



2024

PRODUCT GUIDE



WHO WE ARE

JST is one of the worlds largest electronic connector manufacturers.

Since JST's foundation in 1957, we have maintained three core values at the heart of our business strategy.

QUALITY INTRODUCTION

- **QUALITY**

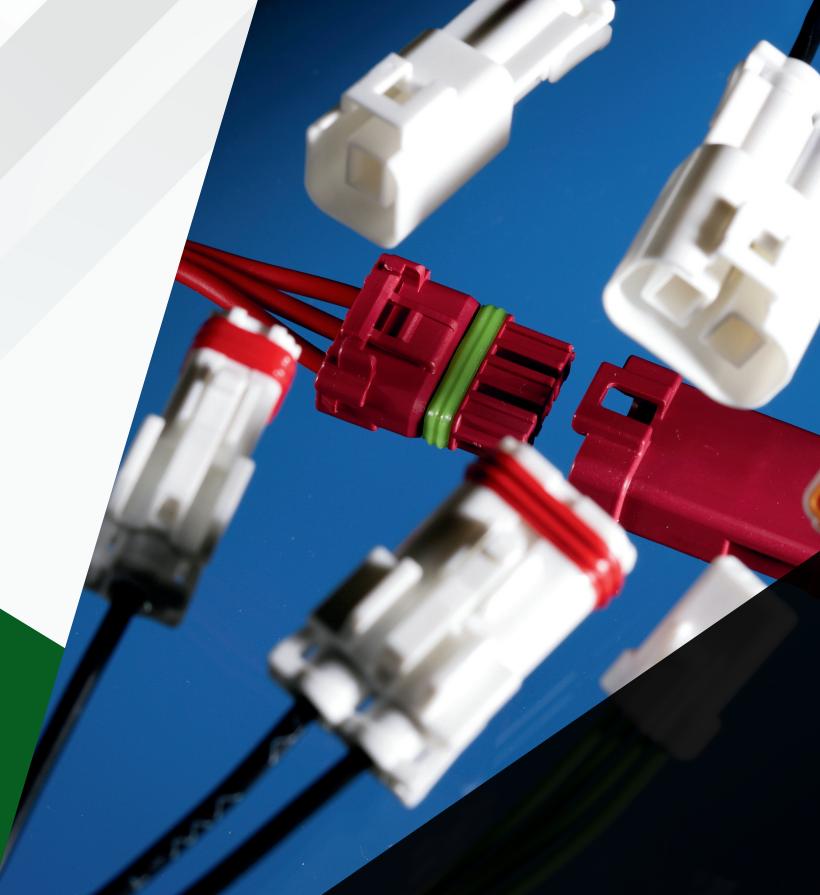
We have complete trust and belief in our product. Every stage of our development and manufacturing process is focused on delivering a flawless product. JST does not compromise on quality.

- **TECHNOLOGY**

JST is dedicated to continuous improvement and innovation, not only for our range of connector products but also for our custom processes and manufacturing systems.

- **SERVICE**

Our privilege is to offer our customers a product supply and product support service that we believe is unparalleled.



Why we call ourselves the quality connection:

- **Quality of product and technical excellence**
- **Zero Defects goal**
- **Japanese tradition of respect between customer and supplier.**

