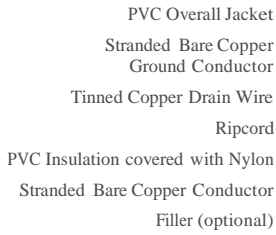
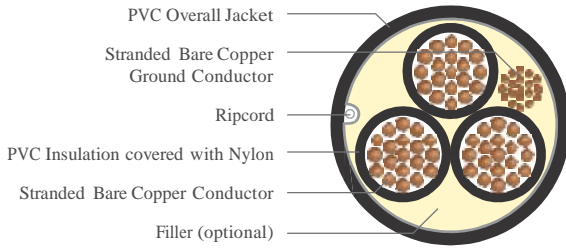


PVC/Nylon/PVC, 600V Power, Type TC-ER

Series E3BE



Series E3BEA



Series E3BEx

Product Description

The Grupo Matel PVC/Nylon/PVC, 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 or shielded 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 direct burial, Class 1 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 dry or 75°C wet
- Ripcord (for jackets under 60mils)
- Excellent sunlight resistance
- Smallest O.D. available for suitable applications
- Meets cold bend test at -25°C

Specifications

Conductor Count	Available in 3 or 4 conductors
Conductor	Fully annealed bare copper Class B
AWG	Available in 12AWG through 750 kcmil
Insulation	Polyvinyl Chloride (PVC) covered with Nylon
Color Coding	Per ICEA S-58-679 Method 4; additional color coding options available
Fillers	Non-hygroscopic fillers, as necessary to obtain a circular cross section
Ground Conductor	Uninsulated bare copper ground
Shield (optional)	Overall aluminum polyester foil in contact with 20 AWG stranded tinned copper drain wire
Jacket	Polyvinyl Chloride (PVC)
Jacket Marking	00000 FT SUPERIOR ESSEX XXAWG XX/C THHN/THWN PVC JKT 600V 90C DRY OR 75C WET TYPE TC-ER (UL) SUN RES DIR BURIAL 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 1581 ICEA S-95-658 NEC
Other Compliances	EPA 40 CFR, Part 261 OSHA RoHS-Compliance

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 E3BEA

Part Numbers and Physical Characteristics

Part Number	Conductor Count	Conductor Size AWG/kcmil	Ground Size AWG	Insulation Thickness in (mm)	Jacket Thickness in (mm)	Overall Diameter in (mm)	Net Weight lbs/kft (kg/km)
1E3BEA-121B03CE00	3	12	12	0.020 (0.51)	0.045 (1.14)	0.40 (10.10)	131 (195)
1E3BEA-121B04CE00	4	12	12	0.020 (0.51)	0.045 (1.14)	0.44 (11.00)	159 (237)
1E3BEA-101B03CE00	3	10	10	0.020 (0.51)	0.045 (1.14)	0.48 (12.10)	195 (290)
1E3BEA-101B04CE00	4	10	10	0.020 (0.51)	0.045 (1.14)	0.52 (13.20)	238 (354)
1E3BEA-081B03CE00	3	8	10	0.036 (0.91)	0.060 (1.52)	0.62 (15.83)	305 (454)
1E3BEA-081B04CE00	4	8	10	0.036 (0.91)	0.060 (1.52)	0.69 (17.42)	381 (567)
1E3BEA-061B03CE00	3	6	8	0.036 (0.91)	0.060 (1.52)	0.71 (17.87)	436 (649)
1E3BEA-061B04CE00	4	6	8	0.036 (0.91)	0.060 (1.52)	0.77 (19.63)	550 (818)
1E3BEA-041B03CE00	3	4	8	0.048 (1.22)	0.080 (2.03)	0.90 (22.86)	678 (1,009)
1E3BEA-041B04CE00	4	4	8	0.048 (1.22)	0.080 (2.03)	0.99 (25.08)	853 (1,269)
1E3BEA-021B03CE00	3	2	6	0.048 (1.22)	0.080 (2.03)	1.03 (26.02)	987 (1,469)
1E3BEA-021B04CE00	4	2	6	0.048 (1.22)	0.080 (2.03)	1.13 (28.63)	1,248 (1,857)
1E3BEA-011B03CE00	3	1	6	0.048 (1.22)	0.080 (2.03)	1.16 (29.45)	1,229 (1,829)
1E3BEA-011B04CE00	4	1	6	0.048 (1.22)	0.080 (2.03)	1.28 (32.49)	1,561 (2,323)
1E3BEA-1A1B03CE00	3	1/0	6	0.059 (1.50)	0.080 (2.03)	1.25 (31.63)	1,507 (2,243)
1E3BEA-1A1B04CE00	4	1/0	6	0.059 (1.50)	0.080 (2.03)	1.38 (34.93)	1,871 (2,784)
1E3BEA-2A1B03CE00	3	2/0	6	0.059 (1.50)	0.080 (2.03)	1.34 (33.97)	1,796 (2,673)
1E3BEA-2A1B04CE00	4	2/0	6	0.059 (1.50)	0.080 (2.03)	1.48 (37.56)	2,256 (3,357)
1E3BEA-3A1B03CE00	3	3/0	6	0.059 (1.50)	0.080 (2.03)	1.45 (36.75)	2,200 (3,274)
1E3BEA-3A1B04CE00	4	3/0	6	0.059 (1.50)	0.080 (2.03)	1.61 (40.68)	2,786 (4,146)
1E3BEA-4A1B03CE00	3	4/0	4	0.059 (1.50)	0.080 (2.03)	1.57 (39.80)	2,649 (3,942)
1E3BEA-4A1B04CE00	4	4/0	4	0.059 (1.50)	0.110 (2.79)	1.81 (45.88)	3,521 (5,240)
1E3BEA-A11B03CE00	3	250	4	0.070 (1.78)	0.110 (2.79)	1.79 (45.47)	3,196 (4,762)
1E3BEA-A11B04CE00	4	250	4	0.070 (1.78)	0.110 (2.79)	1.98 (50.27)	4,122 (6,142)
1E3BEA-A31B03CE00	3	350	3	0.070 (1.78)	0.110 (2.79)	2.01 (51.10)	4,289 (6,391)
1E3BEA-A31B04CE00	4	350	3	0.070 (1.78)	0.110 (2.79)	2.23 (56.59)	5,591 (8,331)
1E3BEA-A61B03CE00	3	500	2	0.070 (1.78)	0.110 (2.79)	2.29 (58.09)	5,848 (8,714)
1E3BEA-A61B04CE00	4	500	2	0.070 (1.78)	0.110 (2.79)	2.54 (64.44)	7,628 (11,366)
1E3BEAB21B03CE00	3	750	1	0.070 (1.78)	0.110 (2.79)	2.72 (69.19)	8,587 (12,795)
1E3BEAB21B04CE00	4	750	1	0.070 (1.78)	0.110 (2.79)	3.09 (78.56)	11,349 (16,910)

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