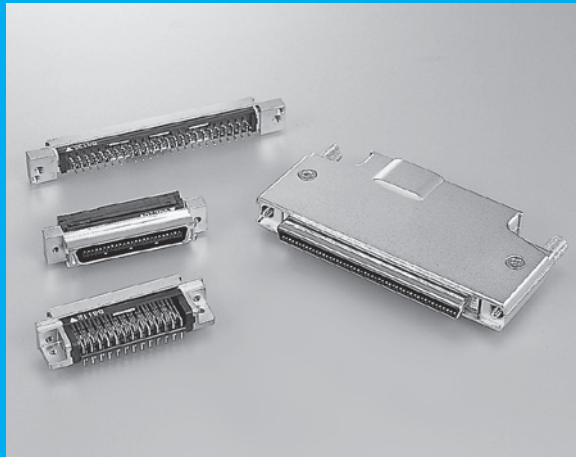


8840 / 8850 / 8855 SERIES

1.27mm PITCH I/O CONNECTOR

RoHS
Compliant



FEATURES

- ▶ Easy to use one-touch latch for models with 20 - 80 pins (100pin: Lock screw)
- ▶ With a completely-independent two-point contact system, a stable contact pressure is maintained at all times.
- ▶ Diecast cover controls EMI.
- ▶ D-shape housing prevents mis-insertion.
- ▶ Insulator prevents deformation of contact.
- ▶ Flat cable version of 8855 Series is available.

ORDER CODE

8840- **-174** **D-F**

① ② ③ ④ ⑤ ⑥

*Please order in multiples of the quantity per package.

- ① **[Type]** **8840** : Receptacle (Cable side connector)
- ② **[Number of contacts]** **020** : 20pin **028** : 28pin **034** : 34pin **050** : 50pin **060** : 60pin **068** : 68pin **080** : 80pin **100** : 100pin
- ③ **[Contact name]** **174**
- ④ **[Recommended cable]** **A** : #28 AWG (7/0.127) Discrete wire cable **B** : #28 AWG (7/0.127) Laminated wire cable
C : #30 AWG (7/0.10) Discrete wire cable* **D** : #30 AWG (7/0.10) Laminated wire cable*
- ⑤ **[Plating of contact area]** **D** : 0.25μm min.
- ⑥ **[RoHS]** **F** : RoHS compliant

If you would like a C or D type connector, please contact your local KEL sales office.

ORDER CODE

8850- **-170** **D-F**

① ② ③ ④ ⑤ ⑥

*Please order in multiples of the quantity per package.

- ① **[Type]** **8850** : Plug (PCB side connector)
- ② **[Number of contacts]** **020** : 20pin **028** : 28pin **034** : 34pin **050** : 50pin **060** : 60pin **068** : 68pin **080** : 80pin **100** : 100pin
- ③ **[Contact name]** **170**
- ④ **[Contact tail style]** **S** : Straight **L** : Right angle
- ⑤ **[Plating of contact area]** **D** : 0.25μm min.
- ⑥ **[RoHS]** **F** : RoHS compliant

ORDER CODE

8855- **-174** **D-F**

① ② ③ ④ ⑤ ⑥

*Please order in multiples of the quantity per package.

- ① **[Type]** **8855** : Plug (Cable plug)
- ② **[Number of contacts]** **020** : 20pin **028** : 28pin **034** : 34pin **050** : 50pin **060** : 60pin **068** : 68pin **080** : 80pin **100** : 100pin
- ③ **[Contact name]** **174**
- ④ **[Recommended cable]** **A** : #28 AWG (7/0.127) Discrete wire cable **B** : #28 AWG (7/0.127) Laminated wire cable
C : #30 AWG (7/0.10) Discrete wire cable* **D** : #30 AWG (7/0.10) Laminated wire cable* **F** : #28 AWG (7/0.127) Flat ribbon cable
- ⑤ **[Contact tail style]** **D** : 0.25μm min.
- ⑥ **[RoHS]** **F** : RoHS compliant

If you would like a C or D type connector, please contact your local KEL sales office.

SPECIFICATIONS

Material and plating		Electrical Characteristics	
Insulator material	Glass-filled Nylon 66 (UL94V-0), Black	Current rating	0.5A per contact
Contact material	Copper alloy	Contact resistance	30mΩ max.
Contact plating	[8840/8855]Gold over Nickel	Dielectric withstanding voltage	650V AC for 1 minute
	[8850](Contact area) Gold over Nickel	Insulation resistance	1,000MΩ min. at 500V DC
	(Terminal area) Tin copper over Nickel	Operating temperature	-55°C to +85°C
Metal shell material	Steel	Recommended cable	#28 AWG(7/0.127) Outer diameter of insulation : 0.58mm
Metal shell plating	Nickel over Copper		
Diecast shell material	[8850/8855]Zinc alloy		

Diecast cover for 8840

ORDER CODE

8840S -  -  - **CVR**

①

②

③

*Please order in multiples of the quantity per package.

- ① **[Diecast cover type]** **8840S** : Cover for straight cable exit
- ② **[Number of contacts]** **020** : 20pin **028** : 28pin **034** : 34pin
050 : 50pin **060** : 60pin **068** : 68pin **080** : 80pin **100** : 100pin
- ③ **[Mounted panel thickness]** (Only 100 pin)
1 : No panel **2** : 0.8~1.0mm **3** : 1.6mm
Not to be specified as the 20 to 80 pin types due to a spring lock system

*Connectors and diecast cover are required when you use a 20 to 80 pin type 8840 Series connector.

SPECIFICATIONS

Material and plating	
Diecast cover	[20-80 pin] Zinc alloy [100 pin] Aluminum
Diecast cover plating	Nickel over Copper
Spring lock material	Stainless steel
Lock screw material	Steel Copper plating
Lock screw plating	Nickel over Copper
Cable clamp material	Stainless steel

Lock Nut(100pin connector only)

ORDER CODE

8850-SR - 

①

②

*Lock nuts are sold in pairs. *Please order in multiples of the quantity per package.

- ① **[Lock nut]** **8850-SR** : Lock nut for 8850
- ② **[Panel thickness]** **01** : No panel **02** : 1.0mm **03** : 1.6mm **05** : 0.8mm

*Connectors and lock nuts are required when you use a 100 pin type 8850/8855 Series connector.

*The connector may be adjusted to a panel thickness not listed above. If you consider using one for such a panel, please feel free to contact us.

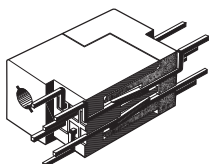
SPECIFICATIONS

Material and plating	
Lock nut material	Steel
Lock nut plating	Nickel over Copper

Contact Concept (Contacts with 2 mating points straight-beam construction)

◆ Outline

KEL has developed a unique straight beam contact with two independent mating points for male and female half pitch connectors which offers low insertion and withdrawal forces with high reliability. In response to the rapidly changing requirements for connectors, from card edge to standard pitch two piece to half pitch two piece, KEL offers these connectors for today's requirement for high density and reliability.

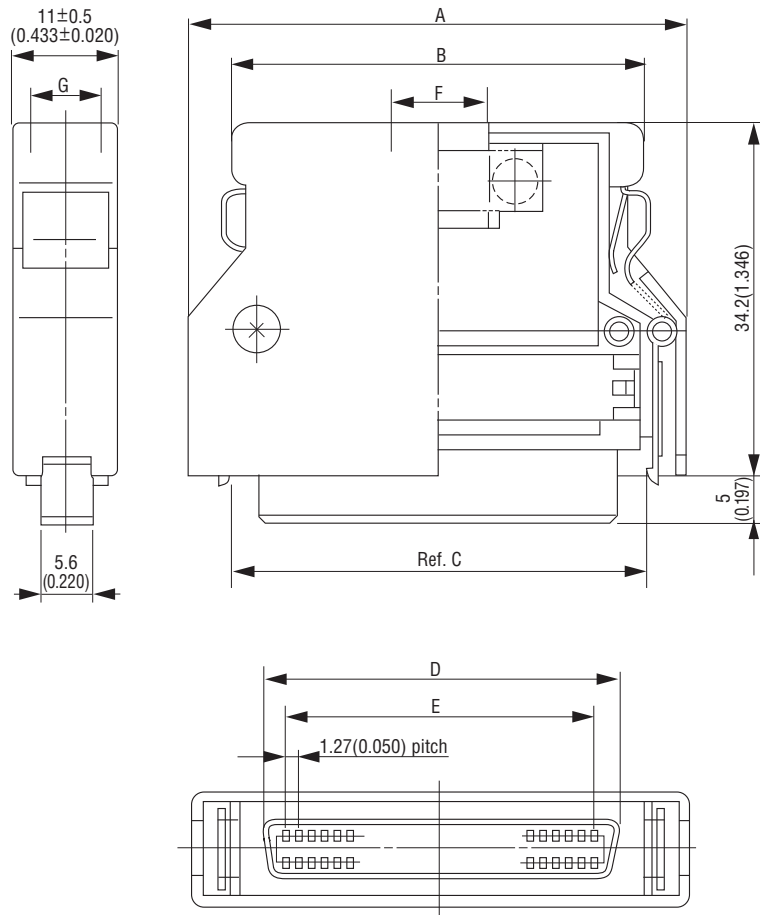


◆ Key Features

- With a completely-independent two-point contact system, a stable contact pressure is maintained at all times.
- Contact surface is smooth and tapered to reduce insertion and withdrawal forces and increase connector life.
- Lower cost due to same contact is used for both male and female connectors.
- Mating process of contact is self-cleaning with a long wiping area.
- Insulator aligns the mating connectors, prevents mis-insertion and protects the contacts from bending and breakage.

8840-□□□-174□D-F/8840S-□□□-CVR (Receptacle, Cable side connector, 20-80 pin/diecast cover)

Unit : mm(inch)



In the product drawing, the connector body (receptacle) is combined with a diecast cover.
When placing your order, please note that the connector (8840-□□-174□D-F) and the diecast cover (8840S-□□□-CVR) must be ordered separately.

