Individual and Overall Shields Specifications			
Conductor Gauge & Stranding	16 AWG 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 16 AWG 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*	22 AWG PVC (orange)		

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

16 AWG 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*
PLTC-16-2SS-1	2	16	7	16	0.091	52	71	0.4320in	4.32	20ft	0.10	

*** See web store for maximum cut lengths**

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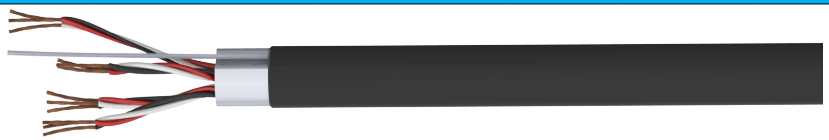
20 AWG Triad Instrumentation Cable - Overall Shield

20 AWG Triad Instrumentation Cable - Overall Shield Specifications			
Conductor Gauge & Stranding	20 AWG Class B 10 stranded bare copper per ASTM B-3 and B-8	***Shield and Drain Wire***	Overall aluminum polyester foil shield with a 22 AWG 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 20 AWG 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)		

20 AWG 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	
PLTC3-20-2TS-1	2					42	0.358	3.58	20	0.05	
PLTC3-20-4TS-1	4					52	0.432	4.32	20	0.09	
PLTC3-20-8TS-1	8						0.560	5.60	20	0.16	

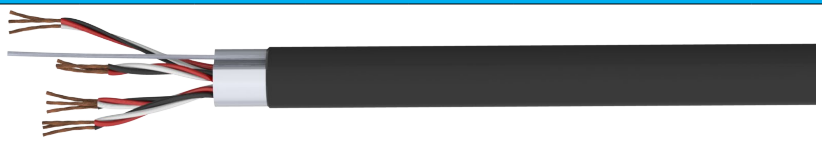
** See web store for maximum cut lengths*

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.

18 AWG Triad Instrumentation Cable - Overall Shield

18 AWG Triad Instrumentation Cable - Overall Shield Specifications			
Conductor Gauge & Stranding	18 AWG 7 stranded bare copper	***Shield and Drain Wire***	Overall aluminum polyester foil shield with a 22 AWG 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)		

18 AWG 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	
PLTC3-18-2TS-1	2					52	0.442	4.42	20	0.08	
PLTC3-18-4TS-1	4						0.513	5.13	20	0.13	
PLTC3-18-8TS-1	8					62	0.681	6.81	20	0.24	

** See web store for maximum cut lengths*

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20 AWG Triad Instrumentation Cable - Individual and Overall Shields

20 AWG Triad Instrumentation Cable - Individual and Overall Shields Specifications			
Conductor Gauge & Stranding	20 AWG 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 22 AWG 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 20 AWG 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)		

20 AWG 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	
PLTC3-20-4TSS-1	4					52	0.444	4.44	20	0.11	
PLTC3-20-8TSS-1	8						0.576	5.76	20	0.18	

** See web store for maximum cut lengths*

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18 AWG Triad Instrumentation Cable - Individual and Overall Shields

18 AWG Triad Instrumentation Cable - Individual and Overall Shields Specifications			
Conductor Gauge & Stranding	18 AWG 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 22 AWG 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)		

18 AWG 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*
PLTC3-18-2TSS-1	2	18	7	16	0.046	52	0.454	4.54	20	0.09	
PLTC3-18-4TSS-1	4						0.527	5.27	20	0.15	
PLTC3-18-8TSS-1	8					62	0.701	7.01	20	0.28	

** See web store for maximum cut lengths*

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