



TECHNICAL SELECTION CATALOG

J14 Rectangular Connector Systems

Three rectangular connector series for electronic-signal interconnection

Part numbers, ratings, dimensions and mating rules for RFQ preparation — supported by engineering drawings and dimension tables.

J14A

Low-Frequency Modular

J14B

High-Density Rain-Resistant

J14F

Compact Push-Pull

Series Architecture

Choose by contact density, termination and installation format

J14A — Low-Frequency Modular Family

Cable, panel, straight-PCB and 90° PCB configurations with pin or socket contacts.

9–101

CONTACTS

3 A

RATED CURRENT

500

ENDURANCE (CYCLES)

J14B — High-Density Rain-Resistant Family

Panel-mounted receptacles and crimped cable assemblies in 26- and 34-contact formats.

26 / 34

CONTACTS

2 A

RATED CURRENT

5 mm/min

RAINFALL RATING

J14F — Compact Push-Pull Family

High-density cable-ended plugs and panel or cable receptacles with crimp termination.

9–51

CONTACTS

2 A

RATED CURRENT

500

ENDURANCE (CYCLES)

J14A

Specification · Ordering · Drawings

J14B

Specification · Ordering · Drawings

14F

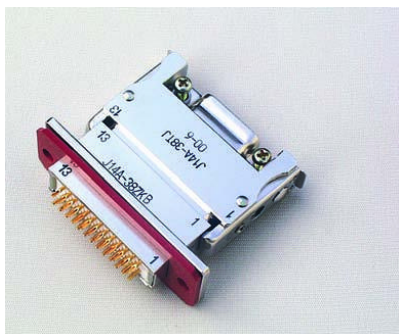
Specification · Ordering · Drawings

RFQ

Contact & Enquiry

J14A Series — Low-Frequency Rectangular Connector

9–101 contacts · rated current 3 A · cable, panel, straight-PCB and 90° PCB configurations



Dual-safety locking combines fast operation with reliable engagement. Rounded anti-mating geometry supports compact size and low weight.

Solder-cup termination uses a $\phi 0.6$ mm solder hole; recommended conductor area is 0.15 mm^2 and must not exceed 0.2 mm^2 . Solder-pin termination uses a $\phi 0.6$ mm solder pin.

Available as pin-contact or socket-contact plugs; panel or cable receptacles; and straight or 90° PCB formats.

Application scope: electrical connection among electronic instruments, meters and cables.

Environmental Limits

Operating Temperature	-55 to +125 °C	Relative Humidity	90%-95% at 40 ± 2 °C
Atmospheric Pressure	101.3 kPa to 1.33 Pa	Sinusoidal Vibration	10-2000 Hz; 196 m/s ²
Shock	980 m/s ²	Acceleration	780 m/s ²

Technical Performance

Rated Current	3 A	Contact Resistance — Before Life Test	≤ 0.006 Ω
Contact Resistance — After Life Test	≤ 0.010 Ω	Insulation Resistance — Standard	≥ 2000 MΩ
Insulation Resistance — High Temp.	≥ 1000 MΩ	Insulation Resistance — Damp Heat	≥ 20 MΩ
Withstand Voltage — Standard	800 V	Withstand Voltage — Low Pressure	250 V
Magnetic Cleanliness (J14W only)	< 68 nT after 15 gauss magnetization < 25 nT after 50 gauss demagnetization	Mechanical Endurance	500 cycles

Reference Standard: GJB 142A-94

J14A Ordering Code

Interpret the product designation for configuration selection

J PRIMARY DESIGNATION	14 DESIGN SEQUENCE	A MODIFICATION SEQUENCE	-38 CONTACT COUNT	Z CONNECTOR TYPE	K CONTACT TYPE	1 TERMINATION	B MOUNTING	2 FLANGE
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J14A-51TJ

J14A plug, 51 contacts, soldered pin contacts.

J14A-51ZK1B2

J14A receptacle, 51 socket contacts, 90° PCB termination, panel mounting and side-mount flange.

Mating Rule: opposite contact types with the same modification sequence and contact count can mate.