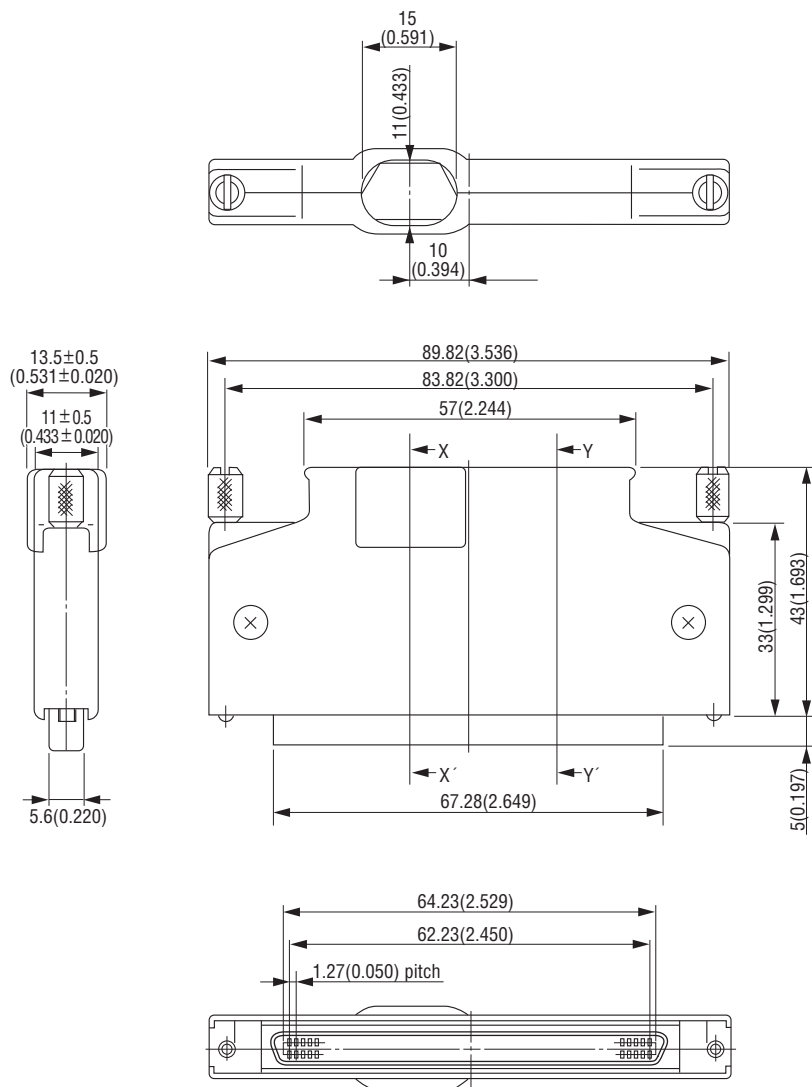
Packaging style

Other

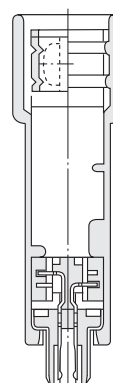
Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	E	F	G	Number of packaging
20	8840-020-174□D-F 8840S-020-CVR	30.00 (1.181)	22.30 (0.878)	21.3 (0.839)	16.48 (0.649)	11.43 (0.450)	6.7 (0.264)	6.7 (0.264)	80
28	8840-028-174□D-F 8840S-028-CVR	35.08 (1.381)	27.38 (1.078)	26.4 (1.039)	21.56 (0.849)	16.51 (0.650)	7.5 (0.295)	7.5 (0.295)	80
34	8840-034-174□D-F 8840S-034-CVR	38.89 (1.531)	31.19 (1.228)	30.2 (1.189)	25.37 (0.999)	20.32 (0.800)	8.7 (0.343)	8.7 (0.343)	80
50	8840-050-174□D-F 8840S-050-CVR	49.05 (1.931)	41.35 (1.628)	40.4 (1.591)	35.53 (1.399)	30.48 (1.200)	10.0 (0.394)	8.5 (0.335)	50
60	8840-060-174□D-F 8840S-060-CVR	55.40 (2.181)	47.70 (1.878)	46.7 (1.839)	41.88 (1.649)	36.83 (1.450)	11.0 (0.433)	8.5 (0.335)	50
68	8840-068-174□D-F 8840S-068-CVR	60.48 (2.381)	52.78 (2.078)	51.8 (2.039)	46.96 (1.849)	41.91 (1.650)	12.0 (0.472)	8.5 (0.335)	50
80	8840-080-174□D-F 8840S-080-CVR	68.10 (2.681)	60.40 (2.378)	59.4 (2.339)	54.58 (2.149)	49.53 (1.950)	13.0 (0.512)	8.5 (0.335)	50

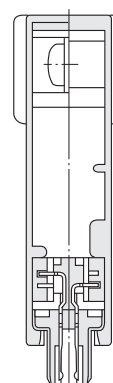
8840-100-174□D-F / 8840S-100-□-CVR (Receptacle, Cable side connector, 100 pin/diecast cover) Unit : mm(inch)



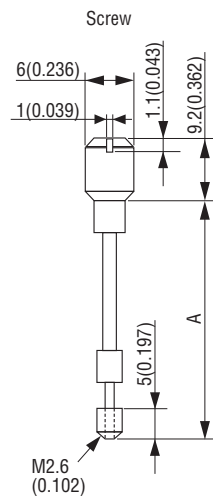
X-X' Cross Section



Y-Y' Cross Section



In the product drawing, the connector body (receptacle) is combined with a diecast cover.
When placing your order, please note that the connector (8840-□□-174□D-F) and the diecast cover (8840S-□□□-CVR) must be ordered separately.



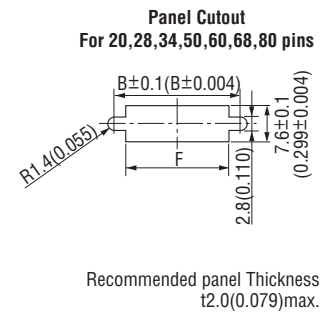
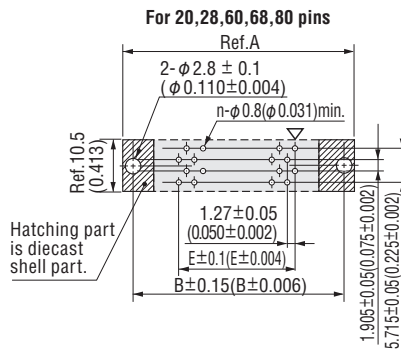
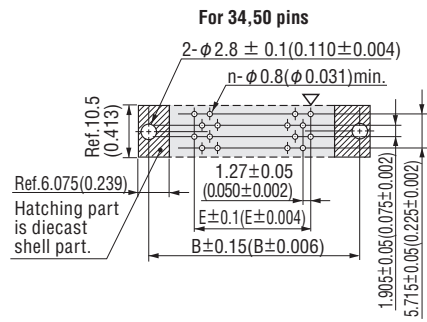
Product Table / Dimensions

Packaging style			
Other			
Part Number	Mounted Panel Thickness	A	Number of packaging
8840-100-174□D-F 8840S-100-1-CVR	No Panel	33.8 (1.331)	50
8840-100-174□D-F 8840S-100-2-CVR	0.8~1.0mm	33.3 (1.311)	50
8840-100-174□D-F 8840S-100-3-CVR	1.6mm	32.8 (1.291)	50

8850-□□□-170SD-F (Plug, PCB side connector, Straight, 20-80 pin)

Unit : mm(inch)

Printed Circuit Board Layout (Component Side View)

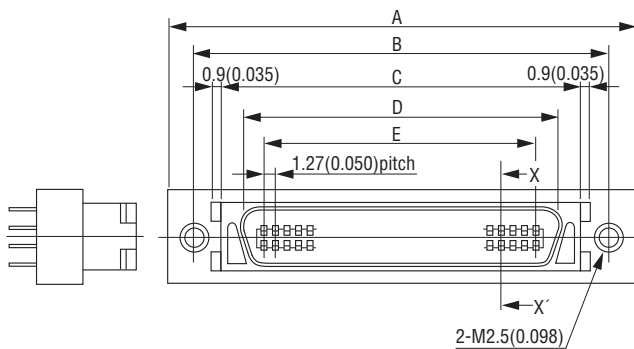
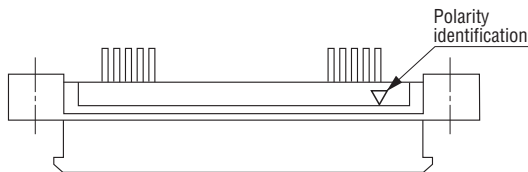
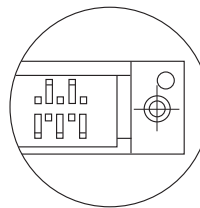
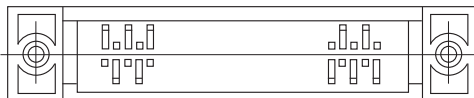


Recommended PCB Thickness $t1.6 \pm 0.19(0.063 \pm 0.007)$

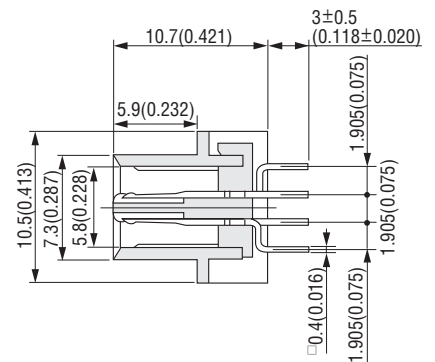
▽=Polarity identification "n" is number of contacts.

