

Series 805 Mighty Mouse Triple-Start ACME Thread Receptacle 805-003 and 805-004 Ordering Information



Series 805



Three Shell Mounting Options: Jam nut with O-ring for rear panel mounting, square flange for front or rear panel mounting, or in-line receptacles for free-hanging cables.

Two Shell Styles: Choose integral band platform for direct attachment of a cable shield. Install a boot, or overmold a boot over the band platform. An accessory thread is available for attaching strain reliefs and backshells.

Gold-Plated Crimp Contacts are held in place with beryllium copper retention clips. Contacts are removable.

| How To Order | | | | | | |
|--|---|--|--|-------------|----------|----------|
| Sample Part Number | 805-004 | -02 | NF | 9-10 | P | A |
| Series (See Table I) | 805-003 = Receptacle with Banding Platform 805-004 = Receptacle with Accessory Thread | | | | | |
| Shell Style (See Table II) | -01 = In-line -02 = Square Flange Front or Rear Mount -12 = Square Flange Rear Mount Non-Locking Clinch Nuts -22 = Square Flange Rear Mount Locking Clinch Nuts -07 = Jam Nut for Rear Panel Mounting | | | | | |
| Shell Material and Finish | C = Aluminum / Black Anodize (Non-Conductive); RoHS Compliant M = Aluminum / Electroless Nickel; RoHS Compliant MT = Aluminum / Nickel-PTFE RoHS Compliant NF = Aluminum / Cadmium with Olive Drab Chromate ZNU = Aluminum / Zinc-Nickel with Black Chromate Z1 = Stainless Steel / Passivated; RoHS Compliant ZB = Stainless Steel / Olive Drab Chromate over Cadmium ZC = Stainless Steel / Zinc Cobalt Alloy/Black Chromate | | | | | |
| Shell Size - Insert Arrangement | See Contact Arrangements Page H-2 | | | | | |
| Contact Type | With contacts P = Pin S = Socket | Without contacts A = Pin Connector, less contacts B = Socket Connector, less contacts | With 30 AWG Crimp Barrel G = #23 Pin H = #23 Socket | | | |
| Shell Key Positions (See Table III) | A = Normal B = Pos. B C = Pos. C D = Pos. D E = Pos. E F = Pos. F | | | | | |

| Table I: Series | |
|--|--|
| | |
| 805-003 Receptacle with Banding Platform | 805-004 Receptacle with Accessory Thread |

| Table II: Shell Style | | |
|----------------------------------|---------------------------------------|-----------------------|
| | | |
| -01 In-line Receptacle | -02, -12, -22 Square Flange | -07 Jam Nut |

