# **Single Port Modular Jacks**

#### **Product Facts**

若 Тусо

 Meets or exceeds FCC Part 68 rules and regulations; REA PE-76; and UL 1863, Communication Circuit Accessories

Electronics

- Meets 1000 volt dielectric requirement Contact to Contact
- Available in both top and side entry (Right-Angle)
- Designed for direct mounting on pc boards
- Designed for ease of soldering and board cleaning
- Available in both shielded and unshielded versions
- Shielded jack available with two grounding paths - pc board and panel
- 20 dB shielding effectiveness from 30 MHz to 400 MHz
- Selectively gold plated contacts for lower cost
- All jacks are UL 94V-0 flame retardant polyester, standard color black, unless specified otherwise
- Listed by Underwriters Laboratories Inc., File No. E81956



 Produced under a Quality Management System Certified to ISO 9001
A copy of the certificate is available upon request

# Specifications

Electrical

**Current Rating** — 1.5 amp max. @ 25°C, derated to 0.2 amp max. @ 70°C ambient

Voltage Rating — 150 volts AC max. Dielectric Withstanding Voltage — 1000 VAC, RMS, 60 Hz, 1 min. Contact to Contact

#### Mechanical

PC Board Retention — will not dislodge from pc board when subjected to 1 lb. [4.4N] pull before soldering and 10 lb. [44N] pull after soldering **Durability** — 750 mating cycles

#### Material and Finish

Housing — Through-hole: Polyester (wave solder compatible), UL 94V-0 rated; Surface Mount: Polyphenylene Sulfide, or High Temp Nylon, UL 94V-0 rated

**Contact** — .014 [0.36] thk. Phosphor bronze; plated .000050 [0.00127] gold in contact area and .000150 [0.00381] tin-lead on solder tails, over .000050 [0.00127] nickel underplate Technical Documents Application Specifications 114-02048 114-6040 Product Specifications

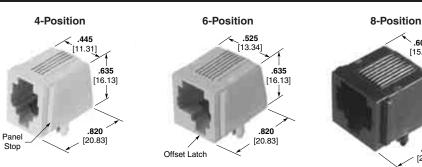
108-01163 108-01163-1 108-01163-3 108-01163-4 108-01163-7 Single Port Modular Jacks

Catalog 82066

Revised 11-07

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

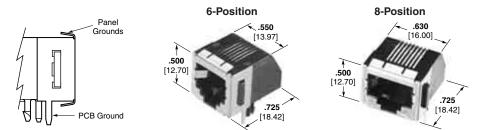
### Side Entry (RA), Thru-Hole



| Part<br>Number | Positions/<br>Contacts | LEDs    | Shielded | Performance | Panel<br>Stops | Inverted | Ground<br>Options |
|----------------|------------------------|---------|----------|-------------|----------------|----------|-------------------|
| 215875-1       | 4/4                    | Without | No       | Cat 3       | Without        | No       | Without           |
| 2-215875-1     | 4/4                    | Without | No       | Cat 3       | Without        | No       | Without           |
| 5520249-2      | 4/4                    | Without | No       | Cat 3       | With           | No       | Without           |
| 215876-2       | 6/4                    | Without | No       | Cat 3       | Without        | No       | Without           |
| 5555140-2      | 6/4                    | Without | Yes      | Cat 3       | With           | No       | Panel and PCB     |
| 5555163-2      | 6/4                    | Without | No       | Cat 3       | With           | No       | Without           |
| 1-215876-3     | 6/6                    | Without | No       | Cat 3       | Without        | No       | Without           |
| 215876-1       | 6/6                    | Without | No       | Cat 3       | N/A            | No       | Without           |
| 5520250-3      | 6/6                    | Without | No       | Cat 3       | With           | No       | Without           |
| 5555003-1      | 6/6                    | Without | No       | Cat 3       | With           | No       | Without           |
| 5555140-1      | 6/6                    | Without | Yes      | Cat 3       | With           | No       | Panel and PCB     |
| 5555154-1      | 6/6                    | Without | Yes      | Cat 3       | With           | No       | PCB Ground        |
| 5555163-1      | 6/6                    | Without | No       | Cat 3       | With           | No       | Without           |
| 5555165-1      | 6/6                    | Without | No       | Cat 3       | Without        | No       | Without           |
| 106066-2       | 8/8                    | Without | Yes      | Cat 3       | Without        | No       | Panel and PCB     |
| 1116062-2      | 8/8                    | Without | Yes      | Cat 5       | Without        | No       | Panel and PCB     |
| 1116503-2      | 8/8                    | Without | Yes      | Cat 5       | Without        | No       | PCB Ground        |
| 6116526-1      | 8/8                    | Without | Yes      | Cat 5       | Without        | No       | PCB Ground        |
| 1-215877-3     | 8/8                    | Without | No       | Cat 3       | Without        | No       | Without           |

