

ODD Series

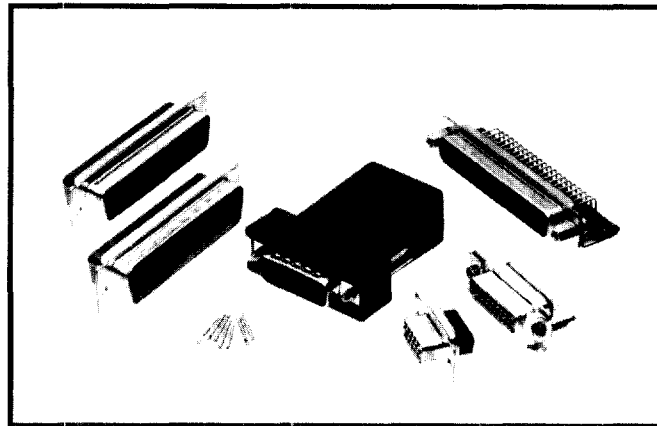
PROFESSIONAL QUALITY, REMOVABLE CONTACT, HIGH DENSITY
SUBMINIATURE-D CONNECTORS
FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

Size 22 Contacts,
Removable Crimp and
Fixed Press-Fit and
Solder Printed Board Mount
Professional Quality

U.L. Recognized
File #E49351

CSA Recognized
File #LR54219

Telecommunication
U.L. File #14098



ODD Series connectors are low cost, professional quality, high density rectangular connectors recommended for use in sheltered, non-corrosive indoor environments having normal ventilation.

ODD Series connectors utilize precision machined, removable contacts having closed barrel crimp terminations and solder cup wire terminations. For printed board mount application, press-fit and straight solder printed board mount and 90° angled solder terminations are available.

Female removable contacts feature a rugged "Robi-D Open

Entry" design. Female, fixed contacts for board mounted applications feature both rugged Robi-D design and standard open entry design, available to customer requirements.

Six standard contact variants are offered in arrangements of 15, 26, 44, 62, 78, and 104 contacts. ODD Series connectors are mateable and compatible with other high density D-subminiature connectors conforming to MIL-DTL-24308, and are U.L. and CSA recognized.

ODD Series connectors are widely used in computer and industrial control applications.

ODD SERIES TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

| | |
|--------------------------------|--|
| Insulators: | Glass filled polyester per MIL-M-24519, UL 94V-0, black color. |
| Contacts: | Male contacts – precision machined brass alloy or phosphor bronze. Female contacts – precision machined high tensile phosphor bronze. |
| Contact Plating: | Professional quality – gold flash over nickel plate. Other finishes available upon request. |
| Shells: | Steel or brass with tin plate, zinc plate with dichromate seal. |
| Mounting Spacers: | Nylon, plastic and brass, zinc plate with dichromate seal. |
| Vibration Lock Systems: | Slide lock and lock tabs, steel with nickel plate. |
| Push-On Fasteners: | Phosphor bronze or beryllium copper with tin plate. |
| Jackscrew Systems: | Steel with zinc plate and dichromate seal, or clear zinc plate. |
| Hoods: | Thermoplastic UL 94V-0. Composite, brass or steel with zinc plate and dichromate seal. |

ELECTRICAL CHARACTERISTICS:

| | |
|---|----------------------|
| Contact Current Rating: | 5 amperes nominal. |
| Initial Contact Resistance: | 0.010 ohms maximum. |
| Proof Voltage: | 1000 V r.m.s. |
| Insulator Resistance: | 5 G ohms. |
| Clearance and Creepage Distance (minimum): | 0.042 inch (1.06mm). |
| Working Voltage: | 300 V r.m.s. |

CLIMATIC CHARACTERISTICS:

| | |
|---------------------------------|------------------|
| Temperature Range: | -55°C to +125°C. |
| Damp Heat, Steady State: | 10 days. |

MECHANICAL CHARACTERISTICS:

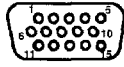
| | |
|--|---|
| Removable Contacts: | Insert contact to rear face of insulator and release from rear face of insulator. Size 22 contact, male – 0.030 inch (0.76mm) diameter; female removable contacts feature a rugged "Robi-D Open Entry" design. |
| Fixed Contacts, Board Mounted Applications: | Female contact – both rugged Robi-D design and standard open entry design available to customer requirements. |
| Contact Retention In Insulator: | 9 lbs. (40 N). |
| Contact Terminations: | Closed barrel crimp, wire sizes 22 AWG (0.3mm ²) through 30 AWG (0.05mm ²). Solder cup wire, 0.035 inch (0.89mm) hole diameter for 22 AWG (0.3mm ²) wire maximum. 0.020 inch (0.5mm) or 0.030 inch (0.76mm) diameter straight and 90° printed board mount contact terminations. Solid Press-Fit – 0.034 inch (0.86mm) across points with 0.020 inch (0.51mm) lead. Solid metal construction. Compliant Press-Fit – 0.047 inch (1.19mm) diameter with 0.022 inch (0.56mm) lead-in diameter. |
| Shells: | Male shells may be dimpled for EMI/ESD ground paths. |
| Polarization: | Trapezoidally shaped shells and polarized jackscrews. |
| Mounting To Angle Brackets: | Jackscrews and riveted fasteners with 0.120 inch (3.05mm) clearance hole, and threaded riveted fasteners with 4-40 threads and nylon lock inserts. |
| Mounting To Printed Board: | Rapid installation push-on fasteners and mounting posts. |
| Locking Systems: | Jackscrews and vibration locking systems. |
| Mechanical Operations: | 500 operations minimum per IEC 512-5. |

ODD Series

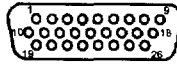
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CONTACT VARIANTS

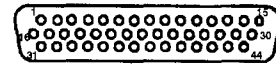
FACE VIEW OF MALE OR REAR VIEW OF FEMALE



