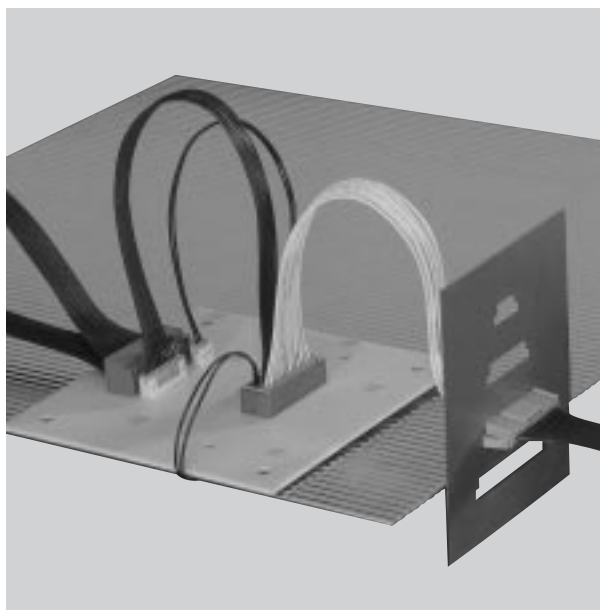


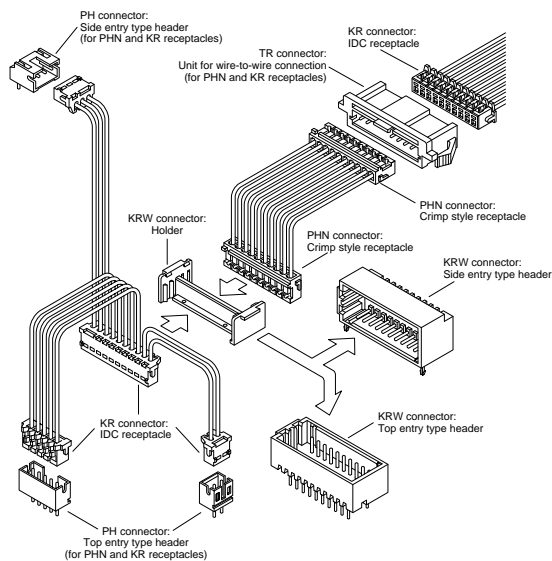
# KR FAMILY SERIES/KRW•KR•PHN•TR CONNECTOR

Disconnectable Insulation displacement and Crimp style connectors



Based upon JST's field proven KR series connectors, the KR series family of connectors have been expanded to meet the requirements of high density packaging.

The KRW connector allows dual-row wire-to-board connection using either the KR or PHN connectors. Whilst the TR connector allows wire-to-wire connection, also using either the KR or PHN connectors.



## Features

### • Multi-IDC-harnesses are possible

### • Various types of connectors

In addition to the KRW, KR, PHN and TR connectors, there are other 2.0mm(.079")pitch connectors available such as the KRD, CR, DA, DD and DS ranges.

### • Cost reduction

By introducing the KR family series, a reduction in harness production time can be achieved through rationalization/standardization. This in turn, will therefore reduce harness costs, thus benefiting both the harness-maker and the set-maker alike.

### • Two types of circuit layouts

The connector is available in either the normal or reverse configurations.

## Specifications

Item	Series	KRW connector	TR connector
Current rating		2.0A AC, DC(AWG#24)	
Voltage rating		100V AC, DC	
Temperature rise		-40°C to +85°C(including temperature rise)	
Contact resistance		Initial value / 10mΩ max. After environmental testing / 20mΩ max.	
Insulation resistance		1,000MΩmin.	
Withstanding voltage		800V AC / minute	
Applicable connector		KR connector, CR connector, PHN connector	
Applicable PC board thickness		1.6mm(.063")	—
Applicable panel thickness		—	0.5 to 2.0mm(.020" to .079")

•Contact JST for details.