For 20,50 pins

For 28,34,60,68,80 pins



X-X' Cross Section

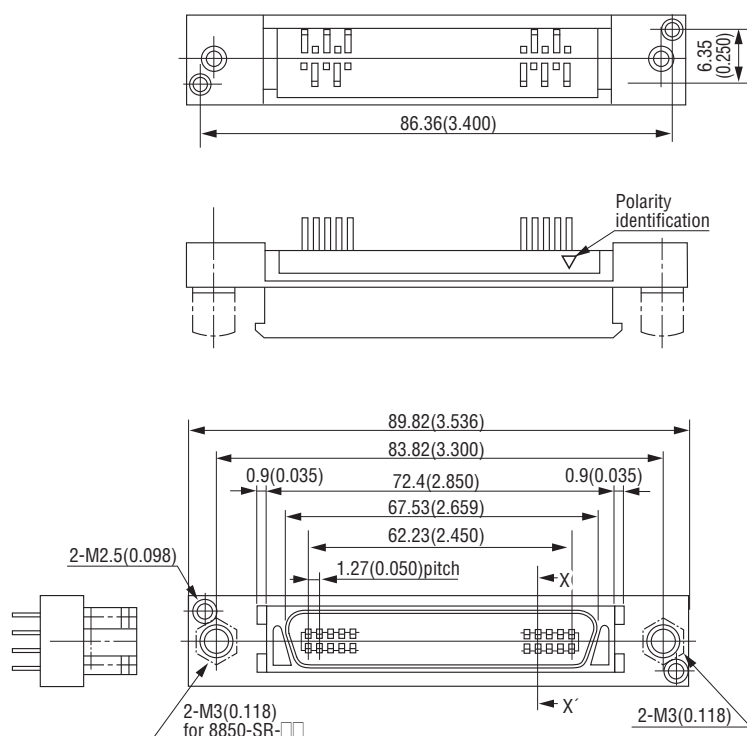


Packaging style

Pipe

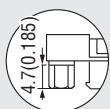
Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	E	F	Number of packaging
20	8850-020-170SD-F	33.40 (1.315)	27.40 (1.079)	21.60 (0.850)	16.73 (0.659)	11.43 (0.450)	24.40 (0.961)	15
28	8850-028-170SD-F	38.48 (1.515)	32.48 (1.279)	26.68 (1.050)	21.81 (0.859)	16.51 (0.650)	29.48 (1.161)	13
34	8850-034-170SD-F	42.29 (1.665)	36.29 (1.429)	30.49 (1.200)	25.62 (1.009)	20.32 (0.800)	33.29 (1.311)	11
50	8850-050-170SD-F	52.45 (2.065)	46.45 (1.829)	40.65 (1.600)	35.78 (1.409)	30.48 (1.200)	43.45 (1.711)	9
60	8850-060-170SD-F	58.80 (2.315)	52.80 (2.079)	47.00 (1.850)	42.13 (1.659)	36.83 (1.450)	49.80 (1.961)	8
68	8850-068-170SD-F	63.88 (2.515)	57.88 (2.279)	52.08 (2.050)	47.21 (1.859)	41.91 (1.650)	54.88 (2.161)	7
80	8850-080-170SD-F	71.50 (2.815)	65.50 (2.579)	59.70 (2.350)	54.83 (2.159)	49.53 (1.950)	62.50 (2.461)	7

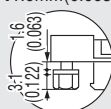


Nut for Lock Screw

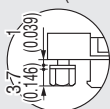
8850-SR-01
(Without mounting panel)



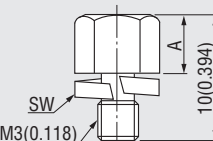
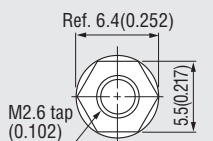
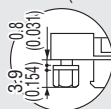
8850-SR-03
mounting panel
t1.6mm(0.063)



8850-SR-02
mounting panel
t1.0mm(0.039)

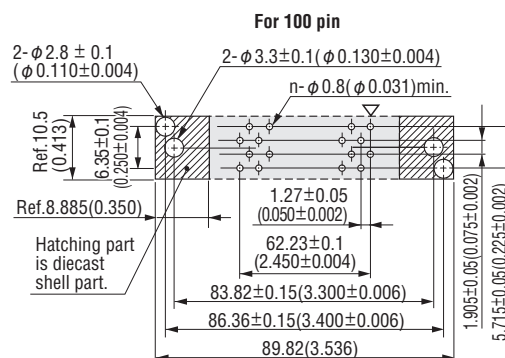


8850-SR-05
mounting panel
t0.8mm(0.031)



A	Part Number
4.7(0.185)	01(t 0)
3.7(0.146)	02(t 1.0)
3.1(0.122)	03(t 1.6)
3.9(0.154)	05(t 0.8)

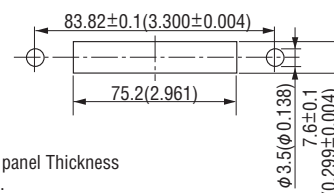
▶ **Printed Circuit Board Layout (Component Side View)**



Recommended PCB Thickness $t_{1.6 \pm 0.19}(0.063 \pm 0.007)$

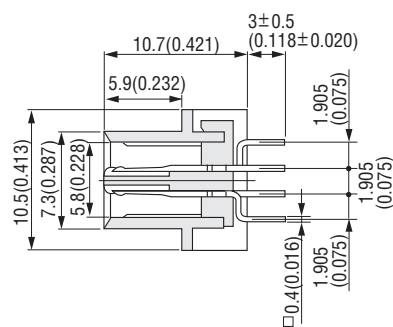
▽=Polarity identification "n" is number of contacts.

Panel Cutout For 100 pin



Recommended panel Thickness
t2.0(0.079)max.

X-X' Cross Section



▶ Product Table

No. of contacts	Part Number	Number of packaging
100	8850-100-170SD-F	5

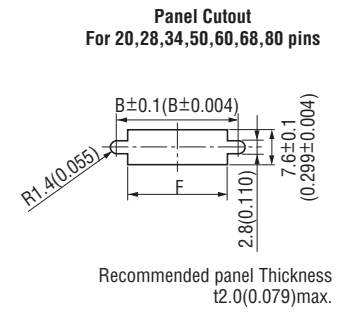
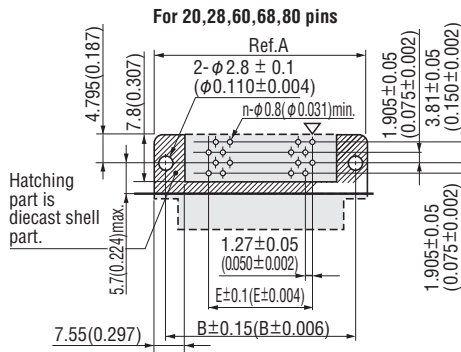
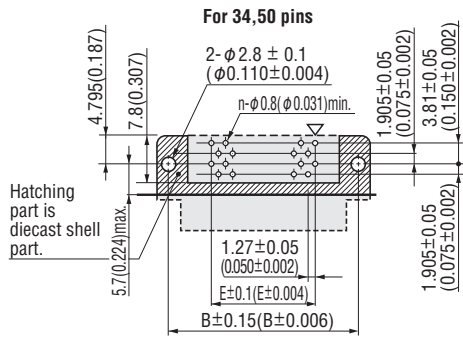
Packaging style

Pipe

8850-□□□-170LD-F (Plug, PCB side connector, Right angle, 20-80 pin)

Unit : mm(inch)

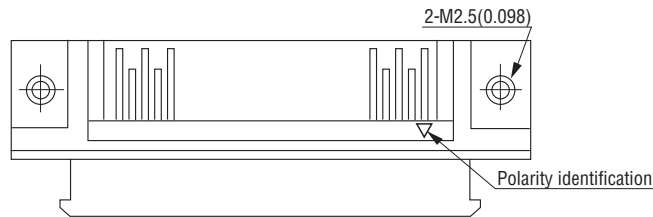
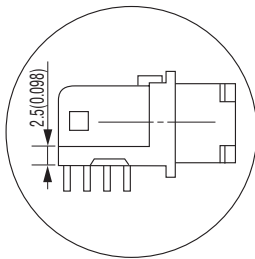
Printed Circuit Board Layout (Component Side View)



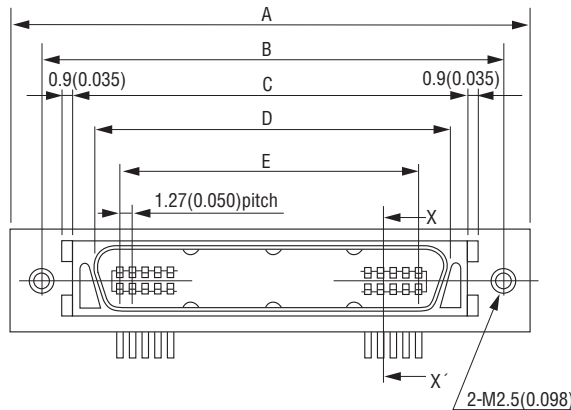
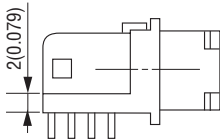
Recommended PCB Thickness $t1.6 \pm 0.19(0.063 \pm 0.007)$

▽=Polarity identification "n" is number of contacts.

