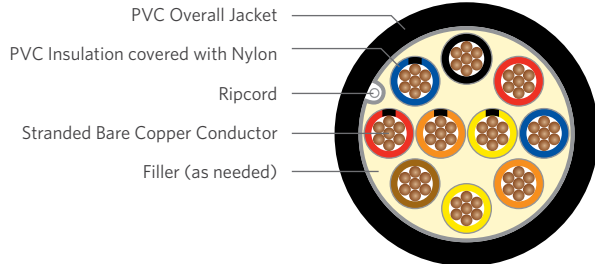


PVC/Nylon/PVC, 600V Control, Type TC-ER

Series E2BE



Series E2BEA



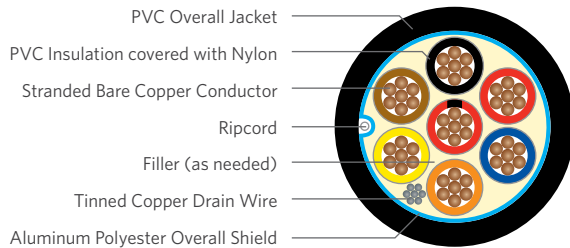
PVC Overall Jacket

PVC Insulation covered with Nylon

Ripcord

Stranded Bare Copper Conductor

Filler (as needed)



PVC Overall Jacket

PVC Insulation covered with Nylon

Stranded Bare Copper Conductor

Ripcord

Filler (as needed)

Tinned Copper Drain Wire

Aluminum Polyester Overall Shield

Series E2BEB

PRODUCT DESCRIPTION

The Superior Essex PVC/Nylon/PVC, 600V Control, Type TC-ER Cables consist of fully annealed bare copper Class B stranded conductors, covered with Polyvinyl Chloride (PVC) and clear Nylon insulation, unshielded or shielded and black PVC jacket. These cables are used in industrial power or station control circuits.

APPLICATIONS

- In conduit, duct, free air, raceways and direct burial, primary installations include cable trays, and outdoor locations
- In wet or dry locations
- Approved for Class I, Div. 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) used in accordance with NEC for 3 or more conductors; two conductors without a ground wire are Type TC only

FEATURES

- Rated at 75°C wet or 90°C dry
- Smallest OD available for suitable applications
- Ripcord (for jackets with thicknesses of 60-mils or less)
- Meets cold bend test at -25°C
- Excellent sunlight resistance

MARKETS



SPECIFICATIONS

Conductor Count	Available in 2 through 37 conductors
Conductor	Fully annealed bare copper Class B compressed strand
Gauge Sizes	Available in 18 through 10 AWG
Insulation	Polyvinyl Chloride (PVC) covered with Nylon <ul style="list-style-type: none"> • 18 through 16 AWG are type TFN • 14 AWG and larger are type THHN/THWN
Color Coding	Per ICEA S-58-679 Method 1, Table E-2; additional color coding options available
Fillers	Non-hygroscopic fillers, as necessary to obtain a circular cross section
Shield (optional)	Overall aluminum polyester (mylar) foil in contact with 20 AWG stranded tinned copper drain wire
Jacket	Polyvinyl Chloride (PVC)
Jacket Marking	<p>Type TC (2 conductors): 00000 FT SUPERIOR ESSEX XXAWG 2/C PVC/NYLON (or THHN/THWN) PVC JKT 600V 75C WET OR 90C DRY TYPE TC (UL) SUN RES DIR BUR FT4/IEEE1202 MADE IN USA MMDDYYYY</p> <p>Type TC-ER, conductor sizes 18 AWG - 16 AWG: 00000 FT SUPERIOR ESSEX XXAWG XX/C PVC/NYLON PVC JKT 600V 75C WET OR 90C DRY TYPE TC-ER (UL) SUN RES DIR BUR FT4/IEEE1202 MADE IN USA MMDDYYYY</p> <p>Type TC-ER, conductor sizes 14 AWG - 10 AWG: 00000 FT SUPERIOR ESSEX XXAWG XX/C THHN/THWN PVC JKT 600V 75C WET OR 90C DRY TYPE TC-ER (UL) SUN RES DIR BUR FT4/IEEE1202 MADE IN USA MMDDYYYY</p>
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliance	ASTM B8, ASTM B33 UL® 66, UL 83, UL 1277, UL 1685 (flame compliance) ICEA S-95-658, ICEA S-73-532 CSA FT4/IEEE1202 (flame compliance) NEC
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	600V	PVC Nylon	NONE or OS Alum Mylar	PVC