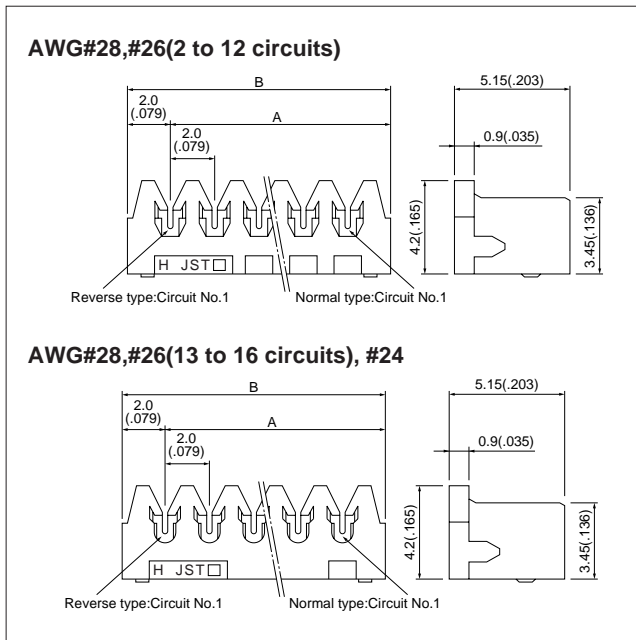
Recognized file No. E60389

Certified file No. LR20812

File No. R75088 (conforms to DIN/VDE 0627)

# KR FAMILY SERIES CONNECTOR

## KR connector Receptacle (IDC)



Circuits	Model No.				Dimensions mm(in.)	
	Normal type		Reverse type		A	B
	AWG#28#26	AWG#24	AWG#28#26	AWG#24		
2	02KR-6H-P	02KR-4K-P	02KR-6H-PC	02KR-4K-PC	2.0 (.079)	6.0 (.236)
3	03KR-6H-P	03KR-4K-P	03KR-6H-PC	03KR-4K-PC	4.0 (.157)	8.0 (.315)
4	04KR-6H-P	04KR-4K-P	04KR-6H-PC	04KR-4K-PC	6.0 (.236)	10.0 (.394)
5	05KR-6H-P	05KR-4K-P	05KR-6H-PC	05KR-4K-PC	8.0 (.315)	12.0 (.472)
6	06KR-6H-P	06KR-4K-P	06KR-6H-PC	06KR-4K-PC	10.0 (.394)	14.0 (.551)
7	07KR-6H-P	07KR-4K-P	07KR-6H-PC	07KR-4K-PC	12.0 (.472)	16.0 (.630)
8	08KR-6H-P	08KR-4K-P	08KR-6H-PC	08KR-4K-PC	14.0 (.551)	18.0 (.709)
9	09KR-6H-P	09KR-4K-P	09KR-6H-PC	09KR-4K-PC	16.0 (.630)	20.0 (.787)
10	10KR-6H-P	10KR-4K-P	10KR-6H-PC	10KR-4K-PC	18.0 (.709)	22.0 (.866)
11	11KR-6H-P	11KR-4K-P	11KR-6H-PC	11KR-4K-PC	20.0 (.787)	24.0 (.945)
12	12KR-6H-P	12KR-4K-P	12KR-6H-PC	12KR-4K-PC	22.0 (.866)	26.0 (1.024)
13	13KR-6H-P	-	13KR-6H-PC	-	24.0 (.945)	28.0 (1.102)
14	14KR-6H-P	-	14KR-6H-PC	-	26.0 (1.024)	30.0 (1.181)
15	15KR-6H-P	-	15KR-6H-PC	-	28.0 (1.102)	32.0 (1.260)
16	16KR-6H-P	-	16KR-6H-PC	-	30.0 (1.181)	34.0 (1.339)

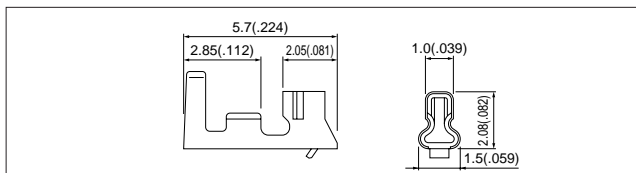
**Material and Finish**

Contact: Phosphor bronze, tin-plated  
 Housing: AWG#28 & #26 / 2 to 12 circuits...Nylon 66, UL94V-0, gray  
 13 to 16 circuits...Glass-filled nylon 66, UL94V-0, gray  
 AWG#24 / Glass-filled nylon 66, UL94V-0, black

**Applicable wire**

UL1571, 1061 (Contact JST for other UL styles.)  
 AWG#28, #26, #24  
 Conductor / Tstands, tin-plated annealed copper  
 Insulation O.D. / AWG#28 & #26...0.9 to 1.0mm (.035" to .039") AWG#24...1.3mm (.051") max.

