

NEW

K89 series



RoHS/ELV
directive compliant



Mis-mating prevention function
for products with different colors

1row/2row • Panel Lock Type

1row/2row • Thru Type

New Product



Specification

Position	1 row : 3, 5
	2 row : 6, 8, 10, 12, 14, 16, 18, 20
Pitch	2.0mm
Voltage rating	50V
Current rating	3A Max
Operating temperature	-40 ~ 125℃
Corresponding Panel Thickness	Panel Lock Type : t = 1.5mm
	Thru Type : t = 1.4 mm

Characteristic

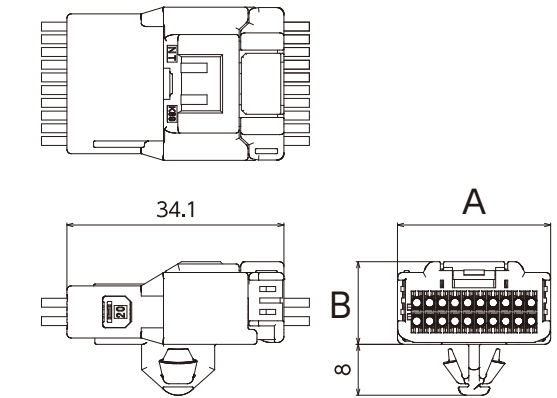
- Prevention of half insertion by inertial locking mechanism
- Polarizing Key structure by color and configurations
- Machine-pressable flat surface on the female housing
- Lock breakage prevention, lock malfunction prevention structure
- Female contacts are shared with those for PCB (K89 series)

※ Please note that the publication information may change it without a notice.

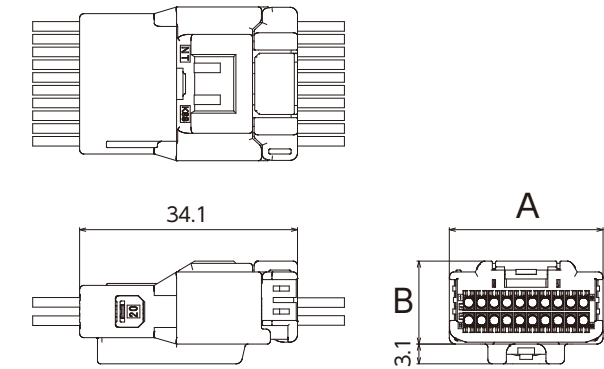
※ The dimensional drawings in this catalog are for reference only; please request a specification sheet before use.

Outline Dimension

1row/2row • Panel Lock Type



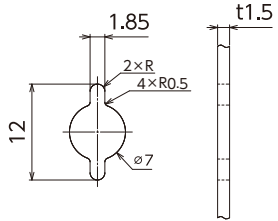
1row/2row • Thru Type



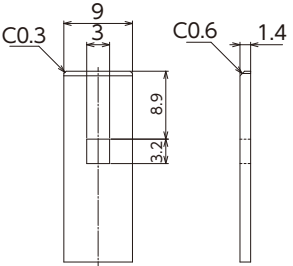
Row	Pos.	Dim. (mm)	
		A	B
1row	3	10.3	8.2
	5	14.1	8.2
2row	6	11.1	13.0
	8	12.1	13.0
	10	14.1	13.0
	12	16.1	13.0
	14	18.1	13.0
	16	20.1	13.0
	18	22.1	13.0
	20	24.1	13.0

Recommended Panel Cutout Dimension

《For Panel Lock Type》



《For Thru Type》



Part No. Construction

K89 △△ - 9 □ * *

1 2 3

1 Product Description : △

Mark	Description	Type
20	Female Housing	1row
40	Female Housing	2row
10	Male Housing	1row-Panel Lock Type
15	Male Housing	1row-Thru Type
30	Male Housing	2row-Panel Lock Type
35	Male Housing	2row-Thru Type
90	Retainer	—

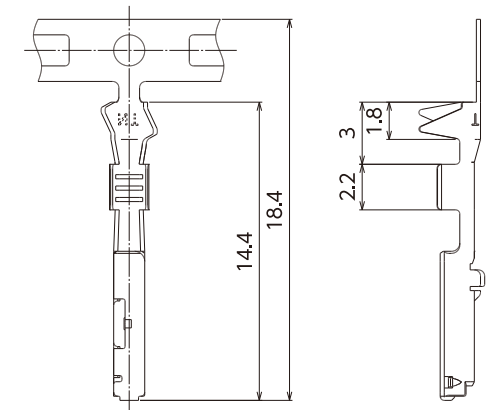
2 Color Code : □

Mark	Color	Applicable Products
1	Black	Male, Female Housing and Retainer
2	White	Male, Female Housing
9	Gray	Retainer