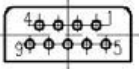
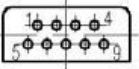
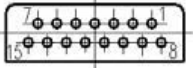
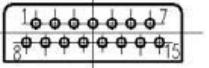
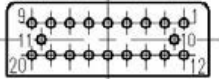
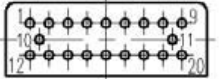
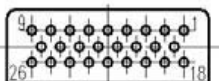
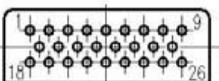
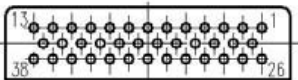
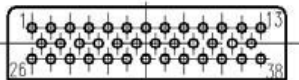
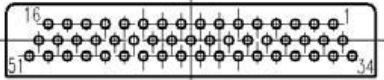
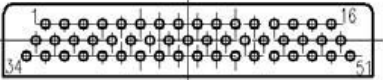
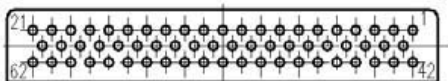
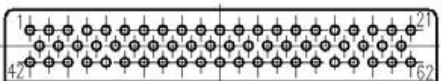
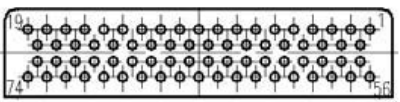
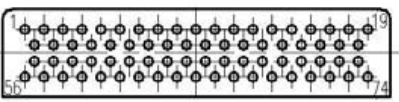
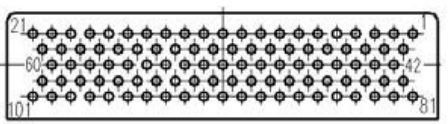
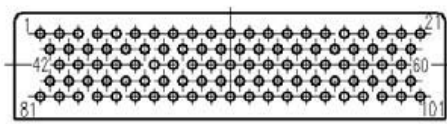
SEGMENT DEFINITIONS

Connector Type	Z — receptacle T — plug
Termination	Plug: blank — soldered cable. Receptacle: blank — soldered cable; 1 — 90° PCB; 2 / 3 — straight PCB (3 extended).
Flange	Blank — standard horizontal; 1 — narrow horizontal; 2 — side-mount.

Contact Type	K — socket contact J — pin contact
Mounting	Receptacle only: B — panel mounted; L — with cable hood.

J14A / Mating Face

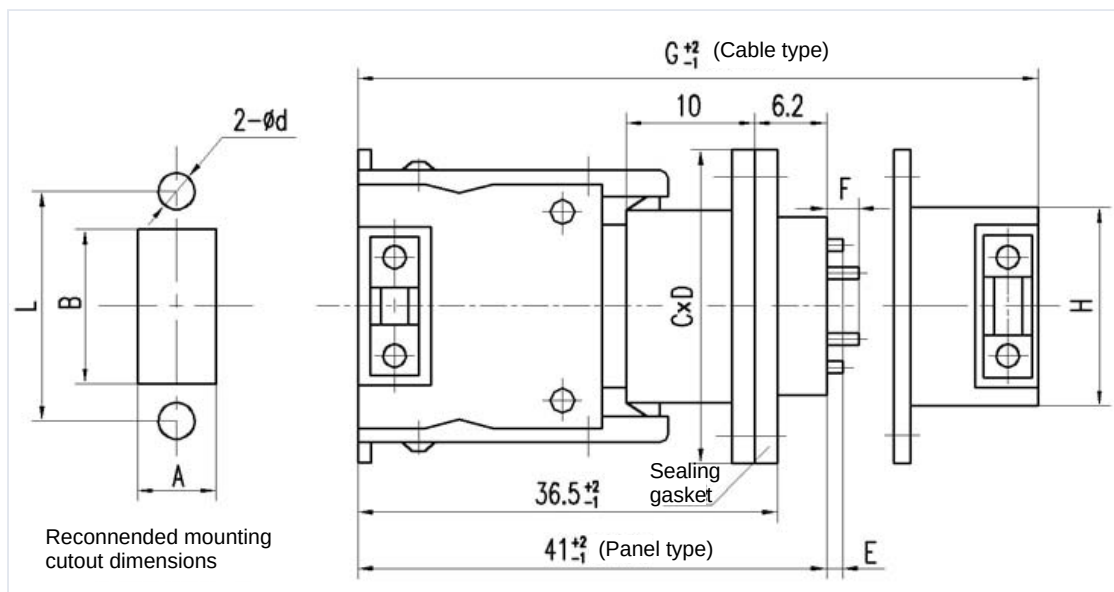
Mating-face views for pin-contact and socket-contact receptacles

Contacts	Plug	Receptacle
9		
15		
20		
26		
38		
51		
62		
74		
101		

Drawing — J14A Standard Flange

Applicable variants: J14A-n · TK · TJ · ZKB · ZKL · ZJB · ZJL. Dimensions in millimetres.

