

# 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

## ARPROVALS 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	BPS8B09FLD0C0xxLF
		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