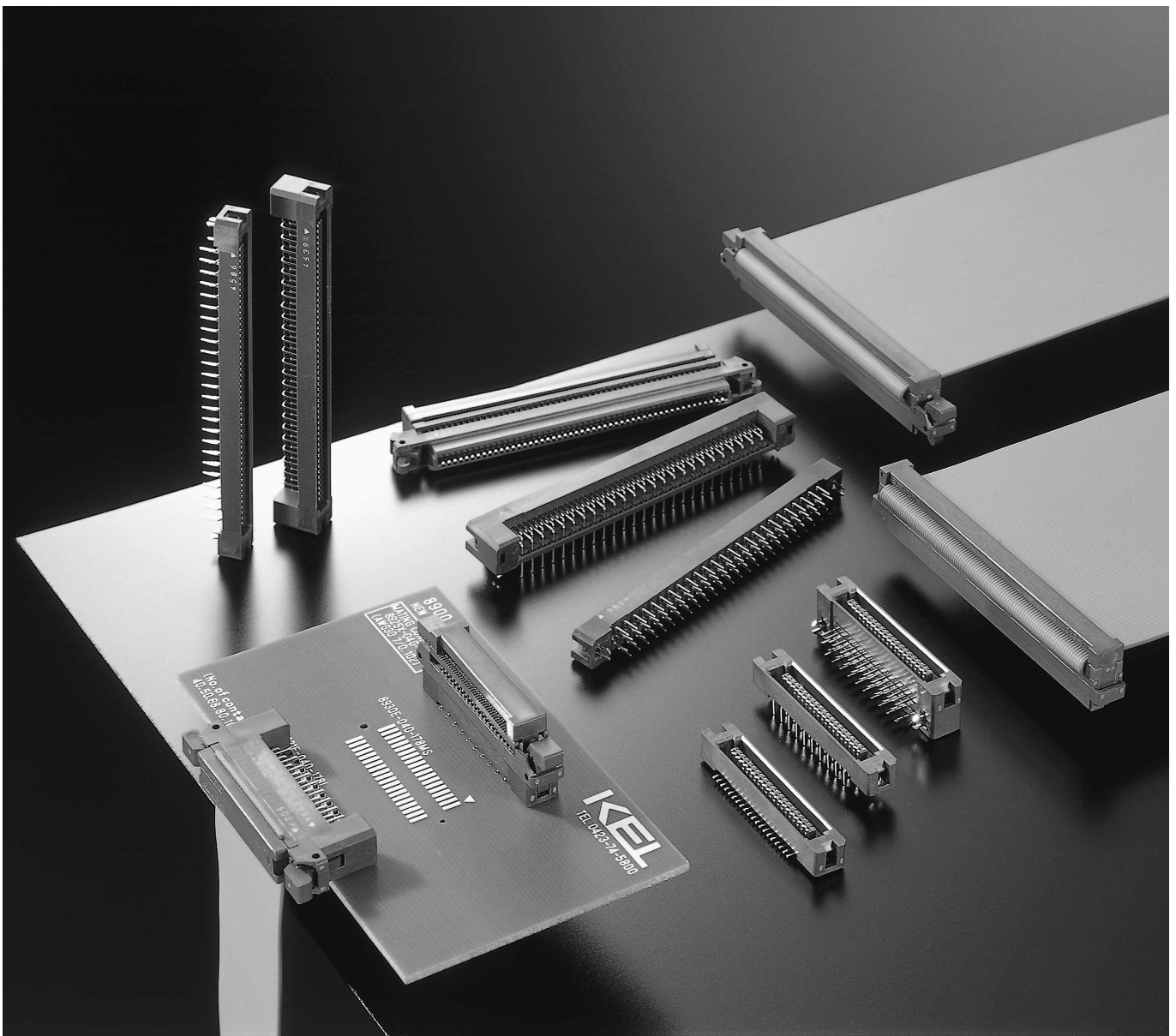


**IDC for 25 mil(0.635mm) flat cable with
One-touch locking ejector system.
50mil(1.27mm) PITCH 2PIECE CONNECTOR**

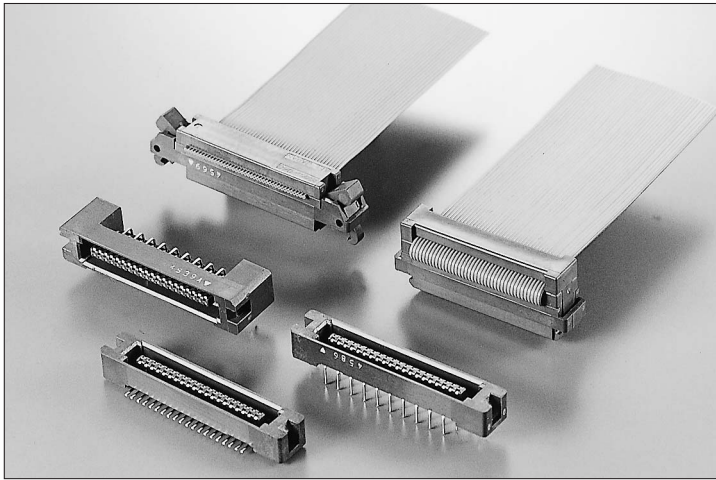
8925(E) SERIES



Distributed by:

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Via Regina Pacis, 54/c - I 41049 Sassuolo - (MO)
Tel: (+39) 0536 811616 - **Fax:** (+39) 0536 811500
E-mail: bce@bce.it • **Home Page :** www.bce.it



FEATURES

- Mating process is reliable and self-aligning
- Low insertion and withdrawal force
- Insulator protects contacts from damage
- Mating height is only 11.8mm (8925R)
- Ability to make “daisy chain” cable assemblies
- Cable connector (Receptacle) is able to mate with 8913 series
- One-touch locking ejector system (8925E and 8925R series)
- Board connector variations: Straight, Right angle and SMT
- RoHS compliance

SPECIFICATIONS

- Insulator : Receptacle (8925E/8925R/8925); Glass-filled Nylon 66 (UL 94V-0), Brown
 Plug (8930E/8931E); Glass-filled PPS (UL 94V-0), Brown
- Contact material : Copper alloy
- Plating : Contact area ; 0.05μm min. Gold over Nickel
 Terminal area ; Gold over Nickel
- Current rating : 0.5A per contact
- Contact resistance : 40mΩ max.
- Dielectric withstanding voltage : 300V AC for 1 minute
- Insulation resistance : 1,000MΩ min. at 250V DC
- Flat cable : #30 AWG (7/0.102), 0.635mm (25mil) pitch
- Insulation force(max.): 20 pin / 1.9kg, 30 pin / 2.9kg
 40 pin / 3.8kg, 50 pin / 4.8kg
 60 pin / 5.7kg, 68 pin / 6.5kg
 80 pin / 7.6kg, 100 pin / 9.5kg
- Withdrawal force(min.): 20 pin / 0.3kg, 30 pin / 0.4kg
 (w / o locking force) 40 pin / 0.6kg, 50 pin / 0.7kg
 60 pin / 0.9kg, 68 pin / 1.0kg
 80 pin / 1.2kg, 100 pin / 1.5kg
- Operating temperature : -55°C to +85°C

ORDER CODE

■RECEPTACLE(For Cable)

8925 - [] - **179** - **F**

- Series name
 8925 : Non ejector type, With strain relief (Except 20, 30, 60 pins)
 8925E : Ejector type, With strain relief
 8925R : Ejector type, Without strain relief
- Number of contacts
 020 : 20 pin 030 : 30 pin
 040 : 40 pin 050 : 50 pin
 060 : 60 pin 068 : 68 pin
 080 : 80 pin 100 : 100 pin
- Contact name
- F : RoHS Compliance

■PLUG(For PCB)

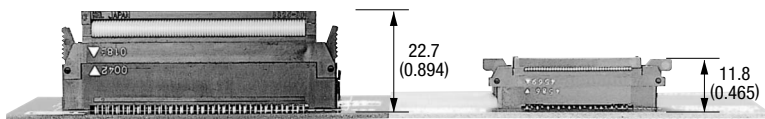
893 [E] - [] - **178** [] - **F**

- Series name
 8930E : SMT
 8931E : Through hole, With hooks
- Number of contacts
 020 : 20 pin
 030 : 30 pin
 040 : 40 pin
 050 : 50 pin
 060 : 60 pin
 068 : 68 pin
 080 : 80 pin
 100 : 100 pin
- Contact tail style
 S : Straight, Through hole
 L : Right angle, Through hole
 MS : Straight, SMT (8930E)
- Contact name
- F : RoHS Compliance