3 Positions : *

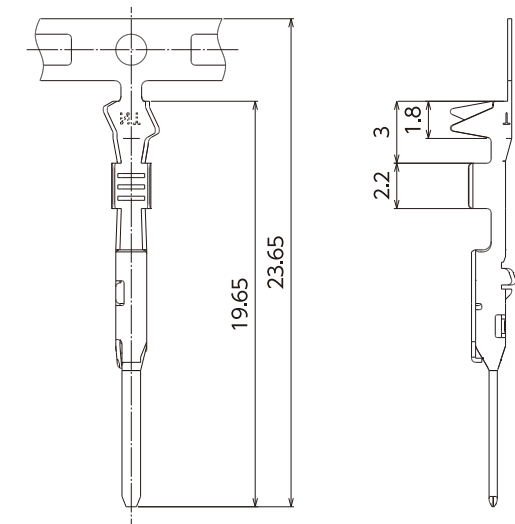
Mark	Applicable Products
3	Male, Female Housing and Retainer
5	Male, Female Housing and Retainer
6	Male, Female Housing and Retainer
8	Male, Female Housing and Retainer
10	Male, Female Housing and Retainer
12	Male, Female Housing and Retainer
14	Male, Female Housing and Retainer
16	Male, Female Housing and Retainer
18	Male, Female Housing and Retainer
20	Male, Female Housing and Retainer

Female Contact



Part No.	Applied Wire Size		Wire O.D. (mm)	Material	Finish
	AWG	mm ²			
172891-M2	24 ~ 22	0.200 ~ 0.382	φ1.3 ~ 1.5	Copper Alloy	Pre-Tin

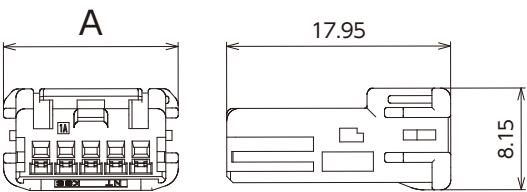
Male Contact



Part No.	Applied Wire Size		Wire O.D. (mm)	Material	Finish
	AWG	mm ²			
181261-M2	24 ~ 22	0.200 ~ 0.382	φ1.3 ~ 1.5	Brass	Pre-Tin

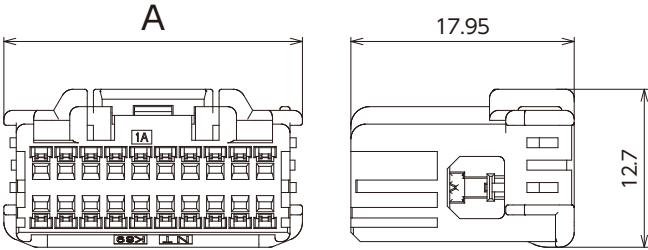
Female Housing

1row Type



Row	Pos.	Part No. (Polarizing Key/Color)		Dim.(mm)	Material
		① Black	② White		
1row	3	K 8920-9103	K 8920-9203	10	PBT
	5	K 8920-9105	K 8920-9205	14.1	

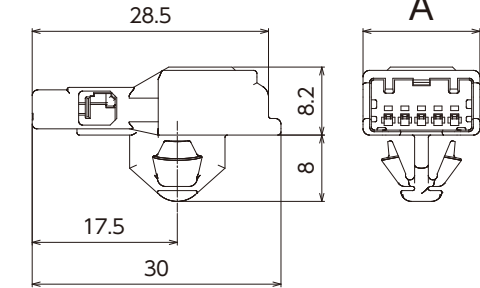
2row Type



Row	Pos.	Part No. (Polarizing Key/Color)		Dim.(mm)	Material
		① Black	② White		
2row	6	K 8940-9106	K 8940-9206	10	PBT
	8	K 8940-9108	K 8940-9208	12	
	10	K 8940-9110	K 8940-9210	14.1	
	12	K 8940-9112	K 8940-9212	16.1	
	14	K 8940-9114	K 8940-9214	18.1	
	16	K 8940-9116	K 8940-9216	20.1	
	18	K 8940-9118	K 8940-9218	22.1	
	20	K 8940-9120	K 8940-9220	24.1	