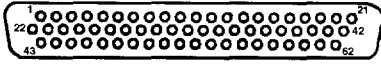
ODD 15



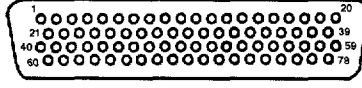
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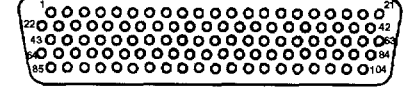
ODD 44



ODD 62

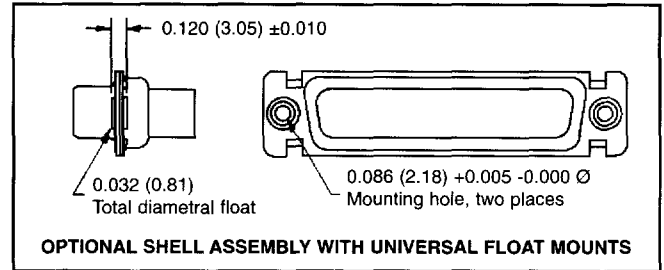
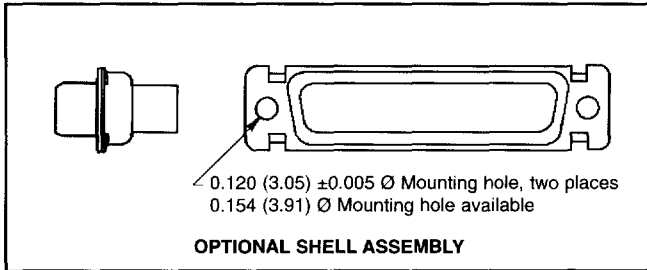
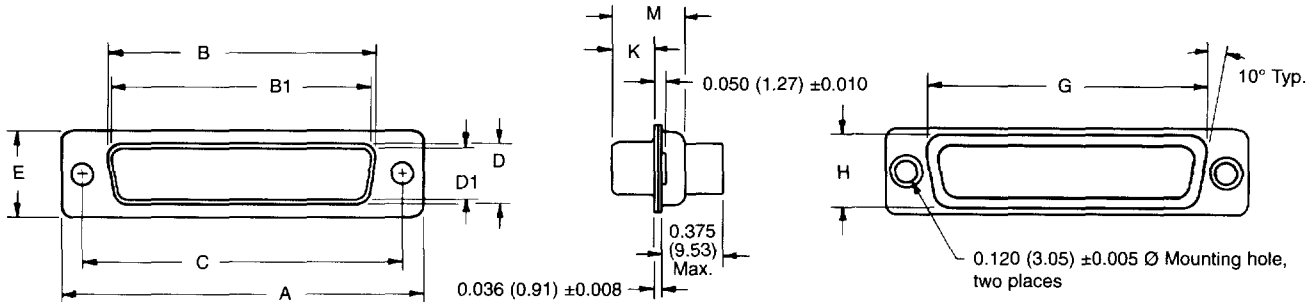


ODD 78



ODD 104

STANDARD SHELL ASSEMBLY



| CONNECTOR VARIANT SIZES | A ±0.015 | B ±0.005 | B1 ±0.005 | C ±0.005 | D ±0.005 | D1 ±0.005 | E ±0.015 | G ±0.010 | H ±0.010 | K ±0.005 | M ±0.010 |
|-------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|------------------|
| ODD 15 M | 1.213 (30.81) | | 0.666 (16.92) | 0.984 (24.99) | | 0.329 (8.36) | 0.494 (12.55) | 0.759 (19.28) | 0.422 (10.72) | 0.233 (5.92) | 0.422 (10.72) |
| ODD 15 F | 1.213 (30.81) | 0.643 (16.33) | | 0.984 (24.99) | 0.311 (7.90) | | 0.494 (12.55) | 0.759 (19.28) | 0.422 (10.72) | 0.243 (6.17) | 0.429 (10.90) |
| ODD 26 M | 1.541 (39.14) | | 0.994 (25.25) | 1.312 (33.32) | | 0.329 (8.36) | 0.494 (12.55) | 1.083 (27.51) | 0.422 (10.72) | 0.233 (5.92) | 0.422 (10.72) |
| ODD 26 F | 1.541 (39.14) | 0.971 (24.66) | | 1.312 (33.32) | 0.311 (7.90) | | 0.494 (12.55) | 1.083 (27.51) | 0.422 (10.72) | 0.243 (6.17) | 0.429 (10.90) |
| ODD 44 M | 2.088 (53.04) | | 1.534 (38.96) | 1.852 (47.04) | | 0.329 (8.36) | 0.494 (12.55) | 1.625 (41.28) | 0.422 (10.72) | 0.230 (5.84) | 0.426 (10.82) |
| ODD 44 F | 2.088 (53.04) | 1.511 (38.38) | | 1.852 (47.04) | 0.311 (7.90) | | 0.494 (12.55) | 1.625 (41.28) | 0.422 (10.72) | 0.243 (6.17) | 0.429 (10.90) |
| ODD 62 M | 2.729 (69.32) | | 2.182 (55.42) | 2.500 (63.50) | | 0.329 (8.36) | 0.494 (12.55) | 2.272 (57.71) | 0.422 (10.72) | 0.230 (5.84) | 0.426 (10.82) |
| ODD 62 F | 2.729 (69.32) | 2.159 (54.84) | | 2.500 (63.50) | 0.311 (7.90) | | 0.494 (12.55) | 2.272 (57.71) | 0.422 (10.72) | 0.243 (6.17) | 0.429 (10.90) |
| ODD 78 M | 2.635 (66.93) | | 2.079 (52.81) | 2.406 (61.11) | | 0.441 (11.20) | 0.605 (15.37) | 2.178 (55.32) | 0.534 (13.56) | 0.230 (5.84) | 0.426 (10.82) |
| ODD 78 F | 2.635 (66.93) | 2.064 (52.43) | | 2.406 (61.11) | 0.423 (10.74) | | 0.605 (15.37) | 2.178 (55.32) | 0.534 (13.56) | 0.243 (6.17) | 0.429 (10.90) |
| ODD 104 M | 2.729 (69.32) | | 2.212 (56.18) | 2.500 (63.50) | | 0.503 (12.78) | 0.668 (16.97) | 2.302 (58.47) | 0.596 (15.14) | 0.230 (5.84) | 0.426 (10.82) |
| ODD 104 F | 2.729 (69.32) | 2.189 (55.60) | | 2.500 (63.50) | 0.485 (12.32) | | 0.668 (16.97) | 2.302 (58.47) | 0.596 (15.14) | 0.243 (6.17) | 0.429 (10.90) |

DIMENSIONS ARE IN INCHES (MILLIMETERS). ALL DIMENSIONS ARE SUBJECT TO CHANGE.