PRODUCT CONCEPT AND FEATURES

Standard Type

Low Profile Type



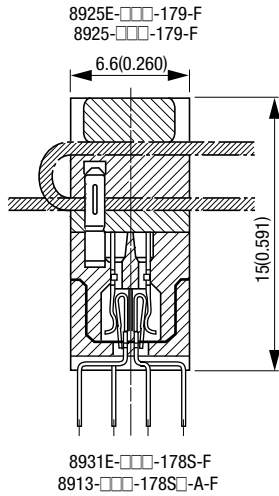
8825E / 8830E

8925R / 8930E

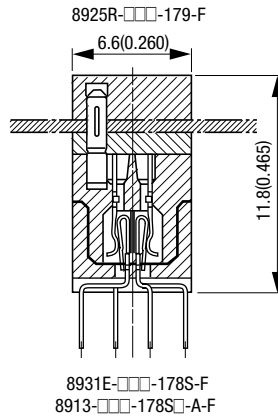
● The 8925(E/R) series uses the same proven contact design as the 8900 series of board-to-board connectors. In addition, this low profile IDC connector system features a new locking ejector mechanism. The 8925R/8930E series has a mated height of 11.8mm which is significantly less than previous IDC connector systems. (KEL 8825E/8830E series)

Mating Variations

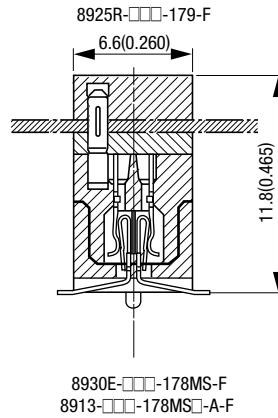
Unit:mm(inch)



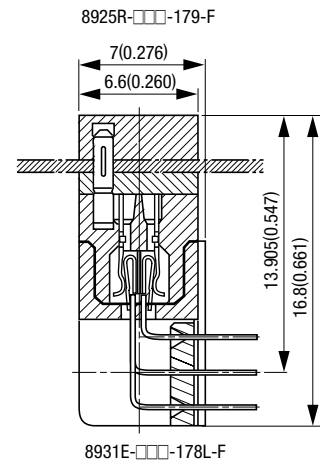
With Strain Relief



Without Strain Relief



Without Strain Relief



Without Strain Relief

8925(E) Series Mating Combination

PLUG CONNECTOR	RECEPTACLE CONNECTOR		
	8925-□□-179-F	8925E-□□-179-F	8925R-□□-179-F
8911-□□-178S□-A-F	No	No	No
8911-□□-178S□-C-F	No	No	No
8913-□□-178S□-A-F	△ Mated height:15(0.591)	□ Mated height:15(0.591)	□ Mated height:11.8(0.465)
8913-□□-178S□-C-F	△ Mated height:17(0.669)	□ Mated height:17(0.669)	□ Mated height:13.8(0.543)
8911-□□-178L□-F	No	No	No
8913-□□-178MS□-A-F	△ Mated height:15(0.591)	□ Mated height:15(0.591)	□ Mated height:11.8(0.465)
8931E-□□-178S-F	○ Mated height:15(0.591)	○ Mated height:15(0.591)	○ Mated height:11.8(0.465)
8931E-□□-178L-F	○ Mated distance:20(0.787)	○ Mated distance:20(0.787)	○ Mated distance:16.8(0.661)
8930E-□□-178MS-F	○ Mated height:15(0.591)	○ Mated height:15(0.591)	○ Mated height:11.8(0.465)

Note: △ 40, 50, 80, and 100 pins are available

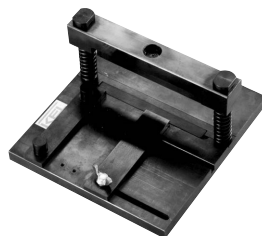
□ 20, 30, 40, 50, 60, 80, and 100 pins are available without locking ejector system

Termination Equipment

■Hand Press(HP-12)



■Cable Trimmer(CT-15)



■Locating Fixture(LF-40)



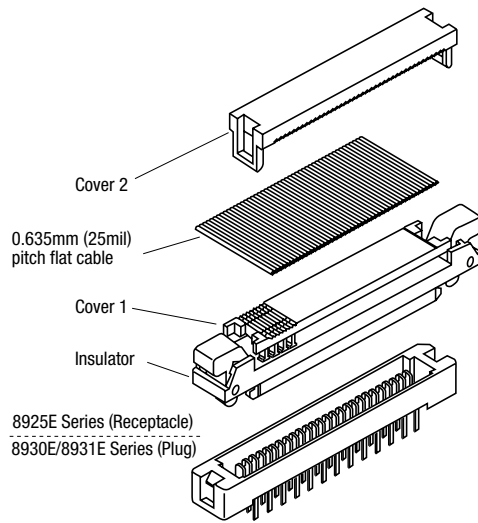
■Seating Platen



*Specifications and dimensions of Termination equipment are subject to change without notice.

Product Concept and Features

(Exploded View)



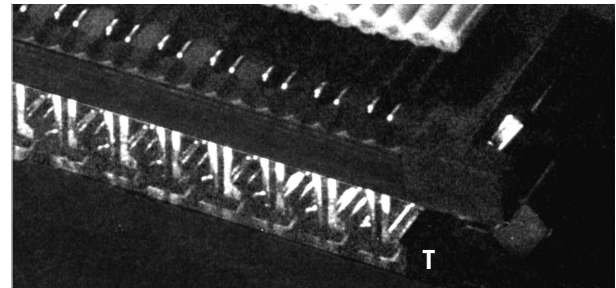
■ Highly reliable and original termination form

The terminating process of 8925E 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.

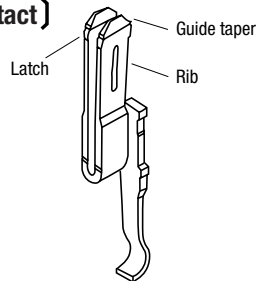
The contacts are held in position by the insulator body. The tips of the contact forks with guide taper and latch are sharp and break through the cable sheath to provide a gas tight termination.

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

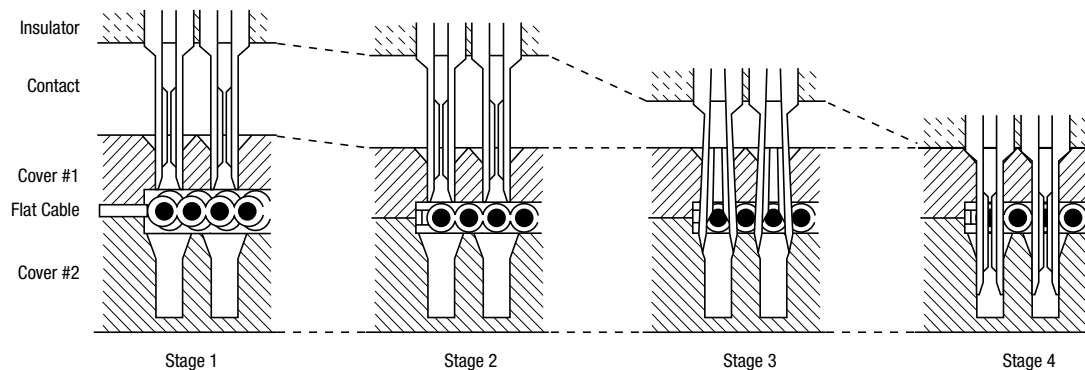
The connector can be terminated with a minimum of special tooling in a standard press as well as a press for MIL-STD type connectors.



(8925(E) Series contact)



(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.

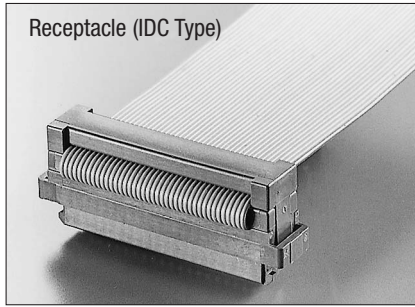


The contacts terminate the conductor and slide into Cover #2. The contact forks are compressed by Cover #2 and form a gas tight termination.

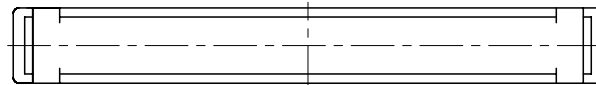
The reliability of the termination process depends on maintaining proper alignment of the cable to the connector, the contact to the conductor, and the stability of contact in the connector. The design of the 8925(E) satisfies the requirements as explained above.

