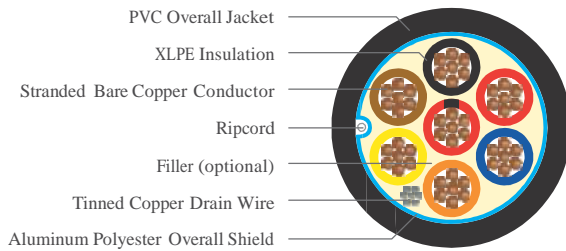
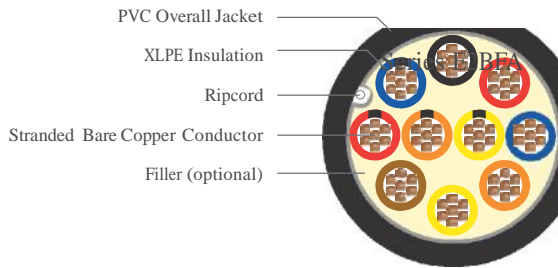


# XLPE/PVC, 600V Control, Type TC-ER

Series E2BF



Series E2BFB

## Product Description

The Grupo Matel XLPE/PVC, 600V Control, Type TC-ER Cables consist of fully annealed bare copper Class B stranded conductors, covered with Cross-linked Polyethylene (XLPE), 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) use in accordance with NEC for 3 or more conductors

## Features

- Rated at 90°C wet or 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

|                             |   |
|-----------------------------|---|
| Conductor Count             | Available in 2 through 37 conductors  |
| Conductor                   | Fully annealed bare copper Class B  |
| AWG                         | Available in 18 through 10 AWG  |
| Insulation                  | Cross-linked Polyethylene (XHHW-2)  |
| 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 round finish conductor  |
| Ground Conductor (optional) | Insulated or uninsulated ground copper conductor  |
| Shield (optional)           | Overall aluminum polyester foil in contact with 20 AWG stranded tinned copper drain wire  |
| Jacket                      | Polyvinyl Chloride (PVC)  |
| Jacket Marking              | <p>Conductor sizes 18 AWG – 16 AWG:<br/>00000 FT SUPERIOR ESSEX XXAWG XX/C XLPE PVC JKT 600V 90C WET OR DRY TYPE TC-ER (UL) SUN RES DIR BUR MADE IN USA MMDDYYYY</p> <p>Conductor sizes 14 AWG – 10 AWG:<br/>00000 FT SUPERIOR ESSEX XXAWG XX/C XHHW-2 PVC JKT 600V 90C WET OR DRY TYPE TC-ER (UL) SUN RES DIR BUR MADE IN USA MMDDYYYY</p> |
| Packaging                   | Non-returnable wood reels in a variety of lengths and dimensions  |
| Performance Compliance      | <p>ASTM B8<br/>ASTM B33<br/>UL 44<br/>UL 1277<br/>UL 1581<br/>ICEA S-73-532/NEMA WC57<br/>ICEA S-95-658/NEMA WC70<br/>NEC</p>   |
| Other Compliances           | <p>EPA 40 CFR, Part 261<br/>OSHA<br/>RoHS-compliant</p>   |