| Pitch | 0.6 mm | 0.8 mm | 1.0 mm | | | | | | | | |
|------------------------|-------------------------|--|--|---|--|----------------|----------------|--|------------------------|---|-----------------------|
| Product Series | XSR | SUH | SUR | SH | SR/SZ | SHD | SHLD | NSH | NSHD | SHL | SHLV |
| Current Rating | 0.2A | 1.0A (AWG #28) | * 0.5A (AWG #32) | 1.0A (AWG #28) | 0.7A | 1.0A (AWG #28) | 1.0A (AWG #28) | 1.0A (AWG #28) | 1.0A (AWG #28) | 1.0A (AWG #28) | 1.0A (AWG #28) |
| Voltage Rating | 30V | 30V | 30V | 50V | 50V | 50V | 50V | 50V | 50V | 50V | 30V |
| Temp. Range (°C) | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 |
| Orientation | Side | Top/Side | Top/Side | Top/Side | Top/Side | Top/Side | Top/Side | Top/Side | Top/Side | Side | Top/Side |
| Crimp | | ✓ | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| IDC | ✓ | | ✓ | | ✓ | | | | | | |
| Through Hole | | | | | ✓ | | | | | | |
| SMT | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Dual-Row | | | | | | ✓ | ✓ | | ✓ | | ✓ |
| Wire-to-Wire Available | | | | | | | | | | | |
| Positive Locking | | | | | | | ✓ | ✓ | ✓ | | ✓ |
| No. of positions | 2, 4, 6, 10, 16, 20, 22 | 2, 3, 4, 5, 6, 8, 10, 12, 14, 16, 17, 20 | 2, 3, 4, 5, 6, 8, 10, 12, 14, 15, 16, 17, 20, 22 | 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20 | 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 | 20, 30, 40, 50 | 20, 30, 40, 50 | 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 | 16, 20, 24, 28, 32, 40 | 2, 5, 6, 7, 8, 10, 11, 12, 14, 16, 20, 22, 26, 30 | 21, 31 |
| AWG range | 36 | 32-28 | 36, 32 | 32-28 | 30 | 32-28 | 32-28 | 32-28 | 32-28 | 32-28 | 32-28 |
| Remarks | | Compatible with SUR header | * 0.2A for AWG #36 | SR IDC header is compatible with SH crimp style connector | Compatible with SH header | | | | | Low-profile design | For LVDS applications |

Wire-to-Board connectors (2)

| Pitch | 1.2 mm | | | 1.25 mm | | | | | 1.3 mm | |
|------------------------|--------------------------|--------------------------|--------------------------|--|--|--|--|---|--|---------|
| Product Series | ACH | ACHF | ACHL | GH | GHD | GVH | GERD | GX/GXW | ADH | |
| Current Rating | 2.0A (AWG #28) | 2.5A (AWG #28) | 2.0A (AWG #28) | 1.0A (AWG #28) | *1.0A (AWG #26) | 1.0A (AWG #26) | 1.5A (AWG #26) | *2.0A (AWG #26) | 3.0A (AWG #26) | |
| Voltage Rating | 50V | 50V | 50V | 50V | 50V | 50V | 50V | 50V | 30V | |
| Temp. Range (°C) | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | |
| Orientation | *Top | *Top | *Top | Top/Side | Top/Side | *Top/Side | Top/Side | **Top/Side | *Top | |
| Crimp | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | |
| IDC | | | | | | | | ✓ | | |
| Through Hole | | | | | | | | | | |
| SMT | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Dual-Row | | | | | ✓ | | ✓ | *** | | |
| Wire-to-Wire Available | ✓ | | | | | | | | | |
| Positive Locking | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| No. of positions | 1, 2, 3, 4, 5 | 3, 4, 6 | 2 | 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 | 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, **34, 36, 38, 40 | 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 | 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40 | 2, 3, 4, 5, 6, 7, 8, 9, 11, 13, 15, 17, 19, 21, 23, 25, 32, 36, 40 | 2, 3, 4, 5, 6, 7, 8, 9, 11, 13, 15, 17, 19, 21, 23, 25, 32, 36, 40 | 2, 3, 5 |
| AWG range | 30-28 | 30-28 | 30-28 | 30-26 | 32-26 | 30-26 | 30-26 | 28-26 | 28-26 | |
| Remarks | *Top entry, Side feed | *Top entry, Side feed | *Top entry, Side feed | | *Gold-plated 1.25A for Tin-plated **Only for Tin-plated | *Top entry, Side feed | | *1.5A(AWG #26) for GXW **Top entry only for GXW ***GXW only | *Top entry, Side feed | |

Wire-to-Board connectors (3)

