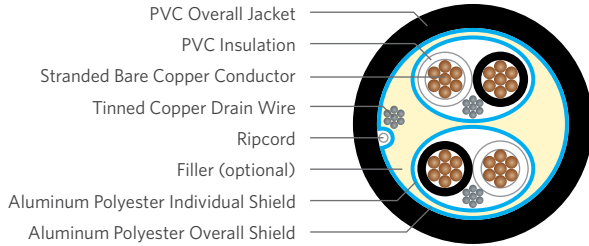


# PVC/PVC, 300V Type PLTC/ITC, Pairs and Triads

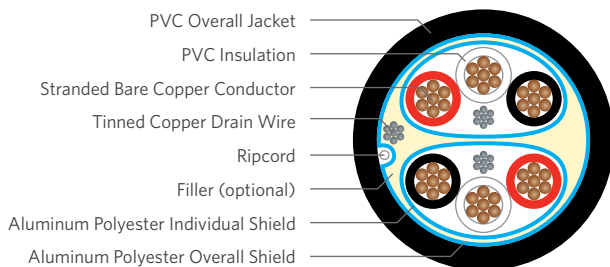
Series E1AC



Series E1ACD - Pairs



Series E1ACD - Triads



## PRODUCT DESCRIPTION

The Superior Essex PVC/PVC, 300V Type PLTC/ITC Cables consist of fully annealed bare copper, Class B stranded conductors (in pairs or triads), covered with Polyvinyl Chloride (PVC) insulation, overall and/or individually shielded and black PVC jacket. These cables are used in control systems, audio, intercom, alarm circuits and energy management.

## APPLICATIONS

- In free air, ducts, cable trays, conduit and raceways
- Approved for Class I Div. 2 industrial hazardous locations per NEC

## FEATURES

- Rated at 105°C
- Ripcord (for jackets with thicknesses of 60-mils or less)
- Excellent sunlight resistance
- Meets cold bend test at -20°C
- Pair/Triad ID marking system
- Multiple shielding options available including individual, overall, or individual and overall

## SPECIFICATIONS

<b>Conductor Count</b>	Available in 1-pair through 36-pairs, and 1-triad through 24-triads
<b>Conductor</b>	Fully annealed bare copper Class B compressed strand
<b>Gauge Sizes</b>	Available in 18 or 16 AWG
<b>Insulation</b>	Polyvinyl Chloride (PVC)
<b>Color Coding</b>	Per ICEA S-58-679 Method 9, Table E-1 (black-white-red), plus one conductor per pair/triad printed for identification; additional color coding options available
<b>Shield Options</b>	<p><b>Overall (OS):</b> Overall Aluminum polyester foil shield in contact with 20 AWG stranded tinned copper drain wire</p> <p><b>Individual (IS):</b> Each pair or triad with Aluminum polyester foil shield in contact with 20 AWG stranded tinned copper drain wire</p> <p><b>Individual and Overall (IS/OS):</b> Combination of both individual and overall with Aluminum polyester foil shield in contact with 20 AWG stranded tinned copper drain wire</p>
<b>Jacket</b>	Polyvinyl Chloride (PVC)
<b>Jacket Marking</b>	00000 FT SUPERIOR ESSEX XXAWG XX/PR (or TR) PVC/PVC OS (or IS or IS/OS) 105°C TYPE ITC OR PLTC (UL) SUN RES Made in USA MMDDYYYY
<b>Packaging</b>	Non-returnable wood reels in a variety of lengths and dimensions
<b>Performance Compliances</b>	ASTM B8 ASTM B33 UL 13 UL 2250 NEC Article 727 for ITC
<b>Other Compliances</b>	EPA 40 CFR, part 261 OSHA RoHS-compliant

## PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Shielding Options			Jacket
Cu	B	300V	PVC	OS Alum Mylar	or IS Alum Mylar	or IS Alum Mylar OS	PVC

