

# DIN IDC Cable Connectors and Cable Assemblies

## DESIGNED IN ACCORDANCE WITH DIN 41612

DIN IDC cable connectors are available in 4 connector sizes as 96, 42, 21 and 9 positions. Available in wire sizes 30AWG to 24AWG, their unique insulation displacement design grants the lowest installed cost for users. Standard accessories are also offered to make up a fully modular system. This robust and standardized solution is widely used in Industrial & Instrumentation markets. The customized modules enhance connector suitability and flexibility.

- Fully modular system
- Customized modules
- A wide variety of standard accessories
- Suitable for solid and stranded wires



### TARGET MARKETS



### FEATURES

- 4 contact point IDC configuration
- Fully modular system
- Customized modules
- A wide variety of standard accessories such as latches, hoods/covers, and keys
- Allows strain-relief crimping, repair, and visual inspection after insertion, to be performed on individual wires

### BENEFITS

- Provides excellent electrical and mechanical properties
- Flexible, robust and standardized solution
- Enhances connector suitability and flexibility
- Improved adaptability and polarization
- Flexible and easy wire installation

## TECHNICAL INFORMATION

### MATERIAL

- Body Material: Glass reinforced thermoplastic (UL94V-0)
- Contact Material: Phosphor bronze
- Male & Female contacts (DIN 41612 compliant)
  - Active contact areas selectively plated
  - Gold over Nickel or GXT™ over Nickel on mating surface
  - Tin over Nickel on solder termination
- Plating: Lead-free version

### MECHANICAL PERFORMANCE

- Insertion Force: 1N max. per contact
- Withdrawal Force: 0.2N min. per contact

### ELECTRICAL PERFORMANCE

- Contact Resistance: 15mΩ max. initial, 5mΩ max. rise of initial value after test
- Current Rating: 1.5A @ 25°C, 1A @ 70°C
- Voltage Rating: 250V AC (rms)
- Dielectric Withstanding Voltage: 1000 VAC (rms)

### ENVIRONMENTAL

- Operating Temperature: -40°C to +125°C (Depending on the cable, maximum temperature can be lower)
- For standard PVC insulated cable: 105°C max.

### SPECIFICATIONS

- DIN 41612
- IEC 603-2

### PACKAGING

- Tray and carton

### APPROVALS AND CERTIFICATIONS

- UL/CSA pending

### TARGET MARKETS/APPLICATIONS



Switches  
Router  
Enterprise  
Transmission  
Wireless and Wired Access



Server  
Personal Computing  
Peripheral Device



Lighting  
Process Control  
Control Panel  
Onboard Electronics  
Traffic Signalling  
Energy Transmission  
Distribution Control



Medical

## PART NUMBERS

### DIN IDC 3x32 CABLE CONNECTOR

| No. of Contacts | Rows Loaded | Wire Gauge | Connector         | Cover Set      | Connector + Standard Cover Set |
|-----------------|-------------|------------|-------------------|----------------|--------------------------------|
| 96 (2-piece)    | a, b, c     | AWG 30-28  | BPS8B96FLD000xxLF | BPBS8B96CAP1LF | BPS8B96FLD0C0xxLF              |
|                 |             | AWG 26-24  | BPS8B96FLD200xxLF |                | BPS8B96FLD2C0xxLF              |
| 64 (1-piece)    | a, c        | AWG 30-28  | BPS8B96ACD000xxLF |                | BPS8B96ACD0C0XXLF              |
|                 |             | AWG 26-24  | BPS8B96ACD200xxLF |                | BPS8B96ACD2C0xxLF              |

### DIN IDC 2 x (3x7) CABLE CONNECTOR

| No. of Contacts | Rows Loaded | Wire Gauge | Connector              | Cover Set    | Connector + Standard Cover Set |
|-----------------|-------------|------------|------------------------|--------------|--------------------------------|
| 42 (2-piece)    | a, b, c     | AWG 30-28  | (2x) BPS8B21FLD000xxLF | BPBS8B42P3LF | BPS8B42FLD0C0xxLF              |
|                 |             | AWG 26-24  | (2x) BPS8B21FLD200xxLF |              | BPS8B42FLD2C0xxLF              |
| 28 (1-piece)    | a, c        | AWG 30-28  | (2x) BPS8B21ACD000xxLF |              | BPS8B42ACD0C0XXLF              |
|                 |             | AWG 26-24  | (2x) BPS8B21ACD200xxLF |              | BPS8B42ACD2C0xxLF              |