| Pitch | 1.5 mm | | | | | 1.8 mm | | 2.0 mm | | | | |
|---------------------------|--|--|--|---|---|-------------------|-------------------|---|--|--|--|-----------------------------------|
| Product Series | AUH | ZE | ZH | ZPD | ZR | LEA | SFH | KR | PA | PA High Box type | PAD | |
| Current Rating | 1.0A/5.0A (AWG #22) | 2.0A (AWG #24) | 1.0A (AWG #26) | *2.0A (AWG #24) | 0.7A (AWG #28) | 3.0A (AWG #22) | 4.0A (AWG #22) | 1.0A (AWG #26) | 3.0A (AWG #22) | 3.0A (AWG #22) | 3.0A (AWG #22) | |
| Voltage Rating | 30V | 100V | 50V | 100V | 50V | 300V | 350V | 100V | *250V | *250V | 250V | |
| Temp. Range (°C) | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -55 to +105 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | |
| Orientation | *Top | Top/Side | Top/Side | Top/Side | Top/Side | Side | Side | Top/Side | Top/Side /Bottom | Top | Top/Side | |
| Crimp | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| IDC | | | | | ✓ | | | ✓ | | | | |
| Through Hole | | ✓ | ✓ | | ✓ | | | ✓ | ✓ | | ✓ | |
| SMT | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Dual-Row | | | | ✓ | | | | | | | ✓ | |
| Wire-to-Wire Available | | | | | | | | | ✓ | | | |
| Positive Locking | | ✓ | | ✓ | | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| No. of positions | 3, 5 | 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 | 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 | 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40 | 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 | 2 | 2 | 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 | 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 | 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 | 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 | 10, 12, 14, 16, 20, 22, 24, 40 |
| AWG range | 30-22 | 30-24 | 32-26 | 28-24 | 30, 28 | 30-22 | 30-22 | 28-26 | 28-22 | 28-22 | 28-22 | |
| Remarks | Signal/Power Hybrid *Top entry, side feed | | Socket compatible with IDC type ZR | *1.5A for 32-40 circuits | • Compatible with ZH header • IDC version of ZH | | | • IDC version of PH series • Header is interchange- able with PH crimp style connectors | *100V with retainer mountable type / High Box type available | *100V with retainer mountable type | | |

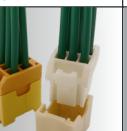
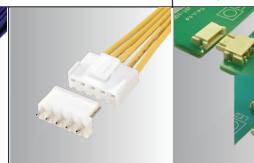
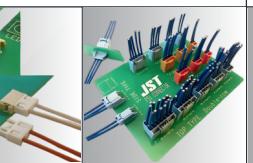
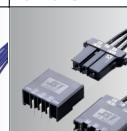
Wire-to-Board connectors (4)

| Pitch | 2.0 mm | | | | | | | | 2.2 mm | 2.5 mm |
|------------------------|--|---------------------------|-------------------|--|---|---|---|----------------------------|---|--|
| Product Series | PAMU | PBV | PBD | PH | PH High Box type | PHD | PND | PNI | PUD | JFA J1000 |
| Current Rating | *3.0A/1.0A | 3.0A (AWG #22) | 3.0A (AWG #22) | 2.0A (AWG #24) | 2.0A (AWG #24) | 3.0A (AWG #22) | 3.0A (AWG #22) | 3.0A (AWG #22) | 3.0A (AWG #22) | *6.4A |
| Voltage Rating | 1000V withstand voltage | 100V | 100V | 100V | 100V | 250V | 250V | 100V | 250V | 250V |
| Temp. Range (°C) | -40 to +125 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -55 to +105 |
| Orientation | Top/Side | Top/Side | Side | Top/Side | Top | Top/Side | Top | Top | Top/Side | Top/Side |
| Crimp | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| IDC | | | | | | | | | | |
| Through Hole | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| SMT | ✓ | ✓ | ✓ | ✓ | | | | | ✓ | |
| Dual-Row | | | ✓ | ✓ | | | | | ✓ | ✓ |
| Wire-to-Wire Available | | | | | | | | ✓ | | ✓ |
| Positive Locking | ✓ | ✓ | ✓ | | | | ✓ | ✓ | ✓ | ✓ |
| No. of positions | 2, 3, 4, 5, 6, 8 | 2, 3, 4, 6, 8, 10, 12, 15 | 16, 20, 30 | 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 | 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 | 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 26, 28, 30, 32, 34, 36, 38, 40, 42 | 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42 | 2, 3, 4, 5, 6, 7, 8, 9, 10 | 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40 | 3, 6, 8, 12, 20, 22, 26, 30 |
| AWG range | 26, 22 | 28-22 | 28-22 | 32-24 | 30-24 | 28-22 | 28-22 | 28-22 | 28-22 | 28-18 |
| Remarks | *AWG#22 : 3A AC/DC, AWG#26 : 1A AC/DC | | | Available in High Box type | Header is interchangeable with insulation displacement type KR connectors | | | High box type available | | *3 circuits, AWG #18. See catalog for details. |