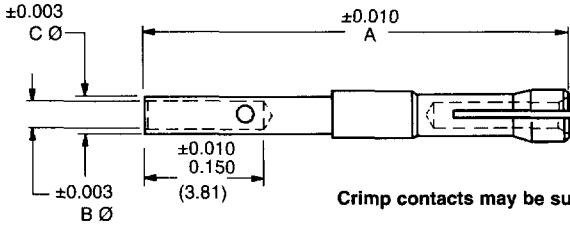
ODD Series

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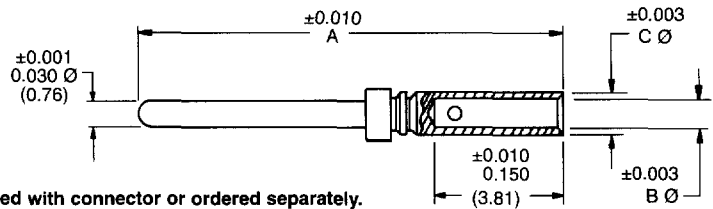
CRIMP CONTACTS

CLOSED CRIMP BARREL

FEMALE CONTACT



MALE CONTACT



Crimp contacts may be supplied kitted with connector or ordered separately.

| PART NUMBER | WIRE SIZE AWG/(mm ²) | A | B Ø | C Ø |
|-------------|---|------------------|-----------------|-----------------|
| FC8122D | 22 / 24 / 26 / 28 / 30 (0.3/0.25/0.12/0.08/0.05) | 0.529 (13.44) | 0.035 (0.89) | 0.047 (1.19) |

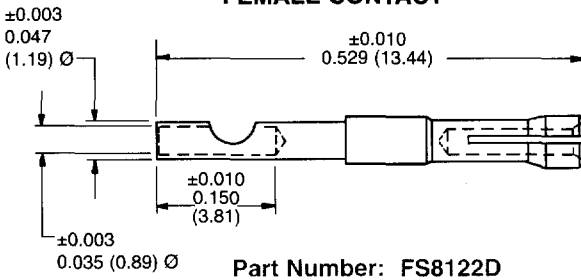
Material - Phosphor bronze
Plating - Gold flash over nickel

| PART NUMBER | WIRE SIZE AWG/(mm ²) | A | B Ø | C Ø |
|-------------|---|------------------|-----------------|-----------------|
| MC8122D | 22 / 24 / 26 / 28 / 30 (0.3/0.25/0.12/0.08/0.05) | 0.531 (13.49) | 0.035 (0.89) | 0.047 (1.19) |

Material - Brass
Plating - Gold flash over nickel

SOLDER CUP CONTACTS

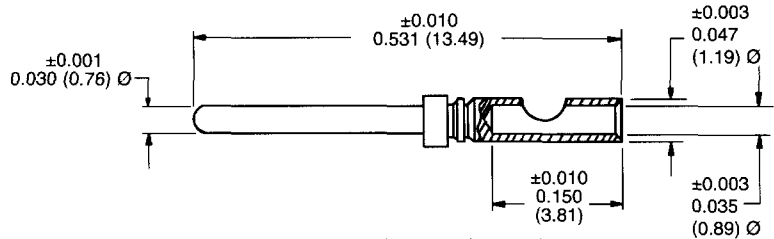
FEMALE CONTACT



Part Number: FS8122D

Material - Phosphor bronze
Plating - Gold flash over nickel

MALE CONTACT

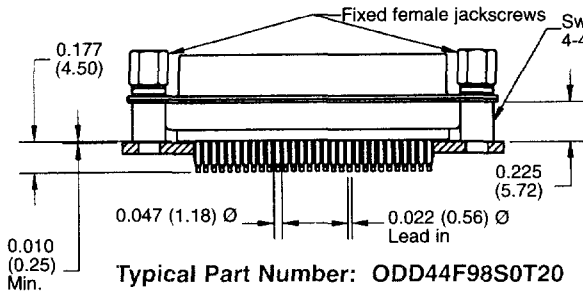


Part Number: MS8122D

Material - Brass
Plating - Gold flash over nickel

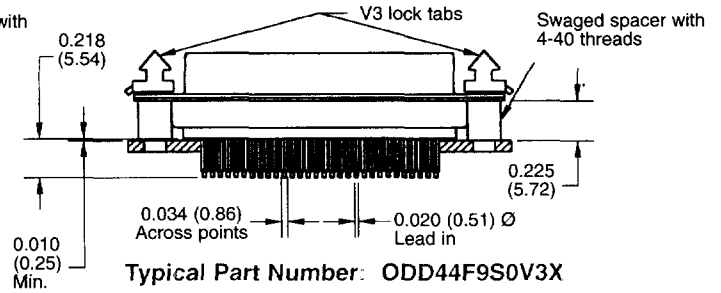
Solder contacts may be supplied kitted with connector or ordered separately.

Press-Fit CONNECTOR



Typical Part Number: ODD44F98S0T20

For "Omega" Press-Fit contacts, specify code 98 in step 4 ordering information.



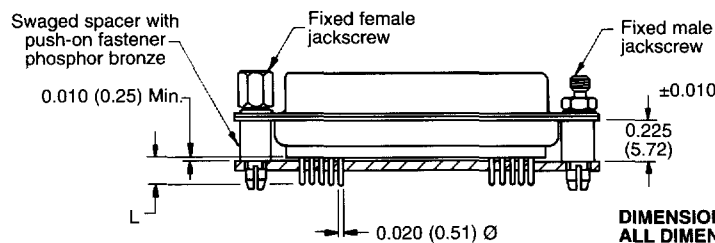
Typical Part Number: ODD44F9S0V3X

For solid press-fit contacts, specify code 9 in step 4 ordering information.

