

# Series 801 Mighty Mouse Double-Start ACME Thread Receptacle 801-009 and 801-010 Ordering Information



Series 801



**Rear Panel Jam Nut Mount**  
Shell Style 07

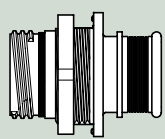
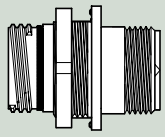


**Square Flange Mount**  
Shell Style 02/12/22



**In-Line**  
Shell Style 01

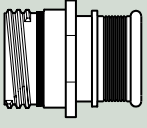
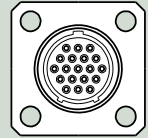
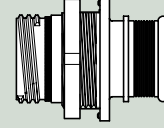
| How To Order                          |                                                                                                                                                                                                                                                                                                                                                                                                    |     |    |       |   |   |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|-------|---|---|
| Sample Part Number                    | 801-010                                                                                                                                                                                                                                                                                                                                                                                            | -02 | Z1 | 16-55 | S | A |
| Series<br>(See Table I)               | <b>801-009</b> = Receptacle with Banding Platform<br><b>801-010</b> = Receptacle with Accessory Thread                                                                                                                                                                                                                                                                                             |     |    |       |   |   |
| Shell Style<br>(See Table III)        | <b>-01</b> = In-Line Receptacle for Free-Hanging Cables<br><b>-02</b> = Thru Hole Square Flange Receptacle for Front or Rear Panel Mounting<br><b>-12</b> = Square Flange Receptacle for Rear Panel Mounting with "Non-Locking" Clinch Nuts<br><b>-22</b> = Square Flange Receptacle for Rear Panel Mounting with "Locking" Clinch Nuts<br><b>-07</b> = Jam Nut Receptacle for Rear Panel Mounting |     |    |       |   |   |
| Material and Finish                   | <b>M</b> = Aluminum / Electroless Nickel RoHS Compliant<br><b>MT</b> = Aluminum / Nickel-PTFE RoHS Compliant<br><b>NF</b> = Aluminum / Cadmium with Olive Drab Chromate<br><b>ZNU</b> = Aluminum / Zinc-Nickel with Black Chromate<br><b>Z1</b> = Stainless Steel / Passivated RoHS Compliant                                                                                                      |     |    |       |   |   |
| Shell Size - Insert Arr               | See Insert Arrangements page D-2                                                                                                                                                                                                                                                                                                                                                                   |     |    |       |   |   |
| Contact Type                          | <b>A</b> = Pin Connector, Less Contacts<br><b>B</b> = Socket Connector, Less Contacts<br><b>P</b> = Pin, Crimp<br><b>S</b> = Socket, Crimp<br><b>G</b> = #23 Pin with 30 AWG Crimp Barrel<br><b>H</b> = #23 Socket with 30 AWG Crimp Barrel                                                                                                                                                        |     |    |       |   |   |
| Shell Key Positions<br>(See Table II) | <b>A</b> = Normal <b>B</b> = Pos. B <b>C</b> = Pos. C <b>D</b> = Pos. D <b>E</b> = Pos. F <b>F</b> = Pos. F                                                                                                                                                                                                                                                                                        |     |    |       |   |   |

| Table I: Series                                                                      |
|--------------------------------------------------------------------------------------|
|   |
| <b>800-009</b><br>Banding Platform                                                   |
|  |
| <b>801-010</b><br>Rear Accessory Thread                                              |

**Table II: Alternate Keyway Positions**

The diagram illustrates a shaft with three concentric circles representing different diameters. A vertical dashed line serves as a reference. Two keyways are shown: one on the innermost circle and one on the middle circle. Arcs with arrows indicate the angular positions of these keyways. Arc A° is measured from the reference line to the start of the inner keyway. Arc B° is measured from the reference line to the start of the middle keyway. Dashed lines also indicate the angular positions of the keyways relative to each other.

