IDC for 50mil (1.27mm) Flat Cable with One-touch Locking Ejector System

50mil(1.27mm)PITCH 2PIECE CONNECTOR

8822E SERIES

- High density 50 mil pitch connector
- Highly reliable straight beam contact
- Low insertion and withdrawal force
- IDC for 50 mil(1.27mm) flat cable(AWG28)
- Easy to operate One-Touch locking ejector system
- 13 sizes from 20 to 100 positions

KEL CORPORATION
KEL CONNECTORS, INC.

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The 8822E Series locking ejector system is a reversal of the MIL-STD design (KEL 6200 Series) and the locking ejectors are integral to the cable connector. The ejectors are automatically locked by insertion in the mating header like the MIL-STD design. The latches remain within the connector outline to reduce the requirements for board space, are unlocked by applying inward pressure and can be operated by only one hand unlike the older design. Also, the 8830E series can be used with the 8800 Series for board to board interconnects because it does not have latches to interface with mating. This design offers advantages for uses in today's high density electronic equipment especially portable computers.

8822E-XXX-171(Receptacle)

Specifications
- Insulator: Glass filled 66 Nylon UL94V-0, Black
- Contact: Copper alloy
- Mating area: Gold over Nickel
- Terminal area: Tin over Nickel
- Current rating: 0.5A/μm²
- Contact resistance: 30mΩ, Max.
- Withstanding voltage: 650V AC, (1 minute)
- Insulation resistance: 1,000MΩ, 500V DC, Min.
- Recommended cable: AWG26/7×0.127Flat ribbon cable.

Order Code

<table>
<thead>
<tr>
<th>88XXE</th>
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- Series
  - 8822E: Receptacle
  - 8830E: Plug
  - (Without hooks): 030, 032
  - 8831E: Plug
  - With hooks: 062, 060

- No. of contacts
  - 020, 026
  - 034, 036
  - 040, 050

- Contact style
  - 171: Receptacle
  - 170: Plug

- Gold plating
  - None
  - D: 0.25μm or more
  - H: 0.70μm or more

- Terminal configuration
  - D: Straight
  - L: Right angle

* Available upon request
### 8822E/8830E Series Pin Assignment

#### Order Code

**8822E-XXX-171X-XXX X-XX**

- **Cable assembly code**: AA, AC, AO, CO
- **Cable type**
  - N: Flat ribbon cable
  - S: Intermittent bonded cable
  - T: Twisted flat cable
- **Cable length**
  - (L, m): 0.7, 1, 2, 3
- **Gold plating**
  - (D): 0.25 x m
  - (H): 0.75 x m
- **Contact**
  - 171
- **No. of contacts**
  - 20, 26, 30, 32, 34, 40, 50, 52, 60, 80, 90, 100

**Series**

- 8822E: One-touch locking ejector system

### 8822E-XXX-171X-XXX X-AO

#### Mark (Polarity)

- Cable mark
  - A: Cable1/No.1
  - B: Cable2/No.1
  - C: Cable3/No.1
  - D: Cable4/No.1

### 8822E-XXX-171X-XXX X-CO

#### Mark (Polarity)

- Cable mark
  - A: Cable1/No.1
  - B: Cable2/No.1
  - C: Cable3/No.1
  - D: Cable4/No.1

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*Connectors are terminated in laminated area of intermittent bonded or twisted flat cable so the cable length must be in 6cm increment.*

### TERMINATION EQUIPMENT

- **Hand Press(HP-11)**
- **Cable Trimmer(CT-12)**
- **Locating Fixture(LF-21)**

Specifications and dimensions are subject to change without notice.