

UL Instrumentation Cable

300V Power-Limited Tray Cables — Overview

Construction

Soft annealed bare or tinned copper with PVC flame retardant insulation and jacket. Other insulation and jacket options are available (see table below). Communication wire included on all multi-pair/multi-triad 1000 and 3000 series part numbers, 22 AWG (7x30) bare copper, orange PVC insulation. Nylon rip cord included in all PVC/PVC instrumentation cables.

Other Construction Options:

UL Listed for PLTC	
Insulation/Jacket	Max. Temp Rating
XLPE/PVC	90°C
XLPE/CPE	90°C
PVC/PVC	105°C
PVC/CPE	105°C
PE/PVC	75°C
FPE/PVC	75°C
TPE/TPE	105°C
XLPE/Haloarrest®	90°C

Armoring Capabilities

Belden also has the capability to protect electronic, instrumentation and control cables with interlocking or continuous armor and smooth or corrugated protective metal tapes.

To Specify Part Number		
1	2	3456
Overall Jacket Type	Armor Type	Core Trade Number

Overall Jacket

Code	Material
1	PVC
3	CPE
4	TPE
5	HDPE
6	Oil Res II
7	Haloarrest® I

Armor

Code	Material
2	Aluminum Interlock
3	Steel Interlock
8	Continuously Corrugated Aluminum

Application

Cable jackets are resistant to sunlight, moisture and vapor penetration. PVC/PVC constructions, with 3 conductors or more and 20 AWG or larger, are suitable for direct burial.

Unshielded

Twisted non-shielded pairs and triads provide a minimal OD allowing greater tray and conduit fill. Non-shielded instrument pairs may be utilized when recommended by the instrument manufacturer and used in a metallic conduit.

Overall Shield

Recommended for use in instrumentation applications where signals are transmitted in excess of 100 millivolts except in areas where high voltage and current sources create excessive noise interference. The Beldfoil® shield with drain wire provides 100% coverage for maximum shield effectiveness.

Individually Shielded and Overall Shielded

Individually shielded pairs or triads with an overall shield are recommended for use in instrumentation applications where optimum noise rejection is required. Individual pair/triad shields are fully isolated from each other and contain a separate drain wire for grounding, to provide maximum protection from crosstalk and common mode interference. Cables with an overall shield provide additional electrostatic noise protection.

Specifications

- UL Subject 13
- UL Subject 2250
- NEC Article 725 Class 2 and Class 3 Circuits
- NEC Type PLTC Listed, which is approved for cable tray use in Class 1, Division 2, hazardous areas and non-hazardous areas, cable trays, raceways, conduit and supported by messenger wires.
- Sunlight-resistant.
- Oil-resistant per UL Class 43
- NEC Type ITC per Article 727. ITC cables may carry up to 5 amps at 150V, which is significantly greater than that allowed for PLTC only cables. ITC cables may also be installed in specific applications, per the NEC, in addition to those allowed for PLTC.
- UL 1685 (UL 1581) Vertical Tray Flame Test comparable to IEEE 383-1974 (70,000 BTU/hr.) Flame Test.
- PVC/PVC constructions are CMG, FT4, IEEE 1202 and IEEE 383-2003 rated, and meet ICEA T-29-520 Flame Test.
- Design options — call 1-800-BELDEN-1 or 1-800-BELDEN-3.

PLTC-ER

As an option, Belden offers all PVC insulated, PVC jacketed instrumentation cables, and several other insulation and jackets, with a PLTC-ER (Exposed Run) rating, formerly referred to as Open Wiring.

Per NEC Article 725, a PLTC-ER rated cable may be installed in an industrial establishment between a cable tray and the utilization equipment or device. A PLTC-ER rated cable must meet the crush and impact requirements of UL Type MC cable. By eliminating the need for metal conduit and/or armor, using a PLTC-ER rated cable results in savings in both installation and maintenance.

Standard lengths may be subject to tolerance. Custom lengths may be available upon request. Contact the Belden Electronics Division Customer Service Department for additional information. 1-800-BELDEN-1 or 1-800-BELDEN-3.

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

22 AWG Pairs Stranded (7x30) Tinned Copper Conductors • Twisted Pairs**Unshielded • PVC Insulation • Chrome PVC Jacket**

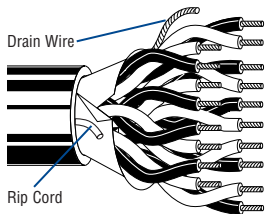
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	9407	1	E2	U-500 U-1000	152.4 U-304.8	10.0 19.0	4.3 8.2	.037 .94	.198	5.03	19	84	2.00	50.80
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Rip Cord

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

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	9322	1	E2	U-500 U-1000	152.4 U-304.8	11.0 22.0	5.0 10.0	.037 .94	.201	5.10	28	124	2.00	50.80
	9512	2	E2	500 1000	152.4 304.8	22.0 42.0	10.0 19.1	.042 1.07	.310	7.82	46	204	3.00	76.20
	9513	3	E2	500 1000	152.4 304.8	26.5 51.0	11.6 23.2	.042 1.07	.324	8.23	63	280	3.25	82.55
	9514	4	E2	500 1000	152.4 304.8	33.0 67.0	14.8 30.5	.042 1.07	.356	9.04	80	355	3.50	88.90
	9516	6	E2	500 1000	152.4 304.8	45.0 89.0	20.4 40.4	.053 1.35	.418	10.62	118	524	4.25	107.95
	9520	9	E2	500 1000	152.4 304.8	64.5 121.0	29.3 55.0	.053 1.35	.482	12.29	172	765	4.75	120.65
	9521	11	E2	500 1000	152.4 304.8	73.0 147.0	32.7 66.4	.053 1.35	.506	12.85	200	889	5.35	135.89
	9524	15	E2	500 1000	152.4 304.8	89.5 178.0	40.7 80.9	.053 1.35	.594	15.09	280	1245	6.00	152.40
	9526	19	E2	500 1000	152.4 304.8	114.5 224.0	52.0 101.8	.063 1.60	.644	16.36	350	1557	6.33	160.78
	9527	27	E2	500 1000†	152.4 304.8	156.5 321.0	71.1 145.9	.063 1.60	.763	19.38	500	2224	7.50	190.50



