

Quadrax Contacts and Connectors
iSRayfast

## Introduction



## Materials

Contacts, Shells, Ferrules -
Copper alloy with gold over nickel finish. One-piece thermoplastic dielectric.

## Performance Characteristics

## Maximum Mating Force per

 Contact Assembly - 2.75 lbf .Minimum Un-mating Force per
Contact Assembly - 1.25 lbf .
Durability - 500 mating/
unmating cycles

## Typical Electrical

 Performance:Bandwidth - as high as
3 GHz (see characterization chart on page 3)
Data Rate -
in excess of $2 \mathrm{~Gb} / \mathrm{s}$
Characteristic Impedance -
100 ohms $\pm 10$ ohms
Maximum Voltage Rating -
500 Vrms @ sea level
Dielectric Withstanding Voltage -
1000 VAC rms between any two
contacts @ sea level; 500 VAC rms
between any contact and
outer shell @ sea level

## Technical Documents

Product Specifications
108-2131 Quadrax Cable and PCB Connectors
108-2199 Quadrax MLL-DTL-38999
Style Connectors
108-2311 Quadrax 4Q4 In-Line
D-Sub Style Connectors
Test Reports
501-574 Quadrax Cable and PCB Connectors
501-660 Quadrax MLL-DTL-38999
Style Connectors
501-738 Quadrax 4Q4 In-Line D-Sub Style Connectors
502-1182 Quadrax Rectangular Connector

- Qualified to Boeing Spec. BPS-C-193
Application Specifications
114-13123 Quadrax Rectangular Connectors and Quadrax Contacts
114-13163 Quadrax Circular Connectors and Quadrax Contacts
114-13190 In-Line Quadrax/Twinax Connectors
114-13233 Quadrax D-Sub Connectors and Quadrax Contacts


## Electrical Characteristics

Designed for use with
100 ohm and 150 ohm
characteristic impedance
star quad cable. Reference
contact chart on page 10.
■ Signal integrity testing was
completed per SFF-8410
(see engineering test report
502-1182).
■ Characteristic impedance:
100 ohm 10 ohm nominal
(measured 102.85 ohms)
■ Near end cross talk
(NEXT) in the time domain:
0.89\% measured on Tek
11801C Digital Sampling
Oscilloscope
■ Eye Patterns (Differential
Mode, 1 meter and 11.2
meter cable test lengths)
The minimum output eye
opening for a 1 V launch
voltage measured at $50 \%$
of the period is:

- 1 meter, 100 MHz Eye
Opening 928.53 mV
- 1 meter, 1.25 GHz Eye
Opening 839.77 mV
- 11.2 meter, 100 MHz Eye
Opening 761.60 mV
- 11.2 meter, 1.25 GHz Eye
Opening 315.20 mV


## Return Loss

| 1 Meter Cable Length |  |  |
| :--- | :---: | :---: |
| Frequency MHz |  |  |
| 50 |  |  |
| 50 |  |  |
| 62 |  |  |

11.2 Meter Cable Length

| Frequency MHz | dB | VSWR $^{*}$ |
| :---: | :---: | :---: |
| 50 | 35.26 | 1.035 |
| 62 | 36.87 | 1.029 |
| 102 | 38.90 | 1.023 |
| 502 | 26.02 | 1.105 |
| 1002 | 14.62 | 1.456 |
| 1798 | 11.74 | 1.698 |
| 2502 | 13.34 | 1.549 |
| 3702 | 6.54 | 2.781 |

*calculated

## Insertion Loss

1 Meter Cable Length

| Frequency $\mathbf{~ M H z}$ | $\mathbf{d B}$ |
| :---: | :--- |
| 50 | 0.13 |
| 62 | 0.19 |
| 102 | 0.27 |
| 502 | 0.87 |
| 1002 | 1.39 |
| 2002 | 2.48 |
| 3002 | 3.29 |

11.2 Meter Cable Length

| Frequency MHz | $\mathbf{d B}$ |
| :---: | :---: |
| 50 | 1.87 |
| 62 | 2.13 |
| 102 | 2.72 |
| 502 | 6.38 |
| 1002 | 10.06 |
| 1798 | 15.69 |
| 2502 | 19.47 |
| 3702 | 28.20 |

