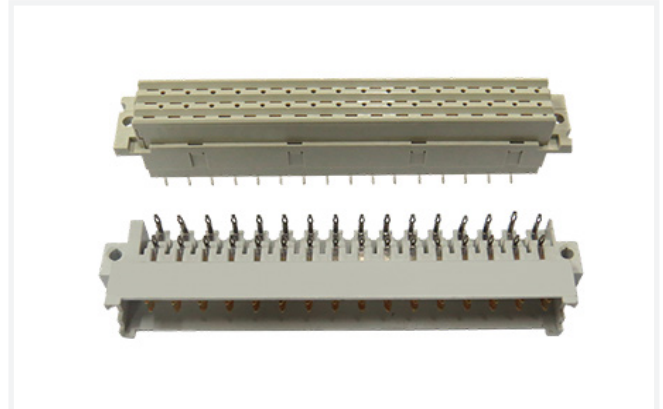


DIN Power

DIN 41612 CONNECTORS WITH MEDIUM AND HIGH POWER CONTACTS

Amphenol has consolidated the Din 41612 series manufacturing adding DIN Power range there by offering Power connectors along with the wide range of standard DIN connectors. The DIN Power connectors are preferred in applications that require particularly robust connectors or higher currents up to 15A.

- High reliability
- Flexibility in grounding and termination options
- Power rating up to 15A
- Includes combo (24+7) version which can meet both signal and power requirements
- Ideal for I&I and Railway segment



TARGET MARKETS



FEATURES

- 5.08mm pitch
- Different styles – D, F, H & F+H
- FMLB and LMEB contacts
- Various termination types available
- Sturdy and robust design
- Refined contact surfaces
- Combo (24+7) version
- Follows DIN 41612 / IEC 606032 specifications dimensional standards

BENEFITS

- Adequate spacing for routing PCB trace
- More contact arrangement options
- Grounding option
- Flexible PCB mounting options
- Ideal for I&I and Railway segment
- Low contact resistance
- Can meet both signal and power requirements
- Intermateable with other makes

TECHNICAL INFORMATION

MATERIAL

- Insulator: PBT / PC / PA
- Contact: Copper alloy

ELECTRICAL PERFORMANCE

- Maximum Current Rating: 5.5A (15A for style H)
- Contact Resistance: $\leq 15\text{m}\Omega$ ($\leq 8\text{m}\Omega$ for style H)
- Test Voltage: 1550 V/50 Hz (3100 V/50 Hz for style H)

MECHANICAL PERFORMANCE

- Insertion force per contact: $\leq 1.55\text{ N}$ ($\leq 6\text{ N}$ for style H)
- Extraction force per contact: $\geq 0.2\text{ N}$
- Insulation Resistance: $\geq 10^6\text{m}\Omega$
- Creepage distance: $\geq 1.6\text{mm}$ ($\geq 4.5\text{mm}$ for style H)

ENVIRONMENTAL

- Operating Temp. Range: -55°C to $+125^\circ\text{C}$

APPROVALS AND CERTIFICATIONS

- UL Approval: Available

SPECIFICATIONS

- Class 1: Durability 500+ mating cycles
- Class 2: Durability 400+ mating cycles
- Class 3: Durability 50 mating cycles

PACKAGING

- Box

TARGET MARKETS/APPLICATIONS



Railway Signaling



Industrial Process Automation
Test Equipment



Medical

PART NUMBERS

Description	Part Numbers
32 pin style D male Right Angle	515903532635411LF
32 pin style D female Straight spill	515903532189311LF
48 pin style F male Right Angle (contact height 7.3mm)	5159009486394AAKLF
48 pin style F male Right Angle (contact height 6.0mm)	5159009486394111LF
32 pin style F male Right Angle (first & last rows loaded)	5159009326394101LF
32 pin style F male Right Angle (first & second rows loaded)	5159009326394110LF
32 pin style F male Right Angle (termination pitch: 5.08mm)	5159009326394130LF
48 pin style F female Hand solder	5159909481194111LF
15 pin high power style H male Right Angle (Silver plated)	51590291523660LF
15 pin high power style H male Right Angle (Tin plated)	51590291523440LF
15 pin high power style H female Faston terminal	51590291519620LF
31 pin (24+7) combo style F+H male Right Angle	5159002312394111LF
31 pin (24+7) combo style F+H female hand solder	5159002311194111LF

Mouser Electronics

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