Wire-to-Board connectors (5)

| Pitch | 2.5 mm | | | | | | | | | |
|---------------------------|--|-------------------|---|--|--|---|---|----------------------------|----------------------------|----------------------------|
| Product Series | JFA J2000 | LEX | NR | NRD | XA | XAD | XH | XH High Box type | XM | XNI |
| Current Rating | *4.6A | 3.0A (AWG #22) | 2.0A (AWG #24) | 2.0A (AWG #24) | 3.0A (AWG #22, #20) | 3.0A (AWG #22, #20) | 3.0A (AWG #22) | 3.0A (AWG #22) | 3.0A (AWG #22, #20) | 3.0A (AWG #22) |
| Voltage Rating | 250V | 300V | 250V | 250V | 250V | 250V | 250V | 250V | 250V | 250V |
| Temp. Range (°C) | -55 to +105 | -55 to +105 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 |
| Orientation | Top/Side | Bottom | * Top | Top/Side | Top/Side | Top/Side | Top/Side | Top | Top | Top |
| Crimp | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| IDC | | | ✓ | ✓ | | | | | | |
| Through Hole | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| SMT | | ✓ | | | ✓ | | ✓ | | | |
| Dual-Row | ✓ | | | | | ✓ | | | | |
| Wire-to-Wire Available | ✓ | | | ✓ | ✓ | ✓ | | | ✓ | |
| Positive Locking | ✓ | ✓ | | ✓ | ✓ | ✓ | | | ✓ | ✓ |
| No. of positions | 3, 4, 6, 8, 10, 12, 16, 20, 30, 40 | 2, 4 | 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14 | 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 16 | 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 18, 20 | 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 40 | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 20 | 2, 3, 4, 5, 6, 7, 8, 9, 10 | 2, 3, 4, 5, 6, 7, 8, 9, 10 | 2, 3, 4, 5, 6, 7, 8, 9, 10 |
| AWG range | 28-20 | 30-22 | 28-24 | 28, 26, 24 | 28-20 | 28-20 | 30-22 | 30-22 | 28-20 | 30-22 |
| Remarks | *3 circuits, AWG #20. • 3.5mm pitch also available • See catalog for details. | | *Top entry, Side feed / Compatible with XH header | For daisy chain connection / Compatible with XAF as IDC version | Compatible with XAF as IDC version | | | | High box type | |

Wire-to-Board connectors (6)

| Pitch | 3.0 mm | 3.81mm | 3.96 mm | 4.0 mm | | 5.0 mm | 5.08mm | * 6.0 mm | 6.2 mm | Hybrid | |
|---------------------------|---|---|---|---|--|---|---|---|--|---|----------------------------|
| |  |  |  |  |  |  |  |  |  |  | |
| Product Series | BSS | JFA J300 3.81mm | HL | VH | LEB | PSI | XL | JFA J300 5.08mm | JFA J4000 | VL | LBT Type A |
| Current Rating | *7.0A | *15.0A | *7.0A | 10.0A (AWG #16) | 3.0A (AWG #22) | *12.0A | *10.0A | *15.0A | **22.0A | *20.0A | 0.5A/8.0A (AWG #28/#20) |
| Voltage Rating | 250V | 250V | 300V | 250V | 300V | 300V | 150V | 600V | 600V | 600V | 50V |
| Temp. Range (°C) | -25 to +85 | -55 to +105 | -25 to +90 | -25 to +85 | -55 to +105 | -25 to +85 | -25 to +90 | -55 to +105 | -55 to +105 | -25 to +90 | -25 to +85 |
| Orientation | Top | Top/Side | Top | Top/Side | Side | Top/Side | Top/Side | Top/Side | Top/Side | Top | Side |
| Crimp | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| IDC | | | | | | | | | | | |
| Through Hole | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | |
| SMT | ✓ | | | | ✓ | | | | | | ✓ |
| Dual-Row | ✓ | ✓ | ✓ | | | ✓ | | ✓ | | ✓ | |
| Wire-to-Wire Available | | ✓ | ✓ | | | | ✓ | ✓ | | ✓ | |
| Positive Locking | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | |
| No. of positions | 4, 6, 8, 10 | 3, 4, 5, 6, 8, 10 | 4, 8, 12 | 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 | 1, 2 | 2, 3, 4, 5, 6, 8, 10, 12, 14 | 2, 3, 4, 6, 8, 12, 16 | 1, 2, 3, 4, 5, 6, 8, 10, 12, 16, 20, 40 | 2, 3, 4, 6 | 2, 3, 4, 6, 8, 12 | 1, 3, 5, 7 |
| AWG range | 22-18 | 28-14 | 22-18 | 22-16 | 26-22 | 26-16 | 26-16 | 28-14 | 16-12 | 22-12 | 28-20 |
| Remarks | *4 circuits, AWG #18. See catalog for details. Inertial lock mechanism | *1 circuit, AWG #14. See catalog for details. | *4 circuits, AWG #18. See catalog for details. | High box type available | Horizontal Board-to-Board type available | *2 circuits, AWG #16. See catalog for details. | *2 circuits, AWG #16. See catalog for details. | *1 circuit, AWG #14. See catalog for details. | * J4300S is 6.35mm pitch *2 circuits, AWG #12. See catalog for details. | *2 circuits, AWG #12. See catalog for details. | Power supply circuit x2 |