## PH connector Contact (Crimp style)



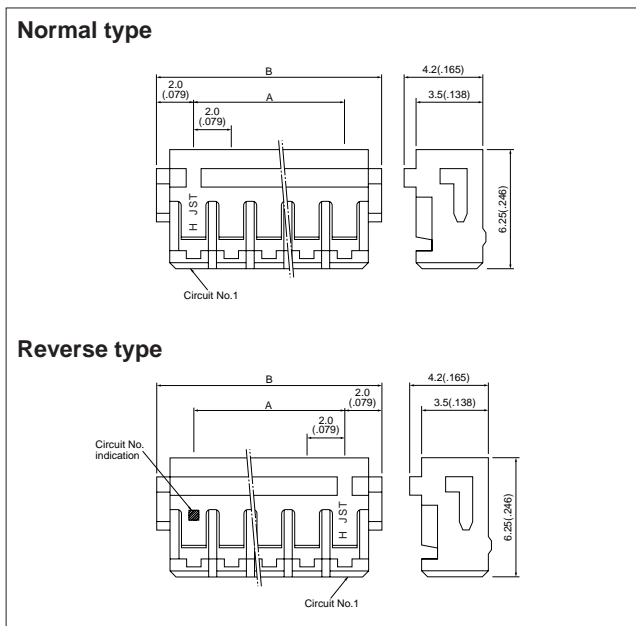
Model No.	Applicable wire		Insulation O.D. mm(in.)	Q'ty/reel
	mm <sup>2</sup>	AWG#		
SPH-002T-P0.5L	0.08 to 0.22	28 to 24	0.8 to 1.5 (.013 to .059)	8,000

**Material and Finish**

Phosphor bronze, tin-plated

Note: SPH-002T-P0.5S is also available.

## PHN connector Housing (Crimp style)



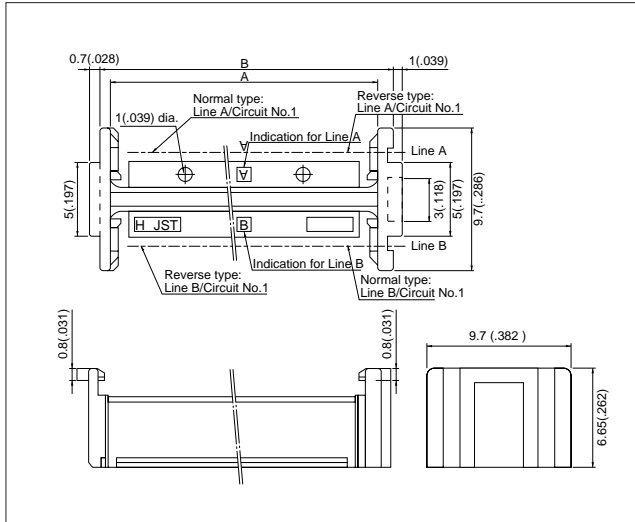
Circuits	Model No.		Dimensions mm(in.)	
	Normal type	Reverse type	A	B
2	PHNR-02-H	PHNR-02C-H	2.0 (.079)	6.0 (.236)
3	PHNR-03-H	PHNR-03C-H	4.0 (.157)	8.0 (.315)
4	PHNR-04-H	PHNR-04C-H	6.0 (.236)	10.0 (.394)
5	PHNR-05-H	PHNR-05C-H	8.0 (.315)	12.0 (.472)
6	PHNR-06-H	PHNR-06C-H	10.0 (.394)	14.0 (.551)
7	PHNR-07-H	PHNR-07C-H	12.0 (.472)	16.0 (.630)
8	PHNR-08-H	PHNR-08C-H	14.0 (.551)	18.0 (.709)
9	PHNR-09-H	PHNR-09C-H	16.0 (.630)	20.0 (.787)
10	PHNR-10-H	PHNR-10C-H	18.0 (.709)	22.0 (.866)
11	PHNR-11-H	PHNR-11C-H	20.0 (.787)	24.0 (.945)
12	PHNR-12-H	PHNR-12C-H	22.0 (.866)	26.0 (1.024)
13	PHNR-13-H	PHNR-13C-H	24.0 (.945)	28.0 (1.102)
14	PHNR-14-H	PHNR-14C-H	26.0 (1.024)	30.0 (1.181)
15	PHNR-15-H	PHNR-15C-H	28.0 (1.102)	32.0 (1.260)
16	PHNR-16-H	PHNR-16C-H	30.0 (1.181)	34.0 (1.339)