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

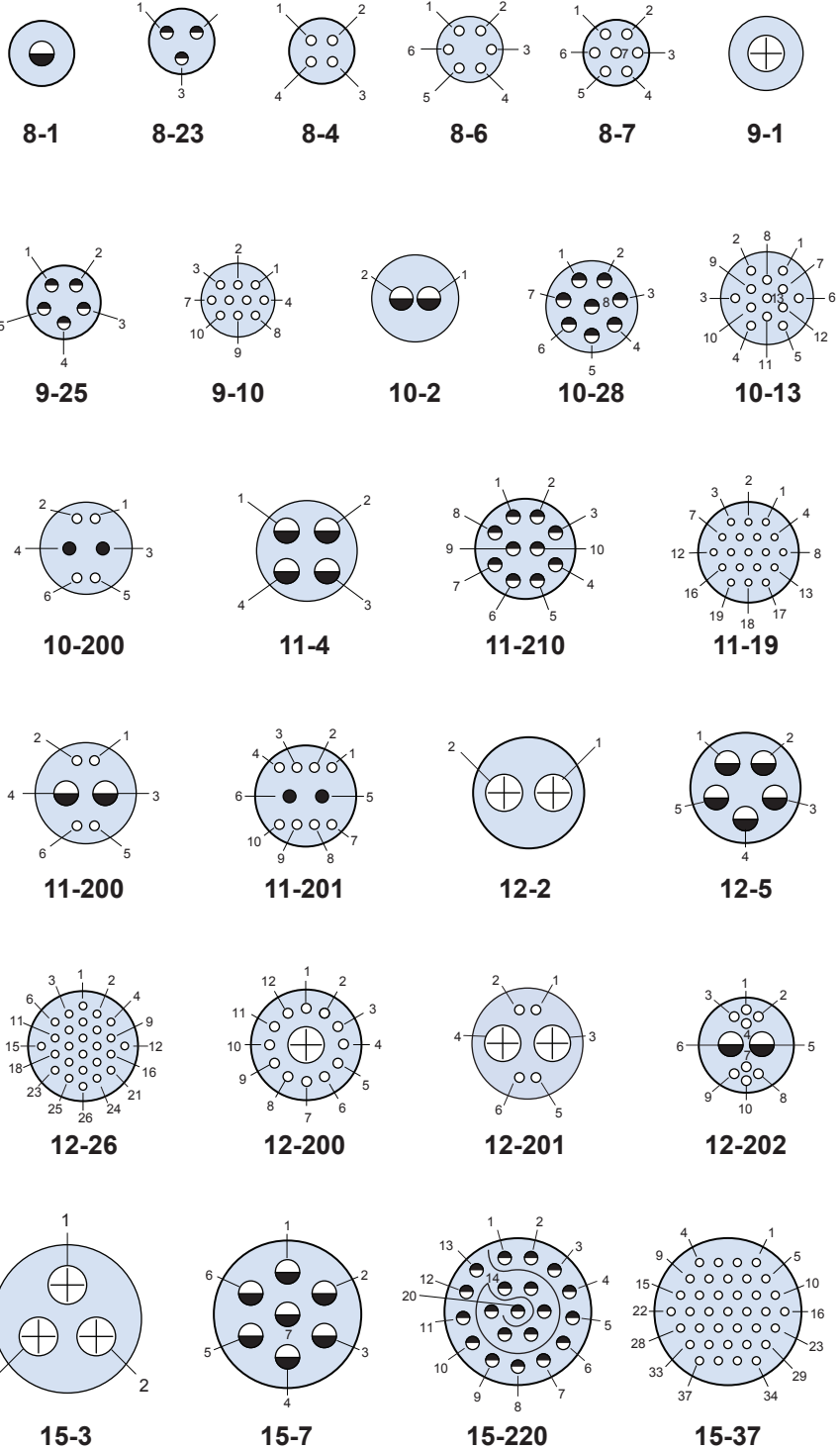




Series 805 Mighty Mouse Triple-Start Threaded Coupling Contact Arrangements

| Contact Arrangements | | | | | | |
|----------------------|-----------------|-----|-------|-----|------|----|
| Contact Arr. | No. of Contacts | | | | | |
| | #23 | #20 | #20HD | #16 | #12* | #8 |
| 8-1 | | | | 1 | | |
| 8-23 | | | 3 | | | |
| 8-4 | 4 | | | | | |
| 8-6 | 6 | | | | | |
| 8-7 | 7 | | | | | |
| 9-1 | | | | | 1 | |
| 9-25 | | | 5 | | | |
| 9-10 | 10 | | | | | |
| 10-2 | | | | 2 | | |
| 10-28 | | | 8 | | | |
| 10-13 | 13 | | | | | |
| 10-200 | 4 | 2 | | | | |
| 11-4 | | | | 4 | | |
| 11-210 | | | 10 | | | |
| 11-19 | 19 | | | | | |
| 11-200 | 4 | | | 2 | | |
| 11-201 | 8 | 2 | | | | |
| 12-2 | | | | | 2 | |
| 12-5 | | | | 5 | | |
| 12-26 | 26 | | | | | |
| 12-200 | 12 | | | | 1 | |
| 12-201 | 4 | | | | 2 | |
| 12-202 | 8 | | | 2 | | |
| 13-31 | 31 | | | | | |
| 15-2 | | | | | 2 | |
| 15-3 | | | | | 3 | |
| 15-7 | | | | 7 | | |
| 15-220 | | | 20 | | | |

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



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

Contact Legend

#23 ◦ #20HD ◐ #20 ● #16 ◑ #12 ⊕

H

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

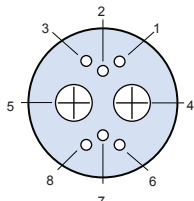
Series 805 Mighty Mouse Triple-Start Threaded Coupling Contact Arrangements



