

## Description:

18 AWG pairs stranded (19x30) tinned copper conductors, twisted pairs, PVC insulation, unshielded, PVC jacket.

## Physical Characteristics (Overall)

### Conductor

**AWG:**

# Pairs	AWG	Stranding	Conductor Material
1	18	19x30	TC - Tinned Copper

### Insulation

**Insulation Material:**

Insulation Material
PVC - Polyvinyl Chloride

### Outer Shield

**Outer Shield Material:**

Outer Shield Material
Unshielded

### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.037

**Outer Jacket Ripcord:** Yes

### Overall Cabling

**Overall Cabling Lay Length & Direction:**

Direction
Left-hand Lay

**Overall Nominal Diameter:** 0.230 in.

### Pair

**Pair Color Code Chart:**

Number	Color
1	Black & Red

## Mechanical Characteristics (Overall)

**Operating Temperature Range:** -30°C To +105°C

**Bulk Cable Weight:** 27 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 49 lbs.

**Min. Bend Radius (Install)/Minor Axis:** 2.250 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

**NEC/(UL) Specification:** PLTC, ITC, CMG

**CEC/C(UL) Specification:** CMG

## 9409 Multi-Conductor - 300V Power-Limited Tray Cable

EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

### Flame Test

UL Flame Test:	UL1685 FT4 Loading
C(UL) Flame Test:	FT4
IEEE Flame Test:	1202
ICEA Flame Test:	T-29-520

### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Sunlight Resistance:	Yes

### Plenum/Non-Plenum

Plenum (Y/N):	No
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### Surface Printing (Overall)

Surface Printing:	LEGEND: BELDEN 9409 E34972 1PR18 (UL) CMG 105C OR PLTC OR ITC SUN RES OR AWM 2464 80C 300V OR C(UL) CMG----FT4 IEEE 1202 (2 FT, 7 DIGIT SEQUENTIAL NUMBER) FEET
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### Electrical Characteristics (Overall)

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

26

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

5.96

#### Max. Operating Voltage - UL:

Voltage

300 V RMS (PLTC)

CMG)

150 V RMS (ITC)

#### Max. Recommended Current:

Current

9 Amps per conductor @ 25°C

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9409 060U1000	1,000 FT	28.000 LB	CHROME		2 #18 PVC PVC
9409 060U500	500 FT	15.000 LB	CHROME		2 #18 PVC PVC

# UL Instrumentation Cable

## 300V Power-Limited Tray Cables

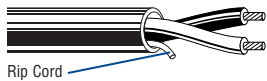
### Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

**18 AWG Pairs** Stranded (19x30) Tinned Copper Conductors • Twisted Pairs

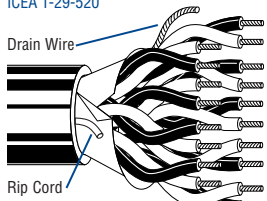
**Unshielded • PVC Insulation • Chrome PVC Jacket**

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	<b>9409</b>	1	E2	U-500 U-1000	U-152.4 U-304.8	15.0 28.0	6.8 12.7	.037	.94	.230	5.84	49	218	2.25	57.15
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**Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket**

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	<b>9318</b>	1	E2	U-500 U-1000	U-152.4 U-304.8	17.5 33.0	7.9 15.0	.037	.94	.233	5.92	60	267	2.25	57.15
	<b>9552</b>	2	E2	500 1000	152.4 304.8	35.5 69.0	16.1 31.4	.042	1.07	.368	9.34	65	289	3.70	93.98
	<b>9553</b>	3	E2	500 1000	152.4 304.8	49.5 98.0	22.0 49.4	.053	1.35	.411	10.44	145	645	4.10	104.14
	<b>9554</b>	4	E2	500 1000	152.4 304.8	57.0 112.0	25.8 50.8	.053	1.35	.447	11.35	187	832	4.50	114.30
	<b>9556</b>	6	E2	500 1000	152.4 304.8	78.5 153.0	35.7 69.5	.053	1.35	.497	12.62	270	1201	5.00	127.00
	<b>9559</b>	9	E2	500 1000	152.4 304.8	108.0 215.0	49.0 97.6	.053	1.35	.579	14.71	395	1757	5.80	147.32
	<b>9563</b>	11	E2	500 1000	152.4 304.8	133.0 270.0	60.4 122.5	.063	1.60	.665	16.89	478	2126	6.75	171.45
	<b>9565</b>	15	E2	500 1000	152.4 304.8	169.0 342.0	76.8 155.5	.063	1.60	.739	18.77	640	2847	7.50	190.50



**Individually Shielded (100% Coverage) • PVC Insulation • Chrome PVC Jacket**

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	<b>9368</b>	2	E2	500 1000	152.4 304.8	37.5 73.0	17.0 33.2	.042	1.07	.378	9.60	125	556	3.75	95.25
	<b>9369</b>	3	E2	500 1000	152.4 304.8	55.0 109.0	25.0 49.5	.053	1.35	.423	10.74	220	979	4.25	107.95
	<b>3029A</b>	4	E1	Bulk †	Bulk	—	—	.053	1.35	.461	11.71	296	1317	4.50	114.30
	<b>9388</b>	4	E2	500 1000	152.4 304.8	71.5 135.0	32.5 61.4	.053	1.35	.461	11.71	296	1317	4.60	116.84
	<b>9389</b>	6	E2	500 1000	152.4 304.8	97.0 190.0	44.1 86.4	.053	1.35	.538	13.67	440	1957	5.25	133.35
	<b>9390</b>	9	E2	500 1000	152.4 304.8	137.5 270.0	63.0 123.6	.064	1.63	.652	16.56	666	2963	6.50	165.10
	<b>9391</b>	11	E2	500 1000	152.4 304.8	158.5 321.0	72.0 145.9	.064	1.63	.729	18.52	815	3626	7.25	184.15
	<b>9392</b>	15	E2	500 1000	152.4 304.8	209.0 428.0	95.0 194.5	.064	1.63	.808	20.52	1100	4893	8.00	203.20

E1, E2 = Refer to Technical Information section for color code.  
Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

†Bulk = Check length available for specific construction.

**Conductor, Insulation and Jacket Options\*\***

To Specify:	Bare	Tinned	Insulation/Jacket
<b>1234</b>	<b>A</b>	<b>B</b>	PVC/PVC
<b>5</b>	<b>C</b>	<b>D</b>	XLPE/PVC
<b>6</b>	<b>K</b>	<b>L</b>	TPE/TPE
<b>7</b>	<b>Q</b>	<b>R</b>	XLPE/CPE
<b>8</b>	<b>S</b>	<b>T</b>	XLPE/Haloarrest®

\*\*For 1000 and 3000 Series cables only.