Wire-to-Wire connectors

| Pitch | 1.2 mm | 1.5 mm | 2.0 mm | 2.5 mm | | | | | | 4.5 mm | | |
|----------------------------|------------|--|------------------------|-------------------------|--|--|---|--|--|--------------------|---|---|
| Product Series | ACH | ZM | PAL | PNI | SM | XA | XAD | XM | XMA | EL | YL | |
| Current Rating | 2.0A | 0.7A (AWG #28) | 3.0A (AWG #22) | 3.0A (AWG #22) | 3.0A | 3.0A (AWG #22, #20) | 3.0A (AWG #20) | 3.0A | 3.0A (AWG #22) | 10.0A (AWG #22) | *10.0A | |
| Voltage Rating | 50V | 50V | 100V | 100V | 250V | 250V | 250V | 250V | 250V | 300V | 300V | |
| Temp. Range (°C) | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +90 | -25 to +90 | |
| Signal/Power Hybrid | | | | | | | | | | | | |
| Crimp | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Dual-Row | | | | | | | ✓ | | | ✓ | ✓ | |
| Wire-to-Board Available | ✓ | | ✓ | ✓ | | ✓ | ✓ | | | | | |
| Positive Locking | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| No. of positions | 2 | 2, 3, 9, 13 | 2, 3, 4, 5, 6, 7, 8 | 2, 3, 4, 5, 6, 8, 10 | 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 18 | 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 | 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 40, | 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 18 | 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 18 | 2, 3, 4, 5, 6 | 2, 3, 4, 6, 9, 12, 15 | 1, 2, 3, 4, 6, 8, 9, 12, 15, 16, 21 |
| AWG range | 30-28 | 30-28 | 28-22 | 28-22 | 28-22 | 28-20 | 28-20 | 28-20 | 26-22 | 26-16 | 26-16 | |
| Remarks | | Mates with ZH (crimp) and ZR (IDC) sockets | | | | | | | | | Triple row is also available *1 circuit, AWG #16. See catalog for details. | |

COMPARISON CHART

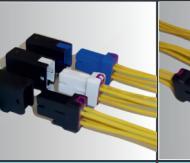
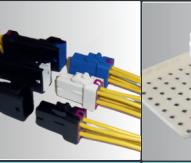
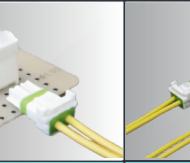
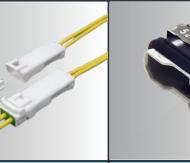
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Board-to-Board connectors, Coaxial

| Pitch | 0.35 mm | 0.5 mm | 1.25 mm | 2.5 mm | | | | | |
|------------------|--|---|---|---|--|---|---|---|--|
| |  |  |  |  |  |  |  |  | |
| Product Series | JKGN | JMC | JMD | JE | JED | JQ | JL | HVQ | |
| Current Rating | 0.5A | 0.5A | 0.5A | 1.0A | 1.0A | 3.0A | 3.0A | 3.0A | |
| Voltage Rating | 30V | 50V | 50V | 50V | 50V | 250V | 250V | 250V | |
| Temp. Range (°C) | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | |
| Orientation | Vertical | Vertical/Perpendicular | Top/Side | Perpendicular | Vertical/Perpendicular | Vertical/Perpendicular/Horizontal | Top | Vertical/Perpendicular/Horizontal | |
| Through Hole | | | | ✓ | ✓ | ✓ | ✓ | ✓ | |
| SMT | ✓ | ✓ | ✓ | | | | | | |
| Dual-Row | ✓ | ✓ | ✓ | | ✓ | | | | |
| Positive Locking | | | | ✓ | ✓ | ✓ | ✓ | ✓ | |
| PCB Thickness | - | - | - | 1.6mm | 0.8-1.0mm | 1.6mm | 1.6mm | 1.6mm | |
| Stack height | 1.0mm, 1.5mm | 3mm-10mm standard type / 4mm-11mm misalignment absorption type | 4.5mm-6.0mm | - | 7.0mm | 11.8mm | - | 11.4mm | |
| No. of positions | 40, 60, 70, 90 | 14, 16, 18, 20, 24, 30, 34, 40, 42, 46, 50, 60, 64 | 20, 30, 40, 50, 60, 70, 80, 100 | 5, 7, 9, 11, 13, 15, 17, 19 | 8, 16, 22 | 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25 | 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25 | | |
| Remarks | <ul style="list-style-type: none"> High retention force Board-to-Board FPC connection possible | Versatile connector system | | | Compatible with XH connector | | | | |

