



# ELECTRICAL COMPONENTS

## Interface Connectors

- Panel Interface Connector
- M8 / M12 Connection Cable
- Breakaway Magnetic Connector



## Introduction

ITC's Interface Connectors Catalog brings together a comprehensive range of solutions designed for secure, reliable, and efficient connectivity in industrial and automation environments. From compact panel-mounted service sockets to rugged cable assemblies and specialty magnetic connectors, each product is engineered to perform in demanding conditions while simplifying installation and maintenance.

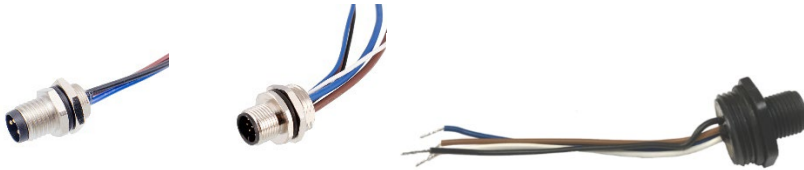
### Panel Interface Connectors (22mm & 22.5mm)

Compact panel-mounted connectors for USB, RJ45, HDMI.



### M8 / M12 Male Panel Interface Connectors

Panel-mounted connectors for M8 / M12 Interface



### M8 / M12 Cables

Durable, IP67-rated cables for sensors, actuators, and automation equipment.



### MAGNA-PLUG Magnetic Connectors

Quick-release connectors designed to reduce cable damage in demanding environments. Ideal for manufacturing, food processing, and high-temperature applications where reliable, safe disconnection is critical.









## 22mm Panel Interface Data Connectors

ITC's 22mm Interface Connectors offer versatile solutions with options including RJ45, USB 3.0, USB-C, and HDMI. Compact and easy to install, they provide high-speed data transmission with IP65 protection. Available in plastic or metal housings, the series ensures dependable performance for control panels and industrial equipment.

### Features and specifications:

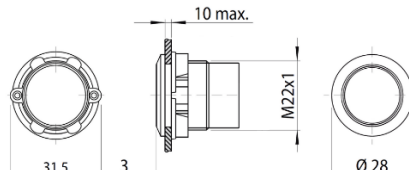
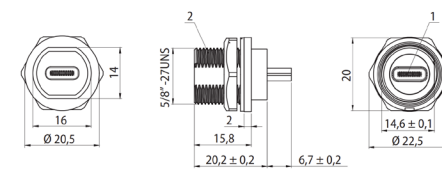
- **Colour:** Black
- **Connection Type:** Front: Female | Back: Female
- **Operating temperature:** -25 to +55°C
- **Operating humidity:** 45-85%RH
- **Transmission speed:**
  - USB 3.0: >100MB/s
  - USB-C: Up to 10Gbps (5A fast charging)
- **IP rating:** IP65
- **Body material:** Plastic / Metal
- **Locknut** Included for mounting

### Ø22mm Panel Interface Connectors & Accessories (Order by Part No.)

Part No.	Size (mm)	Interface Type	Material	
IC-PS-P22PR45	Ø22mm	RJ45 Cat.6	Plastic	
IC-PS-P22PU3	Ø22mm	USB-A 3.0	Plastic	
IC-PS-P22MUC	Ø22mm	Front: USB-C Rear: USB-A 3.0	Metal	
IC-PS-P22MH	Ø22mm	HDMI	Metal	
IC-PS-T22IP65	Ø22mm	Spare IP65 cap for IC-PS-P22 series products	Plastic	
IC-PS-P16PUC	*Ø16mm	USB-C	Plastic	

Information subject to change without notice  
Other Ø16 / 20mm models available on special request.

### Dimensions (mm)

IC-PS-P22 Series Interface Connectors	IC-PS-P16 Series Interface Connectors
 <p>Technical drawing showing front, side, and rear views of the IC-PS-P22 series connector. Dimensions include: front diameter 31.5, mounting hole diameter 28, side profile with 10 max. height and M22x1 thread, and rear diameter 20.5.</p>	 <p>Technical drawing showing front, side, and rear views of the IC-PS-P16 series connector. Dimensions include: front diameter 20.5, mounting hole diameter 16, side profile with 14 height and 5/8"-27UNS thread, and rear diameter 22.5 with a 14.6 ± 0.1 opening.</p>

Information subject to change without notice

## 22.5mm Panel Interface Data Connectors





The 22.5mm Interface Connectors from ITC provide secure USB and RJ45 connections in industrial applications. Designed with reinforced fiberglass PA66 housing and rated IP65, they ensure reliable performance in harsh environments. Accessories such as protective caps and locknuts complete the series for long-term durability and easy installation.

