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Technical Information

Wire Gauge Conversion Chart

Conversion between American Wire Gauge (AWG), Circular Mil Area (CMA), and approximate metric millimeter squared (mm2) wire sizes.

	Diameter		Area				
AWG	in.	mm	CMA	mm²*			
4/0 (0000)	0.46	11.68	212000	120			
3/0 (000)	0.41	10.41	168000	95			
2/0 (00)	0.365	9.27	133000	70			
1/0 (0)	0.325	8.26	106000	50			
1	0.289	7.34	83700	-			
2	0.258	6.55	66400	35			
3	0.229	5.82	52600	-			
4	0.204	5.18	41700	25			
5	0.182	4.62	33100	-			
6	0.162	4.11	26300	16			
7	0.144	3.66	20800	-			
8	0.128	3.25	16500	10			
9	0.114	2.90	13100	-			
10	0.102	2.59	10400	6			
11	0.091	2.31	8230	-			
12	0.081	2.06	6530	4			
13	0.072	1.83	5180	-			

	Diameter	Area			
AWG	in.	mm	CMA	mm²*	
14	0.062	1.57	4110	2.5	
15	0.057	1.45	3260	-	
16	0.051	1.30	2580	1.5	
17	0.045	1.14	2050	1	
18	0.040	1.02	1620	0.75	
19	0.036	0.91	1290	-	
20	0.032	0.81	1020	0.5	
21	0.0285	0.72	810	-	
22	0.0253	0.643	642	0.34	
23	0.0226	0.574	509	-	
24	0.0201	0.511	404	0.25	
25	0.0179	0.45	320	-	
26	0.0159	0.404	254	0.14	
27	0.0142	0.361	202	-	
28	0.0126	0.320	160	0.08	
29	0.0113	0.29	127	-	
30	0.01	0.254	101	0.05	

Use to Convert American Wire Gauge to Diameter and Circular Mil Area.

^{*}Nearest metric wire size





How to Order

M12 Series With Molded Cable

1		2	3		4	5		6	7
IPM12	-	А3		-	F	WL	-	1.5	U
SERIES		CODING & # CONTACTS	LOCKING SYSTEM		GENDER	ANGLE		ASSEMBLY LENGTH	CABLE SHEATH & SHIELDING

SERIES

IPM12 = M12

CODING & # CONTACTS

A3 = 3 Contacts, A Coding
B3 = 3 Contacts, B Coding
C3 = 3 Contacts, C Coding
A4 = 4 Contacts, A Coding
B4 = 4 Contacts, B Coding
C4 = 4 Contacts, C Coding
D4 = 4 Contacts, D Coding
A5 = 5 Contacts, A Coding
B5 = 5 Contacts, B Coding
C5 = 5 Contacts, C Coding
C6 = 6 Contacts, C Coding
A8 = 8 Contacts, A Coding
A12 = 12 Contacts, A Coding

A17 = 17 Contacts, A Coding

LOCKING SYSTEM

(blank) = Screw-in I = Snap-in*

GENDER

F = Female M = Male

ANGLE

WL = Straight RA-WL = Right Angle

ASSEMBLY LENGTH**

1.5 = 1.5 meters 2.0 = 2 meters 3.0 = 3 meters 5.0 = 5 meters 10 = 10 meters

CABLE SHEATH & SHIELDING

(blank) = PVC, Unshielded U = PUR, Unshielded US = PUR, Shielded S = PVC, Shielded

*Only available with 3, 4, 5 or 8 contacts with Unshielded Cable

**Additional lengths are available

M12 Series Field Wireable Assemblies

1		2	3	4		5
IPM12	-	А3	M	-SCFT	-	3
SERIES		CODING & # CONTACTS	GENDER	TYPE		CABLE GLAND

SERIES

IPM12 = M12

CODING & # CONTACTS

A3 = 3 Contacts, A Coding
B3 = 3 Contacts, B Coding
C3 = 3 Contacts, C Coding
A4 = 4 Contacts, A Coding
B4 = 4 Contacts, B Coding
C4 = 4 Contacts, C Coding
D4 = 4 Contacts, D Coding
D4 = 5 Contacts, A Coding
B5 = 5 Contacts, B Coding
C5 = 5 Contacts, C Coding
C6 = 6 Contacts, C Coding
A8 = 8 Contacts, A Coding