Note: Consult Tyco Electronics Sales Representative for additional Part Numbers and features differences (tail length, LED color, IRR, etc.)

### Low Profile, Face Shield



| Part<br>Number | Positions/<br>Contacts | LEDs    | Shielded | Performance | Panel<br>Stops | Inverted | Ground<br>Options |
|----------------|------------------------|---------|----------|-------------|----------------|----------|-------------------|
| 5555162-1      | 8/8                    | Without | No       | Cat 3       | With           | No       | Without           |
| 5555164-1      | 8/8                    | Without | No       | Cat 3       | Without        | No       | Without           |
| 1-5406299-1    | 8/8                    | Without | Yes      | Cat 5       | Without        | No       | Panel and PCB     |
| 1-1734264-1    | 8/8                    | Without | Yes      | Cat 3       | Without        | No       | Panel and PCB     |
| 1734579-1      | 8/8                    | Without | Yes      | Cat 3       | Without        | No       | PCB Ground        |
| 215877-1       | 8/8                    | Without | No       | Cat 3       | Without        | No       | Without           |
| 2-215877-1     | 8/8                    | Without | No       | Cat 3       | Without        | No       | Without           |
| 2-215878-1     | 8/8                    | Without | No       | Cat 3       | Without        | No       | Without           |
| 2-5338556-1    | 8/8                    | Without | Yes      | Cat 3       | Without        | No       | Panel and PCB     |
| 3-5338556-1    | 8/8                    | Without | Yes      | Cat 3       | Without        | No       | Panel and PCB     |
| 5406217-1      | 8/8                    | Without | Yes      | Cat 5       | Without        | No       | Panel and PCB     |
| 5406296-1      | 8/8                    | Without | Yes      | Cat 5       | Without        | No       | Panel and PCB     |

Note: Consult Tyco Electronics Sales Representative for additional Part Numbers and features differences (tail length, LED color, IRR, etc.)

Note: All part numbers are RoHS compliant.

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millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are in inches and

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.605

[15.37]

.820

[20.83]

.635 [16.13]

### Side Entry (RA), Thru-Hole

Electronics

Low Profile, Face Shield (Continued)

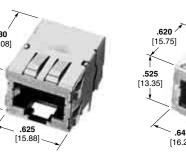
|                | Panel<br>Grounds       |         | 6-P      | osition<br>,550<br>[13.97]<br>,725<br>[18.42] |                | 8-Pe     | <b>551tion</b><br>(16.00)<br><b>725</b><br>(18.42) |
|----------------|------------------------|---------|----------|---|----------------|----------|--|
| Part<br>Number | Positions/<br>Contacts | LEDs    | Shielded | Performance                                   | Panel<br>Stops | Inverted | Ground<br>Options                                  |
| 5406299-1      | 8/8                    | Without | Yes      | Cat 5   | Without        | No       | Panel and PCB                                      |
|                | 0.10                   |         |          | 0.15  |                |          |  |

