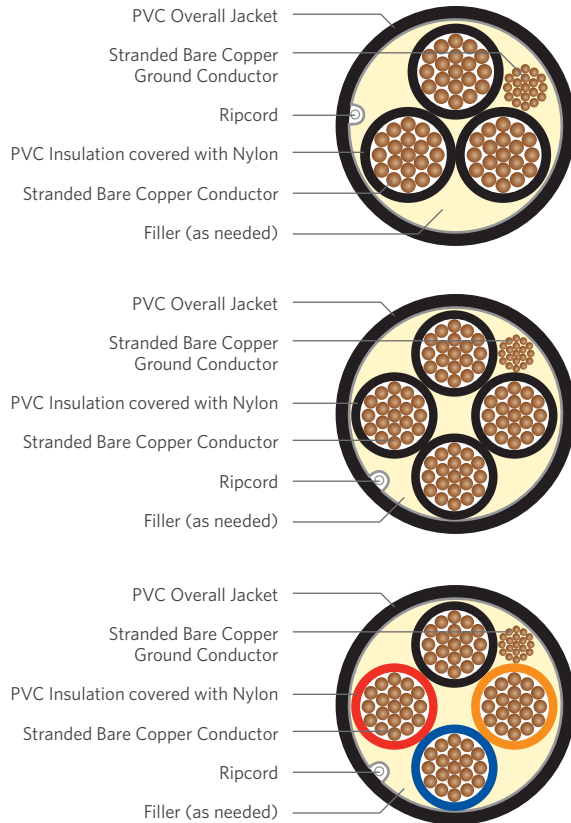


PVC/Nylon/PVC, 600V Power, Type TC-ER - Silicone Free

Series E3BE



Series E3BEA



PRODUCT DESCRIPTION

The PVC/Nylon/PVC (THHN/THWN-2), 600V Power, Type TC-ER Cable consist of fully annealed bare copper Class B stranded conductors, covered with Polyvinyl Chloride (PVC) and Nylon insulation, unshielded and black PVC jacket. These cables are used in industrial power.

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) use in accordance with NEC for 3 or more conductors

FEATURES

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

MARKETS



SPECIFICATIONS

Conductor Count	Available in 3 or 4 conductors
Conductor	Fully annealed bare copper Class B compressed strand per ASTM B8
Gauge Sizes	Available in 12 AWG through 750 kcmil
Insulation	Polyvinyl Chloride (PVC) covered with Nylon <ul style="list-style-type: none"> • All gauges are type THHN/THWN-2
Color Coding	Per ICEA S-58-679 Method 4 or Method 1, Table E-1 (K-1) or E-2 (K-2); additional color coding options available
Fillers	Non-hygroscopic fillers, as necessary to obtain a circular cross section
Ground Conductor	Uninsulated bare copper ground
Jacket	Polyvinyl Chloride (PVC)
Jacket Marking	00000 FT LS CABLE XXAWG XX/C THHN/THWN-2 PVC JKT 600V 90C WET OR DRY TYPE TC-ER (UL) SUN RES DIR BURIAL FT4/IEEE1202 MADE IN USA MMDDYYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliance	ASTM B8 ASTM B33 UL® 83 UL 1277 UL 1685 (flame exposure test) ICEA S-95-658 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	Jacket
Cu	B	600V	PVC Nylon	NONE	PVC