**Material**

Nylon 66, UL94V-0, gray

# KR FAMILY SERIES CONNECTOR

## KRW connector Holder

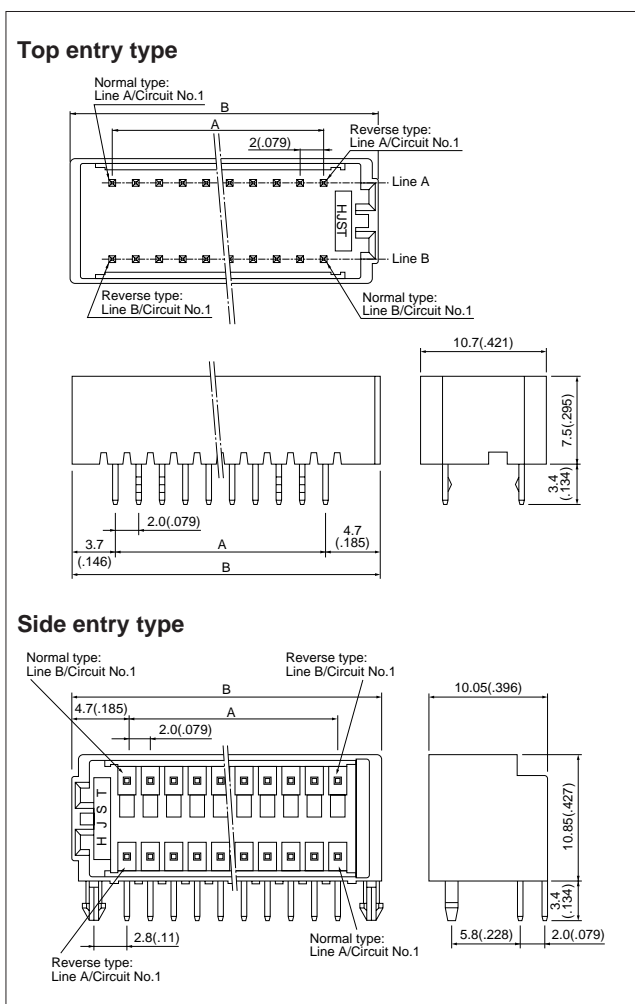


Circuits	Model No.		Dimensions mm(in.)	
	Normal type	Reverse type	A	B
16	KRWH-16-H	KRWH-16C-H	18.0(.709)	20.4(.803)
18	KRWH-18-H	KRWH-18C-H	20.0(.787)	22.4(.882)
20	KRWH-20-H	KRWH-20C-H	22.0(.866)	24.4(.961)
22	KRWH-22-H	KRWH-22C-H	24.0(.945)	26.4(1.039)
24	KRWH-24-H	KRWH-24C-H	26.0(1.024)	28.4(1.118)
26	KRWH-26-H	KRWH-26C-H	28.0(1.102)	30.4(1.197)
28	KRWH-28-H	KRWH-28C-H	30.0(1.181)	32.4(1.276)
30	KRWH-30-H	KRWH-30C-H	32.0(1.260)	34.4(1.354)
32	KRWH-32-H	KRWH-32C-H	34.0(1.339)	36.4(1.433)