Eye Pattern, 100 Ohm Cable
(Time Domain Measurement of Voltage vs. Time)

$100 \mathrm{Mb} / \mathrm{s}$ Data Rate


1 Gb/s Data Rate

## Quadrax Contacts



Product Facts

- Patented one-piece dielectric inserts for easy assembly and lowest applied cost
■ Available with silicone seal boots rated for 50,000 ft. altitude immersion
Crimp type, screw machined, 24 AWG contacts
■ Quadrax size 8 shells are keyed per ARINC 600 for correct orientation inside connector inserts

■ Twinax contacts: Qualification tests pending
■ Direct Attach to PCB

- Asymmetric standoff leg provides built-in keying to PC board
■ Internally keyed contacts for MIL-DTL-38999 connectors

PC Tail Contacts

| Part No. | Description | Dim. A |
| :--- | :--- | :---: |
| $1445626-1$ | Contact, Pin, Solder Tail | $.228[5.79]$ |
| $1445626-2$ | Contact, Pin, Solder Tail | $.422[10.72]$ |
| $1445626-3$ | Contact, Pin, Solder Tail | $.181[4.60]$ |
| $1445626-4$ | Contact, Pin, Solder Tail | $.297[7.54]$ |
| $1445626-5^{*}$ | Contact, Pin, Solder Tail | $.297[7.54]$ |
|  |  |  |
| Crimp Style Contacts ${ }^{1}$ |  | Hex Crimp |
| Part No. | Description | .218 |
| $1445692-1$ | Contact Kit, Pin, Crimp | .218 |
| $1445692-3^{* *}$ | Contact Kit, Pin, Crimp, with wire seal boot | - |
| $1445692-4^{* * *}$ | Contact Kit, Pin, Crimp, with wire seal boot* | .218 |
| $1445693-1$ | Contact Kit, Socket, Crimp | .218 |
| $1445693-3^{* *}$ | Contact Kit, Socket, Crimp, with wire seal boot | - |
| $1445693-4^{* * * *}$ | Contact Kit, Socket, Crimp, with wire seal boot |  |

Reference cables: Tensolite NF24Q100, NF26Q100, 24443/03130X-4(LD), 24443/9P025X-4(LD); Raychem CEC-RWC-18687, Raychem CEC-RWC-18664

| $1445692-5^{* *}$ | Contact Kit, Pin, Crimp with wire seal boot | .218 |
| :--- | :--- | :--- |
| $1445692-6$ | Contact Kit, Pin, Crimp | .218 |
| $1445693-5^{* *}$ | Contact Kit, Socket, Crimp with wire seal boot | .218 |
| $1445693-6$ | Contact Kit, Socket, Crimp | .218 |

Reference cables: DRAKA F4703-3, F4704-4-insulation diameter is larger

|  |  | Hex Crimp |
| :--- | :--- | :---: |
| $1877039-1$ | Contact Kit, Pin, Crimp | .231 |
| $1877039-2^{\star \star}$ | Contact Kit, Pin, Crimp with wire seal boot | .231 |
| $1877040-1$ | Contact Kit, Socket, Crimp | .231 |
| $1877040-2^{\star \star}$ | Contact Kit, Socket, Crimp with wire seal boot | .231 |

Reference cables: Tensolite 26473/02006X-4(LD); Raychem CEC-RWC-18684, Raychem CEC-RWC-18680
*Tails are solder dipped
**Used with Quadrax rectangular and circular connectors
***Qualified to Boeing BACC47GA1
****Qualified to Boeing BACC47GB1
(1) For other cables, contact TE.