STRAIGHT PRINTED BOARD MOUNT CONNECTOR

| Code No. | L |
|----------|-----------------|
| 3 | 0.150 (3.81) |
| 32 | 0.300 (7.62) |

For straight printed board mount contacts specify code no. in step 4 of ordering information



Typical Part Number: ODD62F3S60T6X

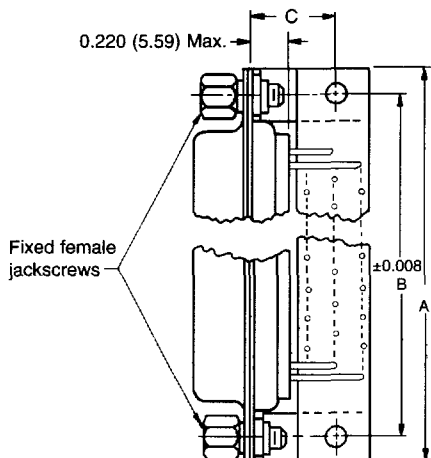
DIMENSIONS ARE IN INCHES (MILLIMETERS).
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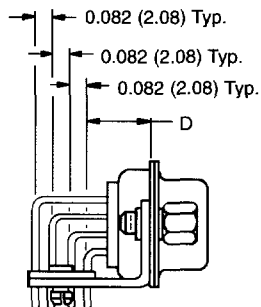
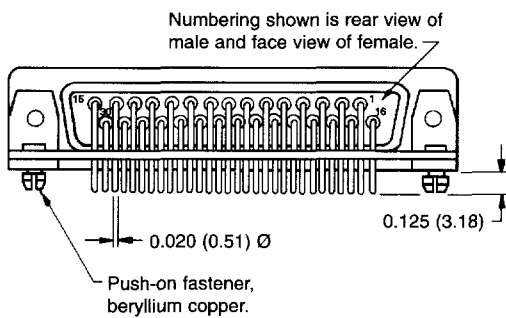
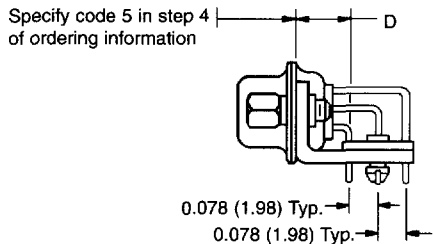
90° PRINTED BOARD MOUNT CONNECTOR

CODE 5, 0.450 (11.50) CONTACT EXTENSION RUGGED "Robi-D Open Entry" FEMALE CONTACT



| ODD005R7000 0.450 (11.43) CONTACT EXTENSION | | | | |
|---|------------------|------------------|------------------|------------------|
| PART NUMBER | A | B | C | D |
| ODD1505R7000 | 1.204 (30.58) | 0.984 (24.99) | 0.528 (13.41) | 0.450 (11.43) |
| ODD2605R7000 | 1.532 (38.91) | 1.312 (33.32) | 0.528 (13.41) | 0.450 (11.43) |
| ODD4405R7000 | 2.072 (52.63) | 1.852 (47.04) | 0.528 (13.41) | 0.450 (11.43) |
| ODD6205R7000 | 2.720 (69.09) | 2.500 (63.50) | 0.528 (13.41) | 0.450 (11.43) |
| ODD7805R7000 | 2.626 (66.70) | 2.406 (61.11) | 0.573 (14.55) | 0.450 (11.43) |

See next page for size 104 Right Angle Connectors.

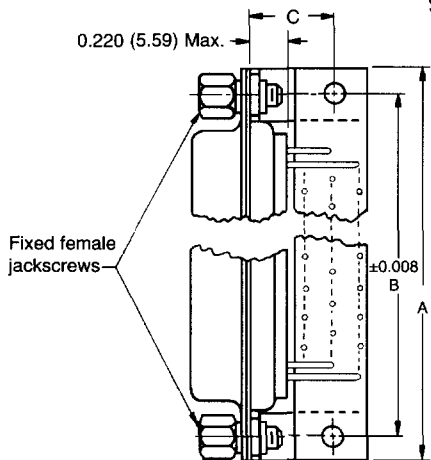


Typical Part Number:
ODD44F5R7NT2X

Typical Part Number:
ODD78M5R7NT20

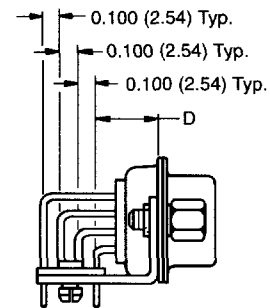
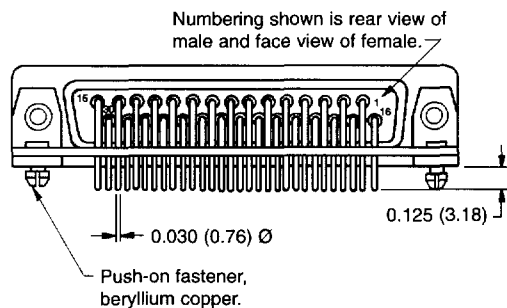
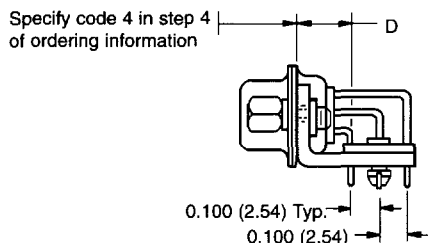
90° PRINTED BOARD MOUNT CONNECTOR

CODE 4, 0.314 (7.98) CONTACT EXTENSION SLOTTED OPEN ENTRY FEMALE CONTACT



| ODD004R7000 0.314 (7.98) CONTACT EXTENSION | | | | |
|--|------------------|------------------|------------------|-----------------|
| PART NUMBER | A | B | C | D |
| ODD1504R7000 | 1.204 (30.58) | 0.984 (24.99) | 0.414 (10.52) | 0.314 (7.98) |
| ODD2604R7000 | 1.532 (38.91) | 1.312 (33.32) | 0.414 (10.52) | 0.314 (7.98) |
| ODD4404R7000 | 2.072 (52.63) | 1.852 (47.04) | 0.414 (10.52) | 0.314 (7.98) |
| ODD6204R7000 | 2.720 (69.09) | 2.500 (63.50) | 0.414 (10.52) | 0.314 (7.98) |
| ODD7804R7000 | 2.626 (66.70) | 2.406 (61.11) | 0.414 (10.52) | 0.314 (7.98) |

See next page for size 104 Right Angle Connectors.