8925-□□□-179-F (Receptacle, Without locking ejectors)

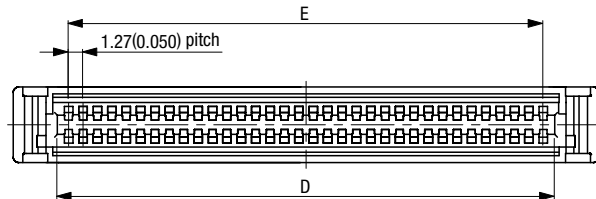
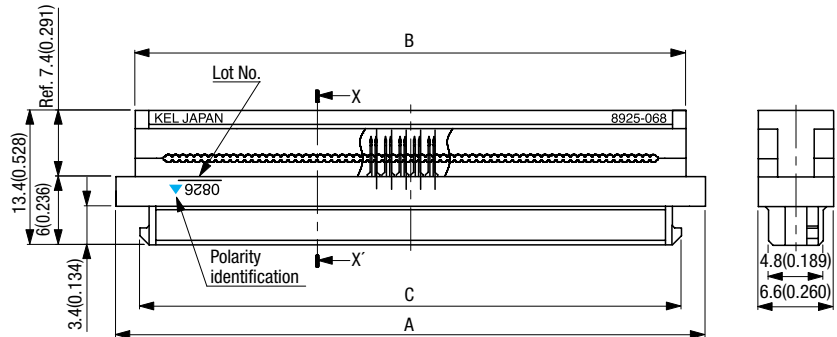
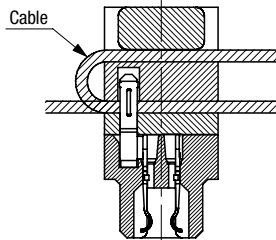
Unit:mm(inch)



Receptacle (IDC Type)



X-X' Cross Section



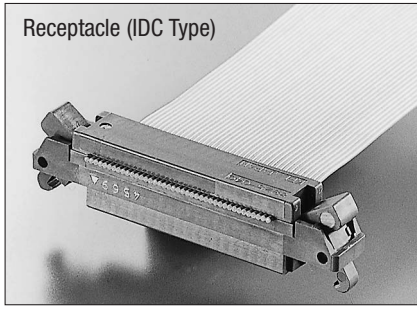
Packaging style
Pipe

Product Table / Dimensions

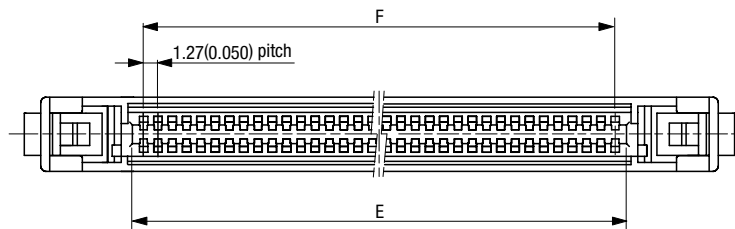
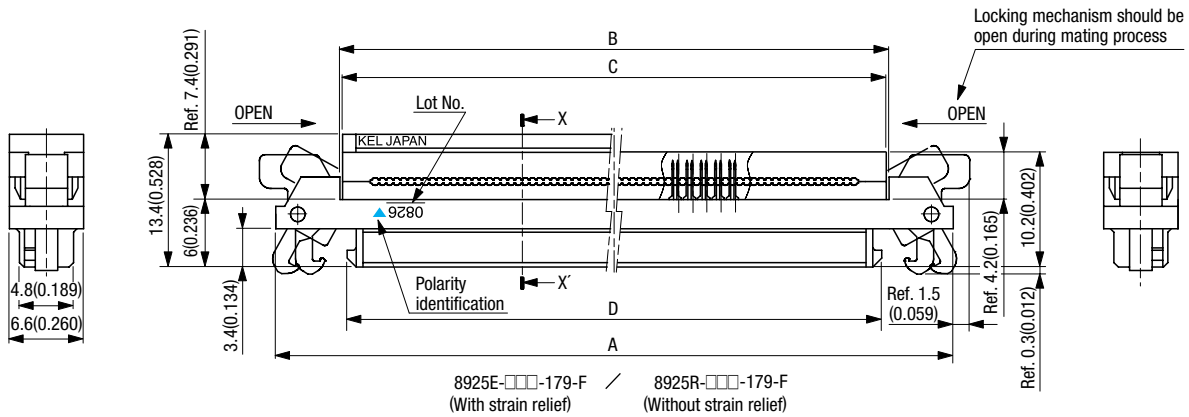
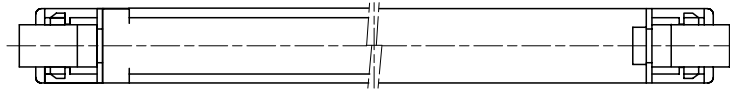
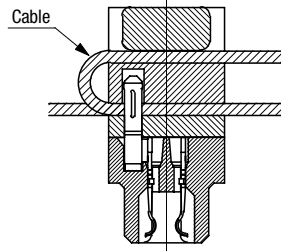
No. of contacts	Part Number	A	B	C	D	E	Number of packaging
40	8925-040-179-F	33.93 (1.336)	30.53 (1.201)	29.73 (1.170)	26.13 (1.029)	24.13 (0.950)	15
50	8925-050-179-F	40.28 (1.586)	36.88 (1.452)	36.08 (1.420)	32.48 (1.279)	30.48 (1.200)	12
68	8925-068-179-F	51.71 (2.036)	48.31 (1.902)	47.51 (1.870)	43.91 (1.729)	41.91 (1.650)	10
80	8925-080-179-F	59.33 (2.336)	55.93 (2.202)	55.13 (2.170)	51.53 (2.028)	49.53 (1.950)	8
100	8925-100-179-F	72.03 (2.836)	68.63 (2.702)	67.83 (2.670)	64.23 (2.529)	62.23 (2.450)	7

8925E/8925R-□□□-179-F (Receptacle, With locking ejectors)

Unit:mm(inch)



X-X' Cross Section



■ Product Table / Dimensions

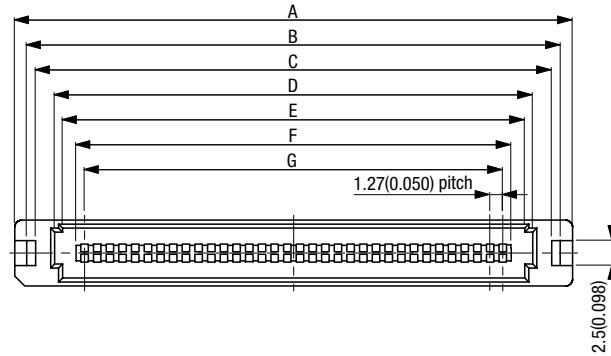
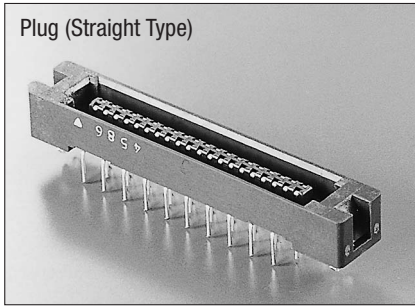
No. of contacts	Part Number	Packaging style						Number of packaging
		A	B	C	D	E	F	
20	8925E-020-179-F	29.63 (1.167)	18.23 (0.718)	17.83 (0.702)	17.03 (0.670)	13.43 (0.529)	11.43 (0.450)	15
	8925R-020-179-F							
30	8925E-030-179-F	35.98 (1.417)	24.58 (0.968)	24.18 (0.952)	23.38 (0.920)	19.78 (0.779)	17.78 (0.700)	13
	8925R-030-179-F							
40	8925E-040-179-F	42.33 (1.667)	30.93 (1.218)	30.53 (1.202)	29.73 (1.170)	26.13 (1.029)	24.13 (0.950)	11
	8925R-040-179-F							
50	8925E-050-179-F	48.68 (1.917)	37.28 (1.468)	36.88 (1.452)	36.08 (1.420)	32.48 (1.279)	30.48 (1.200)	10
	8925R-050-179-F							