Quadrax Contacts (Continued)

## Size 8 Quadrax Contacts



| Part No. | Description | Hex Crimp |
| :--- | :--- | :---: |
| $1811010-1$ | Socket kit with heat-shrink tubing | .218 |
| $1811269-1$ | Pin kit with heat-shrink tubing | .218 |



PC Tail Contact - Direct Attach to PCB

| Part No. | Description | Tail Length | Dim A |
| :--- | :--- | :--- | :--- |
| $1954576-1$ | 150 Ohm | $.125[3.18]$ | $.250[6.35]$ |
| $1954576-2$ | 100 Ohm | $.125[3.18]$ | $.270[6.86]$ |
| $1954576-3$ | 100 Ohm | $.205[5.21]$ | $.270[6.86]$ |



## Size 8 Differential Twinax Contacts

| Part No. | Description | Hex Crimp |
| :---: | :--- | :---: |
| $1811865-1$ | Assembly, Pin, Twinax | .218 |
| $1811866-1$ | Assembly, Socket, Twinax | .218 |

See page 2 for Application Specifications

## Quadrax Contacts (Continued)

Size 8 Quadrax PCB Pin Contact Front Release/
Front Remove Design
Part No. 1445626-1**

- various tail lengths



## Blank

Front Release/
Front Remove Design
Part No. 1604940-2


Size 8 Quadrax Pin Contact -
Crimp Style
Rear Release/
Rear Remove Design
Part No. 1445692-1*

- -3 with boot


Size 8 Quadrax Socket Contact Crimp Style Rear Release/ Rear Remove Design Part No. 1445693-1*

- -3 with boot



PC Tail Contact - Direct Attach to PCB

■ 100 and 150 ohm Systems

- Simple Direct Attach to PCB without connector for component reduction
- Designed from ARINC size 8 Quadrax contacts
■ Low cost solution from both assembly and component ends

Quadrax Contacts (Continued)


Part Number 1954576-1, -2: B = . 125
Part Number 1954576-3: B = . 205

| Part No. | Impedance $(\Omega)$ | Dim A (Max) | $\operatorname{Dim~B}$ |
| :--- | :---: | :---: | :---: |
| $1954576-1$ | 150 | $.270[6.86]$ | $.125[3.18]$ |
| $1954576-2$ | 100 | $.250[6.35]$ | $.125[3.18]$ |
| $1954576-3$ | 100 | $.250[6.35]$ | $.205[5.21]$ |

## Size 8 Differential Twinax Contacts



Part No. 1811865-1 accepting ARINC 600 style Quadrax contacts


Part No. 1811866-1

Quadrax Contacts, Connectors and Cables

## Quadrax/Twinax Contact Accessories

## Size 8 Quadrax Extraction Tool

## Part No. 1738894-1



## Seal Boots



## Wire Seal Boot <br> Part No. 1811481-1 <br> Cable O.D. .145-.175

 . 218 Hex Crimp

Wire Seal Boot

## Part No. 1811943-1

Cable O.D. .170-. 200
.231 Hex Crimp


Solid Seal Boot
Part No. 1811633-1 otherwise specified.

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France: +33 (0) 1-3420-8686 Netherlands: +31 (0) 73-6246-999 China: +86 (0) 400-820-6015

## ARINC Size 8 Quadrax Connectors

## Product Facts

■ Utilizes four size 24 screw-machined contacts with standard crimp tooling per
M22520/2-01 and M22520/5-01 for ease of termination
■ Front release/front removable PCB mount contact design for use in ARINC 600 receptacle connectors

- Rear release/rear remove crimp contact design for use in ARINC

600 plug connectors \& receptacles
■ Quadrax housing is keyed to assure mating alignment

- Contacts are on 2 mm centerline per ARINC 600 specification
To extract Quadrax contact from connector insert, use Extraction Tool Part Number 1738894-1
- Per Supplement 18 to ARINC Specification 600


| ARINC Size 2 Connectors <br> Part No. <br> Type | Insert Arrangement <br> A | B | C |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Note: Custom insert combinations available upon request. Contact TE.


Dimensions are in inches ( mm ) unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change. USA: +1 (800) 522-6752

## ARINC Size 8 Quadrax Connectors (Continued)

## Contact Inserts \& Arrangement Codes Shell Size 2 or 3

## Notes:

1. Available for plug or receptacle with rear release/ remove contacts.
2. Available for receptacle only with all contacts front release/remove.
3. Standard size 8 contacts will not fit in Quadrax size 8 inserts. Also, Quadrax size 8 contacts will not fit into standard size 8 inserts.
4. Available for plug only with all contacts rear release/remove.

For complete listing of all ARINC 600 insert arrangements, reference catalog 1308940.