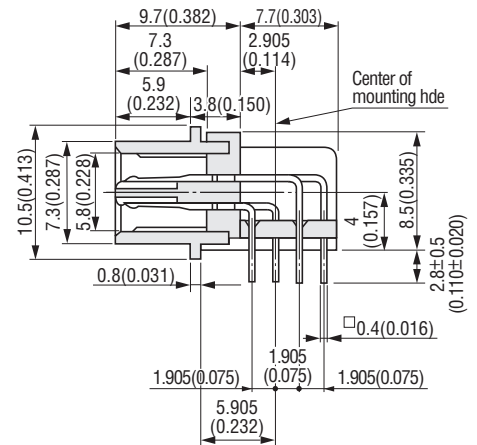
For 28,34,60,68,80 pins



For 20,50 pins



X-X' Cross Section



Packaging style

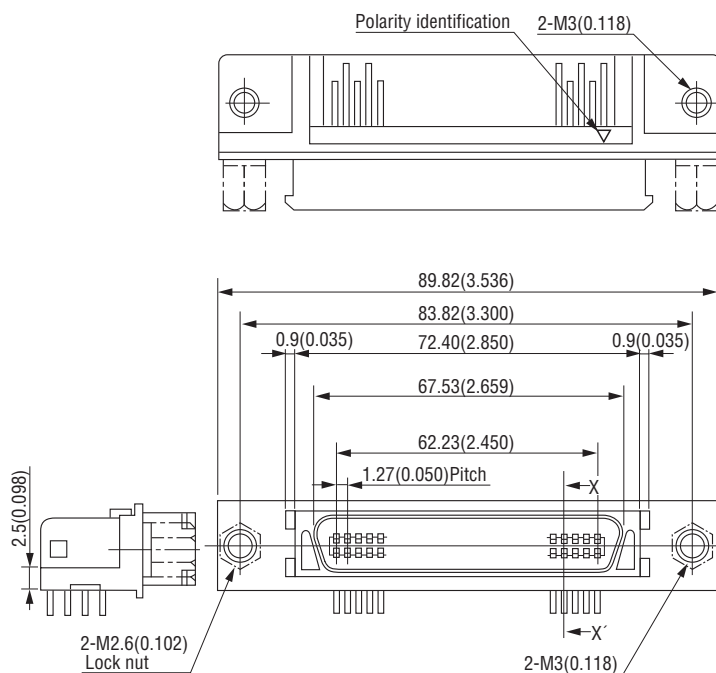
Pipe

Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	E	F	Number of packaging
20	8850-020-170LD-F	33.40 (1.315)	27.40 (1.079)	21.60 (0.850)	16.73 (0.659)	11.43 (0.450)	24.40 (0.961)	14
28	8850-028-170LD-F	38.48 (1.515)	32.48 (1.279)	26.68 (1.050)	21.81 (0.859)	16.51 (0.650)	29.48 (1.161)	13
34	8850-034-170LD-F	42.29 (1.665)	36.29 (1.429)	30.49 (1.200)	25.62 (1.009)	20.32 (0.800)	33.29 (1.311)	11
50	8850-050-170LD-F	52.45 (2.065)	46.45 (1.829)	40.65 (1.600)	35.78 (1.409)	30.48 (1.200)	43.45 (1.711)	9
60	8850-060-170LD-F	58.80 (2.315)	52.80 (2.079)	47.00 (1.850)	42.13 (1.659)	36.83 (1.450)	49.80 (1.961)	8
68	8850-068-170LD-F	63.88 (2.515)	57.88 (2.279)	52.08 (2.050)	47.21 (1.859)	41.91 (1.650)	54.88 (2.161)	7
80	8850-080-170LD-F	71.50 (2.815)	65.50 (2.579)	59.70 (2.350)	54.83 (2.159)	49.53 (1.950)	62.50 (2.461)	7

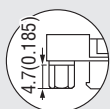
8850-100-170LD-F (Plug, PCB side connector, Right angle, 100 pin)

Unit : mm(inch)

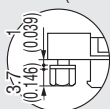


Nut for Lock Screw

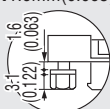
8850-SR-01
(Without mounting panel)



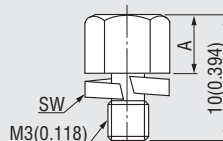
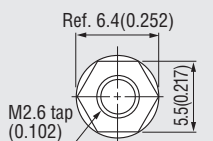
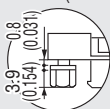
8850-SR-02
mounting panel
t1.0mm(0.039)



8850-SR-03
mounting panel
t1.6mm(0.063)

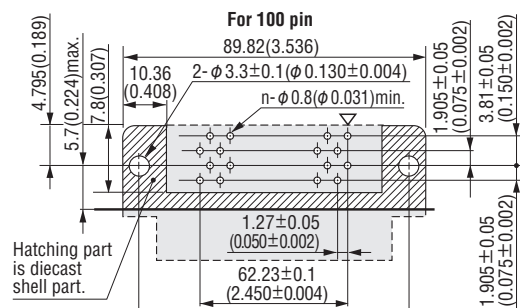


8850-SR-05
mounting panel
t0.8mm(0.031)



A	Part Number
4.7(0.185)	01(t 0)
3.7(0.146)	02(t 1.0)
3.1(0.122)	03(t 1.6)
3.9(0.154)	05(t 0.8)

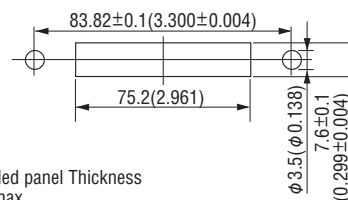
Printed Circuit Board Layout (Component Side View)



Recommended PCB Thickness $t1.6 \pm 0.19(0.063 \pm 0.007)$

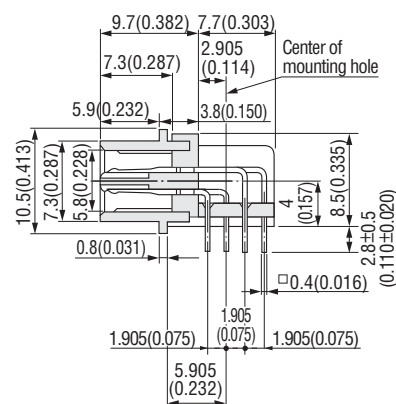
▽=Polarity identification "n" is number of contacts.

Panel Cutout For 100 pin



Recommended panel Thickness $t1.6(0.063)$ max.

X-X' Cross Section



Product Table

No. of contacts	Part Number	Number of packaging
100	8850-100-170LD-F	5

Packaging style

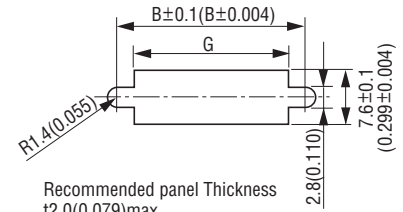
Pipe

8855-□□□-174□D-F (Cable plug, 20-80 pin)

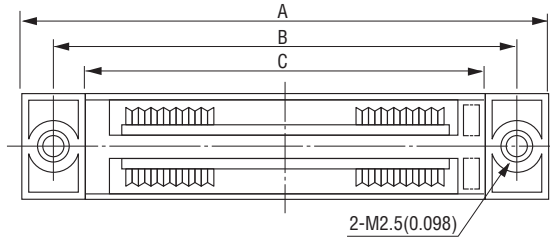
Unit : mm(inch)

Panel Cutout

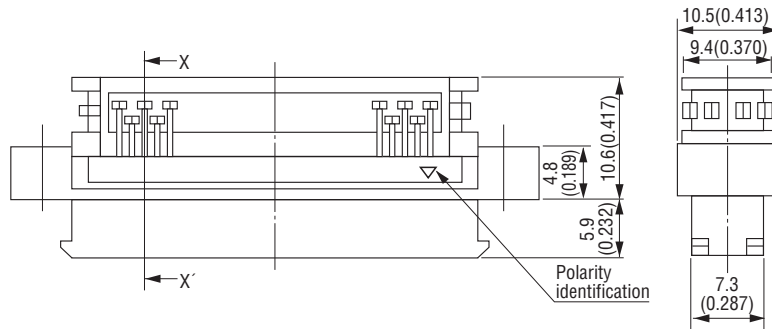
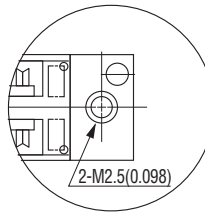
For 20,28,34,50,60,68,80 pins



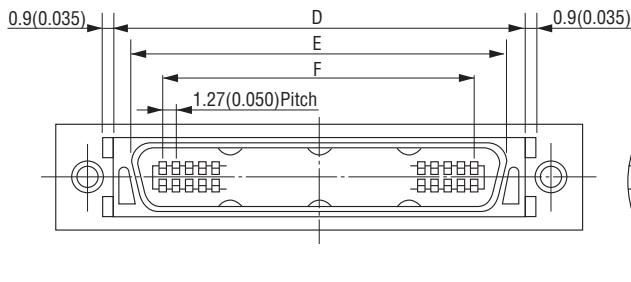
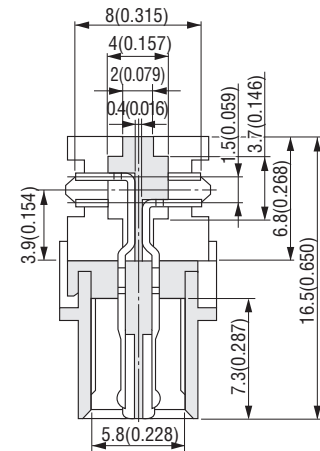
For 20,50 pins



For 28,34,60,68,80 pins



X-X' Cross Section



Packaging style

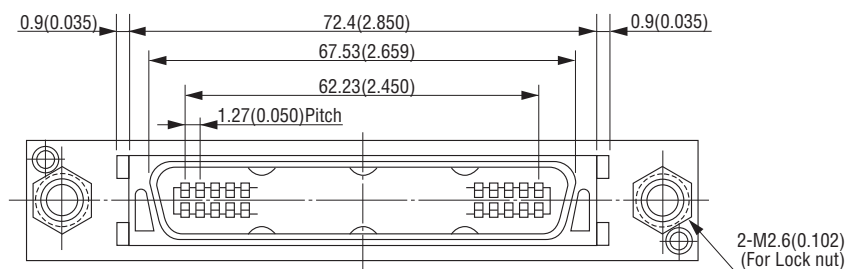
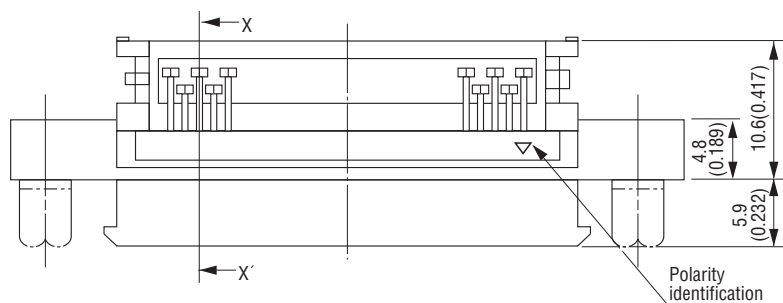
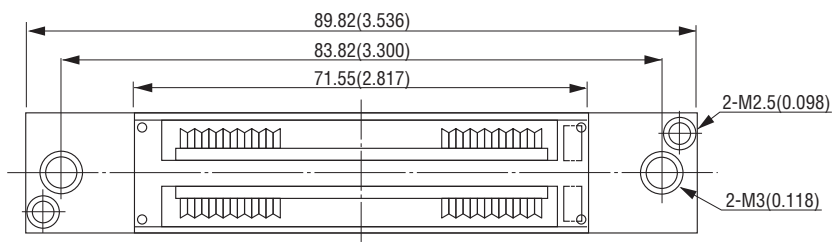
Pipe

Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	E	F	G	Number of packaging
20	8855-020-174□D-F	33.40 (1.315)	27.40 (1.079)	20.75 (0.817)	21.60 (0.850)	16.73 (0.659)	11.43 (0.450)	24.40 (0.961)	14
28	8855-028-174□D-F	38.48 (1.515)	32.48 (1.279)	25.83 (1.017)	26.68 (1.050)	21.81 (0.859)	16.51 (0.650)	29.48 (1.161)	13
34	8855-034-174□D-F	42.29 (1.665)	36.29 (1.429)	29.64 (1.167)	30.49 (1.200)	25.62 (1.009)	20.32 (0.800)	33.29 (1.311)	11
50	8855-050-174□D-F	52.45 (2.065)	46.45 (1.829)	39.80 (1.567)	40.65 (1.600)	35.78 (1.409)	30.48 (1.200)	43.45 (1.711)	9
60	8855-060-174□D-F	58.80 (2.315)	52.80 (2.079)	46.15 (1.817)	47.00 (1.850)	42.13 (1.659)	36.83 (1.450)	49.80 (1.961)	8
68	8855-068-174□D-F	63.88 (2.515)	57.88 (2.279)	51.23 (2.017)	52.08 (2.050)	47.21 (1.859)	41.91 (1.650)	54.88 (2.161)	7
80	8855-080-174□D-F	71.50 (2.815)	65.50 (2.579)	58.85 (2.317)	59.70 (2.350)	54.83 (2.159)	49.53 (1.950)	62.50 (2.461)	7

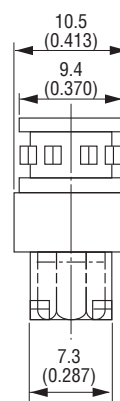
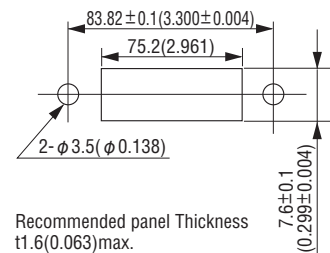
8855-100-174□D-F (Cable plug, 100 pin)

Unit : mm(inch)

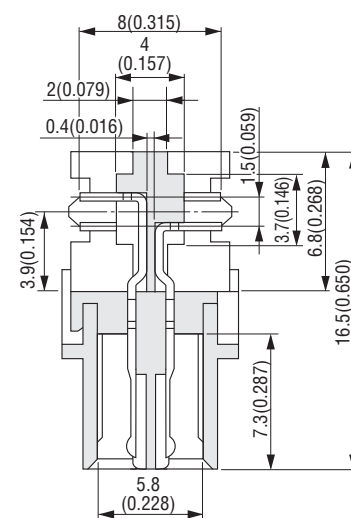


Panel Cutout

For 100 pins



X-X' Cross Section



Packaging style

Pipe

Product Table

No. of contacts	Part Number	Number of packaging
100	8855-100-174□D-F	5

CABLE ASSEMBLY

ORDER CODE

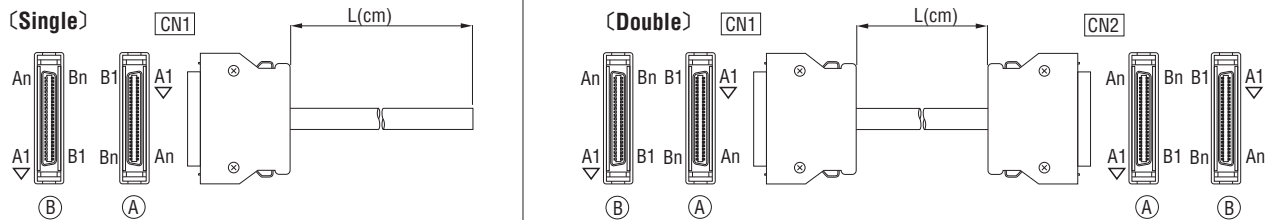
Cable side connector(20~80 pin)

8840S-**174****DF**-**020****028****034****050****060****068****080**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

- ① **[Diecast cover]** **8840S**: Straight cable exit
- ② **[Number of contacts]** **020**: 20pin **028**: 28pin **034**: 34pin **050**: 50pin **060**: 60pin **068**: 68pin **080**: 80pin
- ③ **[Contact name]** **174**
- ④ **[Recommended cable]** **A**: #28 AWG (7/0.127) Discrete wire cable **B**: #28 AWG (7/0.127) Laminated wire cable
- ⑤ **[Plating of contact area]** **D**: 0.25μm min.
- ⑥ **[RoHS]** **F**: RoHS compliant
- ⑦ **[Cable length(cm)]** **L**: (Example: 008=8cm)
- ⑧ **[Wiring code]** **S**: Single **W**: Double
- ⑨ **[Connector direction]** Left:CN1,Right:CN2 (W:Double) **1**: AA **2**: AB **3**: BA **4**: BB (S:Single) **5**: A **6**: B
- ⑩ **[Wiring identifier]** **H**: Standard wiring **J**: Semi-standard wiring

► Cable assemblies



ORDER CODE

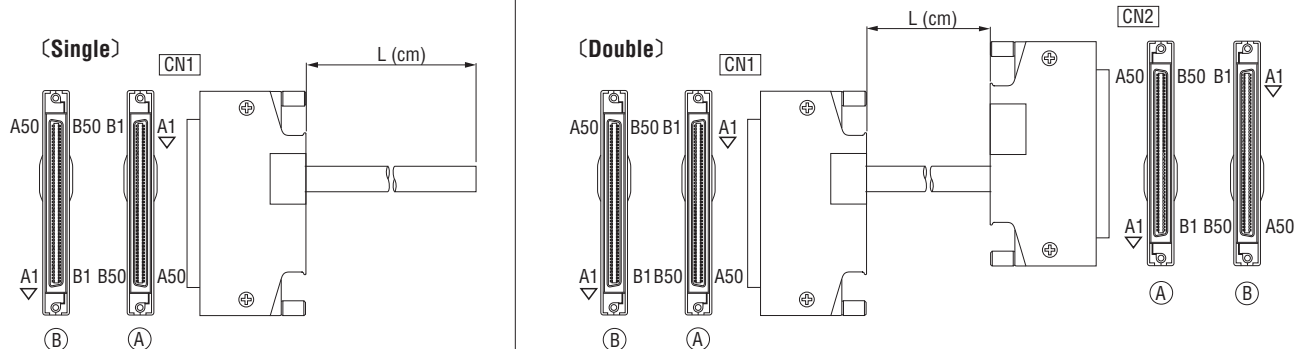
Cable side connector(100 pin)

8840S-**100**-**174****DF**-**020****028****034****050****060****068****080**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

- ① **[Diecast cover]** **8840S**: Straight cable exit
- ② **[Number of contacts]** **100**: 100pin
- ③ **[Contact name]** **174**
- ④ **[Recommended cable]** **A**: #28 AWG (7/0.127) Discrete wire cable **B**: #28 AWG (7/0.127) Laminated wire cable
- ⑤ **[Plating of contact area]** **D**: 0.25μm min.
- ⑥ **[RoHS]** **F**: RoHS compliant
- ⑦ **[Mounting panel thickness]** **1**: No panel **2**: Panel thickness from 0.8~1.0mm **3**: Panel thickness of 1.6mm
- ⑧ **[Cable length(cm)]** **L**: (Example: 008=8cm)
- ⑨ **[Wiring code]** **S**: Single **W**: Double
- ⑩ **[Connector direction]** Left:CN1,Right:CN2 (W:Double) **1**: AA **2**: AB **3**: BA **4**: BB (S:Single) **5**: A **6**: B
- ⑪ **[Wiring identifier]** **H**: Standard wiring **J**: Semi-standard wiring

► Cable assemblies



ORDER CODE

Cable Plug

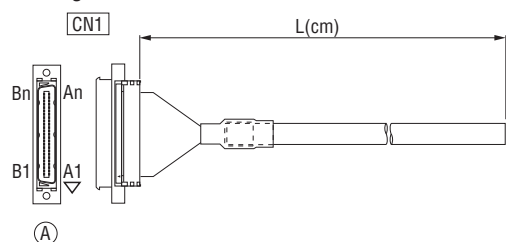
8855- -**174** **DF**-

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

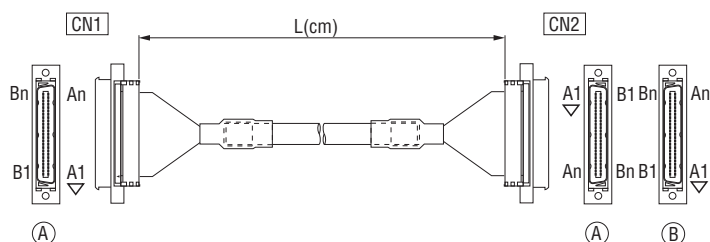
- | | |
|---|--|
| ① | [Type] 8855: Straight cable exit |
| ② | [Number of contacts] 020: 20pin 028: 28pin 034: 34pin 050: 50pin 060: 60pin 068: 68pin 080: 80pin 100: 100pin |
| ③ | [Contact name] 174 |
| ④ | [Recommended cable] A: #28 AWG (7/0.127) Discrete wire cable B: #28 AWG (7/0.127) Laminated wire cable |
| ⑤ | [Plating of contact area] D: 0.25μm min. |
| ⑥ | [RoHS] F: RoHS compliant |
| ⑦ | [Cable length(cm)] L: (Example: 013=13cm) |
| ⑧ | [Wiring code] S: Single W: Double |
| ⑨ | [Connector direction] Left:CN1,Right:CN2 (W:Double) 1: AA 2: AB (S:Single) 5: A |
| ⑩ | [Wiring identifier] H: Standard wiring J: Semi-standard wiring |

► Cable assemblies

(Single)



(Double)



▽= Polarity identification

For harness quotations, please contact your local KEL sales office.
For S(Wiring Code), orders are accepted in even quantities.