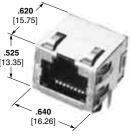
1-406525-1 8/8 Without Cat 5 Without Without No Yes 1-406541-1 Without Cat 5 Without Panel and PCB 8/8 Yes Yes 5520243-4 8/8 Without No Cat 3 Without No Without 5520251-4 Without Cat 3 With Without 8/8 No No 5520426-4 8/8 Without No Cat 3 Without No Without Without 5555141-1 8/8 Yes Cat 3 Without No Panel and PCB 5555153-1 8/8 Without With PCB Ground Cat 3 No Yes 5555153-3 8/8 Without Yes Cat 3 With No PCB Ground

Note: Consult Tyco Electronics Sales Representative for additional Part Numbers and features differences (tail length, LED color, IRR, etc.)

## Side Entry (RA), Thru-Hole

#### .571 .695 [17.65] [14.5] **.830** [21.08] 366 [9.3] .537 [13.64] .625





| Part<br>Number | Positions/<br>Contacts | LEDs    | Shielded | Performance | Panel<br>Stops | Inverted | Ground<br>Options |
|----------------|------------------------|---------|----------|-------------|----------------|----------|-------------------|
| 5555166-1      | 8/8                    | Without | No       | Cat 3       | With           | No       | Without           |
| 5555167-1      | 8/8                    | Without | No       | Cat 3       | Without        | No       | Without           |
| 5557785-1      | 8/8                    | Without | No       | Cat 3       | Without        | No       | Without           |
| 5557789-1      | 8/8                    | Without | Yes      | Cat 3       | Without        | No       | PCB Ground        |
| 5557791-1      | 8/8                    | Without | Yes      | Cat 3       | Without        | No       | Panel and PCB     |
| 5558341-1      | 8/8                    | Without | No       | Cat 5       | Without        | No       | Without           |
| 5558342-1      | 8/8                    | Without | Yes      | Cat 5       | Without        | No       | PCB Ground        |
| 5558344-1      | 8/8                    | Without | Yes      | Cat 5       | Without        | No       | Panel and PCB     |
| 5569115-1      | 8/8                    | Without | Yes      | Cat 3       | With           | No       | Panel and PCB     |
| 5569118-1      | 8/8                    | Without | No       | Cat 3       | Without        | No       | Without           |
| 6116075-1      | 8/8                    | With    | Yes      | Cat 5       | Without        | Yes      | PCB Ground        |
| 6116173-1      | 8/8                    | With    | Yes      | Cat 5       | Without        | Yes      | Panel and PCB     |
| 6364139-5      | 8/8                    | With    | No       | Cat 5       | Without        | Yes      | Without           |
| 1734509-2      | 8/8                    | With    | Yes      | Cat 3       | Without        | No       | PCB Ground        |
| 5406533-1      | 8/8                    | With    | No       | Cat 5       | Without        | Yes      | Without           |
| 2-406549-1     | 8/8                    | With    | Yes      | Cat 5       | Without        | Yes      | Panel and PCB     |
| 2-406549-4     | 8/8                    | With    | Yes      | Cat 5       | Without        | Yes      | Panel and PCB     |
| 5569564-1      | 8/8                    | With    | Yes      | Cat 3       | Without        | No       | Panel and PCB     |
| 1734542-5      | 10/10                  | Without | No       | Cat 3       | Without        | No       | Without           |
| 5558065-1      | 10/10                  | Without | No       | Cat 3       | Without        | No       | Without           |
| 5558067-1      | 10/10                  | Without | Yes      | Cat 3       | Without        | No       | PCB Ground        |
| 5558070-1      | 10/10                  | Without | Yes      | Cat 3       | Without        | No       | Panel and PCB     |

Note: Consult Tyco Electronics Sales Representative for additional Part Numbers and features differences (tail length, LED color, IRR, etc.)