## GPRB Insert Arrangements ${ }^{\mathbf{1 , 2}}$



## Shell Module C or F



11Q2 1, 2, 3
4 Size 20
4 Size 12
3 Size 16
2 Size 8 Quadrax


13CQ2 2, 3
62Q2 2, 3, 4
60 Size 22
2 Size 16
2 Size 8 Quadrax
3 Size 16
4 Size 12
68Q2 2, 3, 4
68 Size 22
8 Quadrax


Metal
2 Size 8 Quadrax

2 Size 8 Quadrax
Q11 1, 2, 3 11 Size 8 Quadrax Metal

118Q2 2,3, 4
118 Size 22 2 Size 8 Quadrax
and

Notes: 1. Pin inserts: Mating faces shown above.
2. In a GPRB2 shell, one insert must be "A" keyed and the other one must be " $B$ " keyed (See at right). 3. Size 8 cavity applicable for use with Arinc 600 Quadrax or Twinax contacts.

For complete listing of all General Purpose Rectangular insert arrangements, reference catalog 1654763.

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## Rectangular Connectors

Product Facts

- High performance rectangular connector
■ Available in 2, 4, and 12 positions
■ Designed for use with wire seal boots and rated for use up to $50,000 \mathrm{ft}$. altitude

■ Center jackscrew design for fast, reliable mating


| Position | Part No. | Type | Mounting Style | Style | Polarization | Note: |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 1604896-2 | Receptacle | PCB | Front Release/Front Remove | Flat |  |
|  | 1604897-5* | Receptacle | Panel Mount | Rear Release/Rear Remove | Flat |  |
|  | 1604898-5* | Plug | Free-Hanging | Rear Release/Rear Remove | Flat |  |
|  | 1604905-1 | Backshell - (1 pc) | - | - | - | Use w/1604897-5 or 1604898-5 |
| 4 | 1738949-2 | Receptacle | PCB | Front Release/Front Remove | Flat |  |
|  | 1738950-2* | Receptacle | Panel Mount | Rear Release/Rear Remove | Flat |  |
|  | 1738951-2* | Plug | Free-Hanging | Rear Release/Rear Remove | Flat |  |
|  | 1738955-1 | Backshell - (1 pc) | - | - | - | Use w/1738950-2 or 1738951-2 |
| 12 | 1604798-2 | Receptacle | PCB | Front Release/Front Remove | Flat |  |
|  | 1604799-5* | Receptacle | Panel Mount | Rear Release/Rear Remove | Flat |  |
|  | 1604800-5* | Plug | Free-Hanging | Rear Release/Rear Remove | Flat |  |
|  | 1604874-1 | Backshell - Receptacle (2 pc) | - | - | - | Use w/1604799-5 |
|  | 1604874-2 | Backshell - Plug (2 pc) | - | - | - | Use w/1604800-5 |

*Jackscrew/Jackpost hardware included but not installed

## 2 Position



PCB Mount Receptacle (Part No. 1604896)

SPIRALOCK is a trademark of
Detroit Tool Industries Corporation.

Dimensions are in inches ( mm ) unless otherwise specified.


Panel Mount Receptacle (Part No. 1604897)


Free-Hanging Plug (Part No. 1604898)

## Rectangular Connectors (Continued)

## 4 Position



PCB Mount Receptacle (Part No. 1738949)


6-32 SPIRALOCK Threads Through, 4 X


Panel Mount Receptacle (Part No. 1738950)


Jackscrew and Retention Nut Kit, Part Number 1738592-2. Included but not installed.

Free-Hanging Plug (Part No. 1738951)

## 12 Position



PCB Mount Receptacle (Part No. 1604798)


Panel Mount Receptacle (Part No. 1604799)


Free-Hanging Plug (Part No. 1604800)

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| Catalog 1654012 | Dimensions are in | Dimensions are shown for | Canada: +1 (905) 475-6222 | UK: +44 (0) 800-267666 |
| :---: | :---: | :---: | :---: | :---: |
| Revised 2/12 | inches (mm) unless | reference purposes only. | Mexico/C. Am.: +52 (0) 55-1106-0800 | France: +33 (0) 1-3420-8686 |
|  | otherwise specified. | Specifications subject to change. | Latin/S. Am.: +54 (0) 11-4733-2200 | Netherlands: +31 (0) 73-6246-999 |
| www.te.com |  | USA: +1 (800) 522-6752 | Germany: +49 (0) 6251-133-1999 | China: +86 (0) 400-820-6015 |