Rip Cord

22 AWG Pairs Stranded (7x30) Bare Copper Conductors* • Twisted Pairs**Overall Beldfoil Shield (100% Coverage) • PVC Insulation • PVC Jacket (Black or Chrome)**

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	3000A**	2	E1	Bulk††	Bulk	—	—	.043	1.09	.310	7.87	46	204	3.00	76.20
	3004A**	4	E1	Bulk††	Bulk	—	—	.042	1.07	.357	9.01	80	355	3.50	88.90
	3006A**	8	E1	Bulk††	Bulk	—	—	.053	1.35	.450	11.43	172	765	4.75	120.65
	3008A**	12	E1	Bulk††	Bulk	—	—	.053	1.35	.536	13.61	210	934	5.00	127.00
	3010A**	16	E1	Bulk††	Bulk	—	—	.053	1.35	.594	15.09	290	1290	6.00	152.40
	3012A**	24	E1	Bulk††	Bulk	—	—	.065	1.65	.749	19.02	440	1957	7.50	190.50
	3014A**	50	E1	Bulk††	Bulk	—	—	.075	1.91	1.017	25.80	915	4070	9.50	241.30



Rip Cord

Communication Wire

PVC = Polyvinyl Chloride

*For tinned copper conductors, order with B suffix.

**For Exposed Run rated cable (3000 series only), order with E suffix, e.g. 3000AE.

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

††Bulk = Check length available for specific construction.

E1, E2 = Refer to Industrial 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.

UL Instrumentation Cable

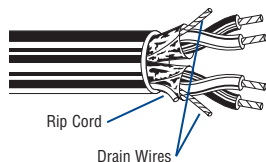
300V Power-Limited Tray Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs/Triads	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

22 AWG Pairs Stranded (7x30) Tinned Copper Conductors • Twisted Pairs**Individually Shielded • PVC Insulation • Chrome PVC Jacket**

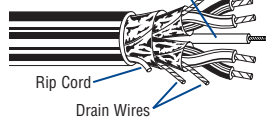
NEC: PLTC, ITC, CMG
CEC: CMG FT4
IEEE 1202/383
ICEA T-29-520



9328	2	E2	500	152.4	23.5	10.2	.042	1.07	.323	8.20	54	240	3.00	76.20
			1000	304.8	46.0	20.9								
9329	3	E2	500	152.4	29.5	13.4	.042	1.07	.341	8.66	54	240	3.50	88.90
			1000	304.8	60.0	27.3								
9330	4	E2	500	152.4	39.0	17.7	.042	1.07	.372	9.45	110	489	3.50	88.90
			1000	304.8	75.0	34.0								
9331	6	E2	500	152.4	55.0	24.5	.053	1.35	.457	11.61	101	449	4.33	109.98
			1000	304.8	111.0	50.4								
9332	9	E2	500	152.4	75.0	34.1	.053	1.35	.530	13.46	160	711	5.00	127.00
			1000	304.8	145.0	65.9								
9333	11	E2	500	152.4	89.0	40.5	.053	1.35	.592	15.04	160	711	5.50	139.70
			1000	304.8	177.0	80.5								
9335	19	E2	500	152.4	141.5	64.3	.063	1.60	.711	18.06	264	1174	6.50	165.10
			1000	304.8	287.0	130.5								

22 AWG Pairs Stranded (7x30) Bare Copper Conductors* • Twisted Pairs**Individually Shielded + Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • PVC Jacket (Black or Chrome)**

NEC: PLTC, ITC, CMG
CEC: CMG FT4
IEEE 1202/383
ICEA T-29-520



3001A[†]	2	E1	Bulk ^{††}	Bulk	—	—	.042	1.07	.324	8.23	54	240	3.25	82.55
3005A[†]	4	E1	Bulk ^{††}	Bulk	—	—	.043	1.09	.360	9.14	115	511	3.50	88.90
3007A[†]	8	E1	Bulk ^{††}	Bulk	—	—	.053	1.35	.497	12.62	250	1112	5.25	133.35
3009A[†]	12	E1	Bulk ^{††}	Bulk	—	—	.053	1.35	.570	14.48	300	1334	5.75	146.05
3011A[†]	16	E1	Bulk ^{††}	Bulk	—	—	.064	1.63	.674	17.12	350	1557	6.25	158.75
3013A[†]	24	E1	Bulk ^{††}	Bulk	—	—	.065	1.65	.800	20.32	540	2402	8.00	203.20
3015A[†]	50	E1	Bulk ^{††}	Bulk	—	—	.075	1.91	1.050	26.67	1330	5916	10.50	266.70

22 AWG Triads Stranded (7x30) Tinned Copper Conductors • Twisted Triads**Unshielded • PVC Insulation • Chrome PVC Jacket**

NEC: PLTC, ITC, CMG
CEC: CMG FT4
IEEE 1202/383
ICEA T-29-520



9491	1	E1	U-500	U-152.4	12.5	5.7	.037	.94	.208	5.28	29	129	2.00	50.80
			U-1000	U-304.8	23.0	10.4								

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

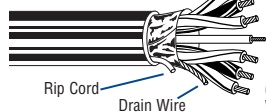
NEC: PLTC, ITC, CMG
CEC: CMG FT4
IEEE 1202/383
ICEA T-29-520



9363	1	E1	U-500	U-152.4	13.5	6.1	.037	.94	.208	5.28	29	129	2.00	50.80
			U-1000	U-304.8	26.0	11.8								

22 AWG Triads Stranded (7x30) Bare Copper Conductors* • Twisted Triads**Overall Beldfoil Shield (100% Coverage) • PVC Insulation • PVC Jacket (Black or Chrome)**

NEC: PLTC, ITC, CMG
CEC: CMG FT4
IEEE 1202/383
ICEA T-29-520

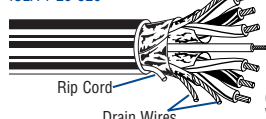


3002A	2	E1	Bulk ^{††}	Bulk	—	—	.043	1.09	.330	8.38	62	275	3.50	88.90
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For Exposed Run rated cable, order 3002AE

Individually Shielded + Overall Beldfoil Shield (100% Coverage) • PVC Insulation • PVC Jacket (Black or Chrome)

NEC: PLTC, ITC, CMG
CEC: CMG FT4
IEEE 1202/383
ICEA T-29-520



3003A	2	E1	Bulk ^{††}	Bulk	—	—	.043	1.09	.330	8.38	82	364	3.25	82.55
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For Exposed Run rated cable, order 3003AE

*For tinned copper conductors, order with B suffix.