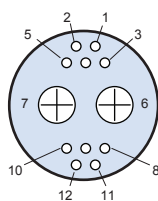
Series 805

| Contact Arrangements | | | | | | |
|----------------------|-----------------|-----|-------|-----|------|----|
| Contact Arr. | No. of Contacts | | | | | |
| | #23 | #20 | #20HD | #16 | #12* | #8 |
| 15-37 | 37 | | | | | |
| 15-200 | 6 | | | | 2 | |
| 15-201 | 10 | | | | 2 | |
| 15-202 | 20 | | | 2 | | |
| 15-203 | 12 | | | 4 | | |
| 15-204 | 12 | | | | 2 | |
| 15-205 | 4 | | | | 4 | |
| 18-5 | | | | | 5 | |
| 18-12 | | | | 12 | | |
| 18-235 | | | 35 | | | |
| 18-55 | 55 | | | | | |
| 18-204 | 40 | | | 2 | | |
| 18-205 | 32 | | | 4 | | |
| 18-206 | 34 | | | 2 | | |
| 18-207 | 20 | | | 4 | | |
| 18-208 | 32 | | | | | 1 |
| 19-7 | | | | | 7 | |
| 19-14 | | | | 14 | | |
| 19-241 | | | 41 | | | |

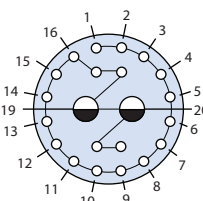
Mating Face View of Pin Connector (socket connector numbers are reversed)



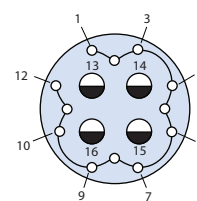
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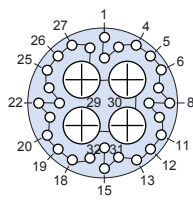
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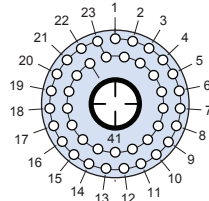
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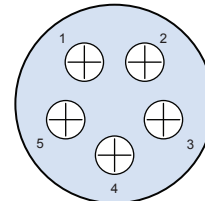
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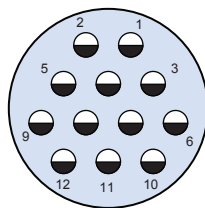
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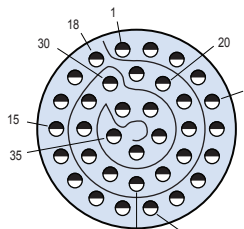
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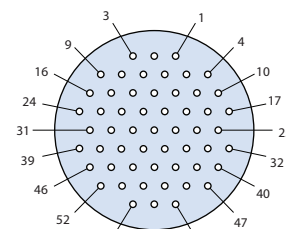
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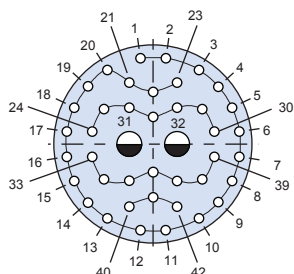
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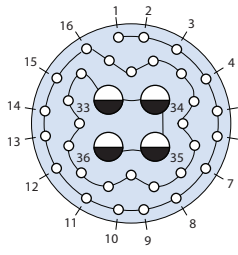
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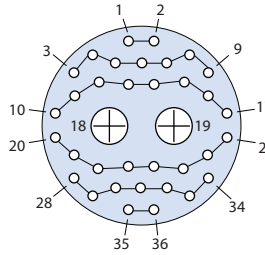
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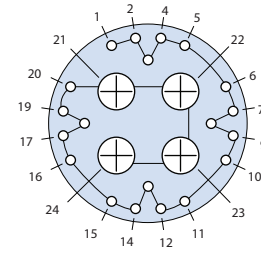
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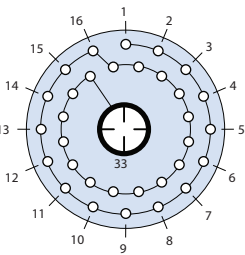
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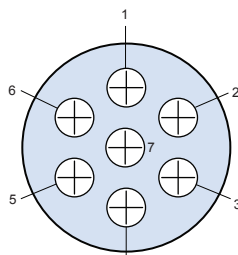
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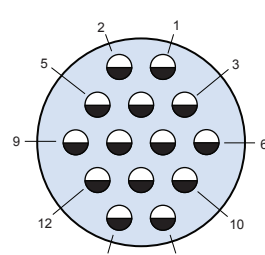
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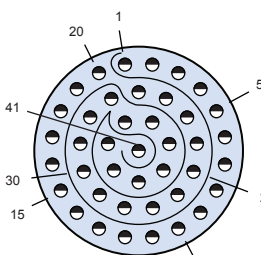
18-208