|          | A°   | B°   |
|----------|------|------|
| <b>A</b> | 150° | 210° |
| <b>B</b> | 75°  | 210° |
| <b>C</b> | 95°  | 230° |
| <b>D</b> | 140° | 275° |
| <b>E</b> | 75°  | 275° |

| Table III: Shell Style                                                              |                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |
| <b>Style -01</b><br>In-line                                                         | <b>Style -02/-12/-22</b><br>Square Flange                                           | <b>Style -07</b><br>Jam Nut                                                          |

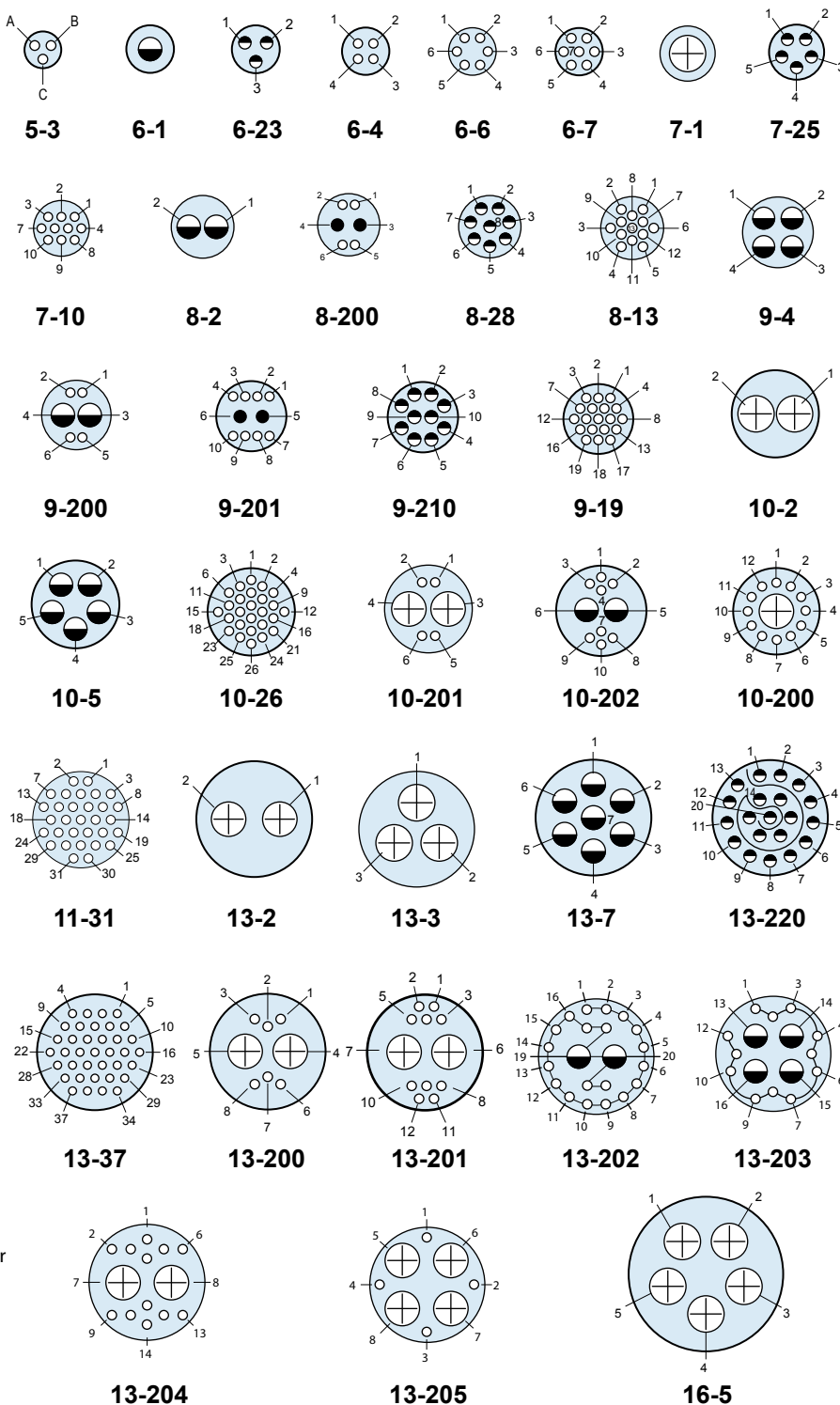
Dimensions in Inches (millimeters) are subject to change without notice.