ORDER CODE

Cable plug(Flat ribbon type)

8855- -**174 FDF**- -

①

②

③

④

⑤

⑥

⑦

⑧

⑨

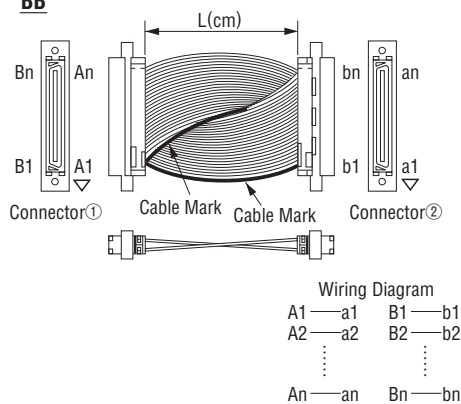
⑩

- ① **[Type]** **8855**: Cable plug
- ② **[Number of contacts]** **020**: 20pin **028**: 28pin **034**: 34pin **050**: 50pin **060**: 60pin **068**: 68pin **080**: 80pin **100**: 100pin
- ③ **[Contact name]** **174**
- ④ **[Recommended cable]** **F**: #28 AWG (7/0.127) Flat cable
- ⑤ **[Plating of contact area]** **D**: 0.25μm or min.(Standard)
- ⑥ **[RoHS]** **F**: RoHS compliant
- ⑦ **[Cable length(cm)]** **L**: (Example: 013=13cm)
- ⑧ **[Cable type]** **Omit**: Flat cable(Standard) **S**: Intermittent bonded cable* **T**: Twist&Flat cable*
- ⑨ **[Wiring code]** **AA,AC,BB,BD,AO,CO**
- ⑩ **[Wiring type]** **Omit**: Twist type **C**: Through type(Wiring code : BB)

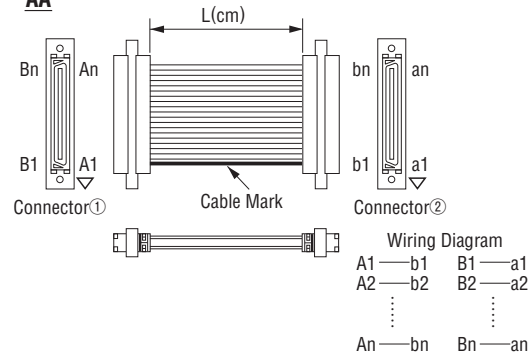
Only flat and twisted-flat cables are available for BB and BD-wired products.
Flat and twisted-flat cables have a limited L dimension as they are IDC at the fused connections.

► Cable assemblies

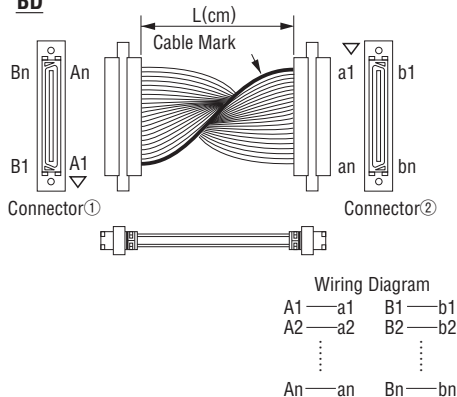
BB



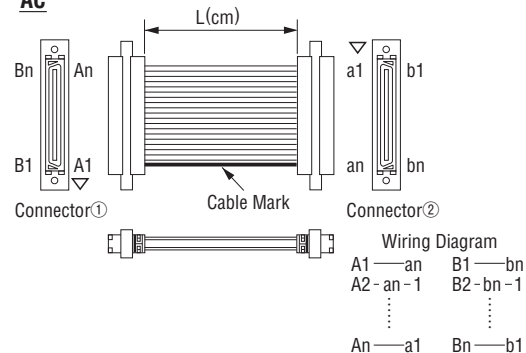
AA



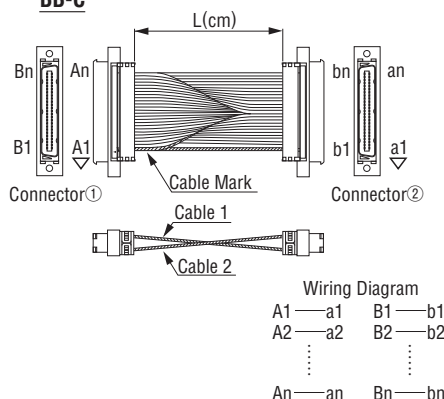
BD



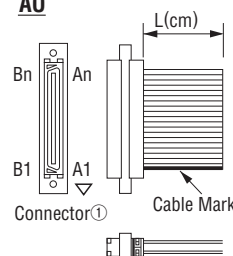
AC



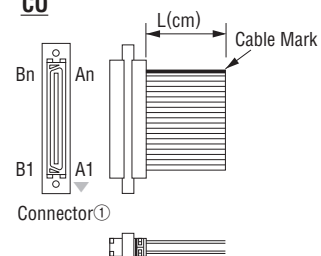
BB-C



AO



CO



▽= Polarity identification

8840/8855 Standard Wiring Table

Standard wiring table (20 pin)

Wire No.	Twist No.	Wire Color	Mark Color	Marking	CN1 Pin No.	CN2 Pin No.
1	1	Orange	Red		A1	A1
2			Black		A2	A2
3	2	Gray	Red		A3	A3
4			Black		A4	A4
5	3	White	Red		A5	A5
6			Black		A6	A6
7	4	Yellow	Red		A7	A7
8			Black		A8	A8
9	5	Pink	Red		A9	A9
10			Black		A10	A10
11	6	Orange	Red	:	B1	B1
12			Black		B2	B2
13	7	Gray	Red		B3	B3
14			Black		B4	B4
15	8	White	Red		B5	B5
16			Black		B6	B6
17	9	Yellow	Red		B7	B7
18			Black		B8	B8
19	10	Pink	Red		B9	B9
20			Black		B10	B10

Standard wiring table (28 pin)

Wire No.	Twist No.	Wire Color	Mark Color	Marking	CN1 Pin No.	CN2 Pin No.
1	1	Orange	Red		A1	A1
2			Black		A2	A2
3	2	Gray	Red		A3	A3
4			Black		A4	A4
5	3	White	Red		A5	A5
6			Black		A6	A6
7	4	Yellow	Red		A7	A7
8			Black		A8	A8
9	5	Pink	Red		A9	A9
10			Black		A10	A10
11	6	Orange	Red	:	A11	A11
12			Black		A12	A12
13	7	Gray	Red		A13	A13
14			Black		A14	A14
15	8	White	Red		B1	B1
16			Black		B2	B2
17	9	Yellow	Red		B3	B3
18			Black		B4	B4
19	10	Pink	Red		B5	B5
20			Black		B6	B6
21	11	Orange	Red	:	B7	B7
22			Black		B8	B8
23	12	Gray	Red		B9	B9
24			Black		B10	B10
25	13	White	Red		B11	B11
26			Black		B12	B12
27	14	Yellow	Red		B13	B13
28			Black		B14	B14

Standard wiring table (34 pin)

Wire No.	Twist No.	Wire Color	Mark Color	Marking	CN1 Pin No.	CN2 Pin No.
1	1	Orange	Red		A1	A1
2			Black		A2	A2
3	2	Gray	Red		A3	A3
4			Black		A4	A4
5	3	White	Red		A5	A5
6			Black		A6	A6
7	4	Yellow	Red		A7	A7
8			Black		A8	A8
9	5	Pink	Red		A9	A9
10			Black		A10	A10
11	6	Orange	Red	:	A11	A11
12			Black		A12	A12
13	7	Gray	Red		A13	A13
14			Black		A14	A14
15	8	White	Red		A15	A15
16			Black		A16	A16
17	9	Yellow	Red		A17	A17
18			Black		B1	B1
19	10	Pink	Red		B2	B2
20			Black		B3	B3
21	11	Orange	Red	:	B4	B4
22			Black		B5	B5
23	12	Gray	Red		B6	B6
24			Black		B7	B7
25	13	White	Red		B8	B8
26			Black		B9	B9
27	14	Yellow	Red		B10	B10
28			Black		B11	B11
29	15	Pink	Red		B12	B12
30			Black		B13	B13
31	16	Orange	Red	:	B14	B14
32			Black		B15	B15
33	17	Gray	Red		B16	B16
34			Black		B17	B17
35	18	White	Red			
36			Black			

Standard wiring table (80 pin)

Wire No.	Twist No.	Wire Color	Mark Color	Marking	CN1 Pin No.	CN2 Pin No.	Wire No.	Twist No.	Wire Color	Mark Color	Marking	CN1 Pin No.	CN2 Pin No.
1	1	Orange	Red		A1	A1	41	21	Orange	Red		B1	B1
2			Black		A2	A2	42			Black		B2	B2
3	2	Gray	Red		A3	A3	43	22	Gray	Red		B3	B3
4			Black		A4	A4	44			Black		B4	B4
5	3	White	Red		A5	A5	45	23	White	Red		B5	B5
6			Black		A6	A6	46			Black		B6	B6
7	4	Yellow	Red		A7	A7	47	24	Yellow	Red		B7	B7
8			Black		A8	A8	48			Black		B8	B8
9	5	Pink	Red		A9	A9	49	25	Pink	Red		B9	B9
10			Black		A10	A10	50			Black		B10	B10
11	6	Orange	Red	:	A11	A11	51	26	Orange	Red		B11	B11
12			Black		A12	A12	52			Black		B12	B12
13	7	Gray	Red		A13	A13	53	27	Gray	Red		B13	B13
14			Black		A14	A14	54			Black		B14	B14
15	8	White	Red		A15	A15	55	28	White	Red		B15	B15
16			Black		A16	A16	56			Black		B16	B16
17	9	Yellow	Red		A17	A17	57	29	Yellow	Red		B17	B17
18			Black		A18	A18	58			Black		B18	B18
19	10	Pink	Red		A19	A19	59	30	Pink	Red		B19	B19
20			Black		A20	A20	60			Black		B20	B20
21	11	Orange	Red	:	A21	A21	61	31	Orange	Red		B21	B21
22			Black		A22	A22	62			Black		B22	B22
23	12	Gray	Red		A23	A23	63	32	Gray	Red		B23	B23
24			Black		A24	A24	64			Black		B24	B24
25	13	White	Red		A25	A25	65	33	White	Red		B25	B25
26			Black		A26	A26	66			Black		B26	B26
27	14	Yellow	Red		A27	A27	67	34	Yellow	Red		B27	B27
28			Black		A28	A28	68			Black		B28	B28
29	15	Pink	Red		A29	A29	69	35	Pink	Red		B29	B29
30			Black		A30	A30	70			Black		B30	B30
31	16	Orange	Red	:	A31	A31	71	36	Orange	Red		B31	B31
32			Black		A32	A32	72			Black		B32	B32
33	17	Gray	Red		A33	A33	73	37	Gray	Red		B33	B33
34			Black		A34	A34	74			Black		B34	B34
35	18	White	Red		A35	A35	75	38	White	Red		B35	B35
36			Black		A36	A36	76			Black		B36	B36
37	19	Yellow	Red		A37	A37	77	39	Yellow	Red		B37	B37
38			Black		A38	A38	78			Black		B38	B38
39	20	Pink	Red		A39	A39	79	40	Pink	Red		B39	B39
40			Black		A40	A40	80			Black		B40	B40