Note: All part numbers are RoHS compliant.

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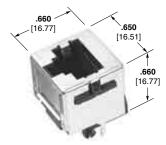
Side Entry (RA), Surface Mount

| 510<br>(12.95)<br>(12.40)<br>(19.61] | .377<br>[9.58]<br>[15.00] |
|--------------------------------------|---------------------------|
| 1339212-1                            | 1339212-1                 |

| Positions/<br>Contacts | LEDs  | Shielded   | Performance  | Panel<br>Stops  | Inverted  | Ground<br>Options  |
|------------------------|---|--|--|---|---|--|
| 6/6                    | Without                                       | Yes  | Cat 3  | Without   | Yes   | Panel and PCB  |
| 6/6                    | Without                                       | No   | Cat 3  | Without   | Yes   | Without  |
| 6/6                    | Without                                       | No   | Cat 3  | With  | No  | Without  |
| 8/8                    | Without                                       | Yes  | Cat 3  | Without   | Yes   | Panel and PCB  |
| 8/8                    | Without                                       | No   | Cat 3  | With  | Yes   | Without  |
| 8/8                    | Without                                       | No   | Cat 3  | With  | Yes   | Without  |
| 8/8                    | Without                                       | Yes  | Cat 3  | With  | No  | PCB Ground   |
|                        | 6/6<br>6/6<br>6/6<br>8/8<br>8/8<br>8/8<br>8/8 | 6/6Without6/6Without6/6Without8/8Without8/8Without8/8Without8/8Without | 6/6 Without Yes   6/6 Without No   6/6 Without No   8/8 Without Yes   8/8 Without No   8/8 Without No   8/8 Without No | 6/6WithoutYesCat 36/6WithoutNoCat 36/6WithoutNoCat 38/8WithoutYesCat 38/8WithoutNoCat 38/8WithoutNoCat 38/8WithoutNoCat 3 | ContactsStops6/6WithoutYesCat 3Without6/6WithoutNoCat 3Without6/6WithoutNoCat 3Without8/8WithoutYesCat 3Without8/8WithoutNoCat 3Without8/8WithoutNoCat 3Without8/8WithoutNoCat 3Without | ContactsStopsStops6/6WithoutYesCat 3WithoutYes6/6WithoutNoCat 3WithoutYes6/6WithoutNoCat 3WithNo8/8WithoutYesCat 3WithoutYes8/8WithoutNoCat 3WithYes8/8WithoutNoCat 3WithYes8/8WithoutNoCat 3WithYes |

Note: Consult Tyco Electronics Sales Representative for additional Part Numbers and features differences (tail length, LED color, IRR, etc.)

Top Entry, Thru-Hole



Shielded 557484-1

| Part<br>Number | Positions/<br>Contacts | LEDs    | Shielded | Performance | Panel<br>Stops | Inverted | Ground<br>Options |
|----------------|------------------------|---------|----------|-------------|----------------|----------|-------------------|
| 5520257-2      | 4/4                    | Without | No       | Cat 3       | With           | No       | Without           |
| 5406010-2      | 6/2                    | Without | No       | Cat 3       | Without        | No       | Without           |
| 5520258-2      | 6/4                    | Without | No       | Cat 3       | With           | No       | Without           |

Note: Consult Tyco Electronics Sales Representative for additional Part Numbers and features differences (tail length, LED color, IRR, etc.)

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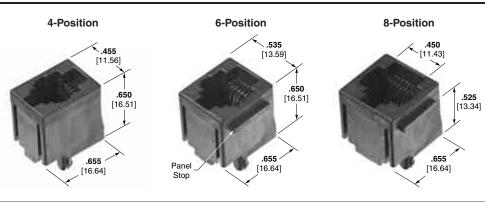
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Note: All part numbers are RoHS compliant.