†For Exposed Run rated 3000 series cables, order with "E" suffix, e.g. 3001AE.

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.

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For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

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

20 AWG Pairs Stranded (19x32) 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	9408	1	E2	U-500 U-1000	U-152.4 U-304.8	12.0 23.0	5.5 10.4	.037 .94	.214 5.44	31 138	2.00 50.80
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Rip Cord

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

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	9320	1	E2	U-500 U-1000	U-152.4 U-304.8	14.5 28.0	6.6 12.7	.037 .94	.217 5.51	40 178	2.00 50.80
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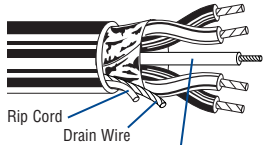


Rip Cord

Drain Wire

20 AWG Pairs Stranded (7x28) Bare Copper Conductors • Twisted Pairs**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	1033A	1	E1	1000 10000 †	304.8 3048.0	30.0 270.0	13.6 122.5	.037 .94	.213 5.41	42 187	2.25 57.15
	3016A	2	E1	Bulk ††	Bulk	—	—	.042 1.07	.332 8.43	92 409	3.75 95.25
	1056A	4	E1	10000 †	3048.0	820.0	372.0	.053 1.35	.408 10.36	135 601	4.25 107.95
	1057A	8	E1	10000 †	3048.0	1410.0	640.2	.053 1.35	.472 11.99	247 1099	5.00 127.00
	1058A	12	E1	7500 †	2286.0	1455.0	660.0	.053 1.35	.564 14.33	359 1597	6.00 152.40
	1059A	16	E1	5000 †	1524.0	1275.0	578.9	.064 1.63	.649 16.48	232 1032	6.50 165.10
	1060A	24	E1	5000 †	1524.0	1735.0	787.7	.064 1.63	.786 19.96	695 3092	8.25 209.55
	1061A	36	E1	2500 †	762.0	1300.0	590.2	.074 1.88	.960 24.38	1031 4587	10.00 254.00
	1062A	50	E1	2500 †	762.0	1825.0	827.8	.074 1.88	1.117 28.37	1423 6330	11.50 292.10



Rip Cord

Drain Wire

Communication Wire

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

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	1075A	2	E1	10000 †	3048.0	650.0	294.8	.042 1.07	.337 8.56	97 432	3.75 95.25
	1076A	4	E1	7500 †	2286.0	787.5	357.5	.053 1.35	.411 10.44	171 761	4.50 114.30
	1077A	8	E1	7500 †	2286.0	1297.5	588.6	.053 1.35	.514 13.06	320 1424	5.50 139.70
	1078A	12	E1	7500 †	2286.0	1942.5	881.1	.064 1.63	.637 16.18	468 2082	6.75 171.45
	1079A	16	E1	5000 †	1524.0	1555.0	705.4	.064 1.63	.704 17.88	617 2745	7.50 190.50
	1091A	20	E1	Bulk ††	Bulk	—	—	.064 1.63	.780 19.81	765 3403	8.25 209.55
	1080A	24	E1	2500 †	762.0	1142.5	518.2	.074 1.88	.863 21.92	914 4066	9.00 228.60
	1081A	36	E1	2000 †	609.6	1436.0	651.9	.074 1.88	1.035 26.29	1359 6046	10.50 266.70
	1082A	50	E1	2000 †	609.6	1858.0	843.5	.074 1.88	1.215 30.86	1878 8355	12.75 323.85

F-R = Flame-retardant

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

††Bulk = Check length available for specific construction.

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.

Conductor, Insulation and Jacket Options**

To Specify:			Bare	Tinned	Insulation/Jacket
1234	A	E	A	B	PVC/PVC
Start with Part No.	Add or replace letter code for desired conductor, insulation & jacket	Add for Exposed Run rating if desired	C	D	XLPE/PVC
			K	L	TPE/TPE
			Q	R	XLPE/CPE
			S	T	XLPE/Haloarrest®

**For 1000 and 3000 Series cables only.

BELDENFor more information, contact **Belden Technical Support: 1-800-BELDEN-1 • www.belden.com****Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr**

UL Instrumentation Cable

300V Power-Limited Tray Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Triads	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

20 AWG Triads Stranded (19x32) Tinned Copper Conductors • Twisted Triads**Unshielded • PVC Insulation • Chrome PVC Jacket**

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	9492	1	E1	U-500 U-1000	U-152.4 U-304.8	15.5 29.0	7.0 13.2	.037 .94	.225 5.72	46 205	2.25 57.15
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Rip Cord

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

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	9364	1	E1	U-500 U-1000	U-152.4 U-304.8	17.0 32.0	7.7 14.5	.037 .94	.228 5.79	46 205	2.25 57.15
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Rip Cord

Drain Wire

20 AWG Triads Stranded (7x28) Bare Copper Conductors • Twisted Triads**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	1526A	1	E1	10000 [†]	3048.0	310.0	140.6	.037 .94	.215 5.46	42 187	2.20 55.88
	3017A	2	E1	Bulk ^{††}	Bulk	—	—	.055 1.40	.360 9.14	97 432	3.60 91.44
	3020A	4	E1	Bulk ^{††}	Bulk	—	—	.055 1.40	.470 11.94	174 774	4.75 120.65
	3021A	8	E1	Bulk ^{††}	Bulk	—	—	.055 1.40	.560 14.22	330 1468	5.00 127.00
	3022A	12	E1	Bulk ^{††}	Bulk	—	—	.066 1.68	.710 18.03	485 2158	7.00 177.80
	3023A	16	E1	Bulk ^{††}	Bulk	—	—	.064 1.63	.821 20.85	600 2669	7.75 196.85
	3024A	24	E1	Bulk ^{††}	Bulk	—	—	.074 1.88	1.031 26.19	920 4093	9.25 234.95