No. of contacts	Part Number	Packaging style						Number of packaging
		A	B	C	D	E	F	
60	8925E-060-179-F	55.03 (2.167)	43.63 (1.718)	43.23 (1.702)	42.43 (1.670)	38.83 (1.529)	36.83 (1.450)	8
	8925R-060-179-F							
68	8925E-068-179-F	60.11 (2.367)	48.71 (1.918)	48.31 (1.902)	47.51 (1.870)	43.91 (1.729)	41.91 (1.650)	8
	8925R-068-179-F							
80	8925E-080-179-F	67.73 (2.667)	56.33 (2.218)	55.93 (2.202)	55.13 (2.170)	51.53 (2.029)	49.53 (1.950)	7
	8925R-080-179-F							
100	8925E-100-179-F	80.43 (3.167)	69.03 (2.718)	68.63 (2.702)	67.83 (2.670)	64.23 (2.529)	62.23 (2.450)	6
	8925R-100-179-F							

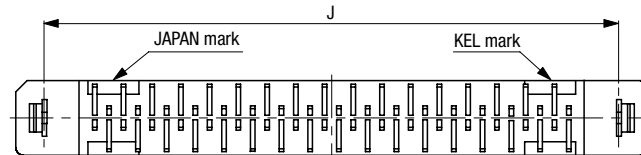
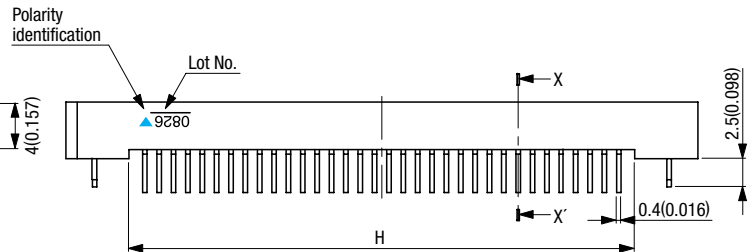
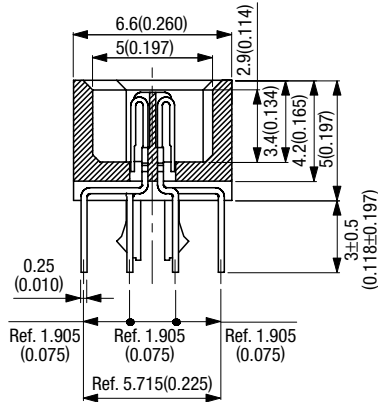
8931E-□□□-178S-F (Plug, With flanges and hooks)

Unit:mm(inch)

Plug (Straight Type)

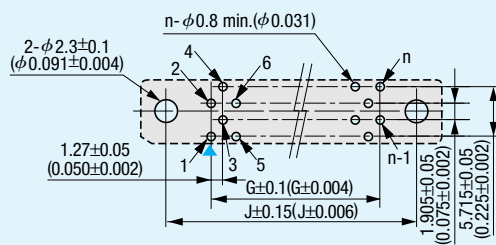


X-X' Cross Section

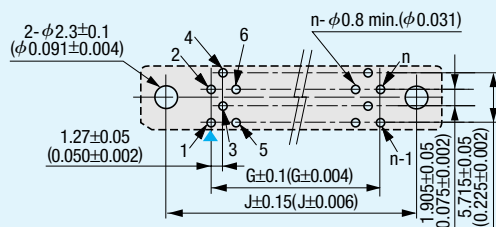


Printed Circuit Board Layout
(Component Side View)

For 20,40,60,68,80,100 contacts



For 30,50 contacts



▼=Polarity identification
Recommended PCB Thickness $t=1.6\pm 0.19(0.063\pm 0.007)$
"n" is number of contacts.

Packaging style
Pipe

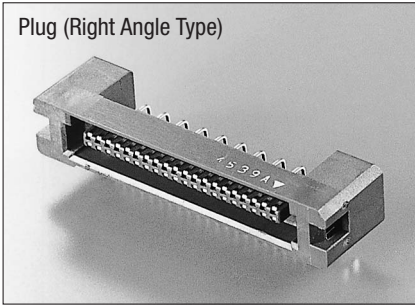
Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	E	F	G	H	J	Number of packaging
20	8931E-020-178S-F	25.43 (1.001)	23.03 (0.906)	21.23 (0.836)	17.43 (0.686)	15.83 (0.623)	13.13 (0.517)	11.43 (0.450)	14.23 (0.560)	20.32 (0.800)	20
30	8931E-030-178S-F	31.78 (1.251)	29.38 (1.157)	27.58 (1.086)	23.78 (0.936)	22.18 (0.873)	19.48 (0.767)	17.78 (0.700)	20.58 (0.810)	26.67 (1.050)	16
40	8931E-040-178S-F	38.13 (1.501)	35.73 (1.407)	33.93 (1.336)	30.13 (1.186)	28.53 (1.123)	25.83 (1.017)	24.13 (0.950)	26.93 (1.060)	33.02 (1.300)	13
50	8931E-050-178S-F	44.48 (1.751)	42.08 (1.657)	40.28 (1.586)	36.48 (1.436)	34.88 (1.373)	32.18 (1.267)	30.48 (1.200)	33.28 (1.310)	39.37 (1.550)	11
60	8931E-060-178S-F	50.83 (2.001)	48.43 (1.907)	46.63 (1.836)	42.83 (1.686)	41.23 (1.623)	38.53 (1.517)	36.83 (1.450)	39.63 (1.560)	45.72 (1.800)	10
68	8931E-068-178S-F	55.91 (2.201)	53.51 (2.107)	51.71 (2.036)	47.91 (1.886)	46.31 (1.823)	43.61 (1.717)	41.91 (1.650)	44.71 (1.760)	50.80 (2.000)	9
80	8931E-080-178S-F	63.53 (2.501)	61.13 (2.407)	59.33 (2.336)	55.53 (2.186)	53.93 (2.123)	51.23 (2.017)	49.53 (1.950)	52.33 (2.060)	58.42 (2.300)	7
100	8931E-100-178S-F	76.23 (3.001)	73.83 (2.907)	72.03 (2.836)	68.23 (2.686)	66.63 (2.623)	63.93 (2.517)	62.23 (2.450)	65.03 (2.560)	71.12 (2.800)	6

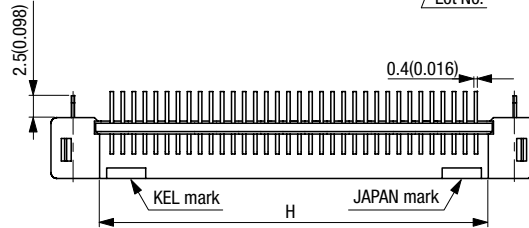
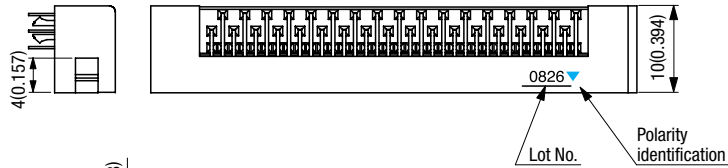
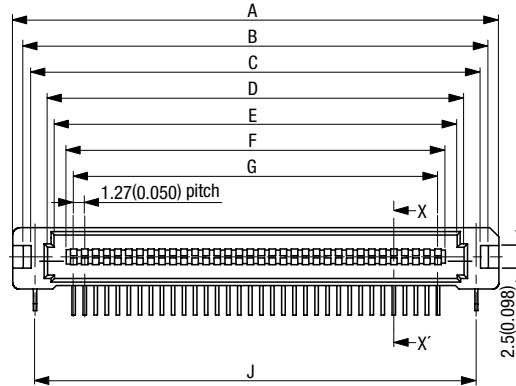
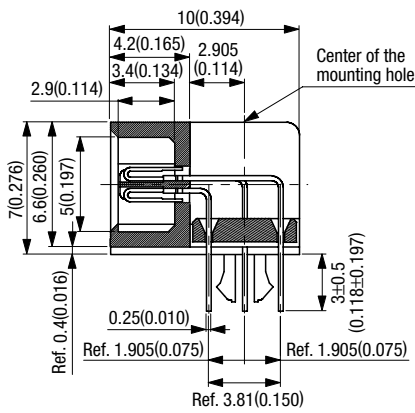
8931E-□□□-178L-F (Plug, With flanges and hooks)

Unit:mm(inch)

Plug (Right Angle Type)

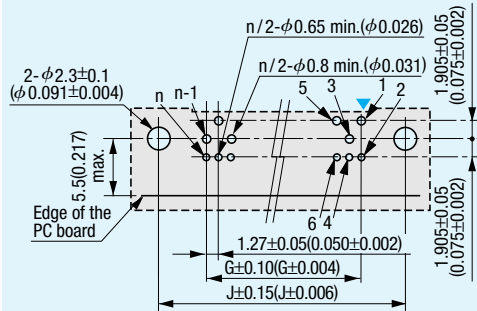


X-X' Cross Section

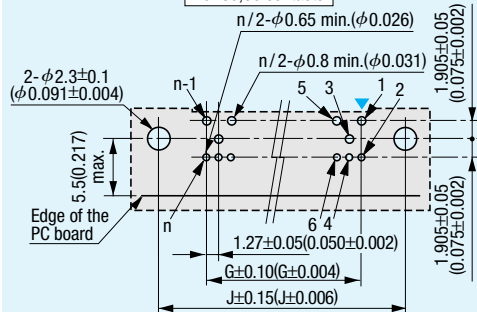


Printed Circuit Board Layout (Component Side View)

For 20,40,60,68,80,100 contacts



For 30,50 contacts



▼=Polarity identification
Recommended PCB Thickness $t=1.6\pm 0.19(0.063\pm 0.007)$
"n" is number of contacts.