| Pitch | - |
|---|--|
|  | |
| Product Series | AYU2T |
| Current Rating | 0.3A |
| Voltage Rating | 30Vms |
| Temp. Range (°C) | -25 to +85 |
| Orientation | *Top |
| Crimp | |
| IDC | |
| Through Hole | |
| SMT | ✓ |
| No. of positions | 1 |
| AWG range | Φ 0.81 |
| Remarks | <ul style="list-style-type: none"> Micro coaxial connector Frequency range : DC to 20 GHz <p>*Top entry, side feed</p> |

Waterproof

| Pitch | 1.5 mm | 2.0 mm | 4.0 mm | | 5.0 mm | | - | - | |
|-------------------|---|---|---|--|---|---|---|--|--------------------------|
| |  |  |  |  |  |  |  |  | |
| Product Series | ZWP | JWPF Wire-to-Board | JWPF Wire-to-Wire | JWPS Wire-to-Board | JWPS Wire-to-Wire | WPJ Wire-to-Board | WPJ Wire-to-Wire | UB Micro USB Waterproof | UBC type-C Waterproof |
| Current Rating | 2.0A (AWG #24) | 3.0A (AWG #22) | 3.0A (AWG #22) | **6.0A (AWG #18) | **6.0A (AWG #18) | 7.0A (AWG #18) | 7.0A (AWG #18) | **1.8A(power)/ 0.5A(signal) | 1.25A/ 0.25A |
| Voltage Rating | 50V | 100V | 100V | 300V | 300V | 300V | 300V | 30V | 20V |
| Temp. Range (°C) | -25 to +85 | -55 to +85 | -55 to +85 | -55 to +85 | -55 to +85 | -25 to +85 | -25 to +85 | -30 to +85 | -25 to +85 |
| Orientation | - | Top | - | Side | - | Top | - | - | - |
| Termination style | - | TH | - | TH | - | TH | - | - | SMT |
| Dual-Row | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - |
| Positive Locking | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - |
| Waterproof | *IPX7 | *IPX7 | *IPX7 | *IPX7 | *IPX7 | *IPX7 | *IPX7 | ***IPX7 | *IPX8 |
| No. of positions | 2, 3, 4, 5, 6, 8 | 2, 3, 4, 6, 8 | 2, 3, 4, 6, 8 | 2, 4 | 2, 4 | 2, 3 | 2, 3 | 5 | 24 |
| AWG range | 28-24 | 26-22 | 26-22 | 22-18 | 22-18 | 22-18 | 22-18 | - | - |
| Remarks | | | Panel lock type available | **4A for AWG #22, 5A for AWG #20 | **4A for AWG #22, 5A for AWG #20 | | | • Power supply up to maximum of 100W • USB3.2 compliant with a data transmission rate of up to 20 Gbps • **1.0A for signal use only ***Submerged in 1 meter of water for up to 30 minutes | |

*Submerged in 2 meters of water for up to 60 minutes

FFC/FPC (1)

