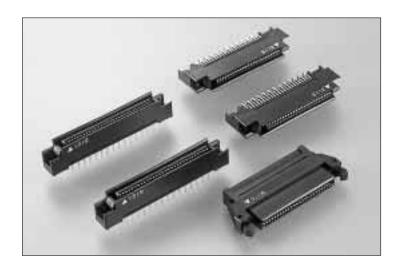
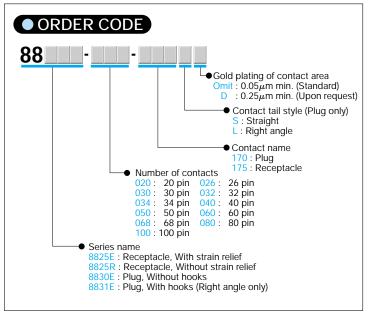


1.27mm PITCH 2 PIECE CONNECTOR / IDC FOR 0.635mm (25mil) FC





FEATURES

- IDC for 0.635mm flat ribbon cable (#30 AWG, Stranded)
- Highly reliable 2 point connection
- Low insertion and withdrawal force
- One-Touch locking ejector system
- Patented ribbon cable contact design protects against conductors being damaged during the assembly process
- Ability to make Daisy chain assemblies
- Specified for use by VITA for use in FPDP (Front Panel Data Port) applications (8825E/8831E Series)

SPECIFICATIONS

Insulator : Glass-filled Nylon 66 (UL 94V-0), Black

Contact : Phosphor Bronze

Plating : Contact area ; Gold over Nickel

(1) Standard : $0.05\mu m$ min. Gold

(2) Upon request : $0.25\mu m$ min. Gold

Tertminal area; $2\mu m$ to $4\mu m$

Tin alloy over Nickel

I.D.C. area ; 1μ m to 3μ m

Tin alloy over Nickel

Current rating : 0.5A per contact

ullet Contact resistance : $30m\Omega$ max.

● Dielectric withstanding voltage : 300V AC for 1 minute

• Insulation resistance : 1,000M Ω min. at 250V DC

Operating temperature : -55°C to +85°C

• Recommended cable :#30 AWG (7/0.102), 0.635mm

pitch, PVC, Flat ribbon cable

Please see the Technical report for details of this product's features and specifications.

Please refer to the Assembly and Application notes for recommended cable and termination equipment.





Easy to use Locking Ejector System

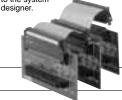
The 8825E Series Locking Ejector System is a reversal of the MIL-STD design (KEL 6200 Series), the locking ejectors are integral to the cable connector. The ejectors are automatically locked by insertion into Plug connector like the MIL-STD design.

The latches remain within the connector outline to reduce the requirements for board space, are unlocked by applying inward pressure and can be operated with 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 interfere with

mating. This design offers advantages for uses in today's high density electronic equipment.

Daisy Chain Assemblies The 8825E Series terminates to

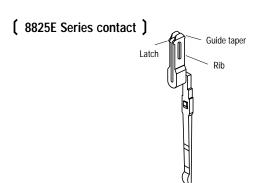
a single 0.635mm (25mil) pitch flat ribbon cable. The ability to daisy chain the connectors increases the options available to the system designer





Product Concept and Features

Cover #2 0.635mm (25mil) pitch flat cable Cover #1 Insulator 8825E Series (Receptacle) 8830E Series (Plug)



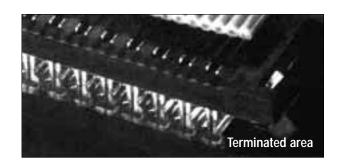
■Highly reliable and original termination form

The terminating process of 8825E series starts with the flat cable of 0.635mm pitch placed between Covers #1 and #2 which aligns and prevents any deviation between the cable and connector.

