



M12 PG CLAMP SERIES

CONNECTOR SERIES

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CONNECTORS

M12 Cable Connectors for field assembly. With 360° EMI/RFI shielding, machined crimp contacts, the M12 receptacle connectors with fully shielded housing are pre-assembled.

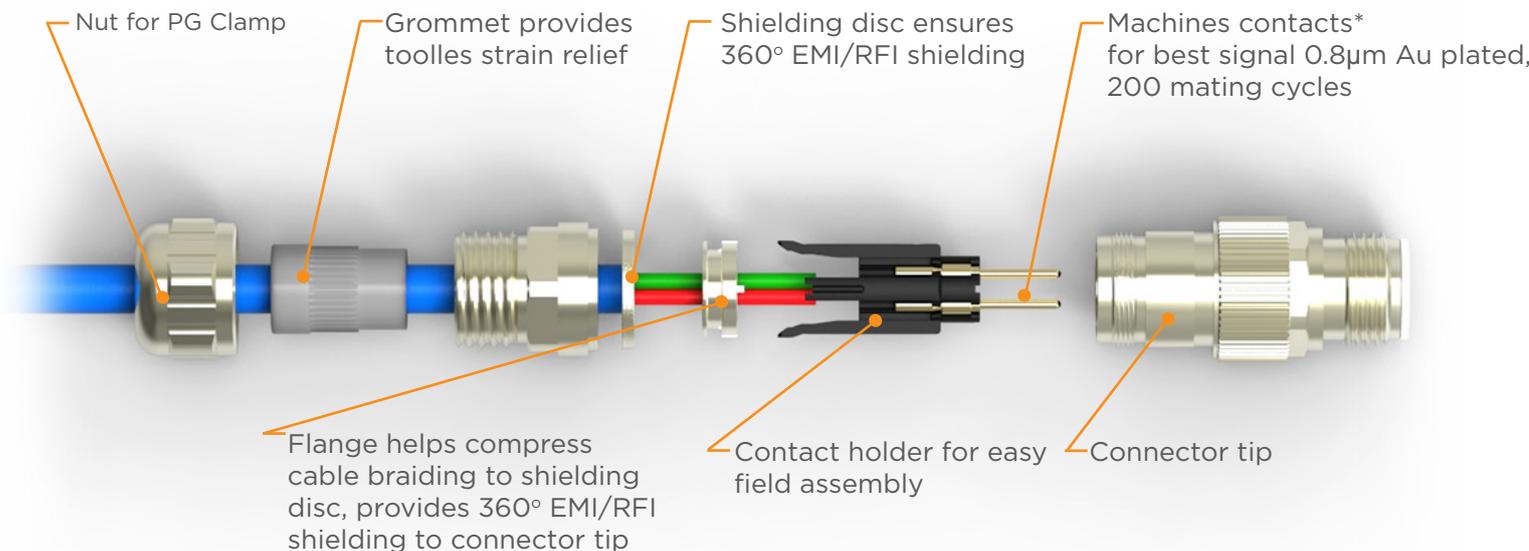


M12 PG Clamp Series

- Male and Female connectors
- D4, A5 and A8 coding
- IP 67 sealed
- Up to 4A for A5 and D4, up to 2A for A8 version
- Toolless strain relief assembly by PG clamp

M12 - The Codings		
A-Coding		
A5	Actuator - sensor plug for DeviceNet, IO link and Profibus	
A8		
D-Coding		
D4	Industrial Ethernet, Ethernet/IP for Railway Applications	