| Pitch | 0.2 mm | 0.25 mm | 0.3 mm | 0.5 mm | | | | | |
|-------------------|----------------|--|---|--|--|---|--|--|--------------------------|
| Product Series | FVR | FGEM | FXR | FXZT | FHA | FHT | FHJ | FHSY | FHH |
| Current Rating | 0.2A | 0.2A | 0.2A | 0.2A | 0.5A | 0.5A | 0.5A | 0.5A | 0.5A |
| Voltage Rating | 50V | 50V | 50V | 50V | 50V | 50V | 50V | 50V | 50V |
| Temp. Range (°C) | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 |
| Orientation | Side | Side | Side | Top | Side | Top | Side | Side | Side |
| Latching method | Back flip | Mid flip | Front flip | Inner or Outer lock | Snap-in | Snap-in | Snap-in | Front flip | Back flip |
| Contact location | Double | Double | Bottom | One-sided | Double | Double | Top | Bottom | Double |
| Tin/Gold plated | Gold | Gold | Gold | Gold | Gold | Gold | Gold/Tin | Gold | Gold |
| Closing style | ZIF | ZIF | ZIF | ZIF | non-ZIF | non-ZIF | non-ZIF | ZIF | ZIF |
| Height | 0.95mm | 1.4mm | 1.0mm | 3.7mm | 1.1mm | 3.3mm | 1.2mm | 0.9mm | 2.0mm |
| FPC/FPC thickness | 0.2mm | 0.2mm | 0.2mm | 0.2mm | 0.3mm | 0.3mm | 0.3mm | 0.3mm | 0.3mm |
| Termination style | SMT | SMT | SMT | SMT | SMT | SMT | SMT | SMT | SMT |
| No. of positions | 39, 51, 61, 71 | 13, 17, 19, 23, 27, 35, 39, 41, 45, 51 | 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 45, 47, 51, 61 | (Inner lock) 17, 21, 23, 27, 31, 33, 39 (Outer lock) 45, 51 | 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30 | 4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 32 | 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 21, 24 | 4, 5, 6, 8, 10, 11, 12, 14, 15, 16, 17, 18, 20, 22, 24, 27, 28 | 10, 20, 30, 40, 50, 60 |
| Remarks | | | <ul style="list-style-type: none"> Tilt type For FPC with protrusions | Low profile | | Low profile | Halogen-free | Shock and vibration applications | For FPC with protrusions |

FFC/FPC (2)

| Pitch | 0.5 mm | | | | | 1.0 mm | | | 1.25 mm | |
|-------------------|---|---|--|---|---|---|--------------------------------|---------------------------|------------------------|------------|
| Product Series | FKZ | FLH | FLT | FLZ | FLZT | FM | FMN | FMS | FFS | |
| Current Rating | 0.5A | 0.5A | 0.5A | 0.5A | 0.5A | 0.5A | 0.5A | 0.5A | 0.5A | 0.5A |
| Voltage Rating | 50V | 50V | 50V | 50V | 50V | 50V | 50V | 50V | 50V | 50V |
| Temp. Range (°C) | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 | -25 to +85 |
| Orientation | Side | Side | Top | Side | Top | Top/Side | Top/Side | Side | Side | |
| Latching method | Snap-in | Snap-in | Snap-in | Snap-in/Inner lock (32 circuits and above) | Snap-in | Snap-in | Snap-in | Snap-in | Snap-in | Snap-in |
| Contact location | Top or Bottom | Top or Bottom | One-sided | Top or Bottom | Left or Right side | Double | Top or Bottom Left or Right | Double | Top and Bottom | |
| Tin/Gold plated | Tin | Tin | Tin | Tin | Tin | Tin | Tin | Tin | Tin | |
| Closing style | ZIF | ZIF | non-ZIF | ZIF | ZIF | non-ZIF | non-ZIF | non-ZIF | non-ZIF | |
| Height | 1.8mm | 1.2mm | 4.15mm | 1.2mm | 3.9mm | 3.0/4.4mm | 3.0/5.1mm | 2.8mm | 2.8mm | |
| FPC/FPC thickness | 0.3mm | 0.3mm | 0.3mm | 0.3mm | 0.3mm | 0.33mm | 0.3mm | 0.3mm | 0.3mm | |
| Termination style | SMT | SMT | SMT | SMT | SMT | SMT/TH | SMT/TH | SMT | SMT | |
| No. of positions | (Normal type) 5, 6, 8, 12, 14, 16, 18, 19, 20, 22, 24, 26, 27, 30, 32 (Reverse type) 5, 6, 8, 12, 13, 14, 16, 18, 19, 20, 22, 24, 26, 27, 30, 32 | (Normal type) 4, 6, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 20, 21, 22, 24, 30, 40 (Reverse type) 4, 6, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 20, 21, 22, 24, 30, 40 | 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 40 | (Normal type) 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32, 33, 34, 36, 40, 42, 50 (Reverse type) 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32, 34, 36, 40 | (Normal/Reverse type) 6, 8, 10, 12, 14, 15, 16, 20, 22, 24, 28, 30, 37, 40, 42 | (TH Top/Side entry, SMT Side entry type) 3, 4, 5, 6, 7, 8, 10, 11, 12 (SMT Top entry type) 4, 5, 6, 7, 8, 10 | *4 - 40 | 3, 4, 5, 6, 8, 10, 12, 14 | 4, 5, 6, 8, 15, 21, 26 | |
| Remarks | | | | | | | *See catalog for details | | | |