Rip Cord

Drain Wire

Communication Wire

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

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	3018A	2	E1	Bulk ^{††}	Bulk	—	—	.055 1.40	.372 9.45	102 454	3.75 95.25
	1083A	4	E1	10000 [†]	3048.0	1410.8	640.9	.053 1.35	.451 11.46	228 1014	4.50 114.30
	1084A	8	E1	7500 [†]	2286.0	1755.0	796.1	.064 1.63	.575 10.81	432 1922	5.75 146.05
	1085A	12	E1	5000 [†]	1524.0	1735.0	787.0	.064 1.63	.714 18.14	636 2829	7.15 181.61
	1092A	16	E1	Bulk ^{††}	Bulk	—	—	.064 1.63	.793 20.14	841 3741	7.90 200.66
	1086A	24	E1	2500 [†]	762.0	1602.5	726.9	.074 1.88	.992 25.20	1250 5561	9.90 251.46
	3067A	36	E1	Bulk ^{††}	Bulk	—	—	.074 1.88	1.292 32.82	1875 6273	13.00 330.20



Rip Cord

Drain Wires

Communication Wire

[†]Final put-up length may vary ±10% from length shown.^{††}Bulk = Check length available for specific construction.

E1 = 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.

Conductor, Insulation and Jacket Options****To Specify:**

1234	A	E
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
A	B	PVC/PVC
C	D	XLPE/PVC
K	L	TPE/TPE
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

**For 1000 and 3000 Series cables only.

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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

9409	1	E2	U-500	U-152.4	15.0	6.8	.037	.94	.230	5.84	49	218	2.25	57.15
			U-1000	U-304.8	28.0	12.7								

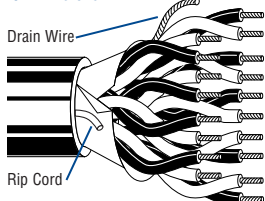


Rip Cord

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

NEC: PLTC, ITC, CMG
CEC: CMG FT4
IEEE 1202/383
ICEA T-29-520

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

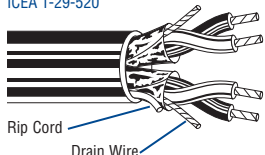


Rip Cord

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

NEC: PLTC, ITC, CMG
CEC: CMG FT4
IEEE 1202/383
ICEA T-29-520

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



Rip Cord

Drain Wire

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
1234	A	E	A	B	PVC/PVC
Start with Part No.	Add or replace letter code for desired conductor, insulation & jacket	Add for Exposed Run rating if desired	C	D	XLPE/PVC
			K	L	TPE/TPE
			Q	R	XLPE/CPE
			S	T	XLPE/Haloarrest®

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UL Instrumentation Cable

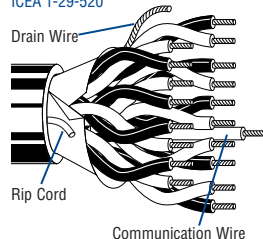
300V Power-Limited Tray Cables

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 (7x26) Bare Copper Conductors • Twisted Pairs**Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Black PVC Jacket** (See chart below for other options)

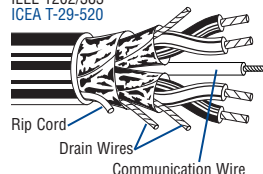
NEC: PLTC, ITC, CMG
CEC: CMG FT4
IEEE 1202/383
ICEA T-29-520



1032A	1	E1	1000	304.8	38.0	17.2	.037	.94	.233	5.92	67	298	2.50	63.50
			10000 †	3048.0	380.0	172.5								
3025A	2	E1	10000 †	3048.0	760.0	344.7	.042	1.07	.375	9.53	121	538	3.50	88.90
1529A	3	E1	7500 †	2286.0	735.0	333.4	.053	1.35	.415	10.54	165	734	4.25	107.95
1466A	4	E1	7500 †	2286.0	892.5	404.8	.053	1.35	.452	11.48	211	939	4.50	114.30
1467A	8	E1	7500 †	2286.0	1477.5	670.8	.053	1.35	.523	13.28	390	1735	5.50	139.70
1468A	12	E1	5000 †	1524.0	1375.0	624.3	.064	1.63	.673	17.09	560	2491	6.75	171.45
3034A	16	E1	Bulk ††	Bulk	—	—	.066	1.68	.713	18.11	640	2847	7.25	184.15
1471A	24	E1	2500 †	762.0	1292.5	586.3	.074	1.88	.932	23.67	1105	4916	9.25	234.95
1472A	36	E1	1250 †	381.0	910.0	413.1	.074	1.88	1.062	26.97	1644	7313	10.50	266.70
3041A	50	E1	Bulk ††	Bulk	—	—	.074	1.88	1.240	31.50	2240	10049	12.75	323.85

Individually Shielded + Overall Beldfoil (100% Coverage) • PVC Insulation • Black PVC Jacket (Other options below)

NEC: PLTC, ITC, CMG
CEC: CMG FT4
IEEE 1202/383
ICEA T-29-520



1474A	2	E1	7500 †	2286.0	720.0	326.9	.053	1.35	.408	10.16	149	663	4.00	101.60
1475A	4	E1	7500 †	2286.0	1065.0	483.1	.053	1.35	.468	11.89	267	1188	4.75	120.65
1476A	8	E1	5000 †	1524.0	1185.0	538.0	.053	1.35	.594	15.10	501	2229	6.00	152.40
1477A	12	E1	5000 †	1524.0	1740.0	789.3	.064	1.63	.737	18.72	779	3465	7.25	184.15
3035A	16	E1	Bulk ††	Bulk	—	—	.064	1.63	.836	21.20	725	3225	8.50	215.90
1480A	24	E1	2500 †	762.0	1712.5	777.5	.074	1.88	1.019	25.88	1443	6419	10.25	260.35
			5000 †	1524.0	3390.0	1539.1								
1481A	36	E1	Bulk ††	Bulk	—	—	.074	1.88	1.163	29.54	2148	9556	11.75	298.45
3042A	50	E1	Bulk ††	Bulk	—	—	.084	2.13	1.389	35.28	2935	13057	14.00	355.60

E1 = 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:			Bare	Tinned	Insulation/Jacket
1234	A	E	A	B	PVC/PVC
Start with Part No.	Add or replace letter code for desired conductor, insulation & jacket	Add for Exposed Run rating if desired	C	D	XLPE/PVC
			K	L	TPE/TPE
			Q	R	XLPE/CPE
			S	T	XLPE/Haloarrest®

