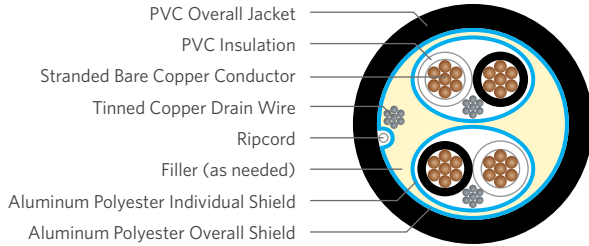


PVC/PVC, 300V Type PLTC/ITC-ER

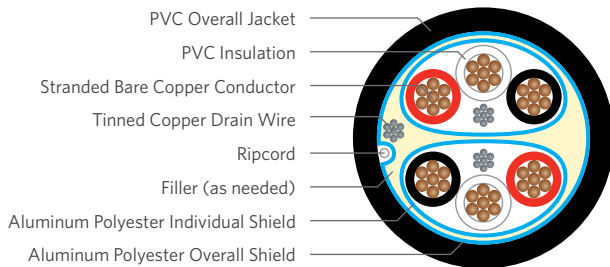
Series E1AC



Series E1ACD - Pairs



Series E1ACD - Triads



PRODUCT DESCRIPTION

The Superior Essex PVC/PVC, 300V Type PLTC/ITC-ER Cables consist of fully annealed bare copper, Class B stranded conductors (in pairs or triads), covered with Polyvinyl Chloride (PVC) insulation, overall shielded or individually and overall 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, raceways and direct burial
- Approved for Class I Div. 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) used in accordance with NEC

FEATURES

- Rated at 105°C
- Ripcord (for jackets with thicknesses of 60-mils or less)
- Excellent sunlight resistance
- Meets cold bend test at -25°C
- Pair/Triad ID marking system

MARKETS



SPECIFICATIONS

Conductor Count	Available in 1-pair through 36-pairs, and 1-triad through 24-triads
Conductor	Fully annealed bare copper Class B compressed strand
Gauge Sizes	Available in 18 or 16 AWG
Insulation	Polyvinyl Chloride (PVC)
Color Coding	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
Shield Options	Overall (OS): Overall Aluminum polyester (mylar) foil shield in contact with 20 AWG stranded tinned copper drain wire Individual and Overall (IS/OS): Combination of both individual and overall with Aluminum polyester (mylar) foil shield in contact with 20 AWG stranded tinned copper drain wire
Jacket	Polyvinyl Chloride (PVC)
Jacket Marking	00000 FT SUPERIOR ESSEX XXAWG XX/PR (or TR) PVC/PVC OS (or IS or IS/OS) 105C TYPE ITC-ER OR PLTC-ER (UL) SUN RES DIR BUR FT4/IEEE1202 MADE IN USA MMDDYYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliances	ASTM B8 ASTM B33 UL® 13 UL 1685 (flame compliance) UL 2250 CSA FT4/IEEE1202 (flame compliance) NEC Article 727 for ITC
Other Compliances	EPA 40 CFR, part 261 OSHA RoHS-compliant/RoHS 2-compliant REACH-compliant

UL is a registered trademark of UL LLC.

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Shielding Options	Jacket
Cu	B	300V	PVC	OS 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	Nominal Insulation Thickness ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)
E1ACB-181B01PJ00	1	-	18	0.015 (0.38)	0.042 (1.07)	0.239 (6.07)	35 (52)
E1ACB-181B01TJ00	-	1	18	0.015 (0.38)	0.042 (1.07)	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 (1,001)
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 (1,009)
E1ACB-161B36PJ00	36	-	16	0.015 (0.38)	0.070 (1.78)	1.166 (29.62)	936 (1,397)

Individually and Overall Shielded Series E1ACD

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Pair Count	Triad Count	Conductor Size AWG	Nominal Insulation Thickness ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ 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 (1,168)
E1ACD-181B36PJ00	36	-	18	0.015 (0.38)	0.070 (1.78)	1.216 (30.89)	846 (1,259)
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 (1,138)
E1ACD-161B20PJ00	20	-	16	0.015 (0.38)	0.070 (1.78)	1.081 (27.46)	705 (1,049)
E1ACD-161B20TJ00	-	20	16	0.015 (0.38)	0.070 (1.78)	1.194 (30.33)	933 (1,388)
E1ACD-161B24PJ00	24	-	16	0.015 (0.38)	0.070 (1.78)	1.166 (29.62)	828 (1,232)
E1ACD-161B24TJ00	-	24	16	0.015 (0.38)	0.080 (2.03)	1.311 (33.30)	1,125 (1,674)
E1ACD-161B36PJ00	36	-	16	0.015 (0.38)	0.080 (2.03)	1.392 (35.36)	1,215 (1,808)

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.