Interface & Installation Dimensions



Dimension Register — Standard Flange

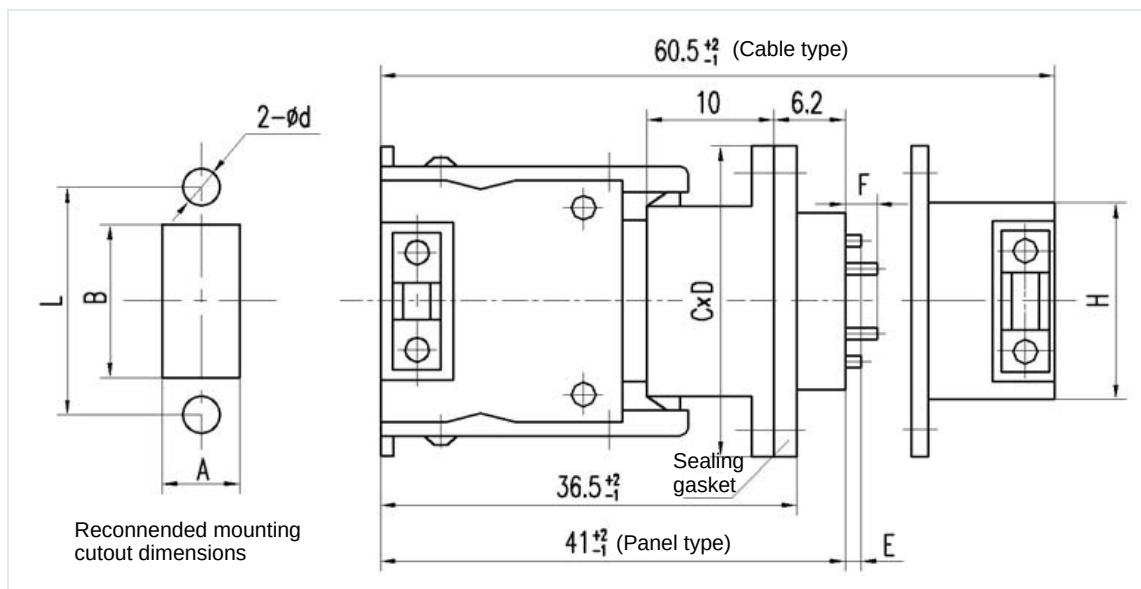
Contacts n	L ±0.1	A +0.4 / +0.2	B +0.4 / +0.2	C	D	d	E +0.3 / -0.2	F +0.3 / -0.2	G	H
9	22	6.6	15.2	28	12	3	2.8	2.8	60.5	17 0 / -0.1
15	28	6.6	21.2	34	12	3	2.8	2.8	60.5	23 0 / -0.1
20	34	10	25	41	16	3.5	2.8	2.8	60.5	28.2 0 / -0.15
26	34	10	25	41	16	3.5	2.8	2.8	60.5	28.2 0 / -0.15
38	42	10	33	49	16	3.5	2.8	2.8	60.5	36.2 0 / -0.15
51	52	10	43	59	16	3.5	2.8	2.8	62.5	46.1 0 / -0.15
62	58	10	49	65	16	3.5	2.8	2.8	60.5	52.2 0 / -0.15
74	54	12	45	61	18	3.5	2.8	4.8	60.5	47.4 0 / -0.15
101	58	14	49	65	20	3.5	2.8	4.8	60.5	52.2 0 / -0.15

J14A standard-flange cable and panel configurations.

Drawing — J14A Narrow Flange

Applicable variants: J14A-n / J14W-n · TK · TJ · ZKB1 · ZJB1 · ZJB1L · ZKB1L. Dimensions in millimetres.