## Overall Shielded Series E1ACB

## PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Pair Count	Triad Count	Conductor Size AWG	Insulation Thickness in (mm)	Jacket Thickness in (mm)	Overall Diameter in (mm)	Net Weight lbs/kft (kg/km)
E1ACB-181B01PJ00	1	-	18	0.015 (0.38)	0.040 (1.02)	0.239 (6.07)	35 (52)
E1ACB-181B01TJ00	-	1	18	0.015 (0.38)	0.040 (1.02)	0.263 (6.68)	44 (66)
E1ACB-181B02PJ00	2	-	18	0.015 (0.38)	0.042 (1.07)	0.361 (9.17)	55 (82)
E1ACB-181B04PJ00	4	-	18	0.015 (0.38)	0.042 (1.07)	0.439 (11.15)	101 (151)
E1ACB-181B08PJ00	8	-	18	0.015 (0.38)	0.060 (1.52)	0.647 (16.43)	192 (285)
E1ACB-181B12PJ00	12	-	18	0.015 (0.38)	0.060 (1.52)	0.671 (17.04)	256 (382)
E1ACB-181B16PJ00	16	-	18	0.015 (0.38)	0.060 (1.52)	0.751 (19.08)	322 (481)
E1ACB-181B20PJ00	20	-	18	0.015 (0.38)	0.060 (1.52)	0.779 (19.79)	389 (581)
E1ACB-181B24PJ00	24	-	18	0.015 (0.38)	0.070 (1.78)	0.916 (23.27)	471 (703)
E1ACB-181B36PJ00	36	-	18	0.015 (0.38)	0.070 (1.78)	1.031 (26.19)	671 (1001)
E1ACB-161B01PJ00	1	-	16	0.015 (0.38)	0.040 (1.02)	0.274 (6.96)	45 (67)
E1ACB-161B01TJ00	-	1	16	0.015 (0.38)	0.042 (1.07)	0.296 (7.52)	58 (86)
E1ACB-161B02PJ00	2	-	16	0.015 (0.38)	0.042 (1.07)	0.424 (10.77)	85 (127)
E1ACB-161B04PJ00	4	-	16	0.015 (0.38)	0.053 (1.35)	0.480 (12.19)	132 (197)
E1ACB-161B08PJ00	8	-	16	0.015 (0.38)	0.060 (1.52)	0.725 (18.42)	259 (385)
E1ACB-161B12PJ00	12	-	16	0.015 (0.38)	0.060 (1.52)	0.754 (19.15)	348 (519)
E1ACB-161B16PJ00	16	-	16	0.015 (0.38)	0.070 (1.78)	0.844 (21.44)	443 (661)
E1ACB-161B20PJ00	20	-	16	0.015 (0.38)	0.070 (1.78)	0.906 (23.01)	558 (833)
E1ACB-161B24PJ00	24	-	16	0.015 (0.38)	0.070 (1.78)	1.031 (26.19)	676 (1009)
E1ACB-161B36PJ00	36	-	16	0.015 (0.38)	0.070 (1.78)	1.166 (29.62)	936 (1397)

The dimensions and weights shown are nominal and subject to industry standards. Other designs available upon request.

