Series 20 Super-Twin Modular Composite Dual-Gang Connector
Series 20 Super-Twin

High Performance • Miniaturized • Modular

- Reduced size AND WEIGHT
- Lightweight composite or aluminum shell
- Integral backshell
- Modular inserts support a wide variety of short, 39029 Series II type contacts
- Polarization – both shell and inserts
- Center jackscrew – self-locking hardware
- Meets the highest performance requirements for rack-and-panel modular systems
Series 20 Super-Twin Plug and Receptacle Shell

Summary

- Lightweight composite or aluminum
- Integrated 45° and 90° strain relief options
- Clamshell design for easy entry
- Tight tolerance tongue and groove for superior EMC
- Industry standard strain-relief and cable shield termination
- Extremely low bonding resistance
- Polarized shell
- Self-locking hardware
- Drop-in replacement for legacy connectors
- Slots sized for fully populated inserts
Key to Series 20 Super-Twin Package Size Reduction: Short Contacts

From Size #23 Signal to #8 Quadrax to Fiber Optic Termini

Signal  Power  Shielded  Fiber Optic  Pneumatic

Qualified SAE-AS39029 and proprietary contacts with Guaranteed mating and performance
Series 20 Super-Twin Modular Inserts

FAST, Snap-in-Place Retention System

- Flexible harness design
- Fast assembly and repair
- Hybrid contact layouts
- Environmental seals
- Keyed, keystoned inserts
- Industry-standard material
Series 20 Super-Twin Pin Insert: 200-005

Interfacial Seal with Peripheral Seal

Retention Clip, BeCu

Grommet, Triple Ripple Seal

Integral Retention Tab
Series 20 Super-Twin Insert Arrangements

With Size #23, #20HD, #12, #16 and #8 Contact Cavities

- **PATTERN 60**
  - 60 x Size 23 Contacts
  - DWV= 750 VAC

- **PATTERN 7W4**
  - 4 x Size 12 Contacts
  - 7 x Size 20 Contacts
  - DWV= 1500 VAC

- **PATTERN 48**
  - 48 x Size 23 Contacts
  - DWV= 1300 VAC
  - DWV@50 000 ft = 800 VAC

- **PATTERN 21**
  - 21 x Size 20 Contacts
  - DWV= 1500 VAC

- **PATTERN 14Q2**
  - 2 x Size 8 Contacts
  - 14 x Size 23 Contacts
  - DWV= 750 VAC

- **PATTERN 10**
  - 10 x Size 16 Contacts
  - DWV= 1500 VAC
**Series 20 Super-Twin Part Number Development**

**Pin and Socket Inserts**

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>200-005</th>
<th>P</th>
<th>2</th>
<th>-60</th>
<th>A</th>
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<tr>
<td>200-005 Pin Insert</td>
<td>200-006 Socket Insert</td>
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<td>Pin/Socket Insert</td>
<td>P = Pin Insert, S = Socket Insert</td>
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<tr>
<td>Size</td>
<td>Size 2</td>
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<tr>
<td>Insert Pattern</td>
<td>60 = 60X #23 contacts</td>
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<td>Polarization</td>
<td>A, B, C, D, E, F, G, H (must match with shell polarization)</td>
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Series 20 Super-Twin Plug 200-013 Details

- **EMI COVER**
- **EMI JOINT**
- **INTEGRAL STRAIN RELIEF**
- **GROUNDING BOSSES**
- **JACKSCREW, ONE PIECE**

![Diagram of Series 20 Super-Twin Plug 200-013](image)
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The widest range of mission-critical interconnect technologies in the world

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Glenair®