## Rectangular Connectors (Continued)

## Accessories

## 2 Position Low Profile <br> Seal Retainer <br> Part No. 2101752-1



ORIENTATION OF BOOT SEAL PLATE FOR PLUG APPLICATION

12 Position Backshell/ Strain Relief Kit
Part No. 1996373-1 for receptacle; Part No. 1996373-2 for plug


Wrench, Retention Nut, Jackscrew and Jackpost, Quadrax Rectangular Connector Part No. 1604972-1


4 Position Low Profile Seal Retainer Part No. 2157322-1


ORIENTATION OF BOOT SEAL PLATE FOR PLUG APPLICATION

12 Position Low Profile Seal Retainer Part No. 1996544-2

arientation af seal buat plate far plug applications

Wrench, Retention Nut,
T-handle Tool
Part No. 1950030-1
 inches ( mm ) unless otherwise specified.
www.te.com

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Rectangular Connectors (Continued)

## Low Profile Rectangular Connector Assemblies

## Product Facts

- Designed to provide a ruggedized in-line solution for Quadrax cable to printed circuit board mount applications, in a blind-mateable D-subminiature configuration
■ Quadrax contacts ground directly to connector shell


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Angle PCB Mount Receptacle (Part No. 2000314)

Accepts standard AMPLIMITE Boardlock Hardware (sold separately).


Panel-Mount or Free-Hanging Plug Kit (Part No. 2000317)

Socket Contacts included in Kit. Accepts standard AMPLIMITE Screwlock Hardware (sold separately).


Free-Hanging Receptacle Kit (Part No. 2000263)

Jackscrews, Strain Relief, and Crimp Pin Contacts included in kit.

Female Screwlock
Part No. 212447-1
Nut Driver
Part No. 811262-1

For assembling female screwlocks to
connector flange.

Dimensions are in inches ( mm ) unless otherwise specified.

UK: +44 (0) 800-267666
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Product Facts
■ Available in various shell sizes: 9 (1Q1), 17 (2Q2), 19 (4Q4) and 25 (8Q8)
■ Designed for use with wire seal boots for sealing and optimized alignment
■ Front metal-shell design provides a full ground plane
■ Lightweight composite rear shell available in size 19 for reduced weight
■ Accepts standard backshells


| Shell Size | Part No. | Type | Description |
| :---: | :---: | :---: | :---: |
| 9 | 1877384 | Plug | Single Quadrax, RR-RR |
|  | 1738916 | Receptacle | 38999 Style, Single Quadrax, FR-FR, Jam Nut Style, with PC Tail Contacts |
|  | 1811184 | Receptacle | 38999 Style, Single Quadrax, FR-FR, PCB Mount with Stand-offs and PC Tail Contacts |
|  | 2157694 | Receptacle | 38999 Style, Single Quadrax, with 1 Contact, FR-FR, Jam Nut Style, Series III |
| 17 | 1877775 | Plug | 38999 Style, Arrangement 2Q2, RR-RR |
|  | 1877774 | Receptacle | 38999 Style, Arrangement 2Q2, RR-RR |
|  | 2157455 | Receptacle | 38999 Style, Arrangement 2Q2, FR-FR, PCB Mount |
|  | 2157695 | Receptacle | 38999 Style, with 2 Quadrax Contacts, Arrangement 2Q2, FR-FR, Jam Nut Style, Series III |
| 19 | 1811902 | Plug | 38999 Style, Arrangement 4Q4, RR-RR |
|  | 1738974 | Receptacle | 38999 Style, with 4 Quadrax Contacts, FR-FR |
|  | 1877732 | Receptacle | 38999 Style, with 4 Quadrax Contacts, FR-FR, with PC Tail Contacts |
|  | 1811901 | Receptacle | 38999 Style, Arrangement 4Q4, RR-RR |
|  | 2157696 | Receptacle | 38999 Style, with 4 Quadrax Contacts, Arrangement 2Q2, FR-FR, Jam Nut Style, Series III |
| 21 | 1954355 | Plug | 38999 Style, Arrangement 4Q4, FR-FR, Series III |
|  | 1954353 | Receptacle | 38999 Style, Arrangement 4Q4, FR-FR, Series III, with PC Tail Contacts |
| 23 | 1877921 | Plug | 38999 Style, Arrangement 6Q6, Series III |
|  | 1954577 | Receptacle | 38999 Style, Arrangement 6Q6, Series III |
| 25 | 1811928 | Plug | 38999 Style, Arrangement 8Q8, RR-RR |
|  | 1811927 | Receptacle | 38999 Style, Arrangement 8Q8, RR-RR |
|  | 2101395 | Receptacle | 38999 Style, Arrangement 8Q8, FR-FR, with PC Tail Contacts |