19-7



19-14



19-241

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

Contact Legend

#23 ◦ #20HD ◐ #20 ● #16 ◑ #12 ⊕

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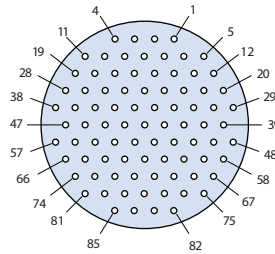




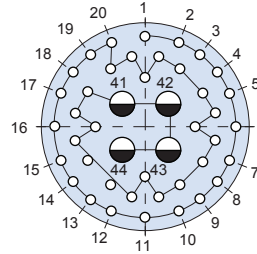
Series 805 Mighty Mouse Triple-Start Threaded Coupling Contact Arrangements

| Contact Arr. | No. of Contacts | | | | | |
|--------------|-----------------|-----|-------|-----|------|----|
| | #23 | #20 | #20HD | #16 | #12* | #8 |
| 19-85 | 85 | | | | | |
| 19-203 | 40 | | | 4 | | |
| 19-204 | 28 | | | | 4 | |
| 19-205 | | | | | | |
| 21-19 | | | | 19 | | |
| 21-255 | | | 55 | | | |
| 21-100 | 100 | | | | | |
| 21-201 | 44 | | | | | 2 |
| 21-202 | 12 | | | | | 4 |
| 23-12 | | | | | 12 | |
| 23-22 | | | | 22 | | |
| 23-269 | | | 69 | | | |
| 23-130 | 130 | | | | | |
| 23-200 | 28 | | | | | 4 |

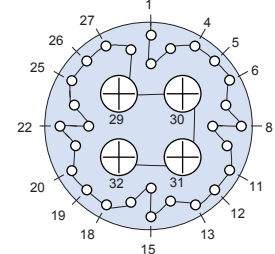
Mating Face View of Pin Connector
(socket connector numbers are reversed)



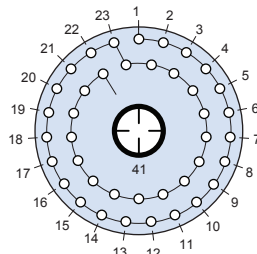
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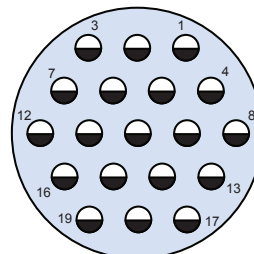
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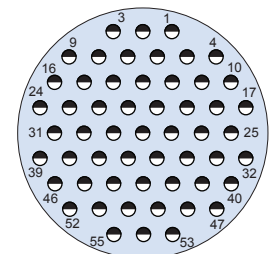
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19-205



21-19

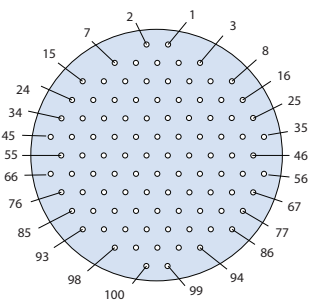


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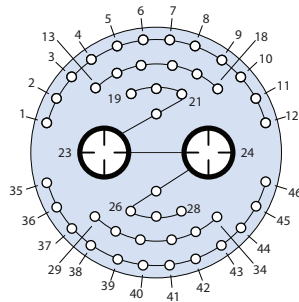
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Contact Legend