Typical Part Number:
ODD44F4R7NT2X

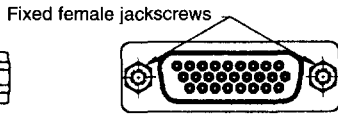
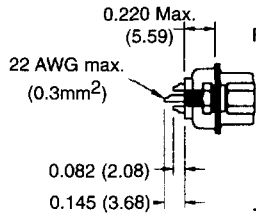
Typical Part Number:
ODD78M4R7NT20

DIMENSIONS ARE IN INCHES (MILLIMETERS).
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ODD Series

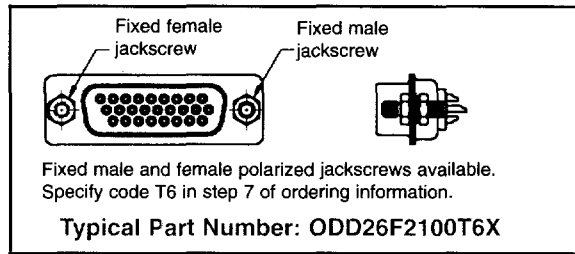
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FIXED CONTACT SOLDER CUP CONNECTOR



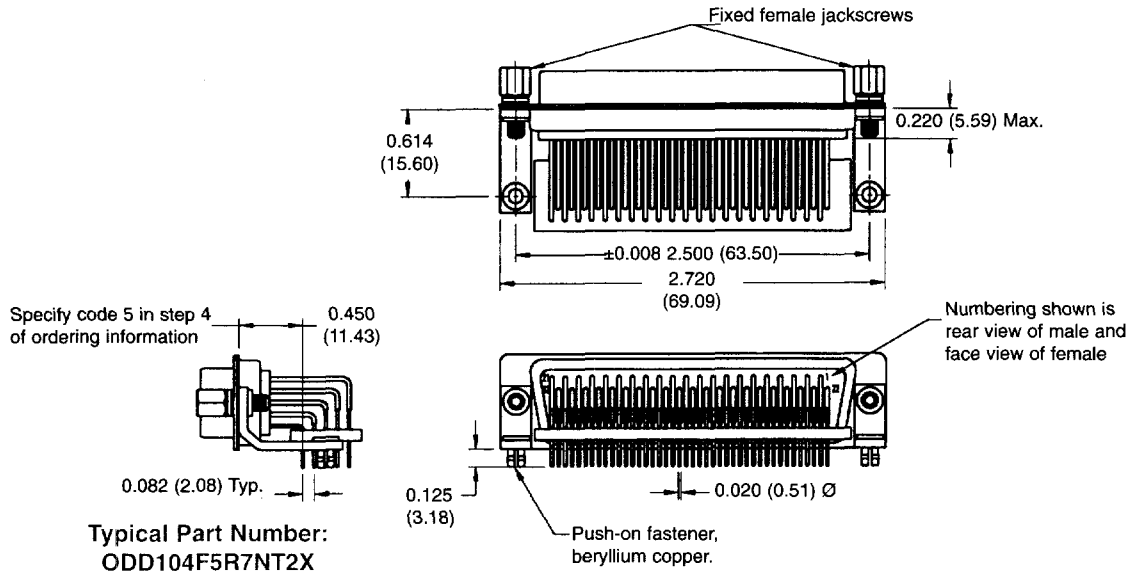
For fixed solder cup contacts, specify code 21 in step 4 of ordering information.