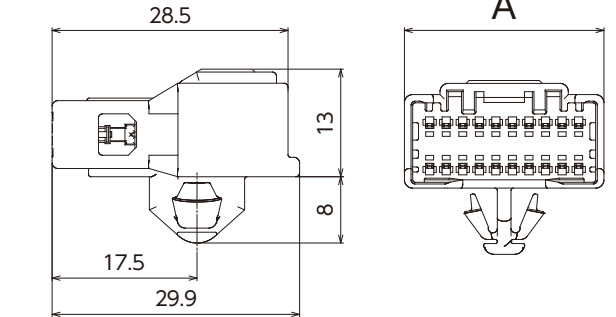
Male Housing

1row · Panel Lock Type



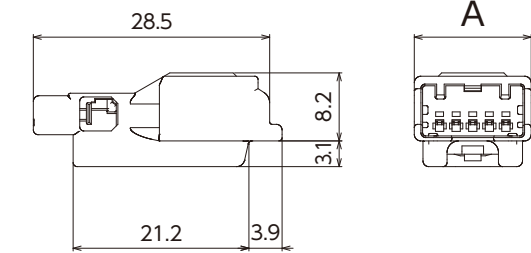
Row	Pos.	Part No. (Polarizing Key/Color)		Dim.(mm)	Material
		① Black	② White		
1row	3	K 8910-9103	K 8910-9203	10.3	PBT
	5	K 8910-9105	K 8910-9205	14.1	

2row · Panel Lock Type



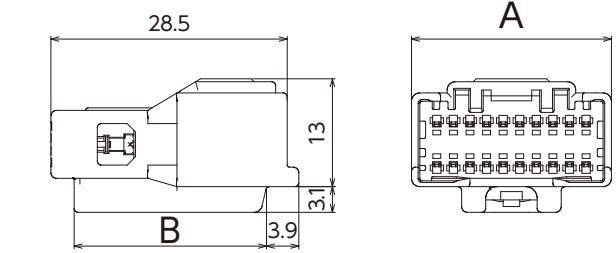
Row	Pos.	Part No. (Polarizing Key/Color)		Dim.(mm)	Material
		①Black	②White	A	
2row	6	K8930-9106	K8930-9206	11.1	PBT
	8	K8930-9108	K8930-9208	12.1	
	10	K8930-9110	K8930-9210	14.1	
	12	K8930-9112	K8930-9212	16.1	
	14	K8930-9114	K8930-9214	18.1	
	16	K8930-9116	K8930-9216	20.1	
	18	K8930-9118	K8930-9218	22.1	
	20	K8930-9120	K8930-9220	24.1	

1row · Thru Type



Row	Pos.	Part No. (Polarizing Key/Color)		Dim.(mm)	Material
		① Black	② White		
1row	5	K 8915-9105	K 8915-9205	14.1	PBT

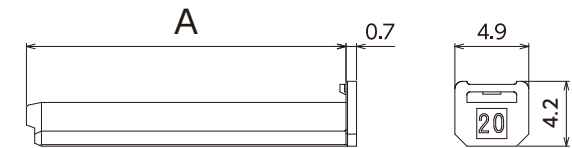
2row · Thru Type



Row	Pos.	Part No. (Polarizing Key/Color)		Dim.(mm)		Material
		① Black	② White	A	B	
2row	10	K 8935-9110	K 8935-9210	14.1	21.2	PBT
	12	(K 8935-9112)	(K 8935-9212)	16.1	21.2	
	14	(K 8935-9114)	(K 8935-9214)	18.1	23.2	
	16	(K 8935-9116)	(K 8935-9216)	20.1	23.2	
	18	(K 8935-9118)	(K 8935-9218)	22.1	23.2	
	20	(K 8935-9120)	(K 8935-9220)	24.1	23.2	

※ () : Planned Products

Retainer



Pos.	Part No. (Color)		Dim.(mm)	Material
	Black	Gray		
3	K 8990-9103	K 8990-9903	7.2	PBT
5	K 8990-9105	K 8990-9905	11.2	
6	K 8990-9106	K 8990-9906	7.2	
8	K 8990-9108	K 8990-9908	9.2	
10	K 8990-9110	K 8990-9910	11.2	
12	K 8990-9112	K 8990-9912	13.2	
14	K 8990-9114	K 8990-9914	15.2	
16	K 8990-9116	K 8990-9916	17.2	
18	K 8990-9118	K 8990-9918	19.2	
20	K 8990-9120	K 8990-9920	21.2	