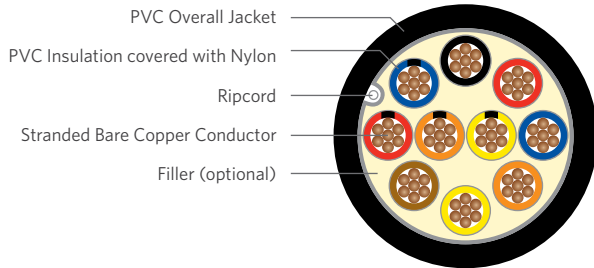


# PVC/Nylon/PVC, 600V Control, Type TC-ER

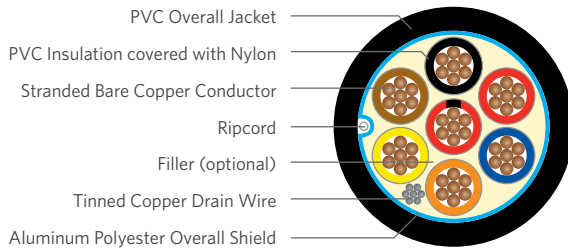
Series E2BE



Series E2BEA



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 direct burial, 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
- Ripcord (for jackets under 60-mils)
- Excellent sunlight resistance
- Cold impact resistant
- Smallest OD available for suitable applications
- Meets cold bend test at -25°C

## SPECIFICATIONS

<b>Conductor Count</b>	Available in 2 through 37 conductors
<b>Conductor</b>	Fully annealed bare copper Class B compressed strand
<b>Gauge Sizes</b>	Available in 18 through 10 AWG
<b>Insulation</b>	Polyvinyl Chloride (PVC) covered with Nylon (THHN/THWN)
<b>Color Coding</b>	Per ICEA S-58-679 Method 1, Table E-2; additional color coding options available
<b>Fillers</b>	Non-hygroscopic fillers, as necessary to obtain a circular cross section
<b>Ground Conductor (optional)</b>	Insulated or uninsulated ground copper conductor
<b>Shield (optional)</b>	Overall aluminum polyester foil in contact with 20 AWG stranded tinned copper drain wire
<b>Jacket</b>	Polyvinyl Chloride (PVC)
<b>Jacket Marking</b>	<p><b>Type TC (2 conductors):</b> 00000 FT SUPERIOR ESSEX XXAWG 2/C PVC/Nylon (or THHN/THWN) PVC JKT 600V 75°C WET OR 90°C DRY TYPE TC (UL) SUN RES DIR BUR Made in the USA MMDDYYYY</p> <p><b>Type TC-ER, conductor sizes 18 AWG - 16 AWG:</b> 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 MADE IN USA MMDDYYYY</p> <p><b>Type TC-ER, conductor sizes 14 AWG - 10 AWG:</b> 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 MADE IN USA MMDDYYYY</p>
<b>Packaging</b>	Non-returnable wood reels in a variety of lengths and dimensions
<b>Performance Compliance</b>	ASTM B8 ASTM B33 UL 66 UL 83 UL 1277 ICEA S-95-658 ICEA S-73-532 NEC
<b>Other Compliances</b>	EPA 40 CFR, Part 261 OSHA RoHS-compliant

## PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Shielding Options	Jacket
Cu	B	600V	PVC Nylon	NONE or OS Alum Mylar or OS Copper Tape	PVC

# Unshielded Series E2BEA

## PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Count	Conductor Size AWG	Insulation Thickness in (mm)	Jacket Thickness in (mm)	Overall Diameter in (mm)	Net Weight lbs/kft (kg/km)
E2BEA-181B02CB00	2	18	0.020 (0.51)	0.045 (1.14)	0.284 (7.22)	38 (57)
E2BEA-181B03CA00	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)

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

## Overall Shielded Series E2BEB

## PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Count	Conductor Size AWG	Insulation Thickness in (mm)	Jacket Thickness in (mm)	Overall Diameter in (mm)	Net Weight 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)

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