Typical Part Number: ODD26F2100T2X



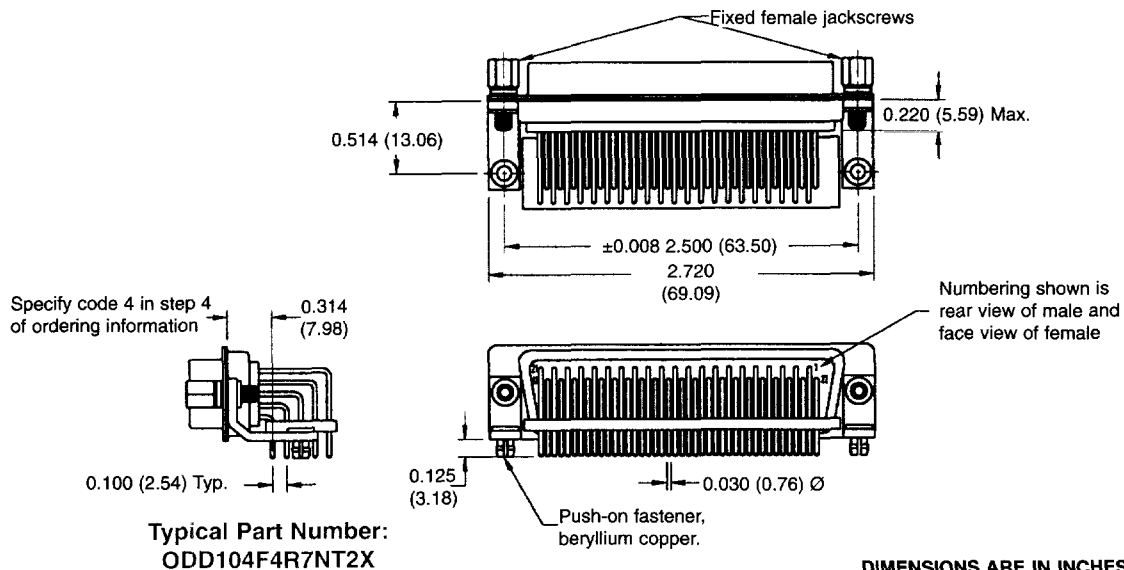
90° PRINTED BOARD MOUNT CONNECTOR

CODE 5, 0.450 (11.43) CONTACT EXTENSION
RUGGED "Robi-D Open Entry" FEMALE CONTACT
CONTACT VARIANT 104



90° PRINTED BOARD MOUNT CONNECTOR

CODE 4, 0.314 (7.98) CONTACT EXTENSION
SLOTTED OPEN ENTRY FEMALE CONTACT
CONTACT VARIANT 104



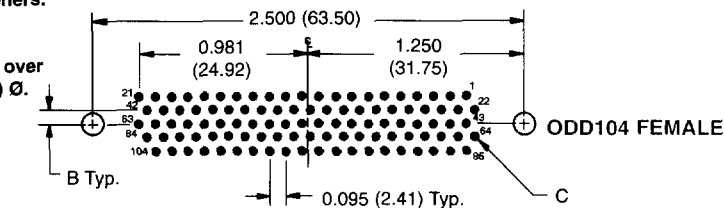
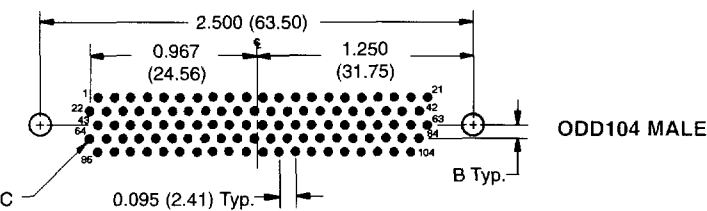
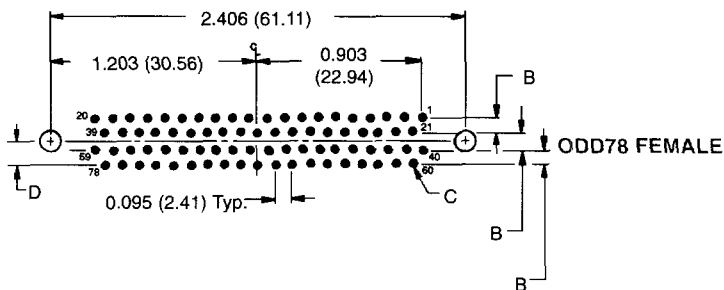
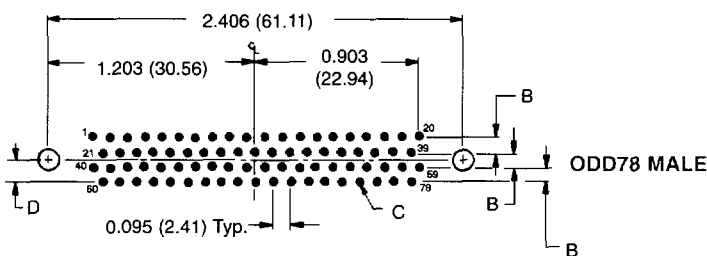
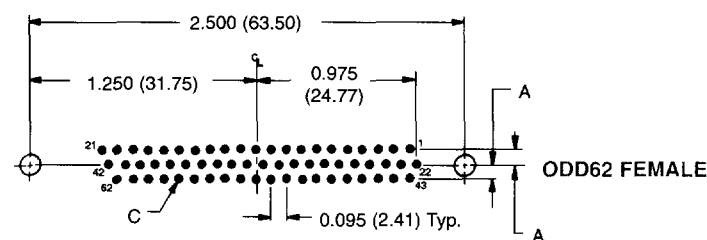
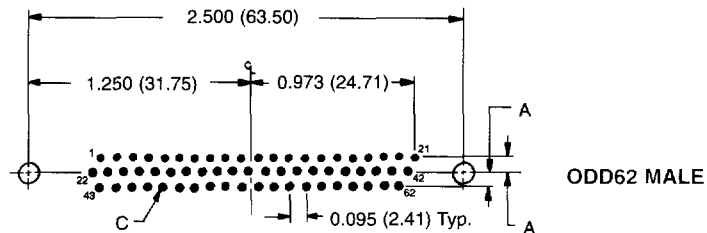
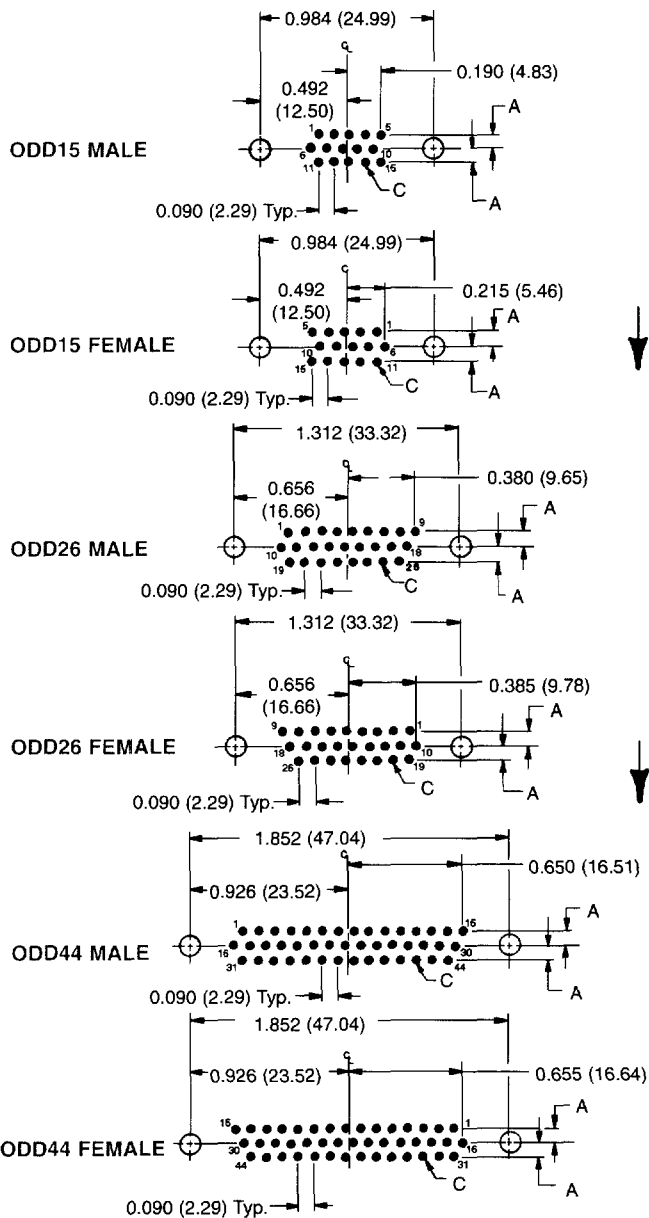
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90° AND STRAIGHT PRINTED BOARD CONTACT HOLE PATTERN

