

KinKuo Electronics Co.,Ltd.

Specifications

JN1/JN2 Series

[JN1]

Item	Specification and Performance	
Number of Contacts	10 position	4 position
Rated Current	3A/pin (#22 size contact)	5A/pin (#20 size contact)
Rated Voltage	200VAC	200VAC
Withstanding Voltage	900VAC (per minute)	2000VAC (per minute)
Insulation Resistance	1000M ohm min.(DC500V energized)	1000M ohm min.(DC500V energized)
Waterproof	IP67	IP67
Airtightness (Individually Waterproofed)	2.9 x 10 ⁴ PA (per minute) without leakage	2.9 x 10 ⁴ PA (per minute) without leakage
Operating Temperature	-20 Deg. C to +125 Deg.C	-20 Deg. C to +125 Deg.C
Specification of Wire Connection	Receptacle: Through-hole, solder connection 22AWG (0.3mm ²) max. Cable connecting receptacle: Crimp connection 20 to 28AWG Plug: Crimp connection 20 to 28AWG Solder connection 20AWG max.	Receptacle: Solder connection 18 AWG (0.75mm ²) max. Cable connecting receptacle and plug: Solder connection 16 AWG (1.25mm ²) max.
Durability	500 mating cycles	500 mating cycles

[JN2]

Item	Specification and Performance	
Number of Contacts	10 position	4 position
Rated Current	3A / pin (#22 size contact)	5A / pin (#20 size contact)
Rated Voltage	200VAC	400VAC (degree of pollution 2, excess voltage category 3)
Withstanding Voltage	900VAC (per minute)	2000VAC (per minute)
Insulation Resistance	1000M ohm min. (DC500V energized)	1000M ohm min. (DC500V energized)
Waterproof	IP67	IP67
Airtightness (Individually Waterproofed)	2.9 X 10 ⁴ PA (per minute) without leakage	2.9 X 10 ⁴ PA (per minute) without leakage
Operating Temperature	-20 Deg. C to +100 Deg.C	-20 Deg. C to +100 Deg.C
Specification of Wire Connection	Receptacle: Through-hole, solder connection, 22AWG (0.3mm ²) max. Plug: Crimp connection 20 to 28AWG Solder connection 20AWG max.	Receptacle: Solder connection, 18AWG (0.75mm ²) max. Plug: Solder connection 16AWG (1.25mm ²) max.
Durability	500 mating cycles	500 mating cycles

Materials and Finishes

[JN1]

	Component	Material / Finish
Receptacle	Pin insulator	Synthetic resin
	Pin contact	Copper alloy / Au plating (10 pin), Silver plating (4 pin)
Relay Receptacle	Insulator	Synthetic resin
	Assembly nut	Synthetic resin
	Straight endbell	Synthetic resin
	O Ring	Synthetic rubber
	Bushing*	Synthetic rubber (Color: black/gray/brick red/dark green)
	Gland nut	Synthetic resin
	Pin contact (#22)	Au plating
	Pin contact (#20)	Silver plating
Plug	Front insulator	Synthetic resin
	Rear insulator	Synthetic resin
	Coupling nut	Synthetic resin
	Assembly nut	Synthetic resin
	Angle endbell	Synthetic resin
	Straight endbell	Synthetic resin
	O Ring	Synthetic rubber
	Bushing (*)	Synthetic rubber (Color: black/gray/brick red/dark green)
	Gland nut	Synthetic resin
	Spring	Stainless steel
	Spring pin	Stainless steel
	Socket contact	Copper alloy / Au plating (10 pin), Silver plating (4 pin)
Waterproof Cap	Cap	Synthetic rubber

*Color of bushing is determined by applicable wire size.

Color of Bushing	Applicable Cable
Gray	6.5 to 8.0 Dia.
Black	5.7 to 7.3 Dia.
Dark Green	4.7 to 5.7 Dia.
Brick Red	3.5 to 5.0 Dia.

[JN2]

	Component	Material / Finish
Receptacle	Pin insulator	Synthetic resin
	Shell	Zinc die-cast / Zinc plating
	Pin contact	Copper alloy / Au plating (10 pin), Silver plating (4 pin)
Plug	Front insulator	Synthetic resin
	Rear insulator	Synthetic resin
	Coupling nut	Zinc die-cast / Zinc plating (Black)
	Assembly nut	Zinc die-cast / Zinc plating (Black)
	Angle endbell	Synthetic resin
	Straight endbell	Synthetic resin
	O Ring	Synthetic rubber
	Bushing*	Synthetic rubber (Color: black/gray/brick red/dark green)
	Gland nut	Synthetic resin
	Spring	Stainless steel
	Spring pin	Stainless steel
	Socket contact	Copper alloy / Au plating (10 pin), Silver plating (4 pin)
Waterproof Cap	Cap	Synthetic rubber

*Color of bushing is determined by applicable wire size.

Color of Bushing	Applicable Cable
Gray	6.5 to 8.0 Dia.
Black	5.7 to 7.3 Dia.
Dark Green	4.7 to 5.7 Dia.
Brick Red	3.5 to 5.0 Dia.