

## 1030A Multi-Conductor - 300V Power-Limited Tray Cable



### Description:

16 AWG pairs stranded (7x24) bare copper conductors, twisted pairs, overall Beldfoil shield (100% coverage), PVC insulation, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material
1	16	7x24	BC - Bare Copper

#### Insulation

##### Insulation Material:

Insulation Material	Wall Thickness (in.)
PVC - Polyvinyl Chloride	.016

#### Outer Shield

##### Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

##### Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire	Conductor Material
18	7x26	TC - Tinned Copper	

#### Outer Jacket

##### Outer Jacket Material:

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

Outer Jacket Ripcord: Yes

#### Overall Cabling

##### Overall Cabling Color Code Chart:

Number	Color
1	Black & White

Overall Nominal Diameter: 0.257 in.

#### Pair

##### Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
2.000	6.000

### Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 42.300 lbs/1000 ft.

Max. Recommended Pulling Tension: 94 lbs.

Min. Bend Radius (Install)/Minor Axis: 2.600 in.

## 1030A Multi-Conductor - 300V Power-Limited Tray Cable

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

CEC/C(UL) Specification:	CMG
AWM Specification:	UL Style 2464 (300 V 105°C)
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
CSA Flame Test:	FT4
IEEE Flame Test:	1202

#### Suitability

Sunlight Resistance:	Yes
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#### Plenum/Non-Plenum

Plenum (Y/N):	Yes
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### Surface Printing (Overall)

Surface Printing:	LEGEND: BELDEN 1030A E34972 1PR16 SHIELDED (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. Inductance:

Inductance (µH/ft)
.19

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
61

#### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
114

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
3.7

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
5.1

#### Max. Operating Voltage - UL:

Voltage
300 V RMS

#### Max. Recommended Current:

Current
11 Amps per conductor @ 25°C

## 1030A Multi-Conductor - 300V Power-Limited Tray Cable

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1030A 0061000	1,000 FT	45.000 LB	BLUE, LIGHT	C	2 #16 PVC FS PVC
1030A 00610000	10,000 FT	470.000 LB	BLUE, LIGHT	C	2 #16 PVC FS PVC
1030A 0101000	1,000 FT	46.000 LB	BLACK	C	2 #16 PVC FS PVC
1030A 01010000	10,000 FT	480.000 LB	BLACK	C Z	2 #16 PVC FS PVC
1030A 0105000	5,000 FT	225.000 LB	BLACK		2 #16 PVC FS PVC

**Notes:**

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

# UL Instrumentation Cable

## 300V Power-Limited Tray Cables

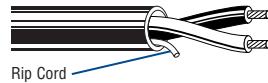
### Industrial Grade Sunlight- and Oil-Resistant Jackets

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

**16 AWG Pairs** Stranded (19x29) Tinned Copper Conductors • Twisted Pairs

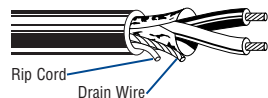
**Unshielded • PVC Insulation • Chrome PVC Jacket**

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	<b>9410</b>	1	E2	U-500	U-152.4	18.5	8.4	.037	.94	.254	6.45	78	347	2.50	63.50
				U-1000	U-304.8	36.0	16.3								



**Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket**

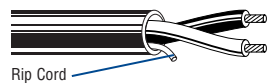
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	<b>9316</b>	1	E2	U-500	U-152.4	21.5	9.8	.037	.94	.256	6.50	90	400	2.50	63.50
				U-1000	U-304.8	41.0	18.6								



**16 AWG Pairs** Stranded (7x24) Bare Copper Conductors • Twisted Pairs

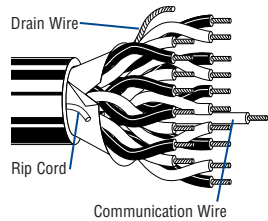
**Unshielded • PVC Insulation • Black PVC Jacket** (See chart below for other insulation and jacket options)

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	<b>1035A</b>	1	E1	1000	304.8	40.0	18.1	.037	.94	.254	6.45	71	318	2.50	63.50
				10000†	3048.0	400.0	181.4								



**Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket** (See chart below for other options)

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	<b>1030A</b>	1	E1	1000	304.8	46.0	20.9	.037	.94	.257	6.53	94	418	2.50	63.50
				10000†	3048.0	480.0	217.7								
	<b>3043A</b>	2	E1	Bulk††	Bulk	—	—	.053	1.35	.437	11.10	83	369	4.50	114.30
	<b>1528A</b>	3	E1	7500†	2286.0	967.5	438.9	.053	1.35	.457	11.61	250	1112	4.75	120.65
	<b>1484A</b>	4	E1	7500†	2286.0	1200.0	544.8	.053	1.35	.495	12.57	330	1468	5.00	127.00
	<b>1485A</b>	8	E1	7500†	2286.0	2010.0	911.7	.053	1.35	.597	15.16	616	2740	6.00	152.40
	<b>1486A</b>	12	E1	5000†	1524.0	1965.0	892.1	.064	1.63	.741	18.80	892	3968	7.50	190.50
	<b>3050A</b>	16	E1	Bulk††	Bulk	—	—	.064	1.63	.831	21.10	661	2940	8.50	215.90
	<b>1489A</b>	24	E1	1250†	381.0	923.8	419.4	.074	1.88	1.032	26.20	1749	7780	10.50	266.70
	<b>1490A</b>	36	E1	1250†	381.0	1313.8	596.4	.074	1.88	1.178	29.80	2606	11592	11.75	298.45
	<b>3056A</b>	50	E1	Bulk††	Bulk	—	—	.088	2.24	1.550	39.37	3615	16082	15.50	393.70



**Individually Shielded + Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket** (Options below)

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	<b>1492A</b>	2	E1	7500†	2286.0	885.0	401.8	.053	1.35	.450	11.43	232	1032	4.50	114.30
	<b>1493A</b>	4	E1	7500†	2286.0	1387.5	629.4	.055	1.40	.512	13.11	420	1868	5.00	127.00
	<b>1494A</b>	8	E1	5000†	1524.0	1640.0	743.9	.066	1.68	.687	17.50	795	3537	7.00	177.80
	<b>1495A</b>	12	E1	2500†	762.0	1202.5	545.5	.066	1.68	.822	20.73	1170	5205	8.25	209.55
	<b>3051A</b>	16	E1	Bulk††	Bulk	—	—	.074	1.88	.936	23.77	661	2940	10.00	254.00
	<b>1498A</b>	24	E1	5000†	1524.0	4340.0	1968.6	.074	1.88	1.149	29.18	2296	10214	11.50	292.10
	<b>1499A</b>	36	E1	Bulk††	Bulk	—	—	.084	2.13	1.334	33.88	3167	14088	13.50	342.90
	<b>3057A</b>	50	E1	Bulk††	Bulk	—	—	.088	2.24	1.600	40.64	2066	9190	16.00	406.40

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.

†Final put-up length may vary ±10% from length shown.

††Bulk = Check length available for specific construction.

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

To Specify:		
<b>1234</b>	<b>A</b>	<b>E</b>
Start with Part No.	Add or replace letter code for desired conductor, insulation & jacket	Add for Exposed Run rating if desired

Bare	Tinned	Insulation/Jacket
<b>A</b>	<b>B</b>	PVC/PVC
<b>C</b>	<b>D</b>	XLPE/PVC
<b>K</b>	<b>L</b>	TPE/TPE
<b>Q</b>	<b>R</b>	XLPE/CPE
<b>S</b>	<b>T</b>	XLPE/Haloarrest®

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