Interface & Installation Dimensions



Dimension Register — Narrow Flange

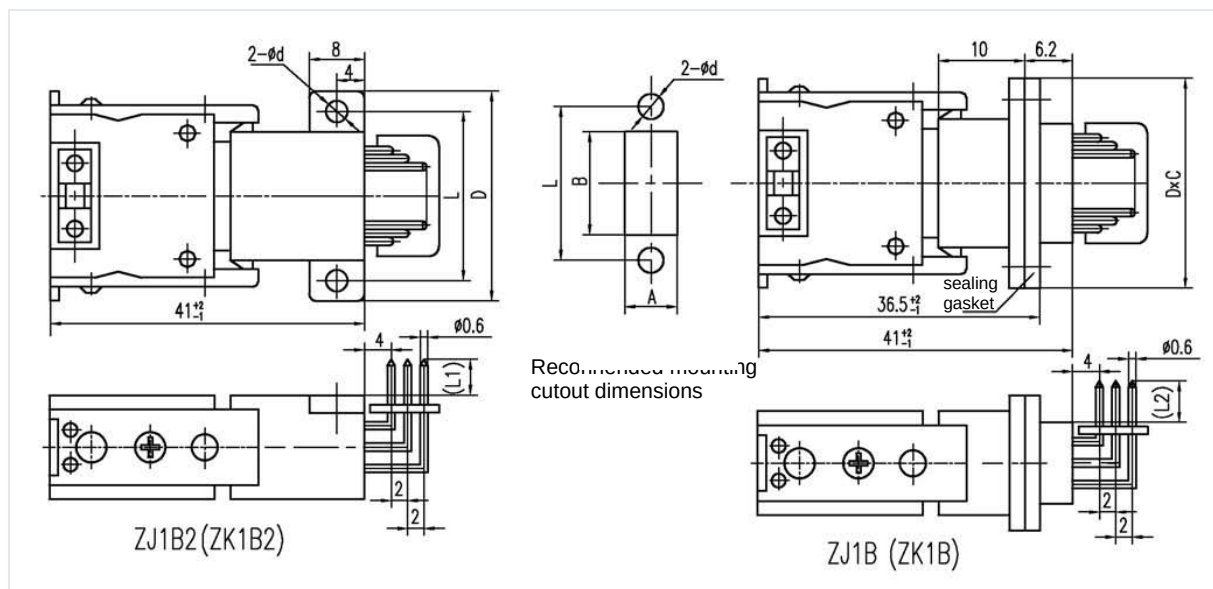
Contacts n	L ±0.1	A +0.4 / +0.2	B +0.4 / +0.2	C	D	d	E +0.3 / -0.2	F +0.3 / -0.2	H
9	22	6.6	15.2	28	8.9	3	2.8	2.8	17 0 / -0.1
15	28	6.6	21.2	34	8.9	3	2.8	2.8	23 0 / -0.1
20	34	10	25	41	12	3.5	2.8	2.8	28.2 0 / -0.15
26	34	10	25	41	12	3.5	2.8	2.8	28.2 0 / -0.15
38	42	10	33	49	12	3.5	2.8	2.8	36.2 0 / -0.15
51	52	10	43	59	12	3.5	2.8	2.8	46.1 0 / -0.15
62	58	10	49	65	12	3.5	2.8	2.8	52.2 0 / -0.15
74	54	12	45	61	14	3.5	2.8	4.8	47.4 -0.05 / -0.15
101	58	14	49	65	16	3.5	2.8	4.8	52.2 0 / -0.15

J14A narrow-flange configuration.

Drawing — J14A 90° PCB Configuration

Applicable variants: J14A-n · TK · TJ · ZK1B2 · ZK1B · ZJ1B2 · ZJ1B. Dimensions in millimetres.

Interface & Installation Dimensions



Dimension Register — 90° PCB Configuration

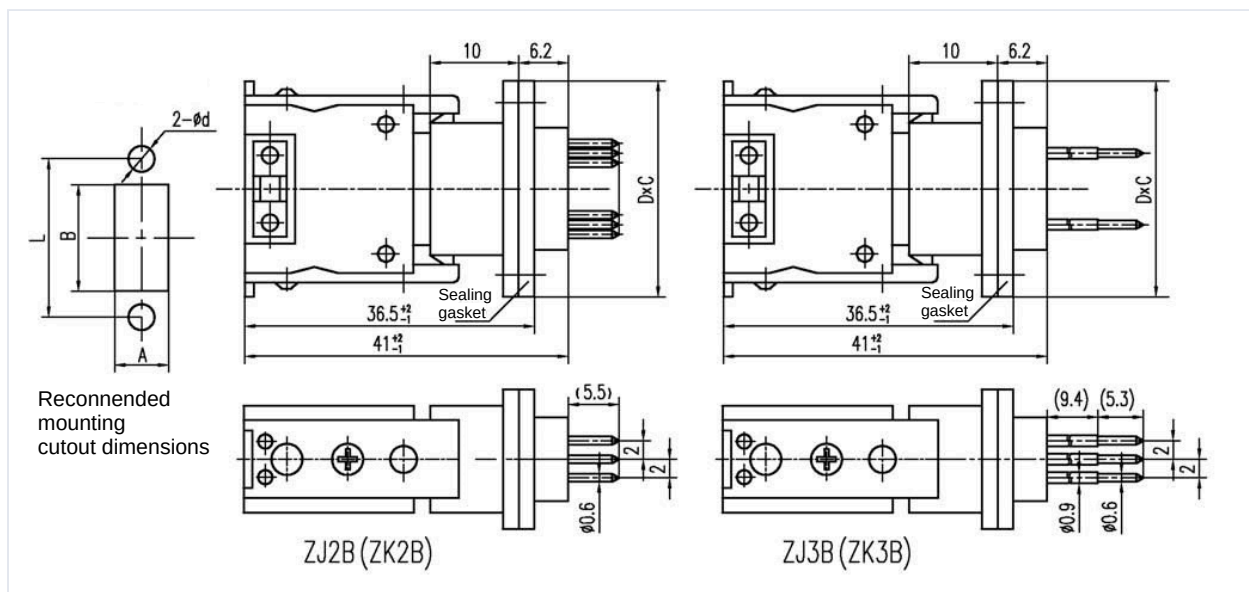
Contacts n	L ±0.1	A +0.4 / +0.2	B +0.4 / +0.2	C	D	d	Pitch X	Pitch Y	PCB pin φ	L1	L2
9	22	6.6	15.2	12	28	3	2	2	0.6	3	4.2
15	28	6.6	21.2	12	34	3	2	2	0.6	3	4.2
26	34	10	25	16	41	3.5	2	2	0.6	2.5	3.5
38	42	10	33	16	49	3.5	2	2	0.6	2.5	3.5
51	52	10	43	16	59	3.5	2	2	0.6	2.5	3.5
62	58	10	49	16	65	3.5	2	2	0.6	2.5	3.5
74	54	12	45	18	61	3.5	2	2	0.6	2.5	3.5
101	58	14	49	20	65	3.5	2	2	0.6	2.5	3.5