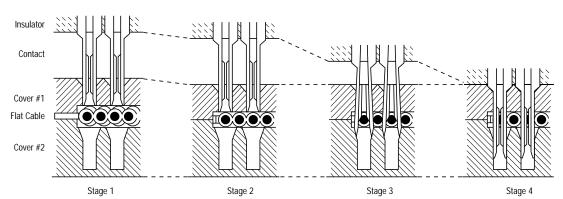
The contacts are held in position by the insulator body. The tips of the contact forks with guide taper and latch are sharp and break through the cable sheath to provide a gas tight termination.

The contact rib which is purposely rounded creates high pressure to insure a reliable termination without damage during the termination process.

The connector can be terminated with a minimum of special tooling in a standard press as well as a press for MIL-STD type connectors.



(Insulation Displacement Process)



The contact is held in position by the insulator body and the contact forks are guided by Cover #1.

As pressure is applied the cable is aligned in the grooves of Cover #1 and #2

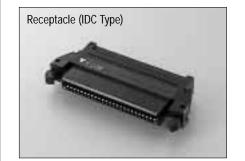
Cover #1 and #2 hold the cable and stabilize the contact/conductor interface.
The contact slides through Cover #1 which supports and aligns the cable through out the termination process.

The contacts terminate the conductor and slide into Cover #2. The contact forks are compressed by Cover #2 and form a gas tight termination.

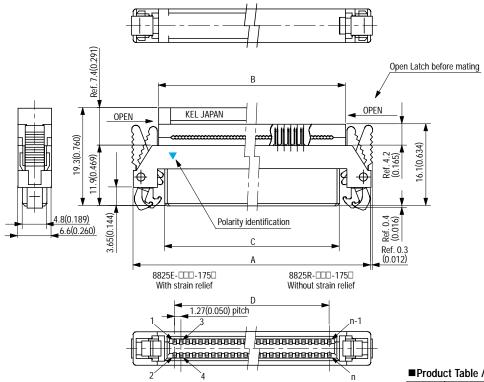
The reliability of the termination process depends on maintaining proper alignment of the cable to the connector, the contact to the conductor, and the stability of contact in the connector. The design of the 8825E satisfies the requirements as explained above.



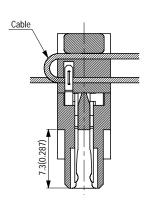
8825E/8825R- Carrow (Receptacle, With locking ejector)



Unit:mm(inch)



"n" is number of contacts

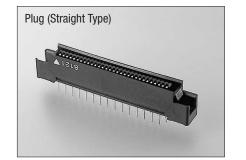


■ Product Table / Dimensions

No.of contacts	Part Number	Α	В	С	D
20	8825E-020-175	27.83	17.83	15.43	11.43
	8825R-020-175	(1.096)	(0.702)	(0.607)	(0.450)
26	8825E-026-175 <u></u>	31.64	21.64	19.24	15.24
	8825R-026-175 <u></u>	(1.246)	(0.852)	(0.757)	(0.600)
30	8825E-030-175	34.18	24.18	21.78	17.78
	8825R-030-175	(1.346)	(0.952)	(0.857)	(0.700)
32	8825E-032-175	35.45	25.45	23.05	19.05
	8825R-032-175	(1.396)	(1.002)	(0.907)	(0.750)
34	8825E-034-175 <u></u>	36.72	26.72	24.32	20.32
	8825R-034-175 <u></u>	(1.446)	(1.052)	(0.957)	(0.800)
40	8825E-040-175	40.53	30.53	28.13	24.13
	8825R-040-175	(1.596)	(1.202)	(1.107)	(0.950)
50	8825E-050-175	46.88	36.88	34.48	30.48
	8825R-050-175	(1.846)	(1.452)	(1.357)	(1.200)
60	8825E-060-175	53.23	43.23	40.83	36.83
	8825R-060-175	(2.096)	(1.702)	(1.607)	(1.450)
68	8825E-068-175	58.31	48.31	45.91	41.91
	8825R-068-175	(2.296)	(1.902)	(1.807)	(1.650)
80	8825E-080-175	65.93	55.93	53.53	49.53
	8825R-080-175	(2.596)	(2.202)	(2.107)	(1.950)
100	8825E-100-175	78.63	68.63	66.23	62.23
	8825R-100-175	(3.096)	(2.702)	(2.607)	(2.450)