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UL Instrumentation Cable

300V Power-Limited Tray Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Triads	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 Triads Stranded (19x30) Tinned Copper Conductors • Twisted Triads

Unshielded • PVC Insulation • Chrome PVC Jacket

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	9493	1	E1	U-500 U-1000	U-152.4 U-304.8	20.0 38.0	9.1 17.2	.037 .94	.242	6.15	62	276	2.25	57.15
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Rip Cord

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

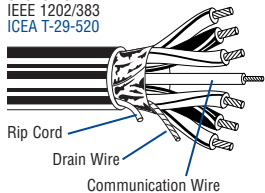
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	9365	1	E1	U-500 U-1000	U-152.4 U-304.8	22.0 43.0	10.0 19.5	.037 .94	.245	6.22	74	329	2.50	63.50
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Rip Cord
Drain Wire

18 AWG Triads Stranded (7x26) Bare Copper Conductors • Twisted Triads

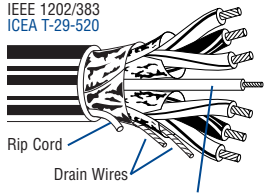
Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket (See chart below for other options)

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520 	1036A	1	E1	1000 10000 †	304.8 3048.0	43.0 430.0	19.5 195.1	.037 .94	.236	5.99	90	400	2.40	60.96	
	3027A	2	E1	Bulk ††	Bulk	—	—	.055	1.40	.420	10.67	165	734	4.25	107.95
	3030A	4	E1	Bulk ††	Bulk	—	—	.055	1.40	.521	13.20	240	1068	4.50	114.30
	3032A	8	E1	Bulk ††	Bulk	—	—	.064	1.63	.580	14.70	501	2229	5.75	146.05
	3036A	16	E1	Bulk ††	Bulk	—	—	.077	1.96	.900	22.86	1050	4671	9.00	228.60
	3038A	24	E1	Bulk ††	Bulk	—	—	.077	1.96	1.020	25.91	1450	6450	10.25	260.35

Rip Cord
Drain Wire
Communication Wire

Individually Shielded + Overall Beldfoil (100% Coverage) • PVC Insulation • Black PVC Jacket (Other options below)

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	3028A	2	E1	Bulk ††	Bulk	—	—	.055	1.40	.450	11.43	175	779	4.50	114.30
	3031A	4	E1	Bulk ††	Bulk	—	—	.053	1.35	.533	13.50	255	1134	5.25	133.35
	3033A	8	E1	Bulk ††	Bulk	—	—	.064	1.63	.654	16.50	560	2491	6.50	165.10
	3068A	12	E1	Bulk ††	Bulk	—	—	.063	1.60	.840	21.30	800	3559	8.50	215.90
	3037A	16	E1	Bulk ††	Bulk	—	—	.074	1.88	.974	24.70	1320	5872	10.50	266.70
	3039A	24	E1	Bulk ††	Bulk	—	—	.074	1.88	1.200	30.50	1620	7207	11.25	285.75

Rip Cord
Drain Wires
Communication Wire

E1 = 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:			Bare	Tinned	Insulation/Jacket
1234	A	E	A	B	PVC/PVC
Start with Part No.	Add or replace letter code for desired conductor, insulation & jacket	Add for Exposed Run rating if desired	C	D	XLPE/PVC
			K	L	TPE/TPE
			Q	R	XLPE/CPE
			S	T	XLPE/Haloarrest®

**For 1000 and 3000 Series cables only.

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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	9410	1	E2	U-500 U-1000	U-152.4 U-304.8	18.5 36.0	8.4 16.3	.037	.94	.254	6.45	78	347	2.50	63.50
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Rip Cord

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

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

Drain Wire

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)

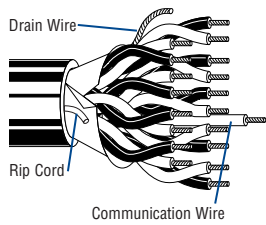
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	1035A	1	E1	1000 10000†	304.8 3048.0	40.0 400.0	18.1 181.4	.037	.94	.254	6.45	71	318	2.50	63.50
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Rip Cord

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

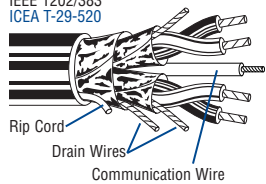


Rip Cord

Communication Wire

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



Rip Cord

Drain Wires

Communication Wire

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:			Bare	Tinned	Insulation/Jacket
1234	A	E	A	B	PVC/PVC
Start with Part No.	Add or replace letter code for desired conductor, insulation & jacket	Add for Exposed Run rating if desired	C	D	XLPE/PVC
			K	L	TPE/TPE
			Q	R	XLPE/CPE
			S	T	XLPE/Haloarrest®

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UL Instrumentation Cable**300V Power-Limited Tray Cables****Industrial Grade Sunlight- and Oil-Resistant Jackets**

Description	Part No.	No. of Triads	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 Triads Stranded (19x29) Tinned Copper Conductors • Twisted Triads**Unshielded • PVC Insulation • Chrome PVC Jacket**

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	9494	1	E1	U-500 U-1000	U-152.4 U-304.8	24.5 48.0	11.1 21.8	.037 .94	.268 6.81	91 405	2.75 69.85
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Rip Cord

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

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	9366	1	E1	U-500 U-1000	U-152.4 U-304.8	27.5 54.0	12.5 24.5	.037 .94	.270 6.86	116 516	2.75 69.85
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Rip Cord
Drain Wire**16 AWG Triads Stranded (7x24) Bare Copper Conductors • Twisted Triads****Unshielded • PVC Insulation • Black PVC Jacket (See chart below for other options)**

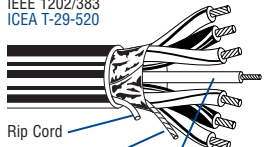
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	1034A	1	E1	1000 4000 †	304.8 1219.2	51.0 208.0	23.2 94.4	.037 .94	.268 6.81	107 476	2.75 69.85
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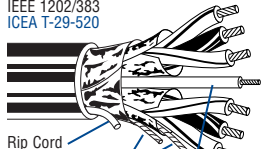
Rip Cord