90° PCB configuration — J14A plug with right-angle printed-circuit receptacle.

Drawing — J14A Straight PCB Configuration

Applicable variants: J14A-n · TK · TJ · ZK2B · ZJ2B · ZK3B · ZJ3B. Dimensions in millimetres.

Interface & Installation Dimensions



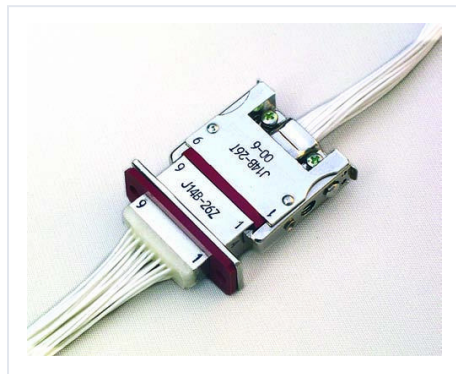
Dimension Register — Straight PCB Configuration

Contacts n	L ±0.1	A +0.4 / +0.2	B +0.4 / +0.2	C	D	d	Pitch X	Pitch Y	PCB pin ϕ
9	22	6.6	15.2	12	28	3	2	2	0.6
15	28	6.6	21.2	12	34	3	2	2	0.6
20	34	10	25	16	41	3.5	2	2	0.6
26	34	10	25	16	41	3.5	2	2	0.6
38	42	10	33	16	49	3.5	2	2	0.6
51	52	10	43	16	59	3.5	2	2	0.6
62	58	10	49	16	65	3.5	2	2	0.6
74	54	12	45	18	61	3.5	2	2	0.6
101	58	14	49	20	65	3.5	2	2	0.6

Straight PCB configuration — J14A plug with straight printed-circuit receptacle.

J14B Series — High-Density Rain-Resistant Rectangular Connector

26 / 34 contacts · rated current 2 A · panel-mounted receptacles with crimped cable assemblies



Higher-density low-frequency rectangular connectors. Dual-safety locking supports fast operation and reliable engagement.

Contact density and rain resistance are increased relative to the J14A shell basis. Rounded anti-mating geometry supports compact size and low weight.

Receptacles are panel mounted. Cable termination is crimped; cable specification and length are selected by the user.

Application scope: electrical connection among electronic instruments.

Environmental Limits

Operating Temperature	-55 to +125 °C	Relative Humidity	90%-95% at 40 ± 2 °C
Atmospheric Pressure	101.3 kPa to 1.33 Pa	Sinusoidal Vibration	10-2000 Hz; 196 m/s ²
Shock	980 m/s ²	Acceleration	780 m/s ²
Rainfall	5 mm/min		

Technical Performance

Rated Current	2 A	Contact Resistance — Before Life Test	≤ 0.010 Ω
Contact Resistance — After Life Test	≤ 0.015 Ω	Insulation Resistance — Standard	≥ 1000 MΩ
Insulation Resistance — High Temp.	≥ 80 MΩ	Insulation Resistance — Damp Heat	≥ 10 MΩ
Insulation Resistance — Rain	≥ 5 MΩ	Withstand Voltage — Standard	800 V
Withstand Voltage — Low Pressure	250 V	Mechanical Endurance	500 cycles

Reference Standard: GJB 142A-94

J14B Ordering Code

Interpret the product designation for configuration selection

J PRIMARY DESIGNATION	14 DESIGN SEQUENCE	B MODIFICATION SEQUENCE	-26 CONTACT COUNT	T CONNECTOR TYPE	K CONTACT TYPE
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J14B-26TK

J14B plug, 26 socket contacts.