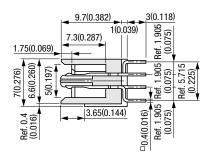


8830E- - 170S (Plug, With locking system)

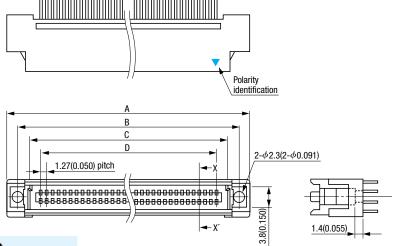


Unit:mm(inch)

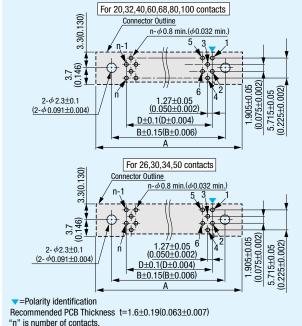
X-X' Cross Section







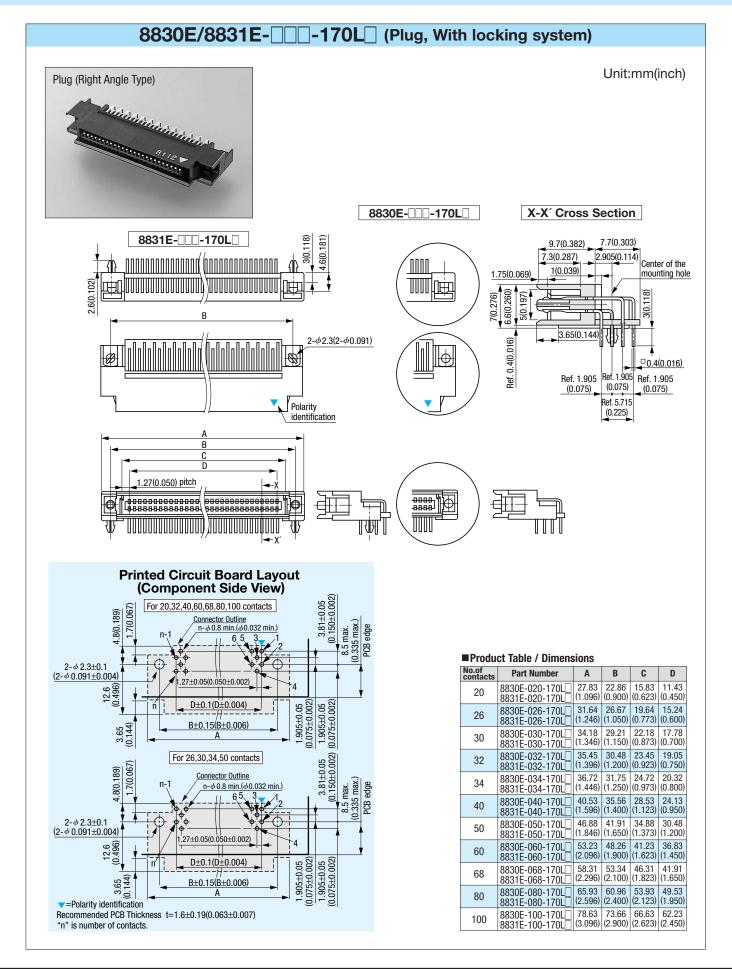
Printed Circuit Board Layout (Component Side View) For 20,32,40,60,68,80,100 contacts Connector Outline