Unshielded Series E2BEA

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor 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)
E2BEA-181B02CB00	2	18	0.020 (0.51)	0.045 (1.14)	0.284 (7.22)	38 (57)
E2BEA-181B03CB00	3	18	0.020 (0.51)	0.045 (1.14)	0.298 (7.57)	48 (71)
E2BEA-181B04CB00	4	18	0.020 (0.51)	0.045 (1.14)	0.321 (8.16)	57 (85)
E2BEA-181B05CB00	5	18	0.020 (0.51)	0.045 (1.14)	0.344 (8.73)	67 (100)
E2BEA-181B07CB00	7	18	0.020 (0.51)	0.045 (1.14)	0.374 (9.49)	87 (129)
E2BEA-181B09CB00	9	18	0.020 (0.51)	0.060 (1.52)	0.437 (11.09)	108 (161)
E2BEA-181B12CB00	12	18	0.020 (0.51)	0.060 (1.52)	0.477 (12.12)	135 (201)
E2BEA-181B19CB00	19	18	0.020 (0.51)	0.060 (1.52)	0.587 (14.91)	216 (321)
E2BEA-181B25CB00	25	18	0.020 (0.51)	0.060 (1.52)	0.691 (17.56)	274 (408)
E2BEA-181B37CB00	37	18	0.020 (0.51)	0.080 (2.03)	0.766 (19.46)	376 (559)
E2BEA-161B02CB00	2	16	0.020 (0.51)	0.045 (1.14)	0.308 (7.83)	48 (71)
E2BEA-161B03CB00	3	16	0.020 (0.51)	0.045 (1.14)	0.324 (8.23)	61 (90)
E2BEA-161B04CB00	4	16	0.020 (0.51)	0.045 (1.14)	0.350 (8.90)	74 (110)
E2BEA-161B05CB00	5	16	0.020 (0.51)	0.045 (1.14)	0.379 (9.63)	88 (131)
E2BEA-161B07CB00	7	16	0.020 (0.51)	0.045 (1.14)	0.41 (10.41)	114 (170)
E2BEA-161B09CB00	9	16	0.020 (0.51)	0.060 (1.52)	0.481 (12.21)	143 (214)
E2BEA-161B12CB00	12	16	0.020 (0.51)	0.060 (1.52)	0.527 (13.39)	182 (271)
E2BEA-161B16CB00	16	16	0.020 (0.51)	0.060 (1.52)	0.617 (15.24)	251 (374)
E2BEA-161B19CB00	19	16	0.020 (0.51)	0.060 (1.52)	0.647 (16.43)	290 (432)
E2BEA-161B25CB00	25	16	0.020 (0.51)	0.060 (1.52)	0.765 (19.44)	371 (551)
E2BEA-161B30CB00	30	16	0.020 (0.51)	0.080 (2.03)	0.792 (20.11)	430 (641)
E2BEA-161B37CB00	37	16	0.020 (0.51)	0.080 (2.03)	0.895 (22.74)	554 (824)
E2BEA-141B02CB00	2	14	0.020 (0.51)	0.045 (1.14)	0.320 (8.13)	64 (95)
E2BEA-141B03CB00	3	14	0.020 (0.51)	0.045 (1.14)	0.345 (8.76)	80 (119)
E2BEA-141B04CB00	4	14	0.020 (0.51)	0.045 (1.14)	0.365 (9.27)	100 (149)
E2BEA-141B05CB00	5	14	0.020 (0.51)	0.045 (1.14)	0.410 (10.41)	118 (176)
E2BEA-141B07CB00	7	14	0.020 (0.51)	0.045 (1.14)	0.445 (11.30)	153 (228)
E2BEA-141B09CB00	9	14	0.020 (0.51)	0.060 (1.52)	0.570 (14.48)	213 (317)
E2BEA-141B12CB00	12	14	0.020 (0.51)	0.060 (1.52)	0.595 (15.11)	267 (397)
E2BEA-141B19CB00	19	14	0.020 (0.51)	0.060 (1.52)	0.695 (17.65)	396 (589)
E2BEA-141B25CB00	25	14	0.020 (0.51)	0.080 (2.03)	0.902 (22.91)	507 (755)
E2BEA-141B30CB00	30	14	0.020 (0.51)	0.080 (2.03)	0.932 (23.67)	639 (954)
E2BEA-141B37CB00	37	14	0.020 (0.51)	0.080 (2.03)	0.970 (24.64)	766 (1,140)
E2BEA-121B02CB00	2	12	0.020 (0.51)	0.045 (1.14)	0.355 (9.02)	85 (127)
E2BEA-121B03CB00	3	12	0.020 (0.51)	0.045 (1.14)	0.385 (9.78)	131 (195)
E2BEA-121B04CB00	4	12	0.020 (0.51)	0.045 (1.14)	0.420 (10.67)	138 (205)
E2BEA-121B05CB00	5	12	0.020 (0.51)	0.045 (1.14)	0.445 (11.30)	165 (246)
E2BEA-121B07CB00	7	12	0.020 (0.51)	0.045 (1.14)	0.490 (12.45)	217 (323)
E2BEA-121B09CB00	9	12	0.020 (0.51)	0.060 (1.52)	0.605 (15.37)	297 (442)
E2BEA-121B12CB00	12	12	0.020 (0.51)	0.060 (1.52)	0.675 (17.15)	377 (561)
E2BEA-121B19CB00	19	12	0.020 (0.51)	0.060 (1.52)	0.785 (19.94)	568 (845)
E2BEA-121B25CB00	25	12	0.020 (0.51)	0.080 (2.03)	0.940 (23.88)	775 (1,153)
E2BEA-121B30CB00	30	12	0.020 (0.51)	0.080 (2.03)	1.030 (26.16)	919 (1,368)
E2BEA-121B37CB00	37	12	0.020 (0.51)	0.080 (2.03)	1.105 (28.07)	110 (1,637)
E2BEA-101B02CB00	2	10	0.020 (0.51)	0.045 (1.14)	0.420 (10.67)	115 (171)
E2BEA-101B03CB00	3	10	0.020 (0.51)	0.045 (1.14)	0.450 (11.43)	159 (237)
E2BEA-101B04CB00	4	10	0.020 (0.51)	0.045 (1.14)	0.505 (12.83)	209 (311)
E2BEA-101B05CB00	5	10	0.020 (0.51)	0.045 (1.14)	0.570 (14.48)	268 (399)
E2BEA-101B07CB00	7	10	0.020 (0.51)	0.045 (1.14)	0.620 (15.75)	350 (521)
E2BEA-101B09CB00	9	10	0.020 (0.51)	0.060 (1.52)	0.725 (18.42)	440 (655)
E2BEA-101B12CB00	12	10	0.020 (0.51)	0.060 (1.52)	0.815 (20.70)	584 (869)