Unshielded Series E3BEA

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Count	Conductor Size AWG/kcmil	Ground 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)
E3BEA-121B03CE00	3	12	12	0.020 (0.51)	0.045 (1.14)	0.40 (10.10)	131 (195)
E3BEA-121B04CE00	4	12	12	0.020 (0.51)	0.045 (1.14)	0.44 (11.00)	159 (237)
E3BEA-101B03CE00	3	10	10	0.020 (0.51)	0.045 (1.14)	0.48 (12.10)	195 (290)
E3BEA-101B04CE00	4	10	10	0.020 (0.51)	0.045 (1.14)	0.52 (13.20)	238 (354)
E3BEA-081M03CE00	3	8	10	0.036 (0.91)	0.060 (1.52)	0.62 (15.83)	305 (454)
E3BEA-081M04CE00	4	8	10	0.036 (0.91)	0.060 (1.52)	0.69 (17.42)	381 (567)
E3BEA-061B03CE00	3	6	8	0.036 (0.91)	0.060 (1.52)	0.71 (17.87)	436 (649)
E3BEA-061B04CE00	4	6	8	0.036 (0.91)	0.060 (1.52)	0.77 (19.63)	550 (818)
E3BEA-041B03CE00	3	4	8	0.048 (1.22)	0.080 (2.03)	0.90 (22.86)	678 (1,009)
E3BEA-041B04CE00	4	4	8	0.048 (1.22)	0.080 (2.03)	0.99 (25.08)	853 (1,269)
E3BEA-021B03CE00	3	2	6	0.048 (1.22)	0.080 (2.03)	1.03 (26.02)	987 (1,469)
E3BEA-021B04CE00	4	2	6	0.048 (1.22)	0.080 (2.03)	1.13 (28.63)	1,248 (1,857)
E3BEA-011B03CE00	3	1	6	0.048 (1.22)	0.080 (2.03)	1.16 (29.45)	1,229 (1,829)
E3BEA-011B04CE00	4	1	6	0.048 (1.22)	0.080 (2.03)	1.28 (32.49)	1,561 (2,323)
E3BEA-1A1B03CE00	3	1/0	6	0.059 (1.50)	0.080 (2.03)	1.25 (31.63)	1,507 (2,243)
E3BEA-1A1B04CE00	4	1/0	6	0.059 (1.50)	0.080 (2.03)	1.38 (34.93)	1,871 (2,784)
E3BEA-2A1B03CE00	3	2/0	6	0.059 (1.50)	0.080 (2.03)	1.34 (33.97)	1,796 (2,673)
E3BEA-2A1B04CE00	4	2/0	6	0.059 (1.50)	0.080 (2.03)	1.48 (37.56)	2,256 (3,357)
E3BEA-3A1B03CE00	3	3/0	4	0.059 (1.50)	0.080 (2.03)	1.45 (36.75)	2,200 (3,274)
E3BEA-3A1B04CE00	4	3/0	4	0.059 (1.50)	0.080 (2.03)	1.61 (40.68)	2,786 (4,146)
E3BEA-4A1B03CE00	3	4/0	4	0.059 (1.50)	0.080 (2.03)	1.57 (39.80)	2,649 (3,942)
E3BEA-4A1B04CE00	4	4/0	4	0.059 (1.50)	0.110 (2.79)	1.81 (45.88)	3,521 (5,240)
E3BEA-A11B03CE00	3	250	4	0.070 (1.78)	0.110 (2.79)	1.79 (45.47)	3,196 (4,762)
E3BEA-A11B04CE00	4	250	4	0.070 (1.78)	0.110 (2.79)	1.98 (50.27)	4,122 (6,142)
E3BEA-A31B03CE00	3	350	3	0.070 (1.78)	0.110 (2.79)	2.01 (51.10)	4,289 (6,391)
E3BEA-A31B04CE00	4	350	3	0.070 (1.78)	0.110 (2.79)	2.23 (56.59)	5,591 (8,331)
E3BEA-A61B03CE00	3	500	2	0.070 (1.78)	0.110 (2.79)	2.29 (58.09)	5,848 (8,714)
E3BEA-A61B04CE00	4	500	2	0.070 (1.78)	0.110 (2.79)	2.54 (64.44)	7,628 (11,366)
E3BEA-B21B03CE00	3	750	1	0.070 (1.78)	0.110 (2.79)	2.72 (69.19)	8,587 (12,795)
E3BEA-B21B04CE00	4	750	1	0.070 (1.78)	0.110 (2.79)	3.09 (78.56)	11,349 (16,910)

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