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	1031A	1	E1	1000 10000 †	304.8 3048.0	58.0 610.0	26.4 276.7	.037 .94	.271 6.88	130 578	2.75 69.85
	3044A	2	E1	Bulk ††	Bulk	—	—	.053 1.35	.483 12.27	259 1152	4.75 120.65
	3046A	4	E1	Bulk ††	Bulk	—	—	.053 1.35	.570 14.40	473 2104	5.75 146.05
	3048A	8	E1	Bulk ††	Bulk	—	—	.063 1.60	.760 19.30	902 4013	7.50 190.50
	3052A	16	E1	Bulk ††	Bulk	—	—	.074 1.88	1.032 26.21	1758 7821	11.25 285.75
	3054A	24	E1	Bulk ††	Bulk	—	—	.074 1.88	1.180 29.90	2615 11633	11.75 298.45

Rip Cord
Drain Wire
Communication Wire**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	3045A	2	E1	Bulk ††	Bulk	—	—	.053 1.35	.506 12.80	304 1352	5.00 127.00
	3047A	4	E1	Bulk ††	Bulk	—	—	.053 1.35	.569 14.45	563 2505	6.00 152.40
	3049A	8	E1	Bulk ††	Bulk	—	—	.064 1.63	.764 19.41	1081 4809	8.00 203.20
	3069A	12	E1	Bulk ††	Bulk	—	—	.074 1.88	.998 25.35	1500 6673	10.00 254.00
	3053A	16	E1	Bulk ††	Bulk	—	—	.074 1.88	1.150 29.20	2117 9418	11.50 292.10
	3055A	24	E1	Bulk ††	Bulk	—	—	.084 2.13	1.320 33.53	3153 14026	13.25 336.55

Rip Cord
Drain Wires
Communication Wire

E1 = 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:			Bare	Tinned	Insulation/Jacket
1234	A	E	A	B	PVC/PVC
Start with Part No.	Add or replace letter code for desired conductor, insulation & jacket	Add for Exposed Run rating if desired	C	D	XLPE/PVC
			K	L	TPE/TPE
			Q	R	XLPE/CPE
			S	T	XLPE/Haloarrest®

**For 1000 and 3000 Series cables only.

BELDEN

For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

UL Instrumentation Cable

300V Power-Limited Tray Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs/Triads	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

14 AWG Pairs Stranded (42x30) Tinned Copper Conductors • Twisted Pairs**Unshielded • PVC Insulation • Chrome PVC Jacket**

NEC: PLTC, ITC, CL3R CEC: FT4 IEEE 1202/383 ICEA T-29-520	9411	1	E2	U-500 1000	U-152.4 304.8	28.0 60.0	12.7 27.3	.042	1.07	.322	8.18	124	552	3.25	82.55
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Rip Cord

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

NEC: PLTC, ITC, CL3R CEC: FT4 IEEE 1202/383 ICEA T-29-520	9314	1	E2	U-500 1000	U-152.4 304.8	32.5 66.0	14.7 29.9	.042	1.07	.324	8.23	140	623	3.25	82.55
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Rip Cord
Drain Wire**14 AWG Triads** Stranded (42x30) Tinned Copper Conductors • Twisted Triads**Unshielded • PVC Insulation • Chrome PVC Jacket**

NEC: PLTC, ITC, CL3R CEC: FT4 IEEE 1202/383 ICEA T-29-520	9495	1	E1	500 1000	152.4 304.8	43.5 86.0	19.7 39.0	.042	1.07	.340	8.64	186	827	3.50	88.90
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Rip Cord

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

NEC: PLTC, ITC, CL3R CEC: FT4 IEEE 1202/383 ICEA T-29-520	9367	1	E1	500 1000	152.4 304.8	43.5 88.0	19.7 40.0	.042	1.07	.343	8.71	188	836	3.50	88.90
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Rip Cord
Drain Wire

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

UL Instrumentation Cable

300V Power-Limited Tray Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs/Triads	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

12 AWG Pairs Stranded (65x30) Tinned Copper Conductors • Twisted Pairs**Unshielded • PVC Insulation • Chrome PVC Jacket**

NEC: PLTC, ITC, CL3R	9412	1	E2	500	152.4	41.5	18.8	.042	1.07	.370	9.40	197	876	4.25	107.95
CEC: FT4				1000	304.8	83.0	37.7								
IEEE 1202/383 ICEA T-29-520															



Rip Cord

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

NEC: PLTC, ITC, CL3R	9312	1	E2	500	152.4	49.0	22.3	.042	1.07	.373	9.47	225	1001	4.25	107.95
CEC: FT4				1000	304.8	96.0	43.6								
IEEE 1202/383 ICEA T-29-520															



Rip Cord

Drain Wire

12 AWG Triads Stranded (7x20) Bare Copper Conductors • Twisted Triads**Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket** (See chart below for other options)

NEC: PLTC, ITC, CL3R	3102A	1	E1	Bulk †	Bulk	—	—	.053	1.35	.432	11.00	315	1401	3.50	88.90
CEC: FT4															
IEEE 1202/383 ICEA T-29-520															



Rip Cord

Drain Wire

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

†Bulk = Check length available for specific construction.

Conductor, Insulation and Jacket Options**

To Specify:			Bare	Tinned	Insulation/Jacket
1234	A	E	A	B	PVC/PVC
Start with Part No.	Add or replace letter code for desired conductor, insulation & jacket	Add for Exposed Run rating if desired	C	D	XLPE/PVC
			K	L	TPE/TPE
			Q	R	XLPE/CPE
			S	T	XLPE/Haloarrest®

**For 1000 and 3000 Series cables only.



For more information, contact **Belden Technical Support: 1-800-BELDEN-1 • www.belden.com**

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

UL Instrumentation Cable

Thermocouple Extension Cables and Thermocouple Wire — Overview

Construction Thermocouple Extension Cable

Conductor material determined by the thermocouple extension wire type. FEP or PVC insulated with FEP or PVC jacket. Nylon rip cord included in all PVC-jacketed thermocouple extension cables. Communication wire included on all multi-pair, PVC constructions — 22 AWG (7x30) bare copper orange PVC insulation.

NOTE: The temperature ranges in Table A are applicable only to the thermocouple conductors and not to the cable. The cable must never be exposed to temperatures higher than the maximum temperature ratings shown in Table B.