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

Overall Shielded Series E2BEB

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor 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)
E2BEB-181B02CB00	2	18	0.020 (0.51)	0.045 (1.14)	0.285 (7.24)	42 (63)
E2BEB-181B03CB00	3	18	0.020 (0.51)	0.045 (1.14)	0.299 (7.60)	51 (76)
E2BEB-181B04CB00	4	18	0.020 (0.51)	0.045 (1.14)	0.322 (8.19)	58 (86)
E2BEB-181B12CB00	12	18	0.020 (0.51)	0.060 (1.52)	0.478 (12.15)	139 (207)
E2BEB-181B19CB00	19	18	0.020 (0.51)	0.060 (1.52)	0.588 (14.94)	220 (327)
E2BEB-161B02CB00	2	16	0.020 (0.51)	0.045 (1.14)	0.309 (7.85)	51 (77)
E2BEB-161B03CB00	3	16	0.020 (0.51)	0.045 (1.14)	0.325 (8.25)	64 (95)
E2BEB-161B04CB00	4	16	0.020 (0.51)	0.045 (1.14)	0.351 (8.92)	78 (116)
E2BEB-161B05CB00	5	16	0.020 (0.51)	0.045 (1.14)	0.380 (9.66)	92 (137)
E2BEB-161B25CB00	25	16	0.020 (0.51)	0.060 (1.52)	0.765 (19.43)	374 (556)
E2BEB-161B37CB00	37	16	0.020 (0.51)	0.080 (2.03)	0.895 (22.73)	557 (829)
E2BEB-141B02CB00	2	14	0.020 (0.51)	0.045 (1.14)	0.330 (8.38)	67 (100)
E2BEB-141B03CB00	3	14	0.020 (0.51)	0.045 (1.14)	0.350 (8.89)	84 (125)
E2BEB-141B04CB00	4	14	0.020 (0.51)	0.045 (1.14)	0.380 (9.65)	104 (155)
E2BEB-141B05CB00	5	14	0.020 (0.51)	0.045 (1.14)	0.400 (10.16)	123 (183)
E2BEB-141B07CB00	7	14	0.020 (0.51)	0.045 (1.14)	0.440 (11.18)	161 (240)
E2BEB-121B02CB00	2	12	0.020 (0.51)	0.045 (1.14)	0.370 (9.40)	83 (124)
E2BEB-121B03CB00	3	12	0.020 (0.51)	0.045 (1.14)	0.390 (9.91)	111 (165)
E2BEB-121B04CB00	4	12	0.020 (0.51)	0.045 (1.14)	0.420 (10.67)	139 (207)
E2BEB-101B02CB00	2	10	0.020 (0.51)	0.045 (1.14)	0.430 (10.92)	119 (177)
E2BEB-101B03CB00	3	10	0.020 (0.51)	0.045 (1.14)	0.460 (11.68)	162 (241)
E2BEB-101B04CB00	4	10	0.020 (0.51)	0.045 (1.14)	0.500 (12.70)	205 (305)

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