# Series 801 Mighty Mouse Double-Start ACME Thread Contact Arrangements

## Contact Arrangements

| Contact Arr. | No. of Contacts |     |       |     |      |      |
|--------------|-----------------|-----|-------|-----|------|------|
|              | #23             | #20 | #20HD | #16 | #12* | #8** |
| 5-3          | 3               |     |       |     |      |      |
| 6-1          |                 |     |       | 1   |      |      |
| 6-23         |                 |     | 3     |     |      |      |
| 6-4          | 4               |     |       |     |      |      |
| 6-6          | 6               |     |       |     |      |      |
| 6-7          | 7               |     |       |     |      |      |
| 7-1          |                 |     |       |     | 1    |      |
| 7-25         |                 |     | 5     |     |      |      |
| 7-10         | 10              |     |       |     |      |      |
| 8-2          |                 |     |       | 2   |      |      |
| 8-200        | 4               | 2   |       |     |      |      |
| 8-28         |                 |     | 8     |     |      |      |
| 8-13         | 13              |     |       |     |      |      |
| 9-4          |                 |     |       | 4   |      |      |
| 9-200        | 4               |     |       | 2   |      |      |
| 9-201        | 8               | 2   |       |     |      |      |
| 9-210        |                 |     | 10    |     |      |      |
| 9-19         | 19              |     |       |     |      |      |
| 10-2         |                 |     |       |     | 2    |      |
| 10-5         |                 |     |       | 5   |      |      |
| 10-26        | 26              |     |       |     |      |      |
| 10-200       | 12              |     |       |     | 1    |      |
| 10-201       | 4               |     |       |     | 2    |      |
| 10-202       | 8               |     |       | 2   |      |      |
| 11-31        | 31              |     |       |     |      |      |
| 13-2         |                 |     |       |     | 2    |      |
| 13-3         |                 |     |       |     | 3    |      |
| 13-7         |                 |     |       | 7   |      |      |
| 13-220       |                 |     | 20    |     |      |      |
| 13-37        | 37              |     |       |     |      |      |
| 13-200       | 6               |     |       |     | 2    |      |
| 13-201       | 10              |     |       |     | 2    |      |
| 13-202       | 20              |     |       | 2   |      |      |
| 13-203       | 12              |     |       | 4   |      |      |
| 13-204       | 12              |     |       |     | 2    |      |
| 13-205       | 4               |     |       |     | 4    |      |
| 16-5         |                 |     |       |     | 5    |      |

## Mating Face View of Pin Connector (socket connector numbers are reversed)



\*All arrangements with #12 contacts and available with keyed Twinax contacts. Use mode code -688

\*\*Combo inserts using size #8 and #23 contacts order size #23, 857-034 socket or 809-335 pin contacts.

### Contact Legend

#23◦ #20HD● #20● #16◐ #12⊕

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# Series 801 Mighty Mouse Double-Start ACME Thread Contact Arrangements



Series 801

| Contact Arrangements |                 |     |       |     |      |      |
|----------------------|-----------------|-----|-------|-----|------|------|
| Contact Arr.         | No. of Contacts |     |       |     |      |      |
|                      | #23             | #20 | #20HD | #16 | #12* | #8** |
| 16-12                |                 |     |       | 12  |      |      |
| 16-235               |                 |     | 35    |     |      |      |
| 16-55                | 55              |     |       |     |      |      |
| 16-204               | 40              |     |       | 2   |      |      |
| 16-205               | 32              |     |       | 4   |      |      |
| 16-206               | 34              |     |       |     | 2    |      |
| 16-207               | 20              |     |       |     | 4    |      |
| 16-208               | 32              |     |       |     |      | 1    |
| 17-7                 |                 |     |       |     | 7    |      |
| 17-14                |                 |     |       | 14  |      |      |
| 17-241               |                 |     | 41    |     |      |      |
| 17-85                | 85              |     |       |     |      |      |
| 17-203               | 40              |     |       | 4   |      |      |
| 17-204               | 28              |     |       |     | 4    |      |
| 17-205               | 40              |     |       |     |      | 1    |