Packaging style
Pipe

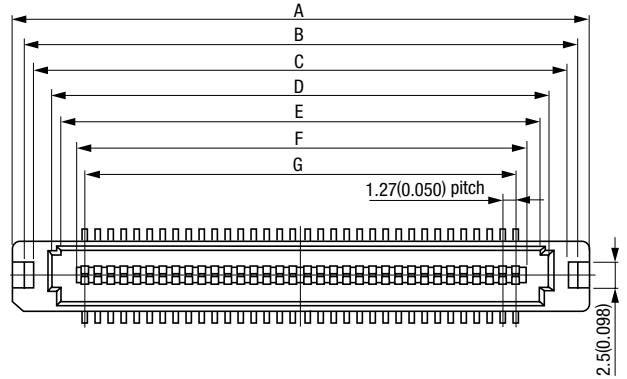
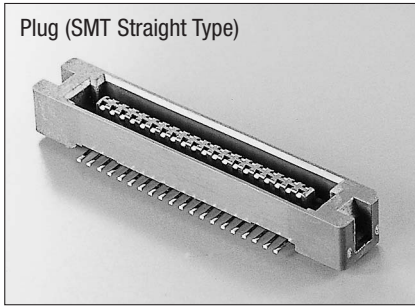
Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	E	F	G	H	J	Number of packaging
20	8931E-020-178L-F	25.43 (1.001)	23.03 (0.907)	21.23 (0.836)	17.43 (0.686)	15.83 (0.623)	13.13 (0.517)	11.43 (0.450)	14.23 (0.560)	20.32 (0.800)	20
30	8931E-030-178L-F	31.78 (1.251)	29.38 (1.157)	27.58 (1.086)	23.78 (0.936)	22.18 (0.873)	19.48 (0.767)	17.78 (0.700)	20.58 (0.810)	26.67 (1.050)	16
40	8931E-040-178L-F	38.13 (1.503)	35.73 (1.407)	33.93 (1.336)	30.13 (1.186)	28.53 (1.123)	25.83 (1.017)	24.13 (0.950)	26.93 (1.060)	33.02 (1.300)	13
50	8931E-050-178L-F	44.48 (1.751)	42.08 (1.657)	40.28 (1.586)	36.48 (1.436)	34.88 (1.373)	32.18 (1.267)	30.48 (1.200)	33.28 (1.310)	39.37 (1.550)	11
60	8931E-060-178L-F	50.83 (2.001)	48.43 (1.907)	46.63 (1.836)	42.83 (1.686)	41.23 (1.623)	38.53 (1.517)	36.83 (1.450)	39.63 (1.560)	45.72 (1.800)	10
68	8931E-068-178L-F	55.91 (2.201)	53.51 (2.107)	51.71 (2.036)	47.91 (1.886)	46.31 (1.823)	43.61 (1.717)	41.91 (1.650)	44.71 (1.760)	50.80 (2.000)	9
80	8931E-080-178L-F	63.53 (2.501)	61.13 (2.407)	59.33 (2.336)	55.53 (2.186)	53.93 (2.123)	51.23 (2.017)	49.53 (1.950)	52.33 (2.060)	58.42 (2.300)	8
100	8931E-100-178L-F	76.23 (3.001)	73.83 (2.907)	72.03 (2.836)	68.23 (2.686)	66.63 (2.623)	63.93 (2.517)	62.23 (2.450)	65.03 (2.560)	71.12 (2.800)	6

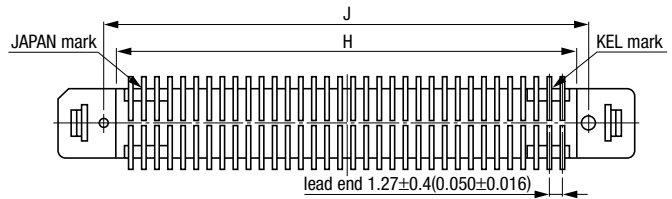
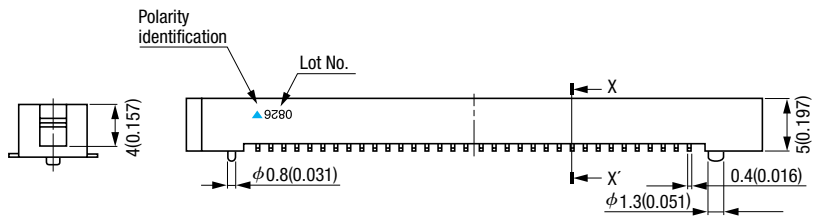
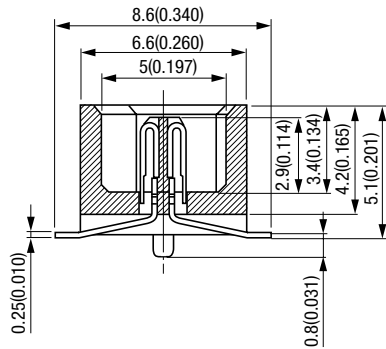
8930E-□□□-178MS-F (Plug)

Unit:mm(inch)

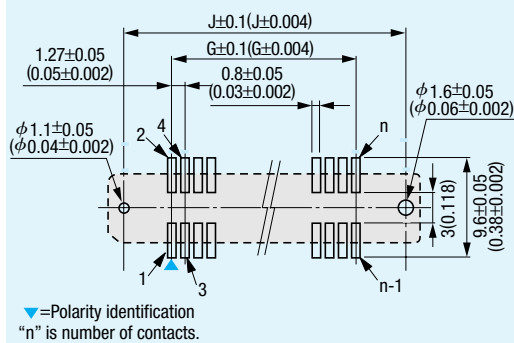
Plug (SMT Straight Type)



X-X' Cross Section



Printed Circuit Board Layout (Component Side View)