Table B: Other Insulation/Jacket Options

UL Listed for PLTC	
Insulation/Jacket	Max. Temp Rating
XLPE/PVC	90°C
XLPE/CPE	90°C
PVC/PVC	105°C
PVC/CPE	105°C
PE/PVC	75°C
FPE/PVC	75°C
TPE/TPE	105°C
XLPE/Haloarrest®	90°C
FEP/FEP	200°C

Application

Unshielded

Parallel non-shielded extension wire may be utilized in low noise environments when recommended by the instrument manufacturer.

Overall Shield

Recommended, except in areas where high voltage and current sources create excessive noise interference. The Beldfoil® shield with drain wire provides 100% coverage for maximum shield effectiveness.

Individually Shielded

Individually shielded pairs are recommended for use in applications where optimum noise rejection is required.

PVC Insulated, PVC Jacketed Cable Specifications

- UL Subject 13
- UL 1685 (UL 1581) Vertical Tray Flame Test comparable to IEEE 383-1974 (70,000 BTU) Flame Test
- ANSI/MC 96.1-1982
- NEC CMG
- NEC Type PLTC Listed, which is approved for cable tray use in Class 1, Division 2, hazardous areas and non-hazardous areas, cable trays, raceways, conduit and supported by messenger wires.

- NEC Type ITC Listed, which is approved for cable tray use, raceways hazardous locations according to Articles 501, 502, 503 and 504; or as aerial on a cable messenger, and under raised floors in control rooms and rack rooms where arranged to prevent damage to the cable. Usages are allowed based on qualified persons servicing all installations.
- PVC/PVC constructions are CMG, FT4, IEEE 1202 and IEEE 383-2003 rated, and meet ICEA T-29-520 Flame Test.
- UL 1277 TC versions approved for use in Class 1 trays available as special.

Shielded Twisted Pair (FEP insulated, FEP jacketed cable specifications)

- UL Subject 13
- NFPA 262 (UL 910 Steiner Tunnel Flame Test) comparable to FT6 Flame Test
- ANSI/MC 96.1-1982
- NEC Type CL3P/PLTC Listed, which is approved for use in ducts, plenums and other space used for environmental air.
- UL 1277 TC versions approved for use in Class 1 trays available as special.

Thermocouple Wire

Conductor material determined by the thermocouple type. FEP insulated and jacketed flat constructions.

FEP thermocouple wire is impervious to chemical attack and is flame retardant.

Table A: Thermocouple Identification and Limits of Error — Reference Junction 0°C*

ANSI Symbol	Temperature Range (°C) (conductor only)	Limits of Error Standard (°C)	Jacket Color	Insulation Color Code		Conductor Identification	
				Positive (+)	Negative (-)	Positive (+)	Negative (-)
E	0 to 340 340 to 540	±1.7°C ±.50%	Brown	Purple	Red	Chromel® Non-magnetic	Constantan Silver Color
J	0 to 293 293 to 480	±2.2°C ±.75%	Brown	White	Red	Iron Magnetic	Constantan Non-magnetic
K	0 to 293 293 to 980	±2.2°C ±.75%	Brown	Yellow	Red	Chromel Non-magnetic	Alumel® Magnetic
T	0 to 133 133 to 260	±1.0°C ±.75%	Brown	Blue	Red	Copper Copper Color	Constantan Non-magnetic
EX	0 to 200	±1.7°C	Purple	Purple	Red	Chromel	Constantan
JX	0 to 200	±2.2°C	Black	White	Red	Iron	Constantan
KX	0 to 200	±2.2°C	Yellow	Yellow	Red	Chromel	Alumel
TX	0 to 100	±1.0°C	Blue	Blue	Red	Copper	Constantan

Limits of error per ANSI MC96.1-1982. Limits shown do not include system or installation error. Percentages refer to the temperature being measured.

*The Temperature Range and Limits of Error are for standard grade thermocouples, Reference ANSI MC96.1-1982 for special grade thermocouples. The Temperature Ranges for type E, J, K and T thermocouple wires listed above pertain to 20 AWG wire.

Additional constructions available upon request.

Standard lengths may be subject to tolerance. Custom lengths may be available upon request. Contact the Belden Electronics Division Customer Service Department for additional information. 1-800-BELDEN-1

UL Instrumentation Cable

Thermocouple Extension Cables

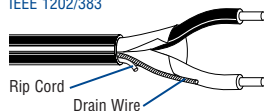
Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	ANSI Type	No. of Pairs	Color Code	Jacket Color	Standard Lengths		Standard Unit Weight		Insulation Thickness		Nominal OD	
						Ft.	m	Lbs.	kg	Inch	mm	Inch	mm

20 AWG Pairs Solid Conductors • (See chart on page 18.53 for conductor specifications by ANSI Type)

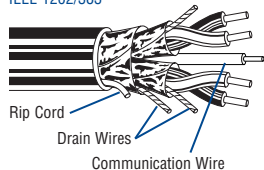
Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • PVC Jacket

300V 105°C NEC: PLTC, ITC, CMG CEC: CMG FT4 ICEA T-29-520 IEEE 1202/383	3111A	JX	1	White, Red	Black	5000 †	1524.0	115.0	52.2	.016	.41	.206	5.23
	3112A	KX	1	Yellow, Red	Yellow	5000 †	1524.0	120.0	54.5	.016	.41	.206	5.23
	3113A	TX	1	Blue, Red	Blue	5000 †	1524.0	115.0	52.2	.016	.41	.206	5.23



Individually Shielded + Overall Beldfoil Shield (100% Coverage) • PVC Insulation • PVC Jacket

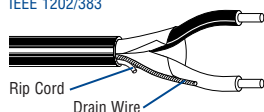
300V 105°C NEC: PLTC, ITC, CMG CEC: CMG FT4 ICEA T-29-520 IEEE 1202/383	3115A	JX	2	White, Red	Black	5000 †	1524.0	315.0	143.0	.016	.41	.332	8.43
	1006A	JX	4	White, Red	Black	5000 †	1524.0	480.0	217.9	.016	.41	.383	9.73
	1012A	KX	4	Yellow, Red	Yellow	5000 †	1524.0	530.0	240.6	.016	.41	.383	9.73
	1013A	KX	8	Yellow, Red	Yellow	5000 †	1524.0	825.0	374.6	.016	.41	.503	12.78
	1014A	KX	12	Yellow, Red	Yellow	5000 †	1524.0	1195.0	542.5	.016	.41	.603	15.32