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### Top Entry, Thru-Hole

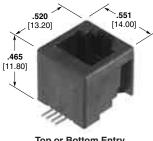


| Part<br>Number | Positions/<br>Contacts | LEDs    | Shielded | Performance | Panel<br>Stops | Inverted | Ground<br>Options |
|----------------|------------------------|---------|----------|-------------|----------------|----------|-------------------|
| 5520425-2      | 6/4                    | Without | No       | Cat 3       | Without        | No       | Without           |
| 216548-1       | 6/6                    | Without | No       | Cat 3       | With           | No       | Without           |
| 216564-1       | 6/6                    | Without | No       | Cat 3       | With           | No       | Without           |
| 5520258-3      | 6/6                    | Without | No       | Cat 3       | With           | No       | Without           |
| 5520425-3      | 6/6                    | Without | No       | Cat 3       | Without        | No       | Without           |
| 5554990-1      | 6/6                    | Without | No       | Cat 3       | With           | No       | Without           |
| 100616-1       | 8/8                    | Without | Yes      | Cat 3       | With           | No       | PCB Ground        |
| 100616-2       | 8/8                    | Without | Yes      | Cat 3       | With           | No       | PCB Ground        |
| 6116202-1      | 8/8                    | Without | Yes      | Cat 5       | Without        | No       | PCB Ground        |
| 216550-1       | 8/8                    | Without | No       | Cat 3       | With           | No       | Without           |
| 216566-1       | 8/8                    | Without | No       | Cat 3       | With           | No       | Without           |
| 5520259-4      | 8/8                    | Without | No       | Cat 3       | With           | No       | Without           |
| 5555799-1      | 8/8                    | Without | No       | Cat 3       | Without        | No       | Without           |
| 5556416-1      | 8/8                    | Without | No       | Cat 3       | Without        | No       | Without           |
| 5557484-1      | 8/8                    | Without | Yes      | Cat 3       | With           | No       | Panel and PCB     |
| 5557730-1      | 8/8                    | Without | Yes      | Cat 3       | With           | No       | Panel and PCB     |
| 5557969-1      | 8/8                    | Without | Yes      | Cat 3       | With           | No       | Panel and PCB     |
| 5557969-2      | 8/8                    | Without | Yes      | Cat 3       | With           | No       | Panel and PCB     |

Note: Consult Tyco Electronics Sales Representative for additional Part Numbers and features differences (tail length, LED color, IRR, etc.)

### **Top Entry, Surface Mount**

#### 6-Position



Top or Bottom Entry Part Number 1-338088-3

| Part<br>Number | Positions/<br>Contacts | LEDs    | Shielded | Performance | Panel<br>Stops | Inverted | Ground<br>Options |
|----------------|------------------------|---------|----------|-------------|----------------|----------|-------------------|
| 1-338084-3     | 4/4                    | Without | No       | Cat 3       | Without        | No       | Without           |
| 1-338086-3     | 6/6                    | Without | No       | Cat 3       | Without        | No       | Without           |
| 2-338086-3     | 6/6                    | Without | No       | Cat 3       | Without        | No       | Without           |
| 1-338088-3     | 8/8                    | Without | No       | Cat 3       | Without        | No       | Without           |
| 2-338088-3     | 8/8                    | Without | No       | Cat 3       | Without        | No       | Without           |

Note: Consult Tyco Electronics Sales Representative for additional Part Numbers and features differences (tail length, LED color, IRR, etc.)

Note: All part numbers are RoHS compliant.