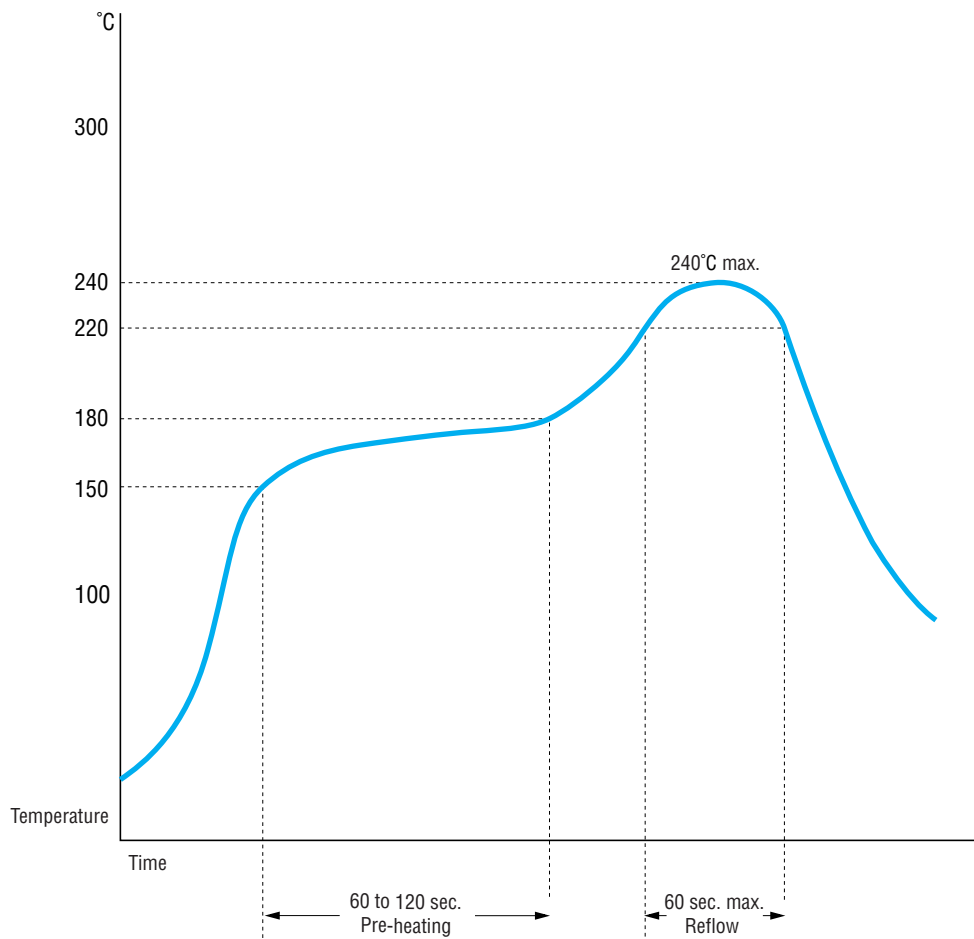
Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	E	F	G	H	J	Number of packaging
20	8930E-020-178MS-F	25.43 (1.001)	23.03 (0.907)	21.23 (0.836)	17.43 (0.686)	15.83 (0.623)	13.13 (0.517)	11.43 (0.450)	14.23 (0.560)	16.51 (0.650)	20
30	8930E-030-178MS-F	31.78 (1.251)	29.38 (1.157)	27.58 (1.086)	23.78 (0.936)	22.18 (0.873)	19.48 (0.767)	17.78 (0.700)	20.58 (0.810)	22.86 (0.900)	16
40	8930E-040-178MS-F	38.13 (1.501)	35.73 (1.407)	33.93 (1.336)	30.13 (1.186)	28.53 (1.123)	25.83 (1.017)	24.13 (0.950)	26.93 (1.060)	29.21 (1.150)	13
50	8930E-050-178MS-F	44.48 (1.751)	42.08 (1.657)	40.28 (1.586)	36.48 (1.436)	34.88 (1.373)	32.18 (1.267)	30.48 (1.200)	33.28 (1.310)	35.56 (1.400)	11
60	8930E-060-178MS-F	50.83 (2.001)	48.43 (1.907)	46.63 (1.836)	42.83 (1.686)	41.23 (1.623)	38.53 (1.517)	36.83 (1.450)	39.63 (1.560)	41.91 (1.650)	10
68	8930E-068-178MS-F	55.91 (2.201)	53.51 (2.107)	51.71 (2.036)	47.91 (1.886)	46.31 (1.823)	43.61 (1.717)	41.91 (1.650)	44.71 (1.760)	46.99 (1.850)	9
80	8930E-080-178MS-F	63.53 (2.501)	61.13 (2.407)	59.33 (2.336)	55.53 (2.186)	53.93 (2.123)	51.23 (2.017)	49.53 (1.950)	52.33 (2.060)	54.61 (2.150)	8
100	8930E-100-178MS-F	76.23 (3.001)	73.83 (2.907)	72.03 (2.836)	68.23 (2.686)	66.63 (2.623)	63.93 (2.517)	62.23 (2.450)	65.03 (2.560)	67.31 (2.650)	6

Packaging style
Pipe

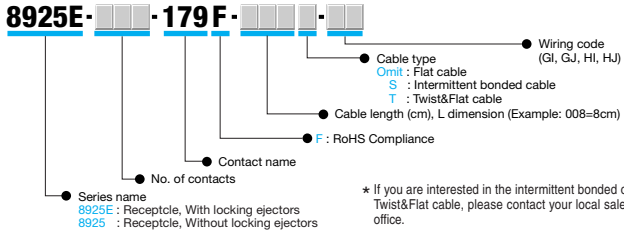
Recommended Soldering Conditions (SMT type)

- Soldering Iron : 300°C or lower, 3 sec. max.
- Solder flux should be applied to PCB and not to contact tails.
- Recommended stencil thickness for solder paste is 0.15mm (0.006")
- Recommended temperature profile for IR reflow as the follows:



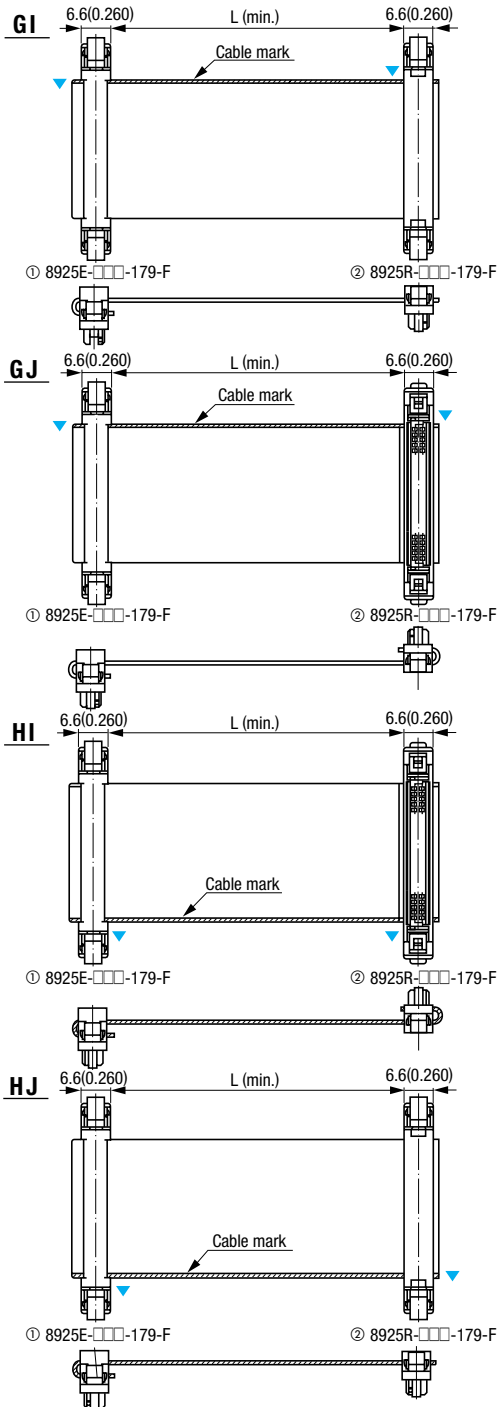
Note: Flux should be applied to PCB not connector tails.

● ORDER CODE



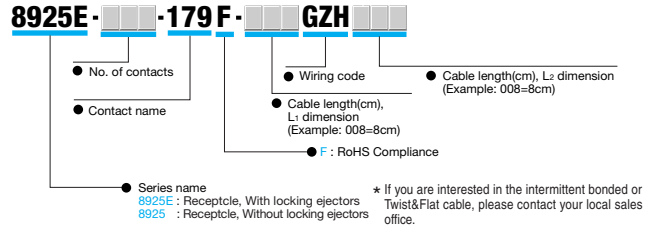
8925E-8925R Cable assemblies

Unit:mm(inch)



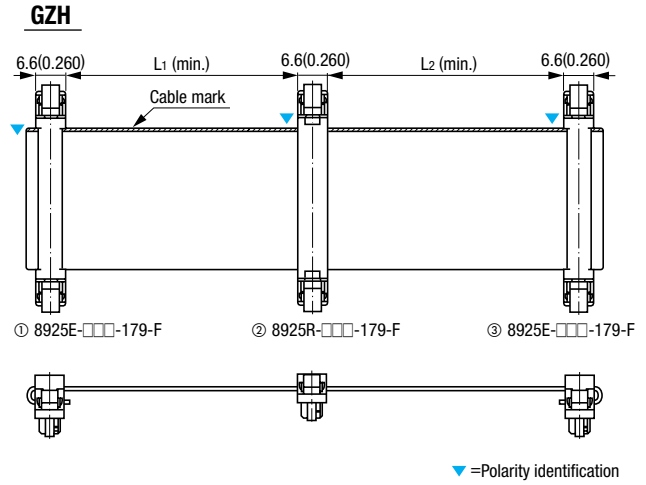
Cable will protrude about 1mm from 8925R connectors. ▼=Polarity identification