J14B-34ZJ

J14B receptacle, 34 pin contacts.

AVAILABLE CONTACT COUNTS

26 / 34 —

SEGMENT DEFINITIONS

Connector Type T — plug | Z — receptacle

Contact Type K — socket contact | J — pin contact | Blank — alternate contact form

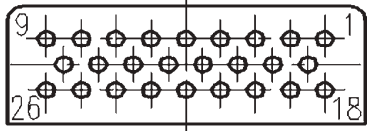
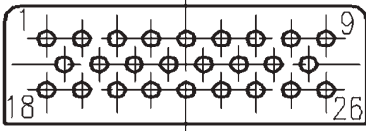
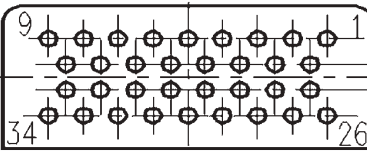
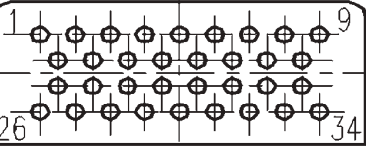
Cable Termination Crimped cable assembly; specify cable length in the contract.

Mating Combinations: use the paired plug and receptacle designations. Connector and contact type determine the compatible pair.

Plug	Mating receptacle	Plug	Mating receptacle
J14B-26T	J14B-26Z	J14B-34T	J14B-34Z
J14B-26TK	J14B-26ZJ	J14B-34TK	J14B-34ZJ

J14B / Mating Face

Mating-face views for 26- and 34-contact receptacles

26		
34		

26-contact and 34-contact arrangements.

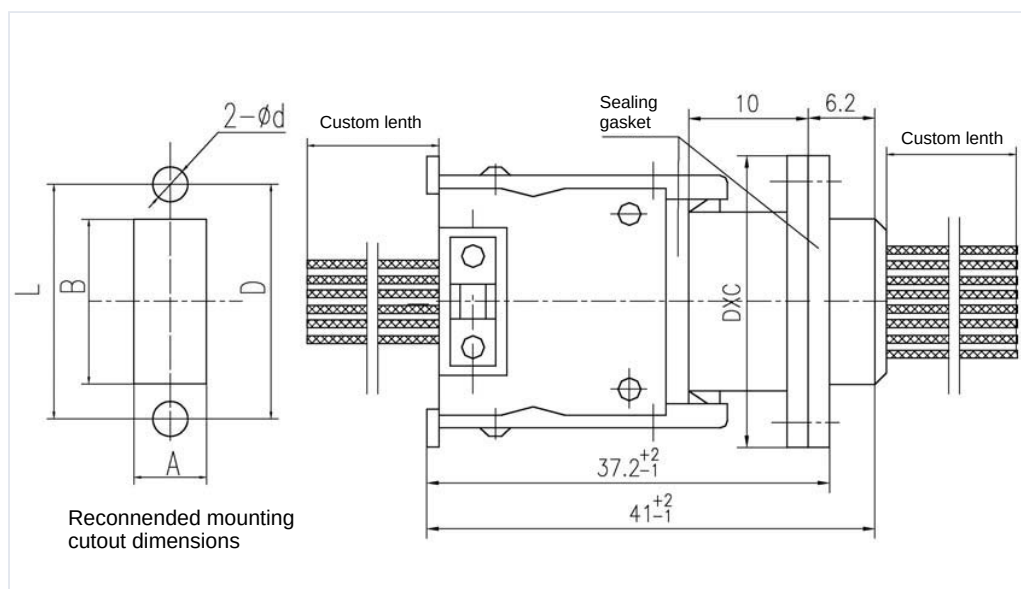
Left: pin-contact receptacle, mating-face view · Right: socket-contact receptacle, mating-face view.

Use the contact numbering indicated in each mating-face view.

Drawing — J14B Mated Pair

Cable-ended plug with panel receptacle mated pair.