Standard wiring table (60 pin)

Wire No.	Twist No.	Wire Color	Mark Color	Marking	CN1 Pin No.	CN2 Pin No.
1	1	Orange	Red		A1	A1
2			Black		A2	A2
3	2	Gray	Red		A3	A3
4			Black		A4	A4
5	3	White	Red		A5	A5
6			Black		A6	A6
7	4	Yellow	Red		A7	A7
8			Black		A8	A8
9	5	Pink	Red		A9	A9
10			Black		A10	A10
11	6	Orange	Red	:	A11	A11
12			Black		A12	A12
13	7	Gray	Red		A13	A13
14			Black		A14	A14
15	8	White	Red		A15	A15
16			Black		A16	A16
17	9	Yellow	Red		A17	A17
18			Black		A18	A18
19	10	Pink	Red		A19	A19
20			Black		A20	A20
21	11	Orange	Red	:	A21	A21
22			Black		A22	A22
23	12	Gray	Red		A23	A23
24			Black		A24	A24
25	13	White	Red		A25	A25
26			Black		A26	A26
27	14	Yellow	Red		A27	A27
28			Black		A28	A28
29	15	Pink	Red		A29	A29
30			Black		A30	A30
31	16	Orange	Red	:	B1	B1
32			Black		B2	B2
33	17	Gray	Red		B3	B3
34			Black		B4	B4
35	18	White	Red		B5	B5
36			Black		B6	B6
37	19	Yellow	Red		B7	B7
38			Black		B8	B8
39	20	Pink	Red		B9	B9
40			Black		B10	B10
41	21	Orange	Red	:	B11	B11
42			Black		B12	B12
43	22	Gray	Red		B13	B13
44			Black		B14	B14
45	23	White	Red		B15	B15
46			Black		B16	B16
47	24	Yellow	Red		B17	B17
48			Black		B18	B18
49	25	Pink	Red		B19	B19
50			Black		B20	B20
51	26	Orange	Red	:	B21	B21
52			Black		B22	B22
53	27	Gray	Red		B23	B23
54			Black		B24	B24
55	28	White	Red		B25	B25
56			Black		B26	B26
57	29	Yellow	Red		B27	B27
58			Black		B28	B28
59	30	Pink	Red		B29	B29
60			Black		B30	B30
61	31	Orange	Red	:	B31	B31
62			Black		B32	B32
63	32	Gray	Red		B33	B33
64			Black		B34	B34
65	33	White	Red		B35	B35
66			Black		B36	B36
67	34	Yellow	Red		B37	B37
68			Black		B38	B38

Standard wiring table (68 pin)

Wire No.	Twist No.	Wire Color	Mark Color	Marking	CN1 Pin No.	CN2 Pin No.
1	1	Orange	Red	:	A1	A1
2			Black		A2	A2
3	2	Gray	Red		A3	A3
4			Black		A4	A4
5	3	White	Red		A5	A5
6			Black		A6	A6
7	4	Yellow	Red		A7	A7
8			Black		A8	A8
9	5	Pink	Red		A9	A9
10			Black		A10	A10
11	6	Orange	Red		A11	A11
12			Black		A12	A12
13	7	Gray	Red		A13	A13
14			Black		A14	A14
15	8	White	Red		A15	A15
16			Black		A16	A16
17	9	Yellow	Red		A17	A17
18			Black		A18	A18
19	10	Pink	Red		A19	A19
20			Black		A20	A20
21	11	Orange	Red	A21	A21	
22			Black	A22	A22	
23	12	Gray	Red	A23	A23	
24			Black	A24	A24	
25	13	White	Red	A25	A25	
26			Black	A26	A26	
27	14	Yellow	Red	A27	A27	
28			Black	A28	A28	
29	15	Pink	Red	A29	A29	
30			Black	A30	A30	
31	16	Orange	Red	A31	A31	
32			Black	A32	A32	
33	17	Gray	Red	A33	A33	
34			Black	A34	A34	
35	18	White	Red	B1	B1	
36			Black	B2	B2	
37	19	Yellow	Red	B3	B3	
38			Black	B4	B4	
39	20	Pink	Red	B5	B5	
40			Black	B6	B6	
41	21	Orange	Red	B7	B7	
42			Black	B8	B8	
43	22	Gray	Red	B9	B9	
44			Black	B10	B10	
45	23	White	Red	B11	B11	
46			Black	B12	B12	
47	24	Yellow	Red	B13	B13	
48			Black	B14	B14	
49	25	Pink	Red	B15	B15	
50			Black	B16	B16	
51	26	Orange	Red	B17	B17	
52			Black	B18	B18	
53	27	Gray	Red	B19	B19	
54			Black	B20	B20	
55	28	White	Red	B21	B21	
56			Black	B22	B22	
57	29	Yellow	Red	B23	B23	
58			Black	B24	B24	
59	30	Pink	Red	B25	B25	
60			Black	B26	B26	
61	31	Orange	Red	B27	B27	
62			Black	B28	B28	
63	32	Gray	Red	B29	B29	
64			Black	B30	B30	
65	33	White	Red	B31	B31	
66			Black	B32	B32	
67	34	Yellow	Red	B33	B33	
68			Black	B34	B34	

8840/8855 Standard Wiring Table

Standard wiring table (20pin)

Wire No.	Twist No.	Wire Color	Mark Color	Marking	CN1 Pin No.	CN2 Pin No.
1	1	Orange	Red		A1	A1
2			Black		B1	B1
3	2	Gray	Red		A2	A2
4			Black		B2	B2
5	3	White	Red		A3	A3
6			Black		B3	B3
7	4	Yellow	Red		A4	A4
8			Black		B4	B4
9	5	Pink	Red		A5	A5
10			Black		B5	B5
11	6	Orange	Red	:	A6	A6
12			Black		B6	B6
13	7	Gray	Red		A7	A7
14			Black		B7	B7
15	8	White	Red		A8	A8
16			Black		B8	B8
17	9	Yellow	Red		A9	A9
18			Black		B9	B9
19	10	Pink	Red		A10	A10
20			Black		B10	B10

Semi-Standard wiring table (28 pin)

Wire No.	Twist No.	Wire Color	Mark Color	Marking	CN1 Pin No.	CN2 Pin No.
1	1	Orange	Red		A1	A1
2			Black		B1	B1
3	2	Gray	Red		A2	A2
4			Black		B2	B2
5	3	White	Red		A3	A3
6			Black		B3	B3
7	4	Yellow	Red		A4	A4
8			Black		B4	B4
9	5	Pink	Red		A5	A5
10			Black		B5	B5
11	6	Orange	Red	:	A6	A6
12			Black		B6	B6
13	7	Gray	Red		A7	A7
14			Black		B7	B7
15	8	White	Red		A8	A8
16			Black		B8	B8
17	9	Yellow	Red		A9	A9
18			Black		B9	B9
19	10	Pink	Red		A10	A10
20			Black		B10	B10
21	11	Orange	Red	:	A11	A11
22			Black		B11	B11
23	12	Gray	Red		A12	A12
24			Black		B12	B12
25	13	White	Red		A13	A13
26			Black		B13	B13
27	14	Yellow	Red		A14	A14
28			Black		B14	B14

Semi-Standard wiring table (34 pin)

Wire No.	Twist No.	Wire Color	Mark Color	Marking	CN1 Pin No.	CN2 Pin No.
1	1	Orange	Red		A1	A1
2			Black		B1	B1
3	2	Gray	Red		A2	A2
4			Black		B2	B2
5	3	White	Red		A3	A3
6			Black		B3	B3
7	4	Yellow	Red		A4	A4
8			Black		B4	B4
9	5	Pink	Red		A5	A5
10			Black		B5	B5
11	6	Orange	Red	:	A6	A6
12			Black		B6	B6
13	7	Gray	Red		A7	A7
14			Black		B7	B7
15	8	White	Red		A8	A8
16			Black		B8	B8
17	9	Yellow	Red		A9	A9
18			Black		B9	B9
19	10	Pink	Red		A10	A10
20			Black		B10	B10
21	11	Orange	Red	:	A11	A11
22			Black		B11	B11
23	12	Gray	Red		A12	A12
24			Black		B12	B12
25	13	White	Red		A13	A13
26			Black		B13	B13
27	14	Yellow	Red		A14	A14
28			Black		B14	B14
29	15	Pink	Red		A15	A15
30			Black		B15	B15
31	16	Orange	Red	:	A16	A16
32			Black		B16	B16
33	17	Gray	Red		A17	A17
34			Black		B17	B17
35	18	White	Red			
36			Black			

Semi-Standard wiring table (80 pin)