● ORDER CODE

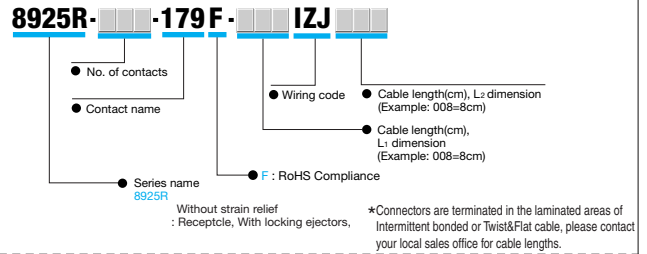


Daisy chain assembly

Unit:mm(inch)

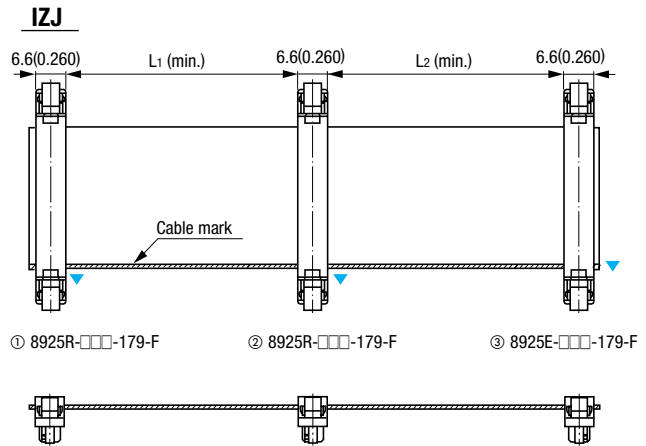


● ORDER CODE



Daisy chain assembly

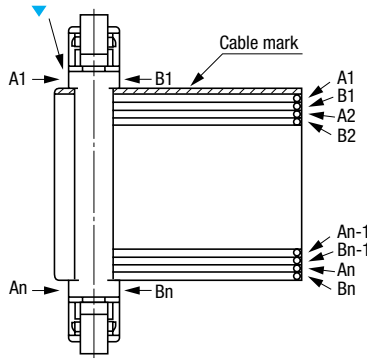
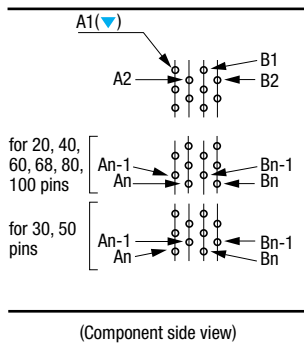
Unit:mm(inch)



Cable will protrude about 1mm from 8925R connectors. ▼=Polarity identification

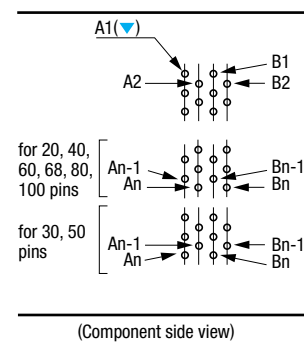
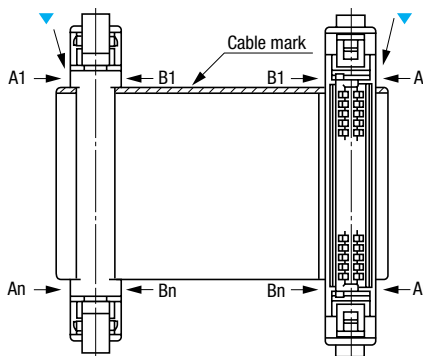
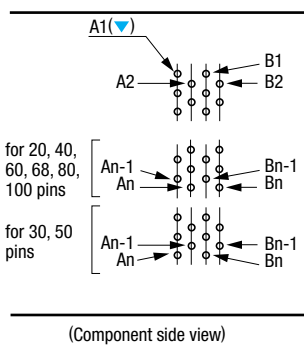
*Intermittent bonded and Twist&Flat cable have a restriction on cable length (L dimension) because they are terminated at the fused part.
*Harness end has an extra of approximate 1mm beyond the connector edge.

Single end assembly (Example: G0 wiring)



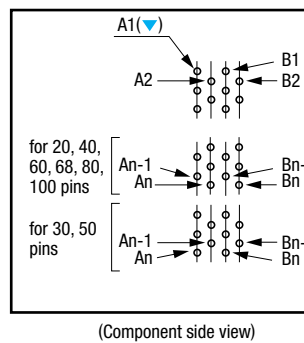
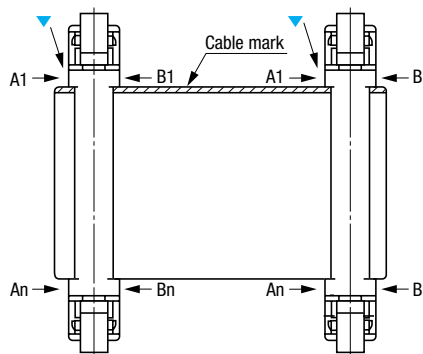
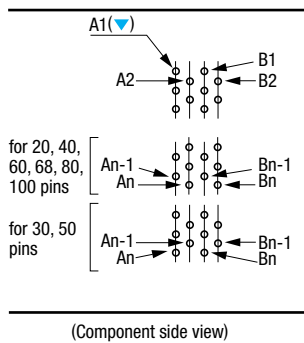
▼=Polarity identification

Double end assembly (Example: GG wiring)



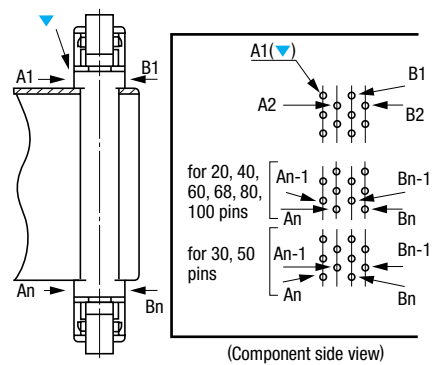
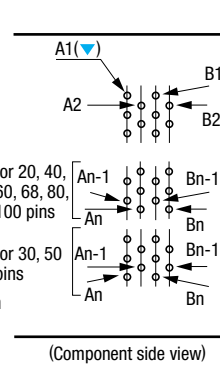
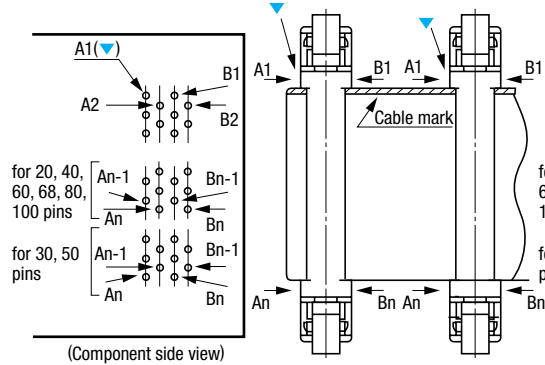
▼=Polarity identification

Double end assembly (Example: GH wiring)

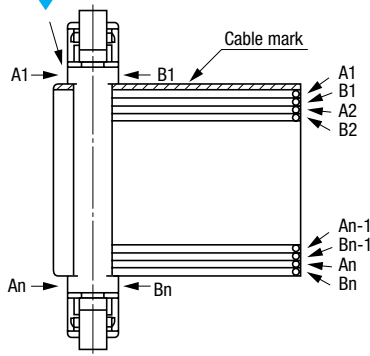
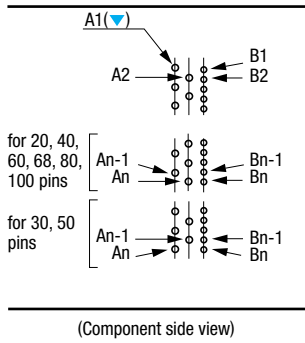


▼=Polarity identification

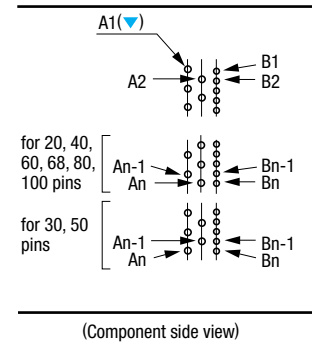
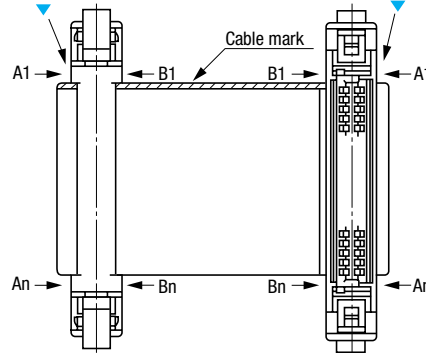
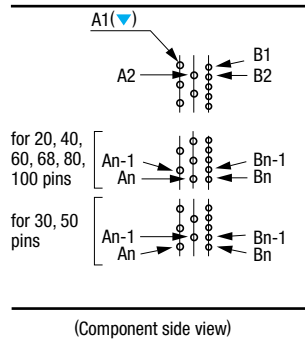
Daisy chain assembly (Example: GZH wiring)