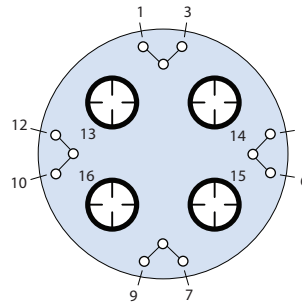
#23 ◦ #20HD ◐ #20 ● #16 ◑ #12 ⊕



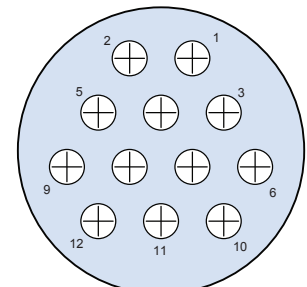
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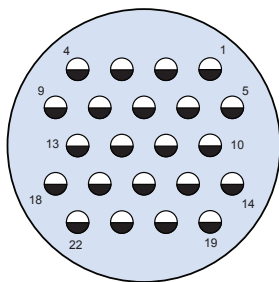
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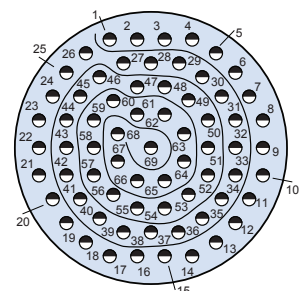
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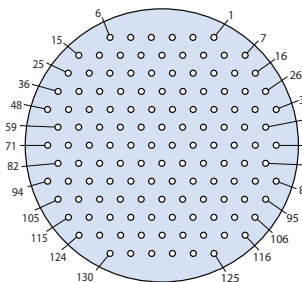
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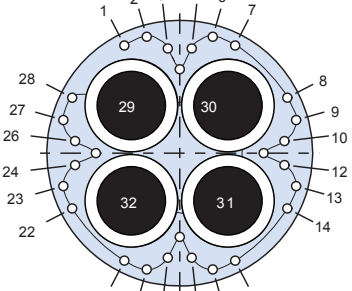
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23-269



23-130



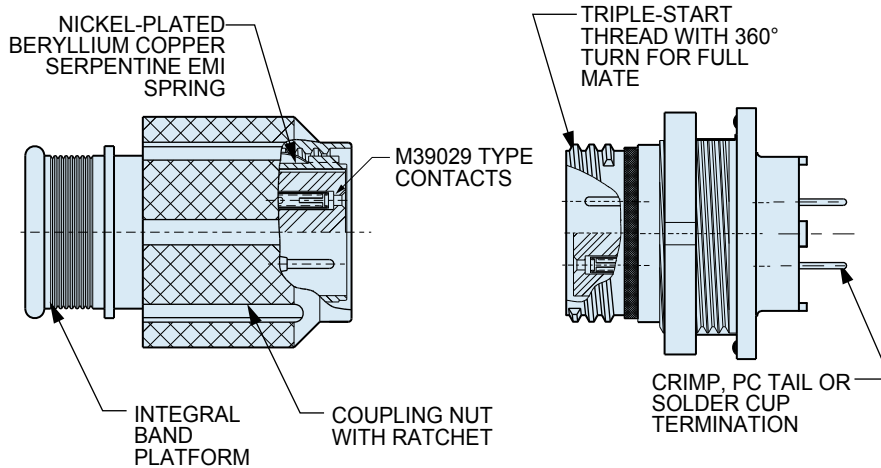
21-200

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

Series 805 Mighty Mouse Triple-Start Threaded Coupling General Information



Series 805



Outstanding EMI Shielding

Nickel-plated beryllium copper ground spring and metal-to-metal bottoming for excellent EMI performance.

Triple-Start Coupling

Rugged ACME threads resist cross-threading and allow fast mating.

Environmentally Sealed

Meets MIL-STD-810 Method 512 immersion.

Ratchet Mechanism

Ratcheting anti-decoupling mechanism prevents coupling nut backoff when subjected to vibration.

Glenair's Series 805 Connector Offers Outstanding EMI Protection and Vibration Resistance in a Miniaturized Package

The Series 805 connector was developed to provide several performance enhancements compared to other "Mighty Mouse" versions. A ratchet mechanism in the coupling nut prevents de-mating under severe vibration. EMI performance is improved with a serpentine ground spring on the plug barrel. This nickel plated beryllium copper spring assures low shell-to-shell resistance. The Series 805, although larger than other Series 80 versions, saves size and weight compared to MIL-DTL-38999 connectors with no compromise in performance.



| 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 low frequency from 100MHz to 1000MHz. and 65 dB minimum high frequency from 1 GHz to 10GHz. |
| Magnetic Permeability | 2.0 μ maximum |
| Durability | 2000 mating cycles |

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

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

Mouser Electronics

Authorized Distributor

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[805-003-01C11-19SA](#) [805-004-02NF10-13PA](#) [805-004-07NF11-19PA](#) [805-004-02M10-13SA](#) [805-004-02M9-10SC](#)
[805-004-02M9-10SA](#) [805-004-02M8-7SA](#) [805-004-02M8-4SB](#) [805-004-02M8-4SA](#) [805-004-02M15-7SA](#) [805-004-](#)
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