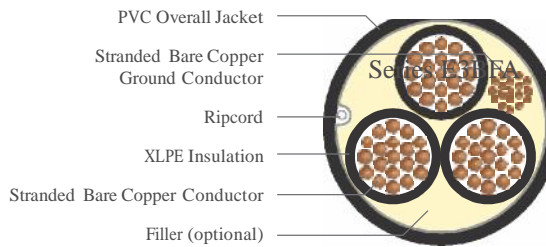


# XLPE/PVC, 600V Power, Type TC-ER

Series E3BF



- PVC Overall Jacket
- Stranded Bare Copper Ground Conductor
- Tinned Copper Drain Wire
- Ripcord
- XLPE Insulation
- Stranded Bare Copper Conductor
- Filler (optional)

Series E3BFx

## Product Description

The Grupo Matel XLPE/PVC, 600V Power, Type TC-ER Cable consist of fully annealed bare copper Class B stranded conductors, covered with Cross-linked Polyethylene (XLPE) 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 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 dry or 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 12 AWG through 750 kcmil
Insulation	Cross-linked Polyethylene (XLPE)
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 XHHW-2 PVC JKT 600V 90C DRY OR 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 44 UL 1277 UL 1581 ICEA S-95-658/NEMA WC70 NEC
Other Compliances	EPA 40 CFR, Part 261 OSHA RoHS-Compliance

## Product Key

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

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)
1E3BFA-121B03CE00	3	12	12	0.030 (0.76)	0.045 (1.14)	0.44 (11.2)	139 (207)
1E3BFA-121B04CE00	4	12	12	0.030 (0.76)	0.045 (1.14)	0.48 (12.2)	168 (250)
1E3BFA-101B03CE00	3	10	10	0.030 (0.76)	0.060 (1.52)	0.49 (12.4)	195 (291)
1E3BFA-101B04CE00	4	10	10	0.030 (0.76)	0.060 (1.52)	0.57 (14.5)	256 (381)
1E3BFA-081B03CE00	3	8	10	0.045 (1.14)	0.060 (1.52)	0.66 (16.8)	301 (448)
1E3BFA-081B04CE00	4	8	10	0.045 (1.14)	0.060 (1.52)	0.72 (18.3)	383 (571)
1E3BFA-061B03CE00	3	6	8	0.045 (1.14)	0.060 (1.52)	0.74 (18.8)	409 (609)
1E3BFA-061B04CE00	4	6	8	0.045 (1.14)	0.060 (1.52)	0.81 (20.6)	546 (814)
1E3BFA-041B03CE00	3	4	8	0.045 (1.14)	0.080 (2.03)	0.88 (22.4)	641 (955)
1E3BFA-041B04CE00	4	4	8	0.045 (1.14)	0.080 (2.03)	0.97 (24.6)	807 (1,202)
1E3BFA-021B03CE00	3	2	6	0.045 (1.14)	0.080 (2.03)	1.01 (25.7)	964 (1,436)
1E3BFA-021B04CE00	4	2	6	0.045 (1.14)	0.080 (2.03)	1.11 (28.2)	1,205 (1,795)
1E3BFA-011B03CE00	3	1	6	0.055 (1.40)	0.080 (2.03)	1.14 (29.0)	1,172 (1,746)
1E3BFA-011B04CE00	4	1	6	0.055 (1.40)	0.080 (2.03)	1.25 (31.8)	1,502 (2,238)
1E3BFA-1A1B03CE00	3	1/0	6	0.055 (1.40)	0.080 (2.03)	1.22 (31.0)	1,401 (2,087)
1E3BFA-1A1B04CE00	4	1/0	6	0.055 (1.40)	0.080 (2.03)	1.35 (34.3)	1,813 (2,701)
1E3BFA-2A1B03CE00	3	2/0	6	0.055 (1.40)	0.080 (2.03)	1.32 (33.5)	1,656 (2,467)
1E3BFA-2A1B04CE00	4	2/0	6	0.055 (1.40)	0.080 (2.03)	1.45 (36.8)	2,174 (3,239)
1E3BFA-3A1B03CE00	3	3/0	6	0.055 (1.40)	0.080 (2.03)	1.42 (36.1)	2,139 (3,187)
1E3BFA-3A1B04CE00	4	3/0	6	0.055 (1.40)	0.080 (2.03)	1.58 (40.1)	2,734 (4,074)
1E3BFA-4A1B03CE00	3	4/0	4	0.055 (1.40)	0.080 (2.03)	1.54 (39.1)	2,529 (3,768)
1E3BFA-4A1B04CE00	4	4/0	4	0.055 (1.40)	0.110 (2.79)	1.78 (45.2)	3,360 (5,006)
1E3BFA-A11B03CE00	3	250	4	0.065 (1.65)	0.110 (2.79)	1.77 (44.9)	3,113 (4,638)
1E3BFA-A11B04CE00	4	250	4	0.065 (1.65)	0.110 (2.79)	1.96 (49.7)	4,013 (5,979)
1E3BFA-A31B03CE00	3	350	3	0.065 (1.65)	0.110 (2.79)	1.99 (50.5)	4,194 (6,249)
1E3BFA-A31B04CE00	4	350	3	0.065 (1.65)	0.110 (2.79)	2.20 (56.0)	5,413 (8,065)
1E3BFA-A61B03CE00	3	500	2	0.065 (1.65)	0.110 (2.79)	2.27 (57.6)	5,737 (8,548)
1E3BFA-A61B04CE00	4	500	2	0.065 (1.65)	0.110 (2.79)	2.51 (63.8)	7,482 (11,148)
1E3BFA-B21B03CE00	3	750	1	0.080 (2.03)	0.140 (3.56)	2.72 (69.2)	8,465 (12,613)
1E3BFA-B21B04CE00	4	750	1	0.080 (2.03)	0.140 (3.56)	3.09 (78.6)	11,187 (16,668)

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