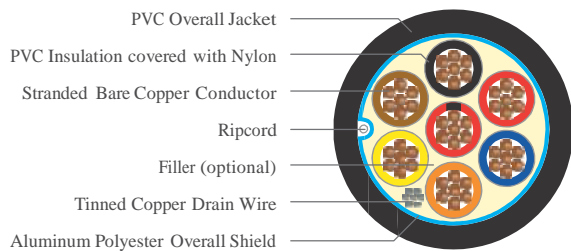
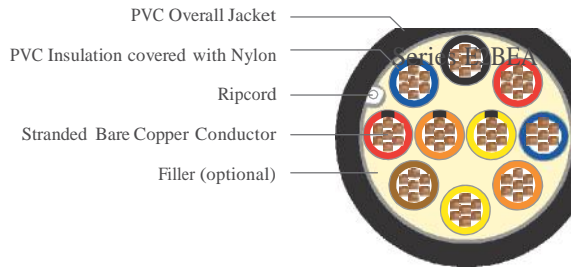


PVC/Nylon/PVC, 600V Control, Type TC-ER

Series E2BE



Series E2BEB

Product Description

The Grupo Matel 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 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, 75°C wet
- 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	Polyvinyl Chloride (PVC) covered with Nylon (THHN/THWN)
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 circular cross section
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	Conductor sizes 18 AWG – 16 AWG: 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 Conductor sizes 14 AWG – 10 AWG: 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
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliance	ASTM B8 ASTM B33 UL 66 UL 83 UL 1277 UL 1581 ICEA S-95-658 NEC
Other Compliances	EPA 40 CFR, Part 261 OSHA RoHS-compliant

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)
1E2BEA-141B02CB00	2	14	0.020 (0.51)	0.045 (1.14)	0.320 (8.13)	64 (95)
1E2BEA-141B03CB00	3	14	0.020 (0.51)	0.045 (1.14)	0.345 (8.76)	80 (119)
1E2BEA-141B04CB00	4	14	0.020 (0.51)	0.045 (1.14)	0.365 (9.27)	100 (149)
1E2BEA-141B05CB001	5	14	0.020 (0.51)	0.045 (1.14)	0.410 (10.41)	118 (176)
1E2BEA-141B07CB001	7	14	0.020 (0.51)	0.045 (1.14)	0.445 (11.30)	153 (228)
1E2BEA-141B09CB001	9	14	0.020 (0.51)	0.060 (1.52)	0.570 (14.48)	213 (317)
1E2BEA-141B12CB001	12	14	0.020 (0.51)	0.060 (1.52)	0.595 (15.11)	267 (397)
1E2BEA-141B19CB001	19	14	0.020 (0.51)	0.060 (1.52)	0.695 (17.65)	396 (589)
1E2BEA-141B25CB001	25	14	0.020 (0.51)	0.080 (2.03)	0.902 (22.91)	507 (755)
1E2BEA-141B30CB001	30	14	0.020 (0.51)	0.080 (2.03)	0.932 (23.67)	639 (954)
1E2BEA-141B37CB001	37	14	0.020 (0.51)	0.080 (2.03)	0.970 (24.64)	766 (1140)
1E2BEA-121B02CB001	2	12	0.020 (0.51)	0.045 (1.14)	0.355 (9.02)	85 (127)
1E2BEA-121B03CB001	3	12	0.020 (0.51)	0.045 (1.14)	0.385 (9.78)	131 (195)
1E2BEA-121B04CB001	4	12	0.020 (0.51)	0.045 (1.14)	0.420 (10.67)	138 (205)
1E2BEA-121B05CB001	5	12	0.020 (0.51)	0.045 (1.14)	0.445 (11.30)	165 (246)
1E2BEA-121B07CB001	7	12	0.020 (0.51)	0.045 (1.14)	0.490 (12.45)	217 (323)
1E2BEA-121B09CB001	9	12	0.020 (0.51)	0.060 (1.52)	0.605 (15.37)	297 (442)
1E2BEA-121B12CB001	12	12	0.020 (0.51)	0.060 (1.52)	0.675 (17.15)	377 (561)
1E2BEA-121B19CB001	19	12	0.020 (0.51)	0.060 (1.52)	0.785 (19.94)	568 (845)
1E2BEA-121B25CB001	25	12	0.020 (0.51)	0.080 (2.03)	0.940 (23.88)	775 (1153)
1E2BEA-121B30CB001	30	12	0.020 (0.51)	0.080 (2.03)	1.030 (26.16)	919 (1368)
1E2BEA-121B37CB001	37	12	0.020 (0.51)	0.080 (2.03)	1.105 (28.07)	110 (1637)
1E2BEA-101B02CB001	2	10	0.020 (0.51)	0.045 (1.14)	0.420 (10.67)	115 (171)
1E2BEA-101B03CB001	3	10	0.020 (0.51)	0.045 (1.14)	0.450 (11.43)	159 (237)
1E2BEA-101B04CB001	4	10	0.020 (0.51)	0.045 (1.14)	0.505 (12.83)	209 (311)
1E2BEA-101B05CB001	5	10	0.020 (0.51)	0.045 (1.14)	0.570 (14.48)	268 (399)
1E2BEA-101B07CB001	7	10	0.020 (0.51)	0.045 (1.14)	0.620 (15.75)	350 (521)
1E2BEA-101B09CB001	9	10	0.020 (0.51)	0.060 (1.52)	0.725 (18.42)	440 (655)
1E2BEA-101B12CB001	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)
1E2BEB-141B02CB00	2	14	0.020 (0.51)	0.045 (1.14)	0.330 (8.38)	67 (100)
1E2BEB-141B03CB00	3	14	0.020 (0.51)	0.045 (1.14)	0.350 (8.89)	84 (125)
1E2BEB-141B04CB00	4	14	0.020 (0.51)	0.045 (1.14)	0.380 (9.65)	104 (155)
1E2BEB-141B05CB00	5	14	0.020 (0.51)	0.045 (1.14)	0.400 (10.16)	123 (183)
1E2BEB-141B07CB00	7	14	0.020 (0.51)	0.045 (1.14)	0.440 (11.18)	161 (240)
1E2BEB-121B02CB00	2	12	0.020 (0.51)	0.045 (1.14)	0.370 (9.40)	83 (124)
1E2BEB-121B03CB00	3	12	0.020 (0.51)	0.045 (1.14)	0.390 (9.91)	111 (165)
1E2BEB-121B04CB00	4	12	0.020 (0.51)	0.045 (1.14)	0.420 (10.67)	139 (207)
1E2BEB-101B02CB00	2	10	0.020 (0.51)	0.045 (1.14)	0.430 (10.92)	119 (177)
1E2BEB-101B03CB00	3	10	0.020 (0.51)	0.045 (1.14)	0.460 (11.68)	162 (241)
1E2BEB-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.