Mount connector with mating face positioned to follow direction of arrows.



| CODE NUMBER | A | B | C Ø | D |
|-------------|-----------------|-----------------|-----------------|-----------------|
| 4 | 0.100 (2.54) | 0.100 (2.54) | 0.045 (1.14) | 0.100 (2.54) |
| 3, 32, 5 | 0.078 (1.98) | 0.082 (2.08) | 0.035 (0.89) | 0.123 (3.12) |
| 9, 98 | 0.078 (1.98) | 0.082 (2.08) | * | 0.123 (3.12) |

Suggest 0.123 ± 0.003 (3.12) Ø hole for mounting connector with push-on fasteners.
Suggest 0.035 ± 0.0010 (0.90) Ø drill with 0.0006 (15µ) minimum tin or tin/lead over 0.0010 (25µ) minimum copper plate. Final hole is $0.0315 + 0.0010 - 0.0020$ (0.80) Ø.
For Code 9 Solid Press-Fit Contacts:
*Suggest 0.0355 ± 0.0010 (0.90) Ø drill with 0.0006 (15µ) minimum tin or tin/lead over 0.0010 (25µ) minimum copper plate. Final hole is $0.0315 + 0.0010 - 0.0020$ (0.80) Ø.
*For Code 98 "Omega" Compliant Press-Fit Contacts:
Suggest 0.0453 ± 0.0010 (1.150) Ø hole with 0.0005 (0.013) minimum tin or tin/lead over 0.001 (0.03) minimum copper plate. Final hole size is $0.0394 + 0.0035 - 0.0024$ (1.000 + 0.090 - 0.060) Ø

DIMENSIONS ARE IN INCHES (MILLIMETERS).
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

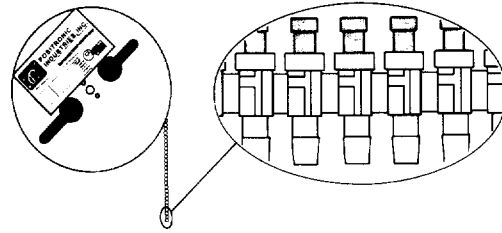
ODD Series

PROFESSIONAL QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

REELS FOR AUTOMATIC FEED PNEUMATIC CRIMP TOOLS

Contacts may be supplied in plastic carriers, packaged in reels holding 2,000 contacts for use with the automatic feed pneumatic crimp tools, catalog part number 9550-1. The same type carrier is used for both male and female contacts.

All male and female crimp contacts can be ordered in reels by adding letter "R" after the contact part number, such as MC8122DR for a male contact and FC8122DR for a female contact.



Enlarged section of plastic contact carrier.

ORDERING INFORMATION – CODE NUMBERING SYSTEM

Specify Complete Connector By Following Steps 1 Through 9
Insert "0" When Step Is Not Used

| STEP | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|------|-----|----|---|---|----|---|----|---|---|
| | ODD | 62 | F | 5 | R7 | N | T6 | S | |

STEP 1 - Basic Series

ODD Series

STEP 2 - ODD Series Connector Variants

15, 26, 44, 62, 78, 104

STEP 3 - Connector Gender

M - Male
F - Female

STEP 4 - Type of Contacts

- 0 - Ordered Without Contacts.
- 1 - Crimp, 22 AWG–30 AWG (0.3mm²–0.05mm²).
- 2 - Solder cup, 22 AWG–30 AWG (0.3mm²–0.05mm²), Removable contacts.
- 21 - Solder cup, 22 AWG–30 AWG (0.3mm²–0.05mm²), Fixed contacts.
- 3 - Solder, Straight Printed Board Mount with 0.150 (3.81) Tail Length.
- 32 - Solder, Straight Printed Board Mount with 0.300 (7.62) Tail Length.
- 4 - Solder, 90° Printed Board Mount with 0.314 (7.98) Contact Extension.
- 5 - Solder, 90° Printed Board Mount with 0.450 (11.43) Contact Extension.
- 9 - Press-Fit, Solid.
- 98 - Press-Fit, Compliant.

*STEP 5 - Mounting Style

- 0 - Mounting Hole, 0.120 (3.05) Ø.
- B3 - Bracket, Mounting, 90° Metal with Cross Bar.
- B8 - Bracket, Mounting, 90° Plastic with Cross Bar.
- F - Float Mounts, Universal.
- P - Threaded Post, Brass, 0.225 (5.71) Length.
- P2 - Threaded Post, Nylon, 0.225 (5.71) Length.
- R2 - Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Thread Fixed Female Jackscrews with Cross Bar.
- R6 - Bracket, Mounting, 90° Metal, Swaged to Connector with 0.120 (3.05) Ø Mounting Hole with Cross Bar.
- R7 - Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Threads with Cross Bar.
- R8 - Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Locknut with Cross Bar.
- S - Swaged Spacer, 4-40 Threads, 0.225 (5.71) Length.
- S2 - Swaged Spacer, 4-40 Threads, 0.125 (3.18) Length.
- S5 - Swaged Locknut, 4-40 Threads.
- S6 - Swaged Spacer with Push-on Fasteners, 4-40 Threads, 0.225 (5.71) Length.
- S7 - Swaged Spacer with Push-on Fastener for use with Ferrite Inductor, 4-40 Threads, 0.375 (9.53) Length.