Features



* Contacts to be ordered separately

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Design Features



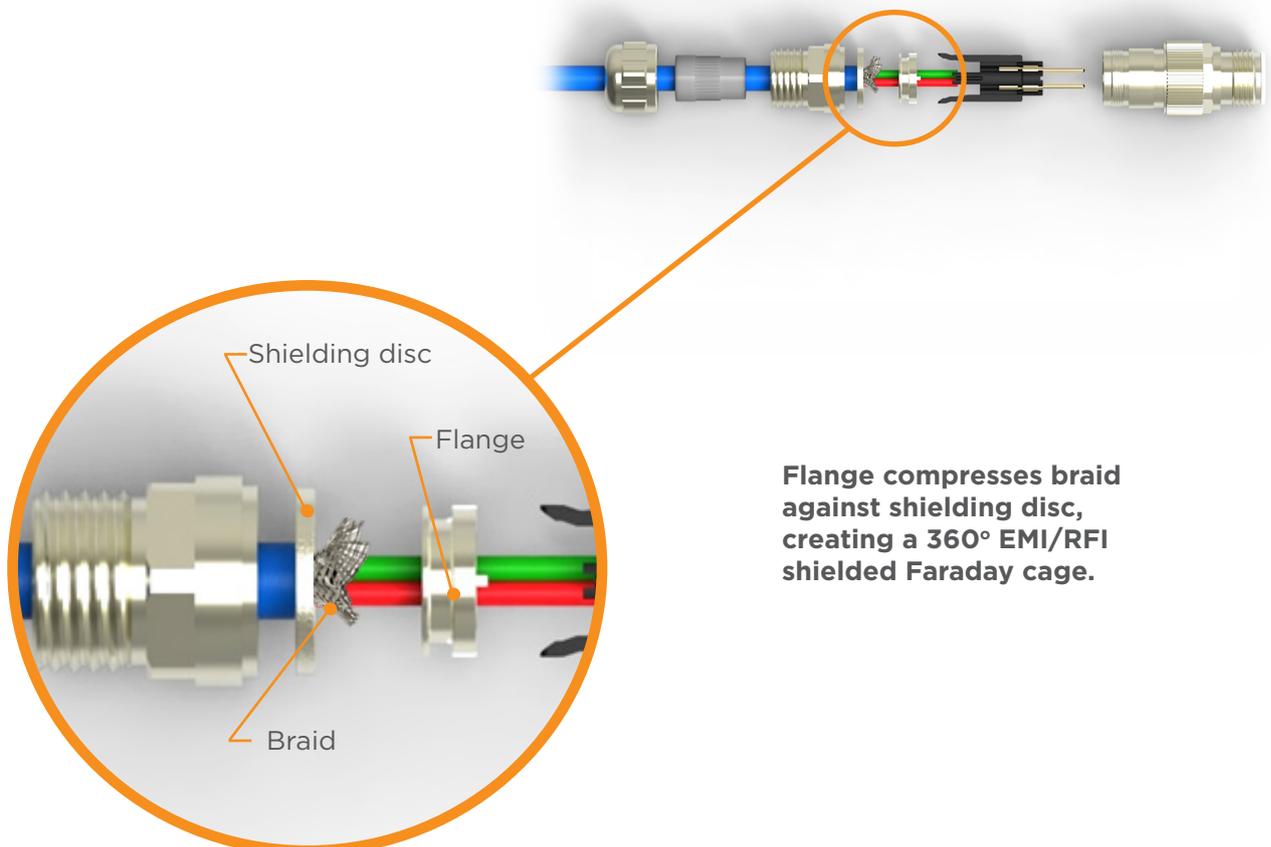
- Vibration-proof screw locking due to integral latching
- Defined recommended torque (of 1.5Nm) to guarantee optimal locking
- Easy assembly due to low number of components
- Male and female versions available
- Huge cable clamp range 4-9mm
- Compact and lightweight design:

Cable DIA	Diameter (mm)	Length (mm)
4-6.5 mm	15.5	50
5.5-9 mm	19.0	49

360° Shielding

The flange system with shielding disc and flange provides the following unique advantages:

- Secure 360° EMI/RFI shielding
- Safe cable shield transfer to device connector without interruption from vibration or shock
- Effective 360° EMI/RFI shielding achieved by full metal housing



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Product Performance Data

Temperature Range:

-40°C to 85°C (without cable boot)

-30°C to 85°C (with cable boot)

Current rating:

A-5 / D-4 : 4 Amp

A-8 : 2 Amp

Operational Voltage:

A-5 / B-5 / D-4 : 50 V DC, A-8 : 30 V DC

Contact Resistance:

≤ 5 MΩ

Insulation Resistance:

≥ 100 MΩ

Data Transmission Characteristics:

IEC 11801:2002 Class D

Data Transmission Rate:

Up to 10Gbit/s

IP Rating:

IP67

Mating Cycles:

≥ 200 mating cycles

Standards:

EN 61373 Class 1

Fire Performance NFF 16101, 16102

EN45545

Materials	
Housing	Cu alloy Ni plated
Insulator & Contact holder	Thermoplastic
Contact Material	Cu alloy
Contact Plating	Au
Sealing	Elastomer



Benefits

The flange system with shielding disc and flange provides the following unique advantages:

- Quickest and easiest field assembly time
- Smallest field assembled M12 connector on the market
- Very competitive pricing
- Rugged connector due to solid machined metal (brass) housing
- Machined 0.8 μm Au plated crimp contacts (min, 200 Mating cycles)
- IP67 water proofing

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Ordering Information

Coding	Picture	# Contacts	Gender	Cable Dia (mm)	PN	
A-Coding		5	Male	4-6.5	1-2312527-1	
				5.5-9	1-2312527-2	
			Female	4-6.5	1-2312501-1	
	5.5-9	1-2312501-2				
	D-Coding		4	Male	4-6.5	1-2308331-1
					5.5-9	1-2308331-2
Female				4-6.5	1-2308323-1	
				5.5-9	1-2308323-2	

For Connector	Gender	Picture	Wire size	PN
D4 and A5 Coding	Male		AWG20	1-2314102-1
			AWG22	1-2314102-2
	Female		AWG20	1-2314103-1
			AWG22	1-2314103-2
A8 Coding	Male		AWG20	1-2314097-1
			AWG22	1-2314097-2
	Female		AWG20	1-2314101-1
			AWG22	1-2314101-2

For Connector	PN	Picture	Example
Cable jacket stripping	1-2823559-1		
Crimping of contacts	601967-1 (standard) OR 601966-1 (compact)		

Tel: +44(0) 1793616700 • Fax: +44(0) 1793 644304
uksales@is-rayfast.com • export@is-rayfast.com

www.is-rayfast.com

2 Lydiard Fields, Swindon, Wiltshire, SN5 8UB