See TE Customer Drawing for finish options
Plug, Shell Size 9 Single Quadrax, RR-RR Part No. 1877384


Receptacle, Shell Size 9, 38999 Style
Single Quadrax, FR-FR Jam Nut Style Part No. 1738916

Contacts sold separately (unless noted) see page 5
 otherwise specified.

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Receptacle, Shell Size 9, 38999 Style
Single Quadrax, FR-FR
PCB Mount with Stand-offs

Part No. 1811184
(with PC tail contacts)

## Receptacle, Shell Size 9

 38999 Style Single Quadrax, FR-FR Jam Nut Style Part No. 2157694Custom MIL-DTL-38999 Series III Style Circular Connectors (Continued)


Plug, Shell Size 17, 38999 Style Arrangement 2Q2, RR-RR Part No. 1877775


Receptacle, Shell Size 17 38999 Style
Arrangement 2Q2, RR-RR
Part No. 1877774


Contacts sold separately
(unless noted) see page 5 otherwise specified.

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Custom MIL-DTL-38999 Series III Style Circular Connectors (Continued)

Receptacle, Shell Size 17
38999 Style
Arrangement 202, FR-FR
Jam Nut Style
Part No. 2157695


Plug, Shell Size 19
38999 Style
Arrangement 4Q4, RR-RR
Part No. 1811902


Receptacle, Shell Size 19, 38999 Style w/4 Quadrax Contacts, FR-FR
Part No. 1877732 (w/ PC Tail Contacts)
Part No. 1738974 (connector only)


Contacts sold separately (unless noted) see page 5 otherwise specified.

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Receptacle, Shell Size 19, 38999 Style Arrangement 4Q4, RR-RR Part No. 1811901

Receptacle, Shell Size 19 38999 Style
Arrangement 4Q4, FR-FR Jam Nut Style Part No. 2157696


Plug, Shell Size 21, 38999 Style Arrangement 4Q4, FR-FR Series III
Part No. 1954355


Receptacle, Shell Size 21,
38999 Style
Arrangement 4Q4, FR-FR
Series III
Part No. 1954353

Plug, Shell Size 23, 38999 Style Arrangement 6Q6, Series III
Part No. 1877921

Contacts sold separately (unless noted) see page 5


Custom MIL-DTL-38999 Series III Style Circular Connectors (Continued)


|  |  |  |
| :--- | :--- | :--- |
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| Revised 2/12 | inches $(\mathrm{mm})$ unless <br> otherwise specified. | reference purposes only. <br> Specifications subject to change. <br> www.te.com |
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Receptacle, Shell Size 23, M38999 Style Arrangement 6Q6, Series III Part No. 1954577


Plug, Shell Size 25
38999 Style
Arrangement 808, RR-RR
Part No. 1811928


Receptacle, Shell Size 25 38999 Style Arrangement 808, RR-RR Part No. 1811927


Receptacle, Shell Size 25 38999 Style Arrangement 808, FR-FR Part No. 2101395 (w/ PC Tail Contacts)


Receptacle, Shell Size 25 38999 Style Arrangement 808 Jam Nut
Part No. 2157628

Contacts sold separately (unless noted) see page 5

(unless noted) see page 5

Dimensions are in inches (mm) unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change. USA: +1 (800) 522-6752

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