Wire No.	Twist No.	Wire Color	Mark Color	Marking	CN1 Pin No.	CN2 Pin No.	Wire No.	Twist No.	Wire Color	Mark Color	Marking	CN1 Pin No.	CN2 Pin No.
1	1	Orange	Red		A1	A1	41	21	Orange	Red		A21	A21
2			Black		B1	B1	42			Black		B21	B21
3	2	Gray	Red		A2	A2	43	22	Gray	Red		A22	A22
4			Black		B2	B2	44			Black		B22	B22
5	3	White	Red		A3	A3	45	23	White	Red		A23	A23
6			Black		B3	B3	46			Black		B23	B23
7	4	Yellow	Red		A4	A4	47	24	Yellow	Red		A24	A24
8			Black		B4	B4	48			Black		B24	B24
9	5	Pink	Red		A5	A5	49	25	Pink	Red		A25	A25
10			Black		B5	B5	50			Black		B25	B25
11	6	Orange	Red	:	A6	A6	51	26	Orange	Red		A26	A26
12			Black		B6	B6	52			Black		B26	B26
13	7	Gray	Red		A7	A7	53	27	Gray	Red		A27	A27
14			Black		B7	B7	54			Black		B27	B27
15	8	White	Red		A8	A8	55	28	White	Red		A28	A28
16			Black		B8	B8	56			Black		B28	B28
17	9	Yellow	Red		A9	A9	57	29	Yellow	Red		A29	A29
18			Black		B9	B9	58			Black		B29	B29
19	10	Pink	Red		A10	A10	59	30	Pink	Red		A30	A30
20			Black		B10	B10	60			Black		B30	B30
21	11	Orange	Red	:	A11	A11	61	31	Orange	Red		A31	A31
22			Black		B11	B11	62			Black		B31	B31
23	12	Gray	Red		A12	A12	63	32	Gray	Red		A32	A32
24			Black		B12	B12	64			Black		B32	B32
25	13	White	Red		A13	A13	65	33	White	Red		A33	A33
26			Black		B13	B13	66			Black		B33	B33
27	14	Yellow	Red		A14	A14	67	34	Yellow	Red		A34	A34
28			Black		B14	B14	68			Black		B34	B34
29	15	Pink	Red		A15	A15	69	35	Pink	Red		A35	A35
30			Black		B15	B15	70			Black		B35	B35
31	16	Orange	Red	:	A16	A16	71	36	Orange	Red		A36	A36
32			Black		B16	B16	72			Black		B36	B36
33	17	Gray	Red		A17	A17	73	37	Gray	Red		A37	A37
34			Black		B17	B17	74			Black		B37	B37
35	18	White	Red		A18	A18	75	38	White	Red		A38	A38
36			Black		B18	B18	76			Black		B38	B38
37	19	Yellow	Red		A19	A19	77	39	Yellow	Red		A39	A39
38			Black		B19	B19	78			Black		B39	B39
39	20	Pink	Red		A20	A20	79	40	Pink	Red		A40	A40
40			Black		B20	B20	80			Black		B40	B40

Semi-Standard wiring table (60 pin)

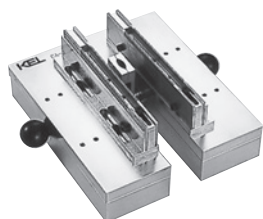
Wire No.	Twist No.	Wire Color	Mark Color	Marking	CN1 Pin No.	CN2 Pin No.
1	1	Orange	Red		A1	A1
2			Black		B1	B1
3	2	Gray	Red		A2	A2
4			Black		B2	B2
5	3	White	Red		A3	A3
6			Black		B3	B3
7	4	Yellow	Red		A4	A4
8			Black		B4	B4
9	5	Pink	Red		A5	A5
10			Black		B5	B5
11	6	Orange	Red	:	A6	A6
12			Black		B6	B6
13	7	Gray	Red		A7	A7
14			Black		B7	B7
15	8	White	Red		A8	A8
16			Black		B8	B8
17	9	Yellow	Red		A9	A9
18			Black		B9	B9
19	10	Pink	Red		A10	A10
20			Black		B10	B10
21	11	Orange	Red	:	A11	A11
22			Black		B11	B11
23	12	Gray	Red		A12	A12
24			Black		B12	B12
25	13	White	Red		A13	A13
26			Black		B13	B13
27	14	Yellow	Red		A14	A14
28			Black		B14	B14
29	15	Pink	Red		A15	A15
30			Black		B15	B15
31	16	Orange	Red	:	A16	A16
32			Black		B16	B16
33	17	Gray	Red		A17	A17
34			Black		B17	B17
35	18	White	Red		A18	A18
36			Black		B18	B18
37	19	Yellow	Red		A19	A19
38			Black		B19	B19
39	20	Pink	Red		A20	A20
40			Black		B20	B20
41	21	Orange	Red	:	A21	A21
42			Black		B21	B21
43	22	Gray	Red		A22	A22
44			Black		B22	B22
45	23	White	Red		A23	A23
46			Black		B23	B23
47	24	Yellow	Red		A24	A24
48			Black		B24	B24
49	25	Pink	Red		A25	A25
50			Black		B25	B25
51	26	Orange	Red	:	A26	A26
52			Black		B26	B26
53	27	Gray	Red		A27	A27
54			Black		B27	B27
55	28	White	Red		A28	A28
56			Black		B28	B28
57	29	Yellow	Red		A29	A29
58			Black		B29	B29
59	30	Pink	Red		A30	A30
60			Black		B30	B30
61	31	Orange	Red	:	A31	A31
62			Black		B31	B31
63	32	Gray	Red		A32	A32
64			Black		B32	B32
65	33	White	Red		A33	A33
66			Black		B33	B33
67	34	Yellow	Red		A34	A34
68			Black		B34	B34

Semi-Standard wiring table (68 pin)

Wire No.	Twist No.	Wire Color	Mark Color	Marking	CN1 Pin No.	CN2 Pin No.
1	1	Orange	Red	,	A1	A1
2			Black		B1	B1
3	2	Gray	Red		A2	A2
4			Black		B2	B2
5	3	White	Red		A3	A3
6			Black		B3	B3
7	4	Yellow	Red		A4	A4
8			Black		B4	B4
9	5	Pink	Red		A5	A5
10			Black		B5	B5
11	6	Orange	Red	:	A6	A6
12			Black		B6	B6
13	7	Gray	Red		A7	A7
14			Black		B7	B7
15	8	White	Red		A8	A8
16			Black		B8	B8
17	9	Yellow	Red		A9	A9
18			Black		B9	B9
19	10	Pink	Red		A10	A10
20			Black		B10	B10
21	11	Orange	Red	:	A11	A11
22			Black		B11	B11
23	12	Gray	Red		A12	A12
24			Black		B12	B12
25	13	White	Red		A13	A13
26			Black		B13	B13
27	14	Yellow	Red		A14	A14
28			Black		B14	B14
29	15	Pink	Red		A15	A15
30			Black		B15	B15
31	16	Orange	Red	---	A16	A16
32			Black		B16	B16
33	17	Gray	Red		A17	A17
34			Black		B17	B17
35	18	White	Red		A18	A18
36			Black		B18	B18
37	19	Yellow	Red		A19	A19
38			Black		B19	B19
39	20	Pink	Red		A20	A20
40			Black		B20	B20
41	21	Orange	Red	----	A21	A21
42			Black		B21	B21
43	22	Gray	Red	(Continuation)	A22	A22
44			Black		B22	B22
45	23	White	Red		A23	A23
46			Black		B23	B23
47	24	Yellow	Red		A24	A24
48			Black		B24	B24
49	25	Pink	Red		A25	A25
50			Black		B25	B25
51	26	Orange	Red	-	A26	A26
52			Black		B26	B26
53	27	Gray	Red		A27	A27
54			Black		B27	B27
55	28	White	Red		A28	A28
56			Black		B28	B28
57	29	Yellow	Red		A29	A29
58			Black		B29	B29
59	30	Pink	Red		A30	A30
60			Black		B30	B30
61	31	Orange	Red	-	A31	A31
62			Black		B31	B31
63	32	Gray	Red		A32	A32
64			Black		B32	B32
65	33	White	Red		A33	A33
66			Black		B33	B33
67	34	Yellow	Red		A34	A34
68			Black		B34	B34

CABLE ASSEMBLY TOOLS

CA-10-1 Cable assembly base for discrete wire



Base for use with pusher and combs

CA-10-2 Pusher



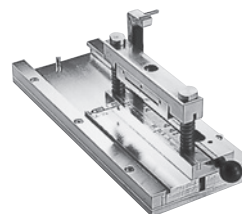
For pressing discrete wires in CA-10-3 and CA-10-4 comb.

CA-10-4(for $\phi 0.62$) Comb



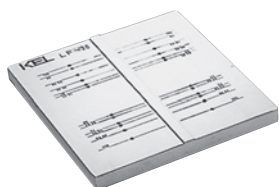
Aligns discrete wires in cover of the connector

CA-30 Cable assembly base for laminated wire



Press laminated cable into the cover of the connector.

LF-30-1 Locating Fixture



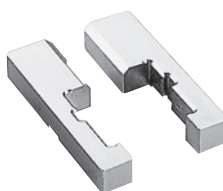
Terminates 8840/55 to laminated or discrete wire.

LF-30-2 Guide



Positions 8840 for termination

LF-30-3 Guide



Positions 8855 for termination

LF-30-4 Seating platen



Applies pressure for termination of 8840/55

◆ Assembly tool combination

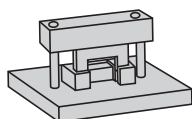
Jig		Hand press	Cable assembly base	Pusher	Comb	Locating fixture	Guide	Seating platen	Option
Series									
8840 Series (Receptacle)	Discrete wire cable	HP-12	CA-10-1	CA-10-2	CA-10-3 CA-10-4*	LF-30-1	LF-30-2	LF-30-4	ST-10 Sliding base
	Laminated cable		Cable assembly base for laminated wire CA-30						
8855 Series (Cable plug)	Discrete wire cable		CA-10-A	CA-10-2	CA-10-3 CA-10-4*		LF-30-3		
	Laminated cable		Cable assembly base for laminated wire CA-30						

(Notice)When you want to use discrete wire, you need the additional cable cutter (CT-14)

*CA-10-3:For #28 AWG, CA-10-4:For #30 AWG

OPTIONAL TOOLING

CT-14 Cutting jig



HP-12 Hand press



ST 10 Sliding base



Sliding base increases output for all types of 8840/55 assemblies, and can be used with all assembly tooling in HP-12 press.