### DIN IDC 3x7 CABLE CONNECTOR

| No. of Contacts | Rows Loaded | Wire Gauge | Connector         | Cover Set    | Connector + Standard Cover Set |
|-----------------|-------------|------------|-------------------|--------------|--------------------------------|
| 21 (2-piece)    | a, b, c     | AWG 30-28  | BPS8B21FLD000xxLF | BPBS8B21P3LF | BPS8B21FLD0C0xxLF              |
|                 |             | AWG 26-24  | BPS8B21FLD200xxLF |              | BPS8B21FLD2C0xxLF              |
| 14 (1-piece)    | a, c        | AWG 30-28  | BPS8B21ACD000xxLF |              | BPS8B21ACD0C0XXLF              |
|                 |             | AWG 26-24  | BPS8B21ACD200xxLF |              | BPS8B21ACD2C0xxLF              |

### DIN IDC 3x3 CABLE CONNECTOR

| No. of Contacts | Rows Loaded | Wire Gauge | Connector         | Cover Set    | Connector + Standard Cover Set |
|-----------------|-------------|------------|-------------------|--------------|--------------------------------|
| 9 (2-piece)     | a, b, c     | AWG 30-28  | BPS8B09FLD000xxLF | BPBS8B09P3LF | BPS8B21FLD0C0xxLF              |
|                 |             | AWG 26-24  | BPS8B09FLD200xxLF |              | BPS8B09FLD2C0xxLF              |
| 6 (1-piece)     | a, c        | AWG 30-28  | BPS8B09ACD000xxLF |              | BPS8B09ACD0C0XXLF              |
|                 |             | AWG 26-24  | BPS8B09ACD200xxLF |              | BPS8B09ACD2C0xxLF              |

#### Notes

Performance class:

- DIN 41612 class III: replace xx by Z0 in part number
- DIN 41612 class II: replace xx by Z1 in part number
- DIN 41612 class I: replace xx by E9 in part number

\*Note: In case of obsolescence, please contact Amphenol ICC for the replacement part numbers

BPLDINDCABLE0319EA4

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Authorized Distributor

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## FCI / Amphenol:

[BPS8B96ACD200L9LF](#) [BPS8B96KKD200L9LF](#) [BPS8B09FLD0C0E9LF](#) [BPS8B09FLD200L9LF](#)  
[BPS8B09FLD200Z1LF](#) [BPS8B09FLD2C0Z1LF](#) [BPS8B21ACD0C0Z1LF](#) [BPS8B21FLD000L9LF](#)  
[BPS8B21FLD200L9LF](#) [BPS8B21FLD200Z1LF](#) [BPS8B21FLD2C0L9LF](#) [BPS8B21FLD2C0Z0LF](#)  
[BPS8B21FLD2C0Z1LF](#) [BPS8B42ACD2C0L9LF](#) [BPS8B42FLD2C0L9LF](#) [BPS8B96ACD000Z1LF](#)  
[BPS8B96ACD200E9LF](#) [BPS8B96ACD2C0L9LF](#) [BPS8B96ACD2C0Z0LF](#) [BPS8B96ACD2C0Z1LF](#)  
[BPS8B96FLD200L9LF](#) [BPS8B96FLD200Z1LF](#) [BPS8B96FLD2C0Z0LF](#) [BPS8B96KKD200ECLF](#)  
[BPS8B96YYD2C0Z0LF](#) [BPS8B96ZZD2C0Z0LF](#) [BPS8B09ACD000Z1LF](#) [BPS8B09ACD2C0Z1LF](#)  
[BPS8B09FLD0C0Z1LF](#) [BPS8B09FLD2C0E9LF](#) [BPS8B21ACD200Z1LF](#) [BPS8B21ACD2C0E9LF](#)  
[BPS8B21FLD0C0E9LF](#) [BPS8B21FLD0C0Z1LF](#) [BPS8B21FLD200E9LF](#) [BPS8B21FLD200ECLF](#)  
[BPS8B21JJD200L9LF](#) [BPS8B21LLD200ECLF](#) [BPS8B42ACD2C0Z1LF](#) [BPS8B42FLD2C0E9LF](#)  
[BPS8B42FLD2C0Z1LF](#) [BPS8B96A0D200Z1LF](#) [BPS8B96ABD200Z1LF](#) [BPS8B96ACD000L9LF](#)  
[BPS8B96ACD0C0Z0LF](#) [BPS8B96ACD0C0Z1LF](#) [BPS8B96ACD200Z0LF](#) [BPS8B96ACD200Z1LF](#)  
[BPS8B96ACD2C5L9LF](#) [BPS8B96FLD000E9LF](#) [BPS8B96FLD000Z1LF](#) [BPS8B96FLD0C0Z1LF](#)  
[BPS8B96FLD200E9LF](#) [BPS8B96FLD200Z0LF](#) [BPS8B96FLD2C0E9LF](#) [BPS8B96FLD2C0Z1LF](#)  
[BPS8B96NND200L9LF](#) [BPS8B21FLD2C0E9LF](#) [BPS8B21FLD000E9LF](#) [BPS8B96ACD2C0E9LF](#)  
[BPS8B96ACD000E9LF](#) [BPS8B09FLD000Z1LF](#)