### Features and specifications:

- **Colour:** Black
- **Connection Type:** Front: Female | Back: Female
- **Operating temperature:** -25 to +70°C
- **Storage temperature:** -30 to +80 °C
- **IP rating:** IP65
- **Body material:** reinforced fibreglass PA66
- **Locknut and Protective Cap Included**

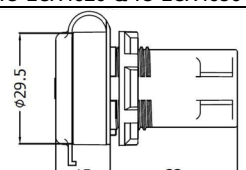
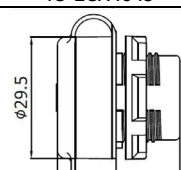


### Ø22.5mm Panel Interface Connectors & Accessories (Order by Part No.)

Part No.	Size	Interface Type (Front)	Material	
IC-ECX4620	Ø22.5mm	USB-A 2.0	Plastic	
IC-ECX4630	Ø22.5mm	USB-A 3.0	Plastic	
IC-ECX4645	Ø22.5mm	RJ45 CAT.6	Plastic	
IC-ECX1608	Fixing tool for IC-ECX4000 22.5mm series connectors		Plastic	
IC-ECX1215PE	Spare protective cap for IC-ECX4645, black			
IC-ECX1216PE	Spare protective cap for IC-ECX4620, black			
IC-ECX1217PE	Spare protective cap for IC-ECX4630, black			
IC-ECX2727	Spare locknut for IC-ECX4620, IC-ECX4630, IC-ECX4645			

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### Dimensions (mm)

IC-ECX4620 & IC-ECX4630	IC-ECX4645
	

Information subject to change without notice



## M8 & M12 Male Panel Interface Connectors

ITC's M8 and M12 Male Interface Connectors provide secure, reliable terminations for industrial automation and control systems. Designed with pre-stripped, tinned wires for simplified installation, they feature IP67 protection and durable housings in polyamide or brass. Available in multiple pin counts, these connectors ensure dependable performance in harsh environments.

### Features and specifications:

- **Colour:** Black / Silver
- **Coding:** A
- **Wire:** stranded conductors 1.0mm<sup>2</sup> (~18AWG)
- **Wire length:** 80mm / 300mm (Pre-stripped and tinned)
- **IP rating:** IP67 (After installation)
- **Body material:** Polyamide / Brass
- **Locknut** Included for mounting



IC-XX1037CO



IC-DA08MD03FF30



IC-DA12MD08FF30



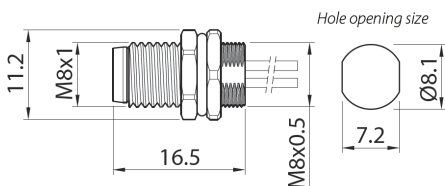
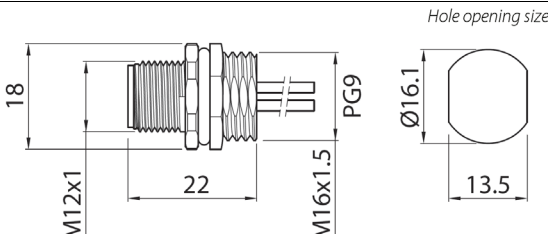
IC-XX1036CO

### Male Panel Interface Connectors M8 / M12 (Order by Part No.)

Part No.	Interface Type	Thread size (Wire side)	Material	Wire length	Number of poles
IC-PC-M8M-3-30	M8	M8	Brass	300mm	3
IC-PC-M8M-4-30	M8	M8	Brass	300mm	4
IC-PC-M12M-4-30	M12	PG9 / M16	Brass	300mm	4
IC-PC-M12M-5-30	M12	PG9 / M16	Brass	300mm	5
IC-PC-M12M-8-30	M12	PG9 / M16	Brass	300mm	8
IC-XX1036CO	M12	Pg13.5 / M20	Polyamide	80mm	4
IC-XX1061CO	M12	Pg13.5 / M20	Polyamide	80mm	5
IC-XX1037CO	M12	Pg13.5 / M20	Brass	80mm	5

Information subject to change without notice

### Dimensions for IC-DA series Male Panel Interface Connectors (mm)

IC-DA series M8 Interface Connectors	IC-DA series M12 Interface Connectors
	

Information subject to change without notice



## M8 & M12 Connection Cables

ITC's M8 and M12 Cables ensure secure connections for sensors, actuators, and field devices. With IP67 protection, gold-plated contacts, and durable PVC jackets, they deliver consistent performance in harsh environments. Available in straight or 90° versions, multiple pole counts, and various lengths, the series offers flexibility and reliability for industrial applications.