## Product Key

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

# Unshielded Series E2BFA

## 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) |
|--------------------|-----------------|--------------------|------------------------------|--------------------------|--------------------------|----------------------------|
| 1E2BFA-141B02CB001 | 2               | 14                 | 0.030 (0.76)                 | 0.045 (1.14)             | 0.365 (9.27)             | 67 (100)                   |
| 1E2BFA-141B03CB001 | 3               | 14                 | 0.030 (0.76)                 | 0.045 (1.14)             | 0.390 (9.91)             | 87 (130)                   |
| 1E2BFA-141B04CB001 | 4               | 14                 | 0.030 (0.76)                 | 0.045 (1.14)             | 0.425 (10.80)            | 107 (160)                  |
| 1E2BFA-141B05CB001 | 5               | 14                 | 0.030 (0.76)                 | 0.045 (1.14)             | 0.465 (11.81)            | 129 (193)                  |
| 1E2BFA-141B07CB001 | 7               | 14                 | 0.030 (0.76)                 | 0.045 (1.14)             | 0.590 (14.99)            | 168 (251)                  |
| 1E2BFA-141B09CB001 | 9               | 14                 | 0.030 (0.76)                 | 0.060 (1.52)             | 0.620 (15.75)            | 230 (343)                  |
| 1E2BFA-141B12CB001 | 12              | 14                 | 0.030 (0.76)                 | 0.060 (1.52)             | 0.680 (17.27)            | 287 (428)                  |
| 1E2BFA-141B19CB001 | 19              | 14                 | 0.030 (0.76)                 | 0.060 (1.52)             | 0.800 (20.32)            | 416 (621)                  |
| 1E2BFA-141B25CB001 | 25              | 14                 | 0.030 (0.76)                 | 0.060 (1.52)             | 0.985 (25.02)            | 575 (858)                  |
| 1E2BFA-141B30CB001 | 30              | 14                 | 0.030 (0.76)                 | 0.080 (2.03)             | 1.050 (26.67)            | 663 (990)                  |
| 1E2BFA-141B37CB001 | 37              | 14                 | 0.030 (0.76)                 | 0.080 (2.03)             | 1.130 (28.70)            | 791 (1181)                 |
| 1E2BFA-121B02CB001 | 2               | 12                 | 0.030 (0.76)                 | 0.045 (1.14)             | 0.410 (10.14)            | 96 (143)                   |
| 1E2BFA-121B03CB001 | 3               | 12                 | 0.030 (0.76)                 | 0.045 (1.14)             | 0.435 (11.05)            | 125 (186)                  |
| 1E2BFA-121B04CB001 | 4               | 12                 | 0.030 (0.76)                 | 0.045 (1.14)             | 0.475 (12.07)            | 157 (234)                  |
| 1E2BFA-121B05CB001 | 5               | 12                 | 0.030 (0.76)                 | 0.045 (1.14)             | 0.515 (13.08)            | 191 (284)                  |
| 1E2BFA-121B07CB001 | 7               | 12                 | 0.030 (0.76)                 | 0.060 (1.52)             | 0.595 (15.11)            | 260 (387)                  |
| 1E2BFA-121B09CB001 | 9               | 12                 | 0.030 (0.76)                 | 0.060 (1.52)             | 0.695 (17.65)            | 340 (506)                  |
| 1E2BFA-121B12CB001 | 12              | 12                 | 0.030 (0.76)                 | 0.060 (1.52)             | 0.780 (19.81)            | 429 (638)                  |
| 1E2BFA-121B19CB001 | 19              | 12                 | 0.030 (0.76)                 | 0.080 (2.03)             | 0.930 (23.62)            | 681 (1013)                 |
| 1E2BFA-121B25CB001 | 25              | 12                 | 0.030 (0.76)                 | 0.080 (2.03)             | 1.095 (27.81)            | 885 (1317)                 |
| 1E2BFA-121B30CB001 | 30              | 12                 | 0.030 (0.76)                 | 0.080 (2.03)             | 1.150 (29.21)            | 1005 (1496)                |
| 1E2BFA-121B37CB001 | 37              | 12                 | 0.030 (0.76)                 | 0.080 (2.03)             | 1.240 (31.50)            | 1185 (1764)                |
| 1E2BFA-101B02CB001 | 2               | 10                 | 0.030 (0.76)                 | 0.045 (1.14)             | 0.455 (11.56)            | 130 (193)                  |
| 1E2BFA-101B03CB001 | 3               | 10                 | 0.030 (0.76)                 | 0.045 (1.14)             | 0.485 (12.32)            | 173 (257)                  |
| 1E2BFA-101B04CB001 | 4               | 10                 | 0.030 (0.76)                 | 0.060 (1.52)             | 0.571 (14.50)            | 236 (351)                  |
| 1E2BFA-101B05CB001 | 5               | 10                 | 0.030 (0.76)                 | 0.060 (1.52)             | 0.615 (15.62)            | 287 (427)                  |
| 1E2BFA-101B07CB001 | 7               | 10                 | 0.030 (0.76)                 | 0.060 (1.52)             | 0.670 (17.02)            | 371 (552)                  |
| 1E2BFA-101B09CB001 | 9               | 10                 | 0.030 (0.76)                 | 0.060 (1.52)             | 0.785 (19.94)            | 479 (713)                  |
| 1E2BFA-101B12CB001 | 12              | 10                 | 0.030 (0.76)                 | 0.080 (2.03)             | 0.895 (22.73)            | 644 (958)                  |

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