## Individually and Overall Shielded Series E1ACD

## PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Pair Count	Triad Count	Conductor Size AWG	Insulation Thickness in (mm)	Jacket Thickness in (mm)	Overall Diameter in (mm)	Net Weight lbs/kft (kg/km)
E1ACD-181B02PJ00	2	-	18	0.015 (0.38)	0.042 (1.07)	0.384 (9.75)	69 (103)
E1ACD-181B02TJ00	-	2	18	0.015 (0.38)	0.040 (1.02)	0.445 (11.30)	96 (143)
E1ACD-181B04PJ00	4	-	18	0.015 (0.38)	0.042 (1.07)	0.466 (11.84)	120 (179)
E1ACD-181B04TJ00	-	4	18	0.015 (0.38)	0.050 (1.27)	0.513 (13.03)	143 (213)
E1ACD-181B08PJ00	8	-	18	0.015 (0.38)	0.060 (1.52)	0.664 (16.87)	212 (316)
E1ACD-181B08TJ00	-	8	18	0.015 (0.38)	0.060 (1.52)	0.690 (17.53)	275 (409)
E1ACD-181B12PJ00	12	-	18	0.015 (0.38)	0.060 (1.52)	0.762 (19.35)	315 (469)
E1ACD-181B12TJ00	-	12	18	0.015 (0.38)	0.060 (1.52)	0.841 (21.36)	412 (613)
E1ACD-181B16PJ00	16	-	18	0.015 (0.38)	0.060 (1.52)	0.844 (21.44)	401 (597)
E1ACD-181B16TJ00	-	16	18	0.015 (0.38)	0.070 (1.78)	0.962 (24.43)	550 (819)
E1ACD-181B20PJ00	20	-	18	0.015 (0.38)	0.070 (1.78)	0.956 (24.28)	505 (752)
E1ACD-181B20TJ00	-	20	18	0.015 (0.38)	0.070 (1.78)	1.062 (26.97)	668 (994)
E1ACD-181B24PJ00	24	-	18	0.015 (0.38)	0.070 (1.78)	1.039 (26.39)	596 (887)
E1ACD-181B24TJ00	-	24	18	0.015 (0.38)	0.070 (1.78)	1.144 (29.06)	785 (1168)
E1ACD-181B36PJ00	36	-	18	0.015 (0.38)	0.070 (1.78)	1.216 (30.89)	846 (1259)
E1ACD-161B02PJ00	2	-	16	0.015 (0.38)	0.042 (1.07)	0.449 (11.40)	96 (143)
E1ACD-161B02TJ00	-	2	16	0.015 (0.38)	0.040 (1.02)	0.494 (12.55)	122 (182)
E1ACD-161B04PJ00	4	-	16	0.015 (0.38)	0.053 (1.35)	0.507 (12.88)	151 (225)
E1ACD-161B04TJ00	-	4	16	0.015 (0.38)	0.050 (1.27)	0.572 (14.53)	195 (290)
E1ACD-161B08PJ00	8	-	16	0.015 (0.38)	0.060 (1.52)	0.742 (18.85)	288 (429)
E1ACD-161B08TJ00	-	8	16	0.015 (0.38)	0.060 (1.52)	0.785 (19.94)	375 (558)
E1ACD-161B12PJ00	12	-	16	0.015 (0.38)	0.060 (1.52)	0.857 (21.77)	435 (647)
E1ACD-161B12TJ00	-	12	16	0.015 (0.38)	0.070 (1.78)	0.971 (24.66)	597 (888)
E1ACD-161B16PJ00	16	-	16	0.015 (0.38)	0.070 (1.78)	0.975 (24.79)	575 (856)
E1ACD-161B16TJ00	-	16	16	0.015 (0.38)	0.070 (1.78)	1.073 (27.25)	765 (1138)
E1ACD-161B20PJ00	20	-	16	0.015 (0.38)	0.070 (1.78)	1.081 (27.46)	705 (1049)
E1ACD-161B20TJ00	-	20	16	0.015 (0.38)	0.070 (1.78)	1.194 (30.33)	933 (1388)
E1ACD-161B24PJ00	24	-	16	0.015 (0.38)	0.070 (1.78)	1.166 (29.62)	828 (1232)
E1ACD-161B24TJ00	-	24	16	0.015 (0.38)	0.080 (2.03)	1.311 (33.30)	1125 (1674)
E1ACD-161B36PJ00	36	-	16	0.015 (0.38)	0.080 (2.03)	1.392 (35.36)	1215 (1808)

The dimensions and weights shown are nominal and subject to industry standards. Other designs available upon request.