STEP 9 - Special Options

Consult Sales Department.

STEP 8 - Shell Options

- 0 - Zinc Plated with Dichromate Seal.
- S - Stainless Steel.
- X - Tin Plated.
- Z - Tin Plated and Dimpled.

*STEP 7 - Locking and Polarizing Systems

- 0 - None.
- V3 - Lock Tab, connector front panel mounted.
- V5 - Lock Tab, connector rear panel mounted.
- VL - Lock Lever, used with Hoods Only.
- T - Fixed Female Jackscrews.
- T2 - Fixed Female Jackscrews.
- T6 - Fixed Male and Female Polarized Jackscrews.
- E - Rotating Male Jackscrews.
- E2 - Rotating Male Screw Locks.
- E6 - Rotating Male and Female Polarized Jackscrews.

*STEP 6 - Hoods and Push-On Fasteners

- 0 - None.
- J - Hood, Top Opening, Plastic.
- L - Hood, Side Opening, Plastic.
- Y - Hood, Top Opening, Plastic with Rotating Male Jackscrews. Available in size 78 and 104 only.
- Y6 - Hood, Top Opening, Plastic with Rotating Male and Female Polarized Jackscrews. Available in size 78 and 104 only.
- Z - Hood, Top or Side Opening, Robust Extended Height, Composite and Plastic with Rotating Male Jackscrews. Available in size 15, 26, 44, 62 and 78 only.
- H - Hood, Top Opening, Metal. Available in size 26, 44, 62, and 78 only.
- G - Hood, EMI/RFI, Metal. Available in size 15, 26, 44, 62, and 78 only.
- W - Hood, Top or Side Opening, Plastic. Available in size 15, 26, and 44 only.
- N - Push-on Fastener, for 90° Mounting.
- **F - Ferrite Inductor.
- **Q - Ferrite Inductor with Push-on Fastener, for 90° Mounting Brackets.

*For additional information on accessories listed in steps 5, 6 and 7, see Accessory Catalog.

**Ferrite inductor is available on contact types 32 and 5 only.

For ODD crimping information, see DD Series, p. 26 & 27.

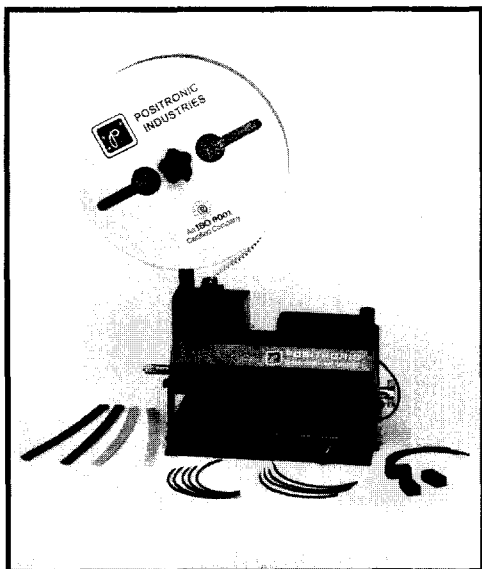
ODD Series

PROFESSIONAL QUALITY, REMOVABLE CONTACT, HIGH DENSITY SUBMINIATURE-D CONNECTORS FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

AUTOMATIC FEED CRIMP TOOL, PNEUMATICALLY ACTUATED Part No. 9550-1

This fast cycling automatic feed crimp tool produces an 8 indent crimp configuration and will crimp wire sizes 20 AWG (0.5mm²) through 32 AWG (0.03mm²). ODD Series contacts must be ordered on reels.

To order, specify part number 9550-1. Foot control valve is supplied as a standard accessory.



MINIATURE STEP ADJUSTABLE TOOL (M22520/2-01) Part No. 9507

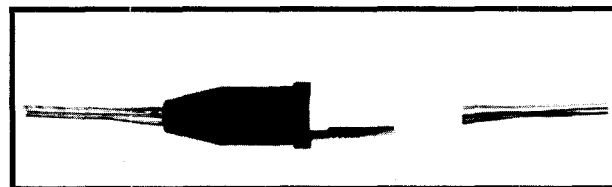
This miniature step adjustable hand crimping tool produces an 8 indent crimp configuration and will crimp wire sizes 20 AWG (0.5mm²) through 32 AWG (0.03mm²).

To crimp female contacts, order contact positioner 9502-3. To crimp male contacts, order contact positioner 9502-4. Each positioner is equipped with a data plate which gives the correct crimp-depth setting for each wire size, and must be used with 9507 tool frame for best results when crimping ODD Series contacts.



INSERTION/REMOVAL TOOL (M81969/1-04)

One end of this tool is used to insert contacts into ODD Series connectors. The other end is used to extract contacts. This is accomplished by sliding the extraction tip down the wire into the connector until it bottoms against the contact. A slight rotation while pushing will release the contacts, which are then extracted by simultaneously pulling on the wire.



Positronic Recommended Conductor Tensile Strength

| WIRE SIZE AWG/(mm ²) | AXIAL LOAD POUNDS/(N) |
|-------------------------------------|--------------------------|
| 22 (0.3) | 12 (53) |
| 24 (0.25) | 8 (36) |
| 26 (0.12) | 5 (22) |
| 28 (0.08) | 3 (13) |
| 30 (0.05) | 1.5 (4.4) |

Conductor tensile strength values are derived using silver-tin plated copper wires.

Values may change depending upon what type of wire is used.

Positronic recommended tools for ODD series contacts.

| CRIMP TOOLS | POSITIONERS FOR FC8122D | POSITIONERS FOR MC8122D |
|---|----------------------------|----------------------------|
| 9507, HAND CRIMP TOOL | 9502-3 | 9502-4 |
| 9550-1, AUTOMATIC FEED PNEUMATIC CRIMP TOOL | Supplied in reels | Supplied in reels |