Outline & Installation Dimensions



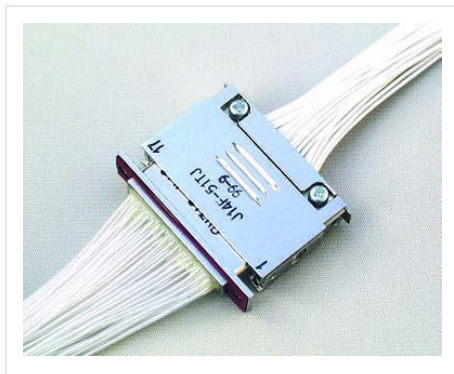
Dimension Register — Mated Pair

Model	L ± 0.1	A $+0.4 / +0.2$	B $+0.4 / +0.2$	C	D	d
J14B-26T/Z	28	6.6	21.2	12	34	3
J14B-26TK/ZJ	28	6.6	21.2	12	34	3
J14B-34T/Z	34	10	25	16	41	3.5
J14B-34TK/ZJ	34	10	25	16	41	3.5

Ordering Guide: Crimp wire type: AFR-250; conductor area: 0.15 mm^2 . Specify wire length in the contract. Other 0.15 mm^2 wire may be used when insulation outside diameter is $\leq 0.9 \text{ mm}$.

J14F Series — Compact High-Density Push-Pull Rectangular Connector

9, 15, 27, 36 and 51 contacts · rated current 2 A · crimp termination with cable leads



Push-pull connector architecture with compact size and high contact density.

Available in 9, 15, 27, 36 and 51 contacts.

Crimp termination; both plugs and receptacles use cable leads.

Application scope: internal electrical-signal connection in equipment and instrument compartments for aerospace, aviation, communications and computer applications.

Environmental Limits

Operating Temperature	-55 to +125 °C	Relative Humidity	90%-95% at 40 ± 2 °C
Atmospheric Pressure	101.3 kPa to 1.33 Pa	Sinusoidal Vibration	10-2000 Hz; 196 m/s ²
Shock	980 m/s ²	Acceleration	780 m/s ²

Technical Performance

Rated Current	2 A	Contact Resistance — Before Life Test	≤ 0.008 Ω
Contact Resistance — After Life Test	≤ 0.010 Ω	Insulation Resistance — Standard	≥ 500 MΩ
Insulation Resistance — High Temp.	≥ 100 MΩ	Insulation Resistance — Damp Heat	≥ 10 MΩ
Withstand Voltage — Standard	500 V	Withstand Voltage — Low Pressure	250 V
Withstand Voltage — Damp Heat	250 V	Mechanical Endurance	500 cycles

Reference Standard: GJB 142A-94

J14F Ordering Code

Cable-ended plug and receptacle combinations

J PRIMARY DESIGNATION	14 DESIGN SEQUENCE	F MODIFICATION SEQUENCE	-15 CONTACT COUNT	Z CONNECTOR TYPE	J CONTACT TYPE	B MOUNTING
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J14F-15TK

J14F plug, 15 socket contacts.

J14F-15ZJB

J14F receptacle, 15 pin contacts, panel mounted.

AVAILABLE CONTACT COUNTS

9 / 15 / 27 / 36 / 51 —

SEGMENT DEFINITIONS

Connector Type Z — receptacle | T — plug (both forms include cable leads)

Contact Type K — socket contact | J — pin contact

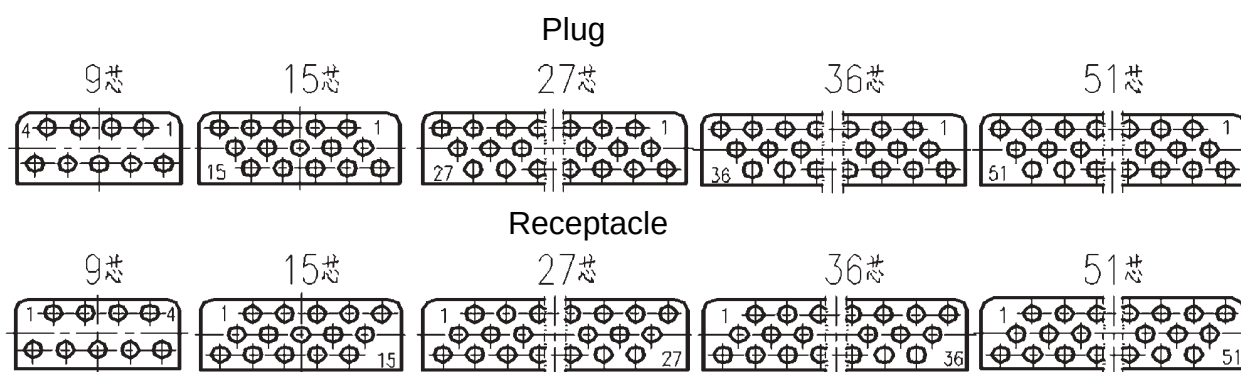
Mounting B — panel mounted | L — cable mounted

Mating Combinations: each plug mates with panel-mounted or cable-mounted receptacles in the same contact family.