### Features and specifications:

- **Colour:** Black / Silver
- **Thread type:** Front: M8 / M12 (Male or Female) | Rear: Open cable end
- **Cable size:** M8 & M12 (8 poles): 24 AWG (0.2mm<sup>2</sup>) | M12 (4 & 5 poles): 22 AWG (0.32mm<sup>2</sup>)
- **Rated Current:** M8: 3A | M12 (4-5 poles): 4A | M12 (8 poles): 2A
- **Rated Voltage:** M8 & M12 (5 poles): 60VAC/DC | M12 (4 poles): 250VAC/DC | M12 (8 poles): 30VAC/DC
- **Resistance:** Contact: ≤5 mΩ | Insulation: >100 mΩ
- **Coding:** A
- **Operating temperature:** -25 to +80°C
- **IP rating:** IP67 (After installation)
- **Material:**
  - **Cable Jacket:** PVC
  - **Contact:** Brass/Gold-plated CuSm
  - **Connector Insulation:** M8: PA66 | M12: PA + GF



M8 cable, straight



M8 cable, 90°



M12 cable, straight



M12 cable, 90°

### M8 Connection Cables (Order by Part No.)

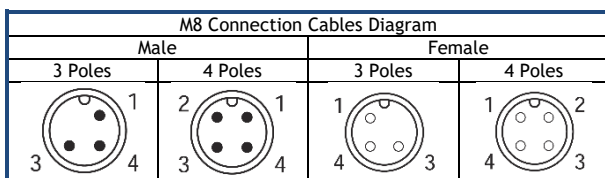
Part No.	Thread Type	Poles	Cable length	Angle
IC-XX3D030SM8	Female	3	3m	straight
IC-XX3D050SM8	Female	3	5m	straight
IC-XX3A03SM8	Female	3	3m	90°
IC-XX3A05SM8	Female	3	5m	90°
IC-C-M8FS-3-BFX2-3	Female	3	3m	straight
IC-C-M8FA-3-BFX2-3	Female	3	3m	90°
IC-C-M8MS-3-BFX2-3	Male	3	3m	straight
IC-C-M8FS-4-BFX2-3	Female	4	3m	straight
IC-C-M8FA-4-BFX2-3	Female	4	3m	90°
IC-C-M8MS-4-BFX2-5	Male	4	5m	straight

Information subject to change without notice  
\*More cable lengths available on special request

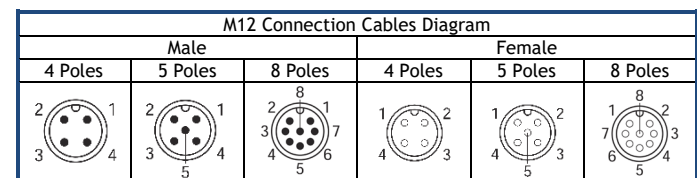
### M12 Connection Cables (Order by Part No.)

Part No.	Thread Type	Poles	Cable length	Angle
IC-XX4D030SM	Female	4	3m	straight
IC-XX4D050SM	Female	4	5m	straight
IC-XX4A030SM	Female	4	3m	90°
IC-XX4A050SM	Female	4	5m	90°
IC-XX5D050SM	Female	5	3m	straight
IC-C-M12FS-4-BFX2-3	Female	4	3m	straight
IC-C-M12FA-4-BFX2-3	Female	4	3m	90°
IC-C-M12MS-4-BFX2-5	Male	4	5m	straight
IC-C-M12FS-5-BFX2-3	Female	5	3m	straight
IC-C-M12FA-5-BFX2-3	Female	5	3m	90°
IC-C-M12MA-5-BFX2-3	Male	5	3m	90°
IC-C-M12FS-8-BFX2-3	Female	8	3m	straight
IC-C-M12FA-8-BFX2-3	Female	8	3m	90°
IC-C-M12MS-8-BFX2-5	Male	8	5m	straight

Information subject to change without notice  
\*More cable lengths available on special request