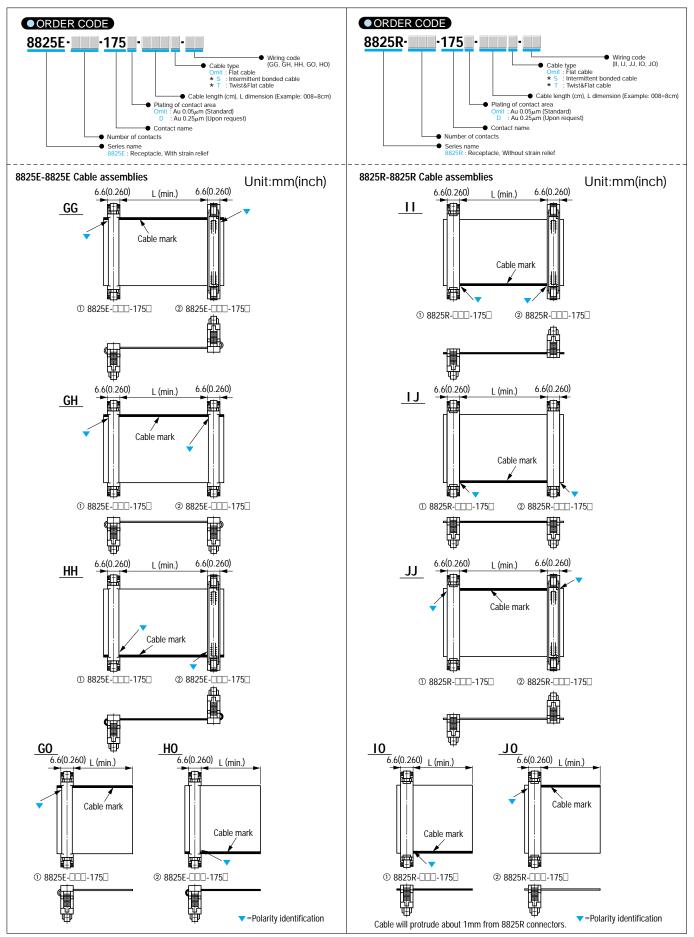
■ Product Table / Dimensions

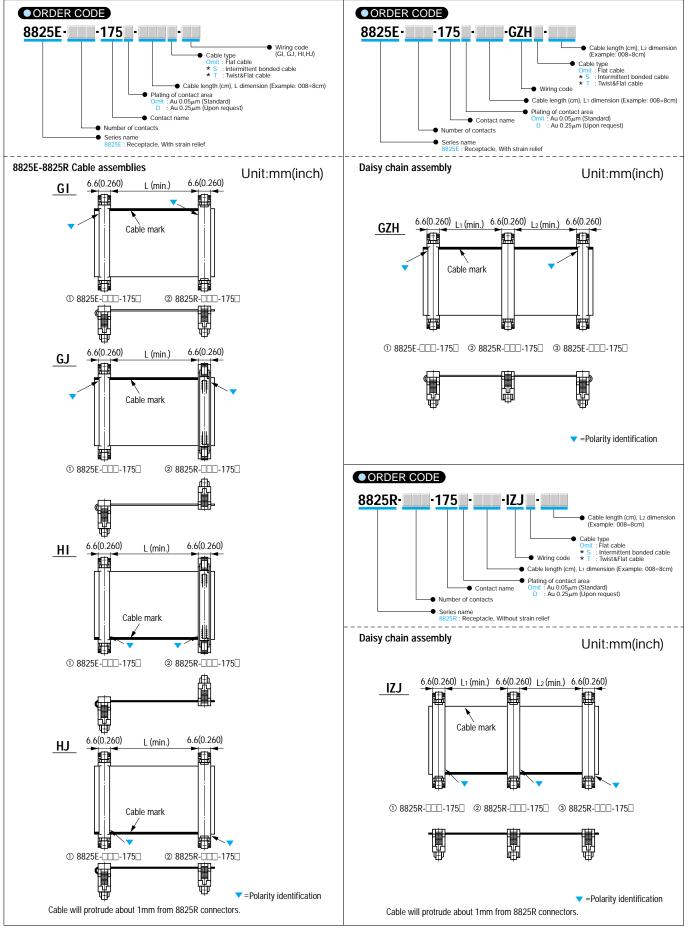
No.of contacts	Part Number	Α	В	C	D
20	8830E-020-170S	27.83 (1.096)	22.86 (0.900)	15.83 (0.623)	11.43 (0.450)
26	8830E-026-170S	31.64 (1.246)	26.67 (1.050)	19.64 (0.773)	15.24 (0.600)
30	8830E-030-170S	34.18 (1.346)	29.21 (1.150)	22.18 (0.873)	17.78 (0.700)
32	8830E-032-170S□	35.45 (1.396)	30.48 (1.200)	23.45 (0.923)	19.05 (0.750)
34	8830E-034-170S	36.72 (1.446)	31.75 (1.250)	24.72 (0.973)	20.32 (0.800)
40	8830E-040-170S	40.53 (1.596)	35.56 (1.400)	28.53 (1.123)	24.13 (0.950)
50	8830E-050-170S	46.88 (1.846)	41.91 (1.650)	34.88 (1.373)	30.48 (1.200)
60	8830E-060-170S	53.23 (2.096)	48.26 (1.900)	41.23 (1.623)	36.83 (1.450)
68	8830E-068-170S	58.31 (2.296)	53.34 (2.100)	46.31 (1.823)	41.91 (1.650)
80	8830E-080-170S	65.93 (2.596)	60.96 (2.400)	53.93 (2.123)	49.53 (1.950)
100	8830E-100-170S	78.63 (3.096)	73.66 (2.900)	66.63 (2.623)	62.23 (2.450)



