



DEUTSCH AUTOSPORT

# ASHD 3-WAY CONNECTORS

HIGH-CURRENT CONNECTORS FOR 3-PHASE POWER SYSTEMS

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## High-Current Connectors for 3-Phase Power Systems



Expanding our range of ASHD power connectors, the new 3-way version is designed for 3-phase electric motors or generators to meet the growing need of hybrid racecars. The connectors use three 4 AWG contacts for power and two 20 AWG signal contacts for a safety loop.

### APPLICATIONS

- Motor/Generator Connections
- Hybrid Racecars

### ENVIRONMENTAL/MECHANICAL

**Operating Temperatures:** -55°C to +175°C

**Durability:** 500 mating cycles

### MATERIALS

**Shell:** High-strength aluminum alloy, black zinc finish

**Insert:** Thermoplastic

**Seals:** Fluorinated silicone

**Contacts:** Gold-plated copper

### ELECTRICAL

**Dielectric Withstanding Voltage:** Current leakage less than 2 mA at 1500 VAC

**Contact Current Rating (Max.)**

4 AWG Contact: 200 A

20 AWG Contact: 7.5 A

### HEAVY DUTY

- Autosport design
- Positive locking coupling mechanism for excellent vibration resistance
- Environmentally sealed

### WEIGHT SAVINGS

- Lower weight alternative to 4-way connectors

### SAFE HANDLING

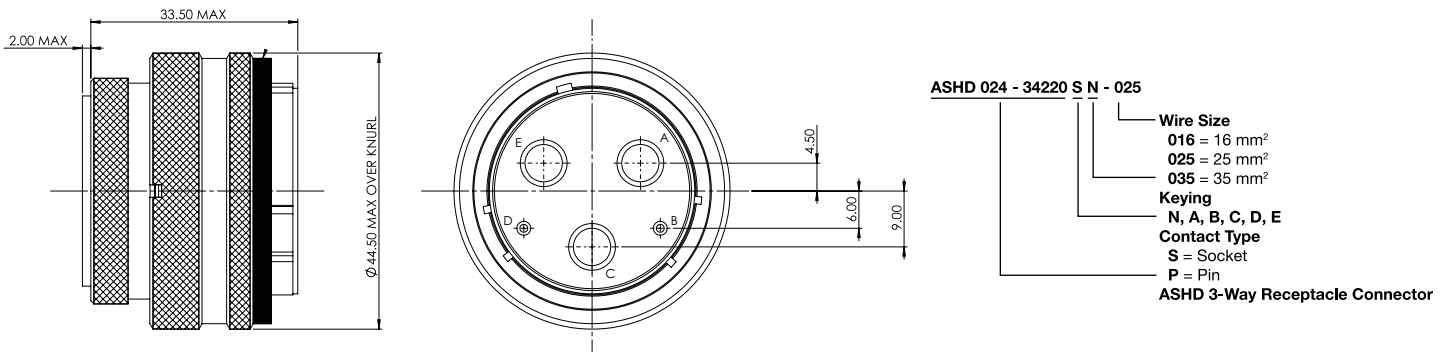
- Size 20 signal contacts designed for a safety loop application
- Early Break/Late Mate on signal contacts for safety

### COMPATIBLE

- Uses existing ASHD shell for easy integration/replacement
- Uses existing ASHD pin and socket contacts for power and signal
- Accommodates cable from 16 mm<sup>2</sup> to 35 mm<sup>2</sup> in diameter

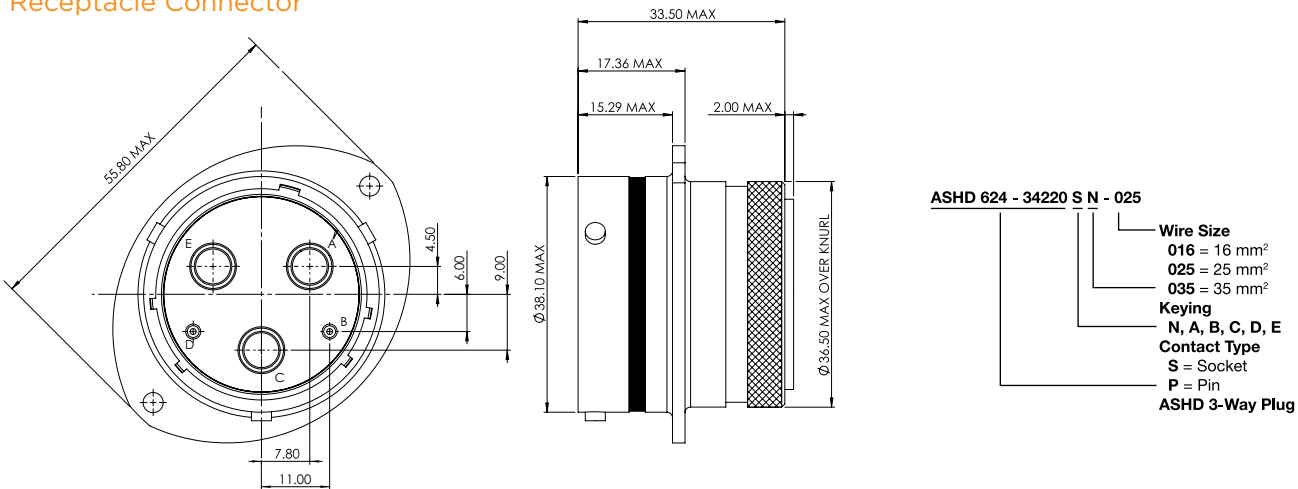
## ASHD 3-Way Connectors

### Plug Connector



ASHD624-34220SN-xxx

### Receptacle Connector



ASHD024-34220SN-xxx

### Contacts and Tooling

#### Size 20 Contacts

| Socket   | Pin      | Filler Plug | Ins/Ext Tool | Crimp Tool  | Socket Positioner | Pin Positioner |
|----------|----------|-------------|--------------|-------------|-------------------|----------------|
| 38943-20 | 38941-20 | 600300-20   | M81969/14-10 | M22520/2-01 | M22520/2-10       | M22520/2-10    |

#### Power Contacts for 4 AWG Wire

| Wire Size          | Socket     | Pin    | Ext Tool    | Crimp Tool | Jaws   |
|--------------------|------------|--------|-------------|------------|--------|
| 16 mm <sup>2</sup> | 611103-016 | 605734 | 610136-Tool | 605773     | 605774 |
| 25 mm <sup>2</sup> | 611103-025 | 605660 |             |            | 605775 |
| 35 mm <sup>2</sup> | 611103-035 | 605735 |             |            | 605776 |

## For More Information

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Consult TE for the latest dimensions and design specifications.