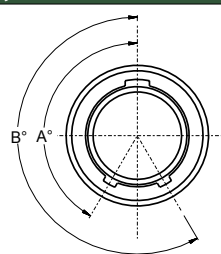
\*All arrangements with #12 contacts and available with keyed Twinax contacts. Use mode code -688

\*\*Combo inserts using size #8 and #23 contacts order size #23, 857-034 socket or 809-335 pin contacts.

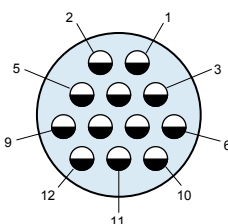
## Contact Legend

#23° #20HD● #20● #16● #12⊕

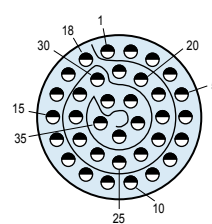
| Plug Key Positions |      |      |
|--------------------|------|------|
|                    | A°   | B°   |
| A                  | 150° | 210° |
| B                  | 75°  | 210° |
| C                  | 95°  | 230° |
| D                  | 140° | 275° |
| E                  | 75°  | 275° |
| F                  | 95°  | 210° |



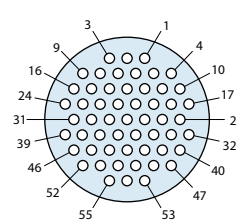
## Mating Face View of Pin Connector (socket connector numbers are reversed)



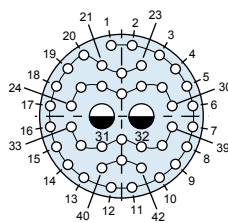
16-12



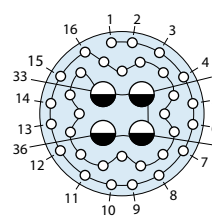
16-235



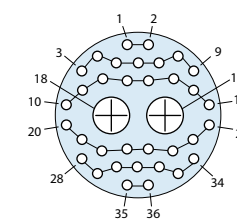
16-55



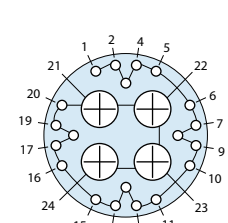
16-204



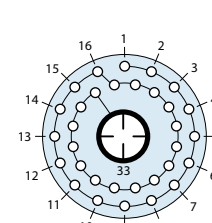
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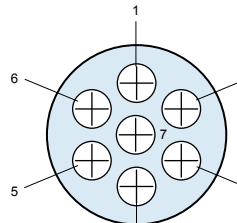
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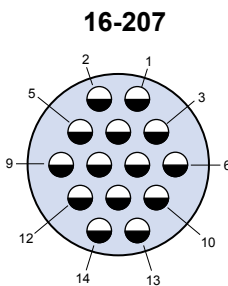
16-207



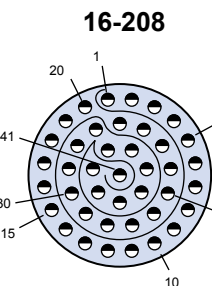
16-208



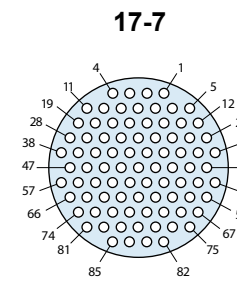
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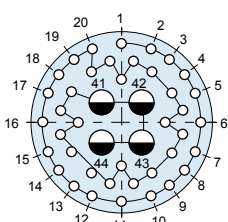
17-14



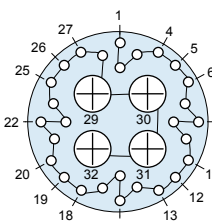
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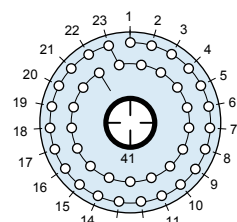
17-85



17-203



17-204



17-205

Dimensions in Inches (millimeters) are subject to change without notice.