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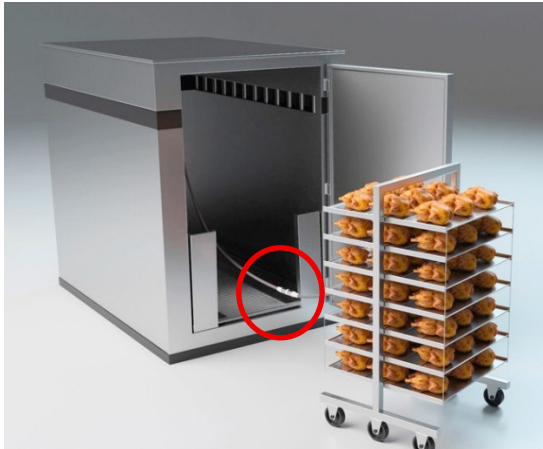


Information subject to change without notice

# MAGNA-PLUG Breakaway Magnetic Connector

The MAGNA-PLUG is a magnetic connector which has been designed primarily to reduce cable and probe breakages in manufacturing processes, for reduced production interruptions.

MAGNA-PLUG connectors can be can also be ordered with custom options such as pre-wired assemblies.



## Features and specifications:

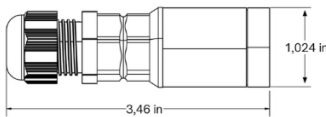
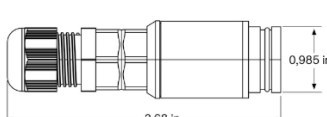
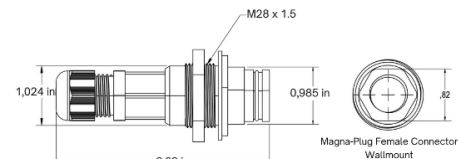
- Magnetic coupling prevents damage to the connector when uncoupled due to strain
- Allows easy coupling in difficult situations (high temperature, using with gloves etc.)
- Only one possible connection between male and female
- **Retention force:** 10lbs.
- **Material**
  - **Body:** Food grade Teflon (white)
  - **Shell:** 316 stainless-steel
- **Contacts:** 6 gold plated
- **Wire section:** up to 18AWG (wires must be soldered to pins)
- **Operating temperature:** -40°C to 260°C (-40°F to 500°F)
- **Maximum voltage:** 48V DC
- **Maximum current:** 5A
- **IP rating:** IP67 / NEMA 6 (when mated)

## MAGNA-PLUG (Order by Part No.)

Part No.	Description	Contacts
IC-MP6-M-V2	Male connector, in-line	6
IC-MP6-F-V2	Female connector, in-line	6
IC-MP6-PM-F-V2	Female connector, panel mount	6

Information subject to change without notice

## Dimensional Drawing - MAGNA-PLUG

IC-MP6-M-V2	IC-MP6-F-V2	IC-MP6-PM-F-V2
 <p>Magna-Plug Male Connector</p>	 <p>Magna-Plug Female Connector</p>	 <p>Magna-Plug Female Connector Wallmount Part# MP6-PM-F-V2</p>

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# ELECTRICAL COMPONENTS

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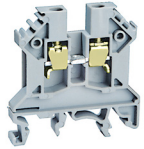
PANEL Lighting



Multipole Connectors



Compact  
IP68 Connectors



Terminal Blocks



Terminal Strips



Screwless  
Parallel Connectors



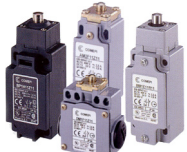
22.5mm Pushbuttons



LED Indicators



Control Stations



Limit Switches



Micro Limit Switches



Safety Switches



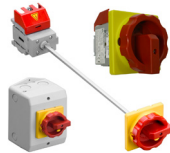
Foot Switches



Circuit Breakers



IEC Contactors



Disconnect Switches



Midget and CC  
Fuse Holders



Tower Lights



Power Continuity



Ferrules



Colour Coded Lugs



Crimp Terminals



Termination Kits



Cable Glands



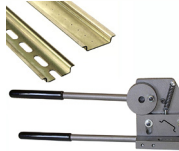
Thread Adapters



Cable Entry Systems



Wire Management



DIN Rail Cutters



Assembly Tables



Cutting & Stripping



Crimping Tools



Hole Cutting &  
Punching Tools

## SOME OF OUR MANUFACTURING PARTNERS

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df Electric

DSE

ALFRA

COMET

IME

TEKNIC  
ELECTRIC

DETASULTRA

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