A12 = 12 Contacts, A Coding

GENDER

F = Female M = Male

TYPE

-SRFT = Screw Terminal Contacts

-SRFT-S = Screw Terminal Contacts, Shielded

-SCFT = Solder Contacts, Unshielded

RA - SRFT = Right Angled Screw Terminal

RA - SCFT = Right Angled Screw Solder Contacts

CABLE GLAND SIZE (If applicable)

See Pages 26-35 for reference

3 = PG9 (6-8 mm)

4 = PG7 (4-6 mm)

A = 4-6 MM

B = 6-8 MM





How to Order

M12 Series Panel Mount

1	1 2 IPM12 - A3		3 4			5	6
IPM12			M	-RF	-	SC	-3
SERIES		CODING & # CONTACTS	GENDER	FASTENING		TYPE	THREAD SIZE

SERIES

IPM12 = M12

CODING & # CONTACTS

A3 = 3 Contacts, A Coding B3 = 3 Contacts, B Coding C3 = 3 Contacts, C Coding A4 = 4 Contacts, A Coding

B4 = 4 Contacts, B Coding

C4 = 4 Contacts, C Coding D4 = 4 Contacts, D Coding

A5 = 5 Contacts, A Coding

B5 = 5 Contacts, B Coding

C5 = 5 Contacts, C Coding

C6 = 6 Contacts, C Coding

A8 = 8 Contacts, A Coding

A12 = 12 Contacts, A Coding

A17 = 17 Contacts, A Coding

X8 = 8 Contacts, X Coding*

GENDER

F = Female M = Male

FASTENING

(blank) = Front Fastened -RF = Rear Fastened**

SC = Solder Cup

TYPE

FL = Flying Leads (500mm)
PC = Straight PC Tails
PC-S = Straight PC Tails, Shielded
PCRA = Right Angle PC Tails
PCRA-S = Right Angle PC Tails, Shielded

THREAD SIZE (If applicable)

See Pages 36-49 for reference

*X-Coded Panel Mounts are only available in PC-S

**Only available on solder type panel mounts

M12 Series Cable Assemblies

1		2 3				4	5	
IPM12	-	A 3	-	FM	-	0.5	U	
SERIES		CODING & # CONTACTS		CONNECTOR GENDERS AND ANGLES		ASSEMBLY LENGTH	CABLE SHEATH	

SERIES

IPM12 = M12 to M12

CODING & # CONTACTS

A3 = 3 Contacts, A Coding B3 = 3 Contacts, B Coding C3 = 3 Contacts, C Coding A4 = 4 Contacts, A Coding

B4 = 4 Contacts, B Coding

C4 = 4 Contacts, C Coding D4 = 4 Contacts, D Coding

A5 = 5 Contacts, A Coding

B5 = 5 Contacts, B Coding

C5 = 5 Contacts, C Coding C6 = 6 Contacts, C Coding

A8 = 8 Contacts, A Coding

A12 = 12 Contacts, A Coding A17 = 17 Contacts, A Coding

CONNECTOR GENDERS AND ANGLES

FM = Straight Female to Straight Male FMRA = Straight Female to Male Right Angle FRAM = Female Right Angle to Straight Male FRAMRA = Female Right Angle to Male Right Angle MFRA = Straight Male to Female Right Angle