**Material**

Nylon 66, UL94V-0, gray

## KRW connector Shrouded Header



Circuits	Model No.				Dimensions mm(in.)	
	Normal type		Reverse type		A	B
	Top entry type	Side entry type	Top entry type	Side entry type		
16	B16B-KRWK	S16B-KRWMS	B16B-KRWK-C	S16B-KRWMS-C	14.0(.551)	22.4(.882)
18	B18B-KRWK	S18B-KRWMS	B18B-KRWK-C	S18B-KRWMS-C	16.0(.630)	24.4(.961)
20	B20B-KRWK	S20B-KRWMS	B20B-KRWK-C	S20B-KRWMS-C	18.0(.709)	26.4(1.039)
22	B22B-KRWK	S22B-KRWMS	B22B-KRWK-C	S22B-KRWMS-C	20.0(.787)	28.4(1.118)
24	B24B-KRWK	S24B-KRWMS	B24B-KRWK-C	S24B-KRWMS-C	22.0(.866)	30.4(1.197)
26	B26B-KRWK	S26B-KRWMS	B26B-KRWK-C	S26B-KRWMS-C	24.0(.945)	32.4(1.276)
28	B28B-KRWK	S28B-KRWMS	B28B-KRWK-C	S28B-KRWMS-C	26.0(1.024)	34.4(1.354)
30	B30B-KRWK	S30B-KRWMS	B30B-KRWK-C	S30B-KRWMS-C	28.0(1.102)	36.4(1.433)
32	B32B-KRWK	S32B-KRWMS	B32B-KRWK-C	S32B-KRWMS-C	30.0(1.181)	38.4(1.512)

**Material and Finish**

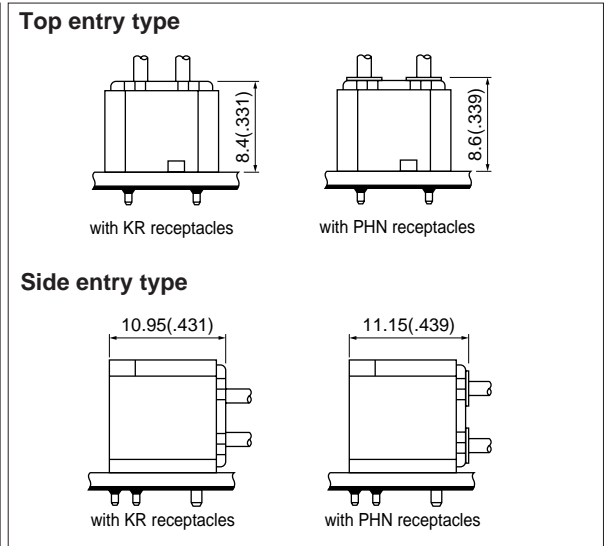
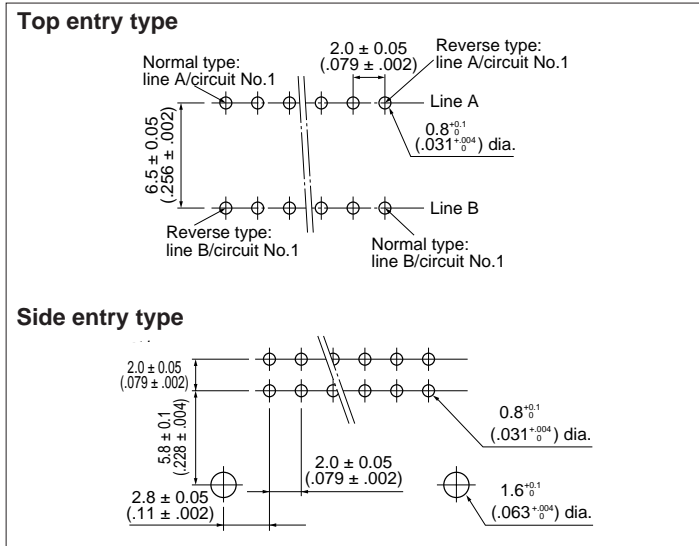
Post: Copper alloy, copper-undercoated, tin/lead-plated  
Wafer: Nylon 66, UL94V-0, green