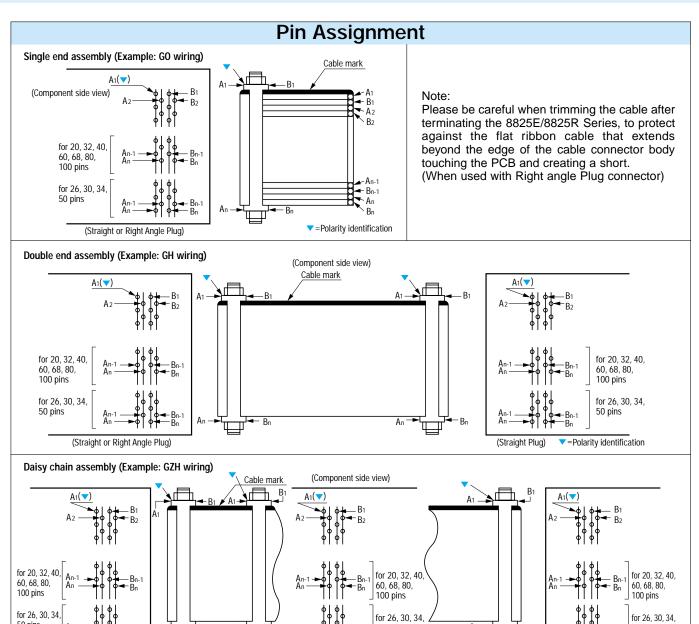












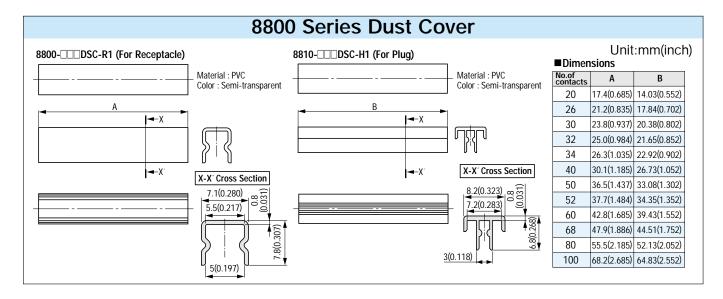
50 pins

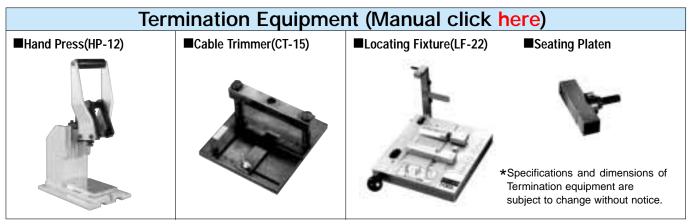
(Straight Plug)

(Straight or Right Angle Plug)

50 pins

(Straight Plug) =Polarity identification





Specifications and dimensions are subject to change without notice.