INTRODUCING JST GAM ASSEMBLY SERVICES: PRECISION ENGINEERING FOR SEAMLESS INTEGRATION

Established in 2008 as Guntersville Appliance Lab (GAL) and Guntersville Engineering Center (GEC), we've evolved into Guntersville Assembly Manufacturing (GAM), a division of JST. GAM specializes in wire termination services, using state-of-the-art machines crafted by JST for IDC connectors (0.6mm to 2.5mm pitch) and crimp-style connectors.

OUR PRODUCTS

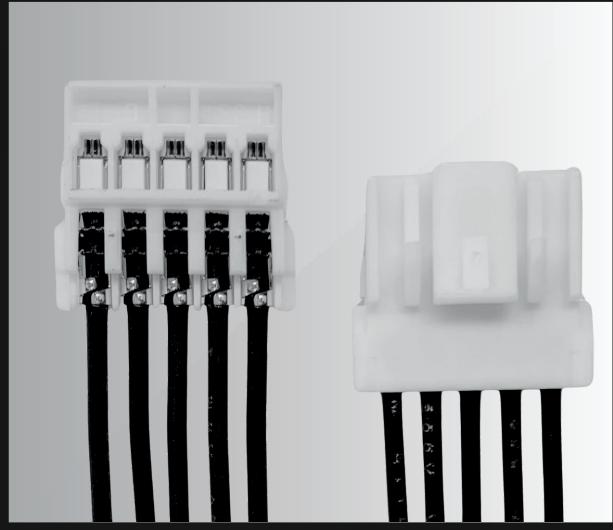
Since 2017, GAM has led the way in connectivity solutions. Our catalog features standard assemblies and pre-crimped leads, ranging from 2 to 12 inches in length (in 2-inch increments).

Our IDC connectors offer double-ended standards, with versatile pin-out orientations from 1 to 1 and 1 to N*. Unlike traditional connectors, our IDC assemblies eliminate manual labor, thanks to our JST-designed fully automatic assembly machines. With these machines, we can produce up to 5 assemblies in under 5 seconds, ensuring speed and cost-effectiveness.

For crimp style connectors, we provide double-ended pre-crimped leads for wire-to-board and wire-to-wire setups. GAM accommodates custom requirements, tailoring solutions to your exact specifications.

Our capabilities extend to longer lengths, with IDC machines crafting assemblies up to 1300mm (51 inches), and cut/strip/terminate machines producing crimped leads up to 33 feet. We also utilize JST-designed assembly twisting machines, offering a cost-effective alternative for precision and reliability.

*: N = the last circuit



OUR LATEST SERVICE : LOW-PRESSURE OVER-MOLDING

- ✓ Our latest enhancement to our capabilities introduces low-pressure over-molding, adding further value to our product line.

This includes:

- Custom over-mold cable assemblies
- Faster curing alternative to PCB potting
- Sealing grommet and strain relief applications
- Thru-Way products for JST connectors that currently do not offer wire-to-wire alternatives

- ✓ As a new standard catalog feature, GAM is proud to introduce the integration of over-molding onto jacketed cables and incorporating strain reliefs for our popular waterproof JWPF series. This standard offering will be available in male-to-male, male-to-female, and female-to-female configurations, offered at the following lengths:

- 1.5 feet
- 3 feet
- 6.5 feet

Custom lengths will also be available upon request.

- ✓ With the JWPF series already boasting an ingress protection rating of IPX7, our latest enhancement aims to elevate this standard further to achieve a minimum rating of IP67 through the application of over-molding.

Our over-molded JWPF standard assemblies are designed to deliver superior performance in the following markets where the series is already widely utilized:

- Appliance
- ATV's
- E-Bikes
- Motorcycles
- Autonomous Lawn Mowers
- Boating / Marine
- Hot Tubs / Spas
- Medical



JST GAM is your trusted partner for superior connectivity solutions, where innovation meets reliability.





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