

M12 CIRCULAR CONNECTORS

● GENERAL FEATURES OF MOULDED CONNECTORS:

Conductor cross section :
0,08(28AWG)...0,75mm²(18AWG).

Contact material and treatment :
Brass + Gold flash.

Protection class :
IP67/IP69K.

Fixing system :
M12 coupling nut.

Housing material :
Polyurethane.

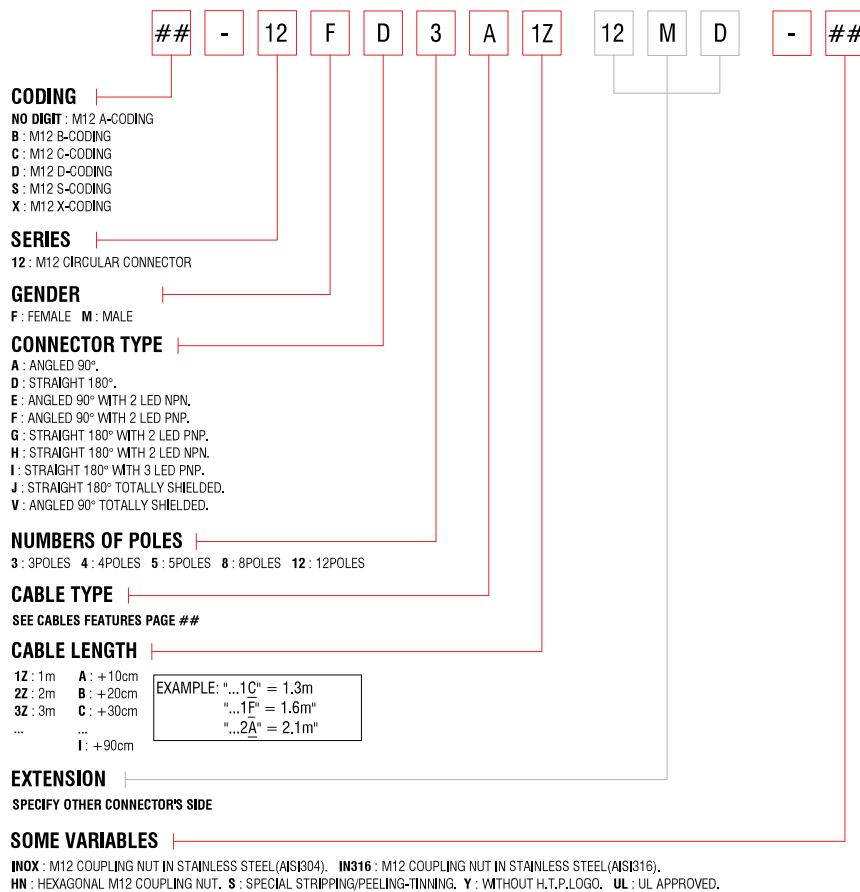
Operating temperature :
-25°C +90°C.

Max. screw torque IEC60947-1
M12 coupling nut torque 0,4N*m

Internal core material :
PA66.

Type of terminations :
Crimped wires,
Solder wires (8 poles - 12 poles).

Coupling nut material :
Brass + Nickel plated.
Stainless steel AISI304 (upon request).
Stainless steel AISI316 (upon request).



ANTI-VIBRATION SYSTEM:



















M12 CIRCULAR CONNECTORS



Technical drawing							
Product description							
Connector type	Circular connector with moulded cable		Circular connector with moulded cable		Circular connector with moulded cable		
Conforms to	IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101		
Construction type	M12 A-Coded		M12 A-Coded		M12 A-Coded		
Description	Circular connector M12 series with moulded cable		Circular connector M12 series with moulded cable		Circular connector M12 series with moulded cable		
Part number	12FD3B1Z	12FA3B1Z	12FD4B1Z	12FA4B1Z	12FD5B1Z	12FA5B1Z	
Housing type	Straight 180° / Angled 90°		Straight 180° / Angled 90°		Straight 180° / Angled 90°		
Cable gland	Moulded cable		Moulded cable		Moulded cable		
Contacts type	Female		Female		Female		
Number of contacts	3poles		4poles		5poles		
Housing colour	Black		Black		Black		
Technical data							
Type of termination	Contacts to crimp wires		Contacts to crimp wires		Contacts to crimp wires		
Contacts material	Brass + Gold flash		Brass + Gold flash		Brass + Gold flash		
Coupling nut type	Knurl round		Knurl round		Knurl round		
M12 coupling nut material	Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated		
M12 coupling nut torque	0.4 N*m		0.4 N*m		0.4 N*m		
Rated voltage	250V AC/DC		250V AC/DC		60V AC/DC		
Rated current	4A		4A		4A		
O-ring material	NBR		NBR		NBR		
Cable type	PVC/PVC CEI2022		PVC/PVC CEI2022		PVC/PVC CEI2022		
Cable jacket colour	Black		Black		Black		
No. Conductors / Section	3x0.34mm ²		4x0.34mm ²		5x0.34mm ²		
Conductor colours	Brown; Blue; Black		Brown; White; Blue; Black		Brown; White; Blue; Black; Grey		
Cable diameter	ø4.8mm (±0.3)		ø5.2mm (±0.3)		ø5.5mm (±0.3)		
Cable length	1m		1m		1m		
Packaging							
Qty/Bag	1 pc / bag		1 pc / bag		1 pc / bag		
Other accessories options							
See accessories section							
Notes:							
Connectors available with different features: See the general features and codification scheme page See the cables list section							

CABLE LIST

Code	Material	Type of cable	Colour	Section	No.core	Cable \varnothing mm ± 0.3	Temperature range °C	M8	M12	M9	M8 	M12 
D-K6-IS	PUR/TPO	 ULstyle 21576 	Black	AWG 22 (0,34mm ²)	4	ø4,8mm	-30°C / +80°C	●	●		●	●
					5	ø5,3mm	-30°C / +80°C		●		●	
J	PVC/PVC	CEI2022 SHIELDED 	Black	0,25mm ²	2 *	n.a.	-20°C / +80°C	●	●			
					3 *	n.a.	-20°C / +80°C	●	●			
					4 *	ø4,8mm	-20°C / +80°C	●	●			
					5 *	ø5,2mm	-20°C / +80°C		●	●		
					8 *	ø6,5mm	-20°C / +80°C		●			
F	PVC/PVC	CEI2022 SHIELDED 	Black	0,34mm ²	2 *	n.a.	-20°C / +80°C	●	●			
					3 *	n.a.	-20°C / +80°C	●	●			
					4 *	ø5,5mm	-20°C / +80°C	●	●			
					5 *	ø6mm	-20°C / +80°C		●			
					8 *	n.a.	-20°C / +80°C		●			
Q	PVC/PVC	CEI2022 SHIELDED 	Grey RAL7032	0,25mm ²	2 *	n.a.	-20°C / +80°C	●	●			
					3 *	n.a.	-20°C / +80°C	●	●			
					4	ø4,8mm	-20°C / +80°C	●	●			
					5 *	ø5,2mm	-20°C / +80°C		●	●		
					8 *	n.a.	-20°C / +80°C		●			
R	PVC/PVC	CEI2022 SHIELDED 	Grey RAL7032	0,34mm ²	2 *	n.a.	-20°C / +80°C	●	●			
					3 *	n.a.	-20°C / +80°C	●	●			
					4 *	ø5,5mm	-20°C / +80°C	●	●			
					5 *	ø6mm	-20°C / +80°C		●	●		
					8 *	n.a.	-20°C / +80°C		●			
U	PUR/PUR	SHIELDED 	Black	0,25mm ²	2 *	n.a.	-40°C / +80°C	●	●			
					3 *	ø4,4mm	-40°C / +80°C	●	●			
					4	ø4,8mm	-40°C / +80°C	●	●			
					5 *	ø5,2mm	-40°C / +80°C		●	●		
					8	n.a.	-40°C / +80°C		●			
U-K6-IS	PUR/TPO	 ULstyle 21576 SHIELDED  	Black	AWG 24 (0,25mm ²)	8	ø7mm	-30°C / +80°C		●			●
G	PUR/PUR	SHIELDED 	Black	0,34mm ²	2 *	n.a.	-40°C / +80°C	●	●			
					3 *	ø4,8mm	-40°C / +80°C	●	●			
					4 *	ø5,5mm	-40°C / +80°C	●	●			
					5 *	ø6mm	-40°C / +80°C		●	●		
					8 *	n.a.	-40°C / +80°C		●			
G-K6-IS	PUR/TPO	 ULstyle 21576 SHIELDED  	Black	AWG 22 (0,34mm ²)	5	ø5,4mm	-30°C / +80°C		●	●		●

* = Cables with minimum quantity required.