Contacts	Plug / socket contacts	Panel receptacle / pin contacts	Cable receptacle / pin contacts	Plug / pin contacts	Panel receptacle / socket contacts	Cable receptacle / socket contacts
9	J14F-9TK	J14F-9ZJB	J14F-9ZJL	J14F-9TJ	J14F-9ZKB	J14F-9ZKL
15	J14F-15TK	J14F-15ZJB	J14F-15ZJL	J14F-15TJ	J14F-15ZKB	J14F-15ZKL
27	J14F-27TK	J14F-27ZJB	J14F-27ZJL	J14F-27TJ	J14F-27ZKB	J14F-27ZKL
36	J14F-36TK	J14F-36ZJB	J14F-36ZJL	J14F-36TJ	J14F-36ZKB	J14F-36ZKL
51	J14F-51TK	J14F-51ZJB	J14F-51ZJL	J14F-51TJ	J14F-51ZKB	J14F-51ZKL

J14F / Mating Face

Mating-face views for 9, 15, 27, 36 and 51 contacts

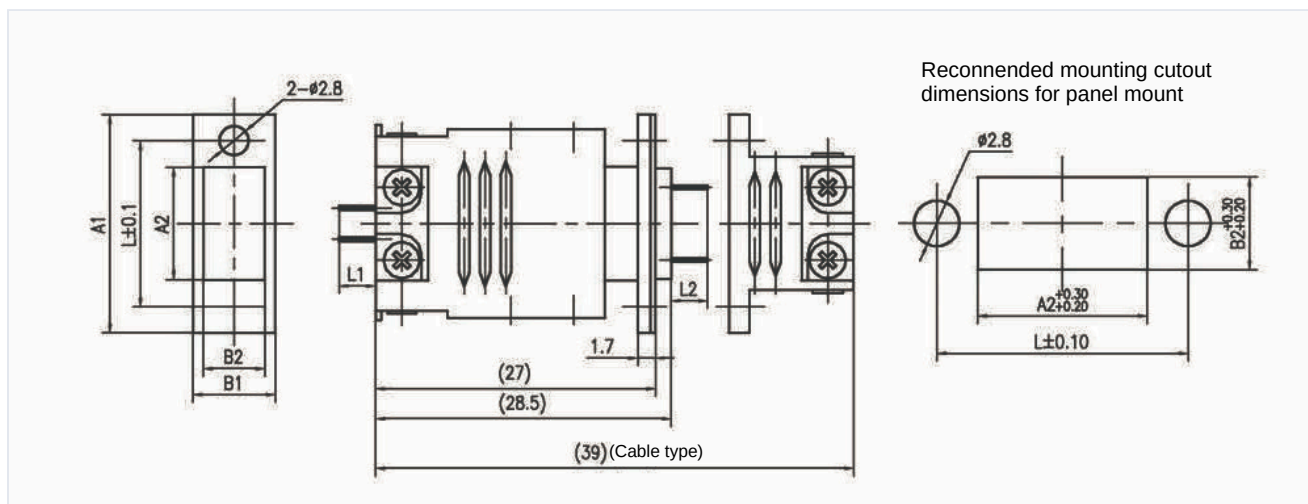


Plug mating-face patterns and **receptacle** mating-face patterns.

Drawing — J14F Mated Pair

Mated plug and receptacle dimensional reference.

Outline & Installation Dimensions



Dimension Register — Mated Pair

Applicable variants	A1	A2	L	B1	B2
J14F-9TK/ZJB · J14F-9TK/ZJL · J14F-9TJ/ZKB · J14F-9TJ/ZKL	19	9.4	14.5	6.7	4.7
J14F-15TK/ZJB · J14F-15TK/ZJL · J14F-15TJ/ZKB · J14F-15TJ/ZKL	21	10.8	16	7.9	5.9
J14F-27TK/ZJB · J14F-27TK/ZJL · J14F-27TJ/ZKB · J14F-27TJ/ZKL	26	16.4	21.5	7.9	5.9
J14F-36TK/ZJB · J14F-36TK/ZJL · J14F-36TJ/ZKB · J14F-36TJ/ZKL	31	20.6	26	7.9	5.9
J14F-51TK/ZJB · J14F-51TK/ZJL · J14F-51TJ/ZKB · J14F-51TJ/ZKL	38	27.6	33	7.9	5.9

Ordering Guide: Crimp wire type: AFR-250; maximum wire outside diameter: $\leq \phi 0.9$ mm. Specify wire length and conductor area in the contract. Available conductor areas: 0.12 mm² or 0.15 mm².