**Note:**

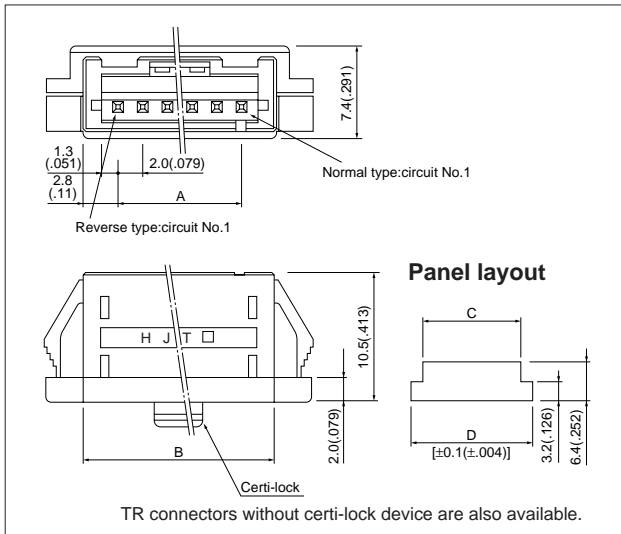
1. Top entry type headers with bosses or without kinked tails are also available.
2. The products listed above are supplied packed in tray.

# KR FAMILY SERIES CONNECTOR

## PC board layout (viewed from component side) — Assembly layout



## TR connector (Unit for wire-to-wire connection)



Circuits	Model No.		Dimensions mm(in.)			
	Normal type	Reverse type	A	B	C	D
2	BU02P-TR-P-H	BU02P-TR-PC-H	2.0(.079)	7.6(.299)	7.9(.311)	11.6(.457)
3	BU03P-TR-P-H	BU03P-TR-PC-H	4.0(.157)	9.6(.378)	9.9(.390)	13.6(.535)
4	BU04P-TR-P-H	BU04P-TR-PC-H	6.0(.236)	11.6(.457)	11.9(.469)	15.6(.614)
5	BU05P-TR-P-H	BU05P-TR-PC-H	8.0(.315)	13.6(.535)	13.9(.547)	17.6(.693)
6	BU06P-TR-P-H	BU06P-TR-PC-H	10.0(.394)	15.6(.614)	15.9(.626)	19.6(.772)
7	BU07P-TR-P-H	BU07P-TR-PC-H	12.0(.472)	17.6(.693)	18.0(.709)	21.6(.850)
8	BU08P-TR-P-H	BU08P-TR-PC-H	14.0(.551)	19.6(.772)	20.0(.787)	23.6(.929)
9	BU09P-TR-P-H	BU09P-TR-PC-H	16.0(.630)	21.6(.850)	22.0(.866)	25.6(1.008)
10	BU10P-TR-P-H	BU10P-TR-PC-H	18.0(.709)	23.6(.929)	24.0(.945)	27.6(1.087)
11	BU11P-TR-P-H	BU11P-TR-PC-H	20.0(.787)	25.6(1.008)	26.0(1.024)	29.6(1.165)
12	BU12P-TR-P-H	BU12P-TR-PC-H	22.0(.866)	27.6(1.087)	28.0(1.102)	31.6(1.244)
13	BU13P-TR-P-H	BU13P-TR-PC-H	24.0(.945)	29.6(1.165)	30.0(1.181)	33.6(1.323)
14	BU14P-TR-P-H	BU14P-TR-PC-H	26.0(1.024)	31.6(1.244)	32.0(1.260)	35.6(1.402)
15	BU15P-TR-P-H	BU15P-TR-PC-H	28.0(1.102)	33.6(1.323)	34.0(1.339)	37.6(1.480)
16	BU16P-TR-P-H	BU16P-TR-PC-H	30.0(1.181)	35.6(1.402)	36.0(1.417)	39.6(1.559)

**Material and Finish**

Post: Copper alloy, copper-undercoated, tin/lead-plated  
Housing: Nylon 66, UL94V-0, gray