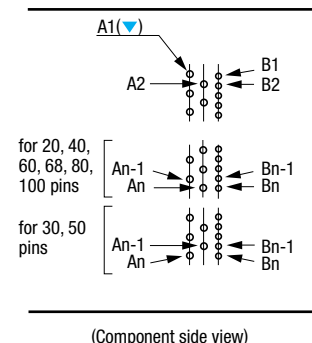
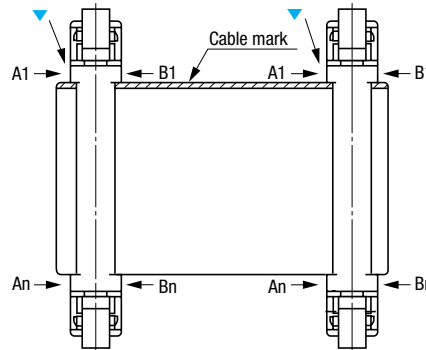
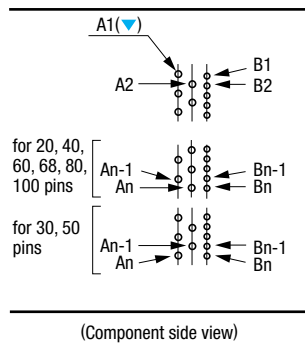
▼=Polarity identification

Single end assembly (Example: G0 wiring)


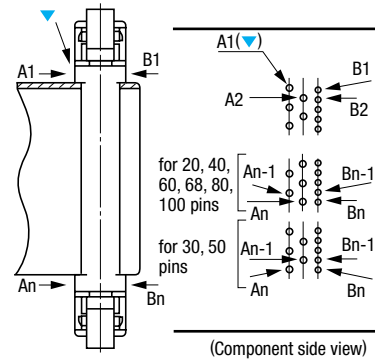
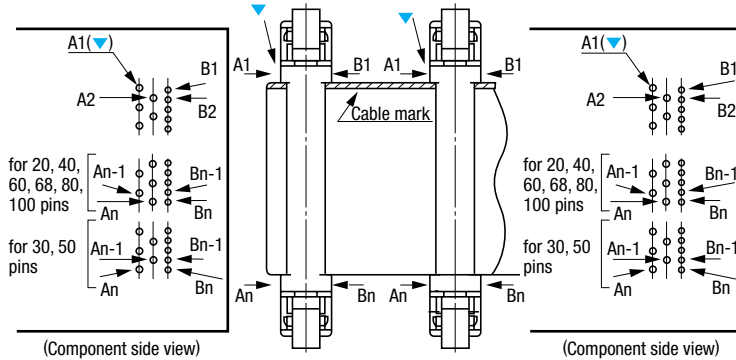
▼=Polarity identification

Double end assembly (Example: GG wiring)


▼=Polarity identification

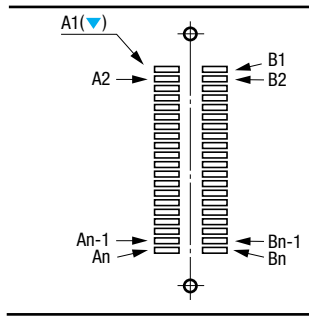
Double end assembly (Example: GH wiring)


▼=Polarity identification

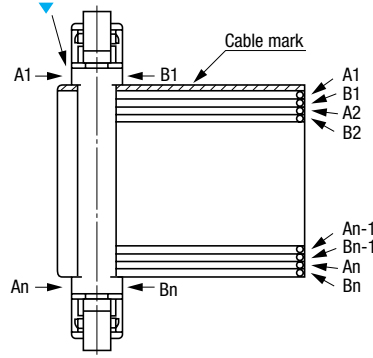
Daisy chain assembly (Example: GZH wiring)


▼=Polarity identification

Single end assembly (Example: GO wiring)

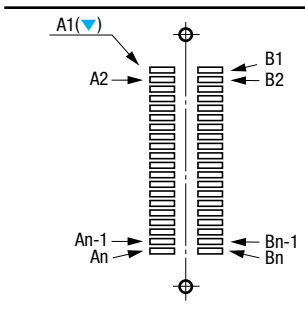


(Component side view)

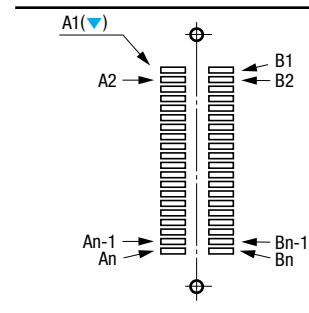
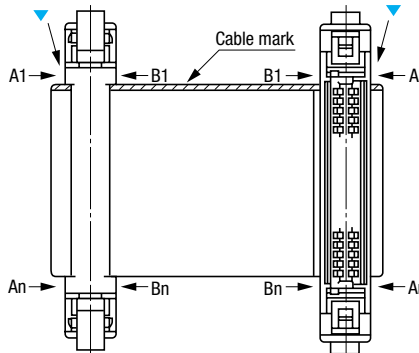


▼=Polarity identification

Double end assembly (Example: GG wiring)



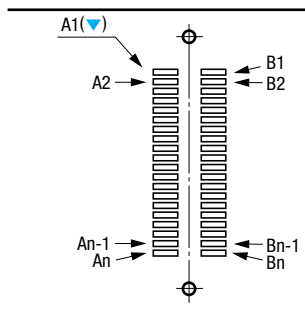
(Component side view)



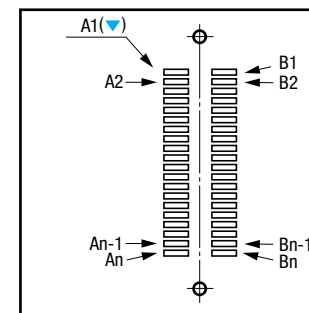
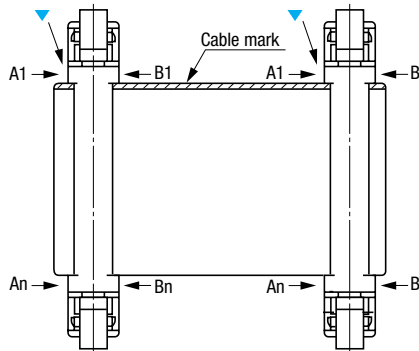
(Component side view)

▼=Polarity identification

Double end assembly (Example: GH wiring)



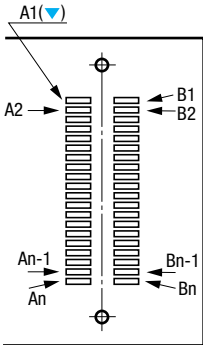
(Component side view)



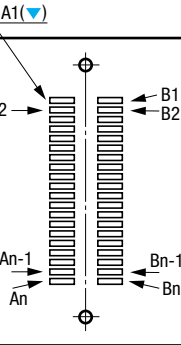
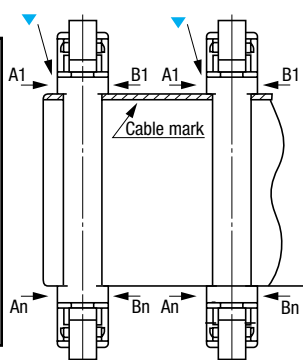
(Component side view)

▼=Polarity identification

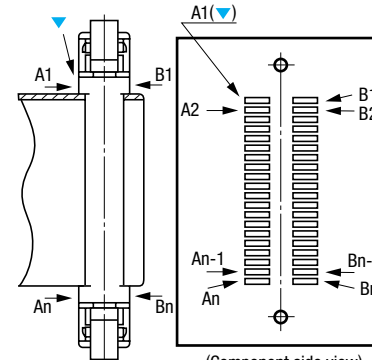
Daisy chain assembly (Example: GZH wiring)



(Component side view)



(Component side view)



(Component side view)

▼=Polarity identification

Specifications and dimensions are subject to change without notice .