# Series 801 Mighty Mouse Double-Start ACME Thread General Information

## Contact Arrangements

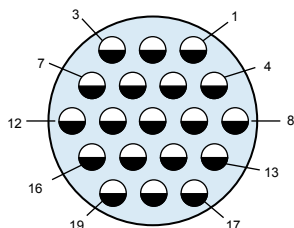
| Contact Arr. | No. of Contacts |     |       |     |      |      |
|--------------|-----------------|-----|-------|-----|------|------|
|              | #23             | #20 | #20HD | #16 | #12* | #8** |
| 19-19        |                 |     |       | 19  |      |      |
| 19-201       | 44              |     |       |     |      | 2    |
| 19-202       | 23              |     |       |     |      | 4    |
| 19-255       |                 |     | 55    |     |      |      |
| 19-100       | 100             |     |       |     |      |      |
| 21-12        |                 |     |       |     | 12   |      |
| 21-200       | 28              |     |       |     |      | 4    |
| 21-22        |                 |     |       | 22  |      |      |
| 21-269       |                 |     | 69    |     |      |      |
| 21-130       | 130             |     |       |     |      |      |

\*All arrangements with #12 contacts and available with keyed Twinax contacts. Use mode code -688

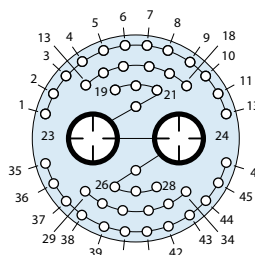
\*\*Combo inserts using size #8 and #23 contacts order size #23, 857-034 socket or 809-335 pin contacts.

## Contact Legend

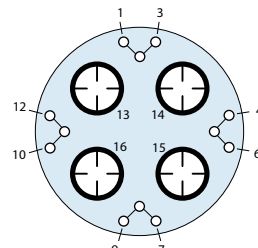
#23◦ #20HD◐ #20● #16◑ #12⊕



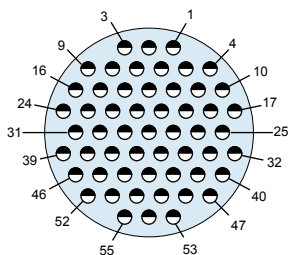
19-19



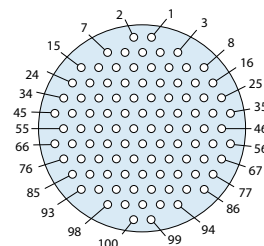
19-201



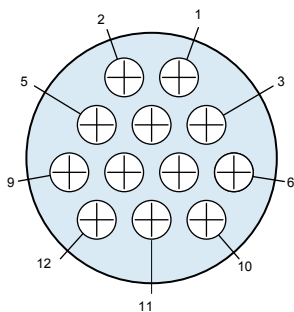
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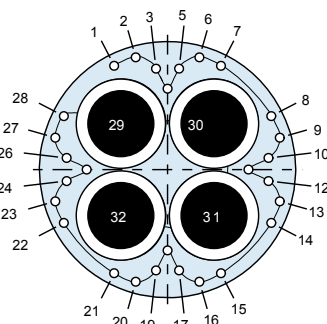
19-255



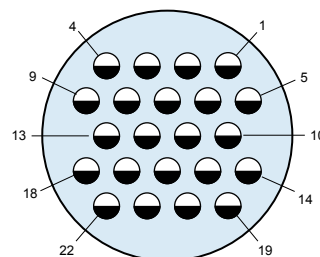
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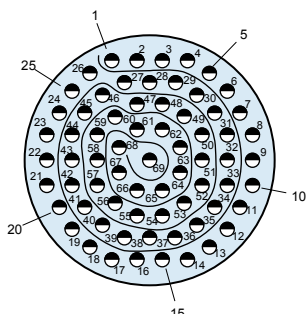
21-12