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**Top Entry, Press Fit** 

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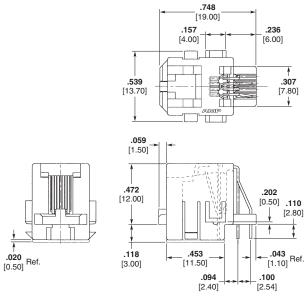


Part Number 1116201-1

| Part<br>Number | Positions/<br>Contacts | LEDs    | Shielded | Performance | Panel<br>Stops | Inverted | Ground<br>Options |
|----------------|------------------------|---------|----------|-------------|----------------|----------|-------------------|
| 6116201-1      | 8/8                    | Without | No       | Cat 5       | Without        | No       | Without           |
| 6116201-2      | 8/8                    | Without | No       | Cat 5       | Without        | No       | Without           |
| 6116202-1      | 8/8                    | Without | Yes      | Cat 5       | Without        | No       | PCB               |
| 6116418-1      | 8/8                    | Without | Yes      | Cat 5       | Without        | No       | Panel and PCB     |

Note: Consult Tyco Electronics Sales Representative for additional Part Numbers and features differences (tail length, LED color, IRR, etc.)

### **Bottom Entry, Thru-Hole**



Part Number 216444

| Part<br>Number | Positions/<br>Contacts | LEDs    | Shielded | Performance | Panel<br>Stops | Inverted | Ground<br>Options |
|----------------|------------------------|---------|----------|-------------|----------------|----------|-------------------|
| 216444-1       | 4/4                    | Without | No       | Cat 3       | Without        | No       | Without           |
| 216446-1       | 6/6                    | Without | No       | Cat 3       | Without        | No       | Without           |

Note: Consult Tyco Electronics Sales Representative for additional Part Numbers and features differences (tail length, LED color, IRR, etc.)

Note: All part numbers are RoHS compliant.

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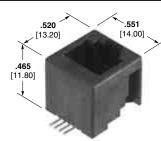
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Bottom Entry, Surface Mount

6-Position

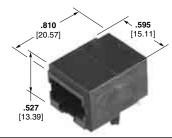


Top or Bottom Entry Part Number 1-338088-3

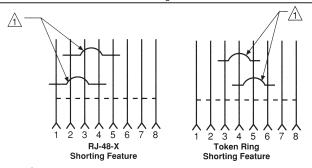
| Part<br>Number | Positions/<br>Contacts | LEDs    | Shielded | Performance | Panel<br>Stops | Inverted | Ground<br>Options |
|----------------|------------------------|---------|----------|-------------|----------------|----------|-------------------|
| 100860-1       | 6/6                    | Without | No       | Cat 3       | Without        | No       | Without           |
| 1-338088-5     | 8/8                    | Without | No       | Cat 3       | Without        | No       | Without           |
| 2-100860-1     | 6/6                    | Without | No       | Cat 3       | Without        | No       | Without           |

Note: Consult Tyco Electronics Sales Representative for additional Part Numbers and features differences (tail length, LED color, IRR, etc.)

# Shorting Unshielded



| Positions/<br>Contacts | Shorting Configuration |                             | Tray Packaging<br>Part No. |  |
|------------------------|------------------------|-----------------------------|----------------------------|--|
| 8/8                    | 1-4 & 2-5              | RJ 48X                      | 5557788-1                  |  |
| 8/8                    | 3-5 & 4-6              | IBM Token<br>Ring Emulation | 5569972-1                  |  |



Short is removed by insertion of modular plug.



|   | Positions/<br>Contacts | Shorting Configuration |                             | Panel Grounds | Tray Packaging<br>Part Numbers |
|---|------------------------|------------------------|-----------------------------|---------------|--------------------------------|
|   | 8/8                    | 1-4 & 2-5              | RJ 48X                      | —             | 5557789-1                      |
|   | 8/8                    | 1-4 & 2-5              | RJ 48X                      | Y             | 5557791-1                      |
| 0 | 8/8                    | 3-5 & 4-6              | IBM Token<br>Ring Emulation | _             | 5569972-1                      |

IBM is a trademark of International Business Machine Corporation.

Note: All part numbers are RoHS compliant.

NOTE: SHIELDED PRODUCT WITH PANEL GROUNDS ALWAYS CONTAINS PCB GROUNDS

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Shielded

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