



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

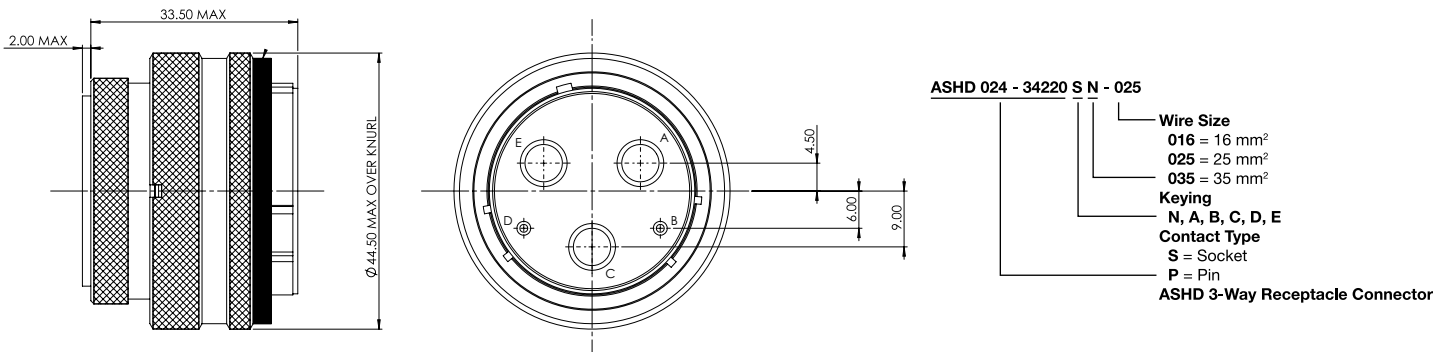
- Size 20 signal contacts designed for a safety loop application
- Early Break/Late Mate on signal contacts for safety

COMPATIBLE

- Uses existing ASHD shell for easy integration/replacement
- Uses existing ASHD pin and socket contacts for power and signal
- Accommodates cable from 16 mm² to 35 mm² in diameter

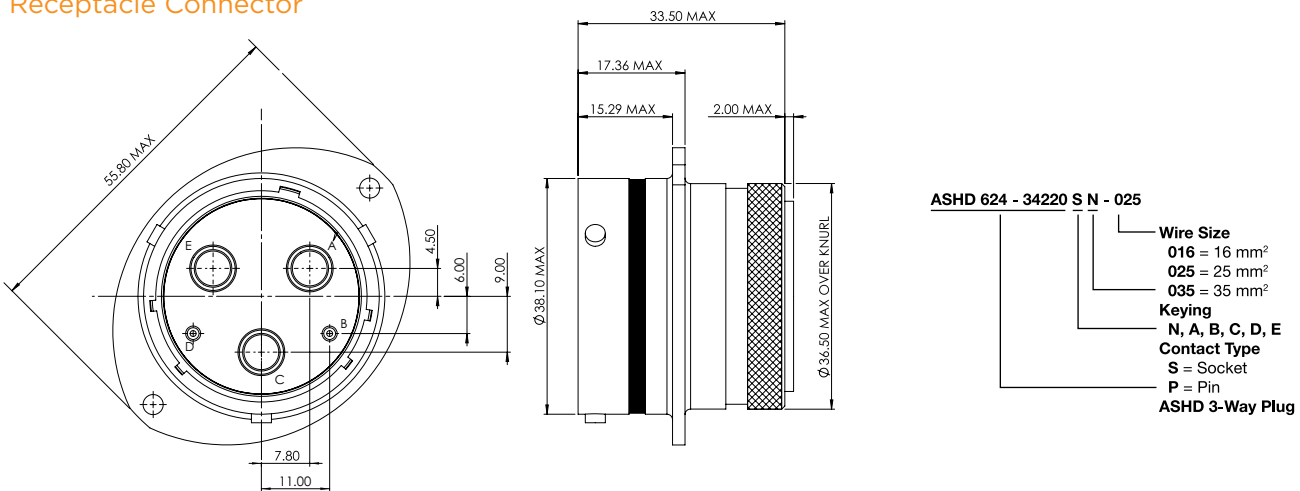
ASHD 3-Way Connectors

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 ²	611103-016	605734	610136-Tool	605773	605774
25 mm ²	611103-025	605660			605775
35 mm ²	611103-035	605735			605776

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Consult TE for the latest dimensions and design specifications.