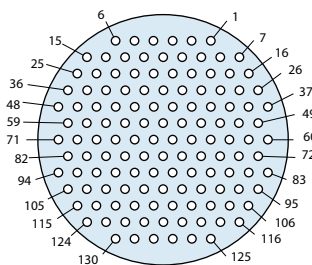
21-200



21-22



21-269



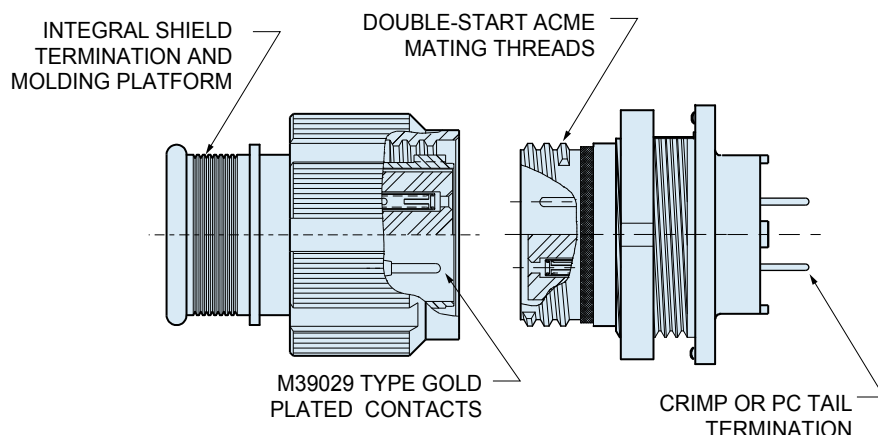
21-130

Dimensions in Inches (millimeters) are subject to change without notice.

# Series 801 Mighty Mouse Double-Start ACME Thread General Information



Series 801



- Double-Start ACME Thread with anti-decoupling spring or ratchet
- Crimp Rear Release Contacts
- Integral Band Platform
- Available with Size #12, #16, #20, #20HD and #23 Contacts
- Environmentally Sealed

## Glenair's Series 801 Mighty Mouse Offers Mil-Spec Performance in a Lightweight, Ultraminiature Package

The 801 Series Mighty Mouse is ideal for use in high-density packaging applications where traditional military circular connectors are too large or too heavy. The double-start threads provide full mating in 1½ turns, and the plug features an anti-decoupling spring for vibration resistance. The unique integral molding/band platform allows direct shield attachment and cable overmolding. Receptacles are available with printed circuit board contacts. Plugs have anti-decoupling wave spring, or specify ratchet mechanism for added security.



| Specifications                                                    |                                                   |
|-------------------------------------------------------------------|---------------------------------------------------|
| Current Rating                                                    | #23–5 A, #20HD–7.5 A, #16–13 A, #12–23 A          |
| Dielectric Withstanding Voltage                                   | #23–750 VAC, #20HD–1000 VAC, #12 and #16–1800 VAC |
| Insulation Resistance                                             | 5000 megohms minimum                              |
| Operating Temperature                                             | -65° C. to +175° C.                               |
| Shock                                                             | 300 g.                                            |
| Vibration                                                         | 37 g.                                             |
| Shielding Effectiveness                                           | 55 dB minimum from 100MHz to 1000MHz.             |
| Durability                                                        | 2000 mating cycles                                |
| See Series 80 General Information for complete performance specs. |                                                   |

| Materials and Finishes                                                    |                                    |
|---------------------------------------------------------------------------|------------------------------------|
| Shells, Jam Nuts                                                          | Aluminum alloy or stainless steel  |
| Contacts                                                                  | Copper alloy, 50 µinch gold plated |
| Insulators                                                                | Liquid crystal polymer (LCP)       |
| Contact Retention Clip                                                    | Beryllium copper alloy             |
| Interfacial Seal, O-rings, Wire Sealing Grommet                           | Fluorosilicone rubber              |
| See Series 80 General Information for complete material and finish specs. |                                    |

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