16 AWG Pairs Solid Conductors • (See chart on page 18.53 for conductor specifications by ANSI Type)

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

300V 105°C NEC: PLTC, ITC, CMG CEC: CMG FT4 ICEA T-29-520 IEEE 1202/383	1101A	EX	1	Purple, Red	Purple	10000 †	3048.0	450.0	204.3	.017	.43	.248	6.30
	1000A	JX	1	White, Red	Black	1000	304.8	42.0	19.1	.017	.43	.248	6.30
						10000 †	3048.0	420.0	190.7				
	1018A	KX	1	Yellow, Red	Yellow	1000	304.8	42.0	19.1	.017	.43	.248	6.30
						10000 †	3048.0	420.0	190.7				
	1023A	TX	1	Blue, Red	Blue	10000 †	3048.0	450.0	204.3	.017	.43	.248	6.30



Multiple pair cables have each pair numbered for ease of identification.

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

UL Instrumentation Cable

High-Temperature Thermocouple Extension Cables and Thermocouple Wire
Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	ANSI Type	No. of Pairs/Cond.	Color Code	Jacket Color	Standard Lengths		Standard Unit Weight		Insulation Thickness		Nominal OD	
						Ft.	m	Lbs.	kg	Inch	mm	Inch	mm

High-Temp Extension Cable • 20 AWG Solid Conductors • (See chart on page 18.53 for conductor specifications by ANSI Type)

Plenum • Unshielded • FEP Insulation • FEP Jacket

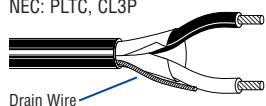
300V 200°C NEC: PLTC, CL3P		83932	KX	2/c	Yellow, Red	Yellow	500 †	152.4	6.5	3.0	.010	.25	.076	1.93
							1000 †	304.8	12.0	5.4			x .128	x 3.25
		83934	TX	2/c	Blue, Red	Blue	1000 †	304.8	13.0	6.0	.010	.25	.076	1.93
													x .128	x 3.25

High-Temp Extension Cable • 20 AWG Stranded (7x28) Conductors • (See chart on page 18.53 for conductor specifications by ANSI Type)

Plenum • Unshielded • FEP Insulation • FEP Jacket

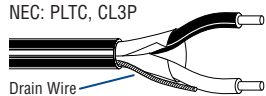
300V 200°C NEC: PLTC, CL3P		83930	JX	2/c	White, Red	Black	500 †	152.4	7.5	3.4	.010	.25	.082	2.08
							1000 †	304.8	13.0	6.0			x .140	x 3.56

Plenum • Overall Beldfoil® Shield (100% Coverage) • FEP Insulation • FEP Jacket

300V 200°C NEC: PLTC, CL3P		83955	EX	1 pr.	Purple, Red	Purple	500 †	152.4	9.0	4.1	.010	.25	.145	3.68
							1000 †	304.8	16.0	7.3				
		83950	JX	1 pr.	White, Red	Black	500 †	152.4	9.5	4.3	.010	.25	.145	3.68
							1000 †	304.8	16.0	7.3				
		83952	KX	1 pr.	Yellow, Red	Yellow	500 †	152.4	9.5	4.3	.010	.25	.145	3.68
							1000 †	304.8	16.0	7.3				
		83954	TX	1 pr.	Blue, Red	Blue	500 †	152.4	9.0	4.1	.010	.25	.145	3.68
							1000 †	304.8	17.0	7.7				

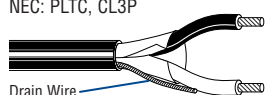
High-Temp Extension Cable • 16 AWG Pairs Solid Conductors • (See chart on page 18.53 for conductor specifications by ANSI Type)

Plenum • Overall Beldfoil Shield (100% Coverage) • FEP Insulation • FEP Jacket

300V 200°C NEC: PLTC, CL3P		1114A	EX	1	Purple, Red	Purple	5000 †	1524.0	160.0	72.6	.010	.25	.172	4.37
		1115A	JX	1	White, Red	Black	5000 †	1524.0	155.0	70.4	.010	.25	.172	4.37
		1116A	KX	1	Yellow, Red	Yellow	5000 †	1524.0	160.0	72.6	.010	.25	.171	4.34
		1117A	TX	1	Blue, Red	Blue	5000 †	1524.0	160.0	72.6	.010	.25	.172	4.37

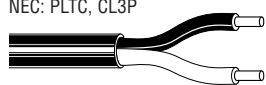
High-Temp Extension Cable • 16 AWG Pairs Stranded (7x24) Conductors • (See chart on page 18.53 for conductor specifications by ANSI Type)

Plenum • Overall Beldfoil Shield (100% Coverage) • FEP Insulation • FEP Jacket

300V 200°C NEC: PLTC, CL3P		83951	JX	1	White, Red	Black	500 †	152.4	16.0	7.3	.010	.25	.189	4.80
							1000 †	304.8	35.0	15.9				
		83953	KX	1	Yellow, Red	Yellow	500 †	152.4	16.0	7.3	.010	.25	.187	4.75
							1000 †	304.8	32.0	14.5				

High-Temp Thermocouple Wire • 20 AWG Solid Conductors • (See chart on page 18.53 for conductor specifications by ANSI Type)

Plenum • Unshielded • FEP Insulation • FEP Jacket

300V 200°C NEC: PLTC, CL3P		83915	E	2/c	Purple, Red	Brown	500 †	152.4	7.0	3.2	.010	.25	.076	1.93
							1000 †	304.8	13.0	6.0			x .128	x 3.25
		83900	J	2/c	White, Red	Brown	100	30.5	2.1	1.0	.010	.25	.076	1.93
							500 †	152.4	7.0	3.2			x .128	x 3.25
		83905	K	2/c	Yellow, Red	Brown	100	30.5	2.1	1.0	.010	.25	.076	1.93
							500 †	152.4	7.0	3.2			x .128	x 3.25
		83910	T	2/c	Blue, Red	Brown	100	30.5	2.1	1.0	.010	.25	.076	1.93
							500 †	152.4	7.0	3.2			x .128	x 3.25
							1000 †	304.8	12.0	5.4				

FEP = Fluorinated Ethylene-propylene

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

Multiple pair cables have each pair numbered for ease of identification.