ASSEMBLY LENGTH*

1.5 = 1.5 meters 2.0 = 2 meters 3.0 = 3 meters 5.0 = 5 meters 10 = 10 meters

CABLE SHEATH

(blank) = PVC U = PUR S = PVC, Shielded US = PUR, Shielded

*Additional lengths are available





How to Order

M12 Series X Coded Single Ended Cable Assembly

1		2		2 3 4		5		6	
IPM12	-	X8	-	F	WL	-	6A	-	2.0
SERIES	CODING & # CONTACTS			GENDER	ANGLE		CABLE TYPE		ASSEMBLY LENGTH

SERIES

CABLE TYPE

IPM12 = M12

6A = Cat 6A7 = Cat 7

CODING & # CONTACTS

6AP = Cat 6A terminated to RJ45 plug 7P = Cat 7 terminated to RJ45 plug

X = 8 Contacts, X Coded

ASSEMBLY LENGTH*

GENDER F = Female

1.5 = 1.5 meters2.0 = 2 meters

M = Male

3.0 = 3 meters

ANGLE WL = Straight 5.0 = 5 meters

RA-WL = Right Angle

10 = 10 meters

M12 Series X Coded End to End Cable Assembly

1		2		3		2 3		4		5
IPM12	-	X8	-	FM	-	6A	-	0.5		
SERIES		CODING & # CONTACTS		CONNECTOR GENDER & ANGLES		CABLE TYPE		ASSEMBLY LENGTH		

SERIES

IPM12 = M12

CODING & # CONTACTS

X = 8 Contacts, X Coded

GENDER

FM = Straight Female to Straight Male FMRA = Straight Female to Male Right Angle FRAM = Female Right Angle to Straight Male FRAMRA = Female Right Angle to Male Right Angle MFRA = Straight Male to Female Right Angle

CABLE TYPE

6A = Cat 6A7 = Cat 7

ASSEMBLY LENGTH*

1.5 = 1.5 meters

2.0 = 2 meters

3.0 = 3 meters

5.0 = 5 meters

10 = 10 meters

^{*}Additional lengths are available

^{*}Additional lengths are available



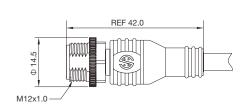


M12 Male Molded Cable, Straight

Connector series: M12

Gender: Male
Coding: A, B, C, D
Locking type: Fix screw
Mounting type: Straight
Part No.: IPM12-**-MWL-XXX

** refers to coding and number of contacts X refers to cable length and cable type





General Information

Standard:	IEC 61076-2-101							
Ambient temperature:	-10°C ~ +80°C (fixed installation)							
Ambient temperature.	-5°C ~ +80°C (flexible installation)							
Connector insert:	TPU							
Connector contacts:	Brass with gold plated							
Connector overmold:	TPU							

Connector nut/screw: Zinc alloy with nickel plated

Insulation resistance: $\geq 100MΩ$ Contact resistance: $\leq 5mΩ$ Shielding: Unavailable IP rating: IP67 in locked condition

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Rated	Voltage		Wire g		Cable	Cable ending
	А	В	С	D	Current	A/C	D/C	AWG	mm²	jacket	& length
03 pins			(2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
04 pins	(10.00)	(1 · 13)	(3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins	(1.0 s) (1.0 s) (1.0 s)	(1.0 s) (1.0 s) (1.0 s)	(4+PE)		4A 2A(C-code)	60V	60V	22AWG 24(C-code)	0.34 0.25 (C-code)	PUR / PVC	Customized cable ending and length
06 pins			(5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	3 3
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	
12 pins	70 05 80 0 0 0 80 10 03 10 10 02				1.5A	30V	30V	26AWG	0.14	PUR / PVC	
17 pins	7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6				1.5A	30V	30V	26AWG	0.14	PUR / PVC	

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 5 for part number breakdown.



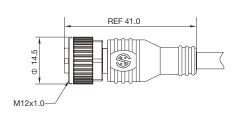


M12 Female Molded Cable, Straight

Connector series: M12

Gender: Female Coding: A, B, C, D Locking type: Fix screw Mounting type: Straight Part No.: IPM12-**-FWL-XXX

** refers to coding and number of contacts X refers to cable length and cable type





General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-10°C ~ +80°C (fixed installation)
Ambient temperature.	-5°C ~ +80°C (flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling nut/screw:	Zinc alloy with nickel plated

 $\begin{tabular}{ll} Seal / O-ring: & FKM \\ \hline Insulation resistance: & $\geq 100 M\Omega$ \\ \hline Contact resistance: & $\leq 5 m\Omega$ \\ \hline Shielding: & Unavailable \\ \hline IP rating: & IP67 in locked condition \\ \hline \end{tabular}$

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Rated	Volt	age	Wire g		Cable	Cable ending
	А	В	С	D	Current	A/C	D/C	AWG	mm²	jacket	& length
03 pins	3 4	(3) (4)	(2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
04 pins	(3 d) (2 f)	(3 4)	(3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins	(3 d) (5 0)	(3 4) (5 0)	(4+PE)		4A 2A(C-code)	60V	60V	22AWG 24(C-code)	0.34 0.25 (C-code)	PUR / PVC	Customized cable ending and length
06 pins			(5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	
08 pins	(4 ⁶ 6) (3 ₀ 8 ₀ 7)				2A	30V	30V	24AWG	0.25	PUR / PVC	
12 pins	(667) (4098) (309) (20)				1.5A	30V	30V	26AWG	0.14	PUR / PVC	
17 pins	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				1.5A	30V	30V	26AWG	0.14	PUR / PVC	

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 5 for part number breakdown.





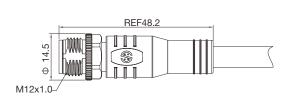
M12 Male Molded Cable, Straight, Shielded

Connector series: M12

Gender: Male Coding: A, B, C, D Locking type: Fix screw Mounting type: Straight

Part No.: IPM12-**-MWL-XXXS

^{**} refers to coding and number of contacts X refers to cable length and cable type





General Information

Standard:	IEC 61076-2-101					
Ambient temperature	-10°C ~ +80°C (fixed installation)					
Ambient temperature:	-5°C ~ +80°C (flexible installation)					
Connector insert:	PA					
Connector contacts:	Brass with gold plated					
Connector overmold:	TPU					
Connector put/corour	Zina allay with piakal platad					

Connector nut/screw: Zinc alloy with nickel plated

Insulation resistance: $\geq 100M\Omega$ Contact resistance: $\leq 5m\Omega$ Shielding: Available IP rating: IP67 in locked condition

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Rated	Voltage		Wire gauge / size		Cable	Cable ending
	Α	В	С	D	Current	A/C	D/C	AWG	mm²	jacket	& length
03 pins			(2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
04 pins	(1 • •3)	4 3	(3+PE)	(1 · 3)	4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins	(1 • 5 · 5 · 5 · 5 · 5 · 5 · 5 · 5 · 5 · 5	(1.1.5.13) (1.1.5.13) (1.1.5.13)	(4+PE)		4A 2A(C-code)	60V	60V	22AWG 24(C-code)	0.34 0.25 (C-code)	PUR / PVC	Customized cable ending and length
06 pins			(5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	
12 pins	7,00 os 80 o 0,01 912,01 os 1010 os				1.5A	30V	30V	26AWG	0.14	PUR / PVC	
17 pins	7 6 6 6 6 6 6 7 6 6 6 6 7 6 6 6 6 7 6 6 6 6 7 6 6 7 6				1.5A	30V	30V	26AWG	0.14	PUR / PVC	

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 5 for part number breakdown.





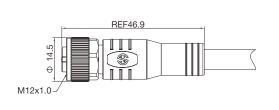
M12 Female Molded Cable, Straight, Shielded

Connector series: M12

Gender: Female Coding: A, B, C, D Locking type: Fix screw Mounting type: Straight

Part No.: IPM12-**-FWL-XXXS

** refers to coding and number of contacts X refers to cable length and cable type





General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-10°C ~ +80°C (fixed installation)
Ambient temperature.	-5°C ~ +80°C (flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling nut/screw:	Zinc alloy with nickel plated

 Seal / O-ring:
 FKM

 Insulation resistance:
 $\geq 100MΩ$

 Contact resistance:
 $\leq 5mΩ$

 Shielding:
 Available

 IP rating:
 IP67 locked condition

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Rated	Volt	age	Wire gauge / size		Cable	Cable ending
	Α	В	С	D	Current	A/C	D/C	AWG	mm²	jacket	& length
03 pins	(3) (4)	(3) (4)	(2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
04 pins	(3 4) (2 1)	(3 4)	(3+PE)	(3) (4)	4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins	(3 d) (5 0) (2 0)	(3 4) (8 0) (2 1)	(4+PE)		4A 2A(C-code)	60V	60V	22AWG 24(C-code)	0.34 0.25 (C-code)	PUR / PVC	Customized cable ending and length
06 pins			(5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	
08 pins	(4 ⁵ 6) (3,8°7) (2°0)				2A	30V	30V	24AWG	0.25	PUR / PVC	
12 pins	(5 ⁶ 0 (4 ⁰ 0 (3) (4) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4				1.5A	30V	30V	26AWG	0.14	PUR / PVC	
17 pins	0000 0000 00000 00000				1.5A	30V	30V	26AWG	0.14	PUR / PVC	

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 5 for part number breakdown.





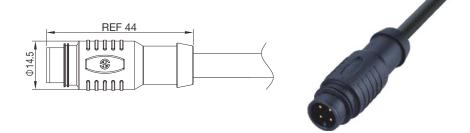
M12 Male Molded Cable, Straight, Snap-in Type

Connector series: M12

Gender: Male Coding: A, B, D

Locking type: Snap-in Mounting type: Straight Part No.: IPM12-**I-MWL-XXX

^{**} refers to coding and number of contacts X refers to cable length and cable type



General Information

-10°C ~ +80°C (fixed installation) Ambient temperature: -5°C ~ +80°C (flexible installation) **TPU** Connector insert: Connector contacts: Brass with gold plated

TPU Connector overmold:

Insulation resistance: $\geq 100M\Omega$ Contact resistance: $\leq 5m\Omega$ Unavailable Shielding: IP rating: IP67 in locked condition

Electrical Data & Mechanical Data

Contacts	Avai	ilable Co	ding	Rated Current	Voltage		Wire gauge / size		Cable	Wire	Cable ending			
	А	В	D		A/C	D/C	AWG	mm ²	jacket	insulation	& length			
03 pins	4 • •3	4 • •3		4A	250V	250V	22AWG	0.34	PUR / PVC	PVC				
04 pins	4 • •3	4 • •3	4 3 1 2	4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	Customized cable			
05 pins	4 • • 5 1 • • 5 1 • • • 2	4 • •3 1 • • •2		4A	60V	60V	22AWG	0.34	PUR / PVC	PVC	ending and length			
08 pins	(6, 6, 4) (7, 6, 6, 3) (1, 6, 8, 6, 2)			2A	30V	30V	24AWG	0.25	PUR / PVC	PVC				

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 5 for part number breakdown.





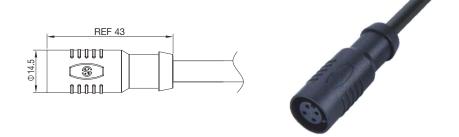
M12 Female Molded Cable, Straight, Snap-in Type

Connector series: M12

Gender: Female Coding: A, B, D

Locking type: Snap-in Mounting type: Straight Part No.: IPM12-**I-FWL-XXX

^{**} refers to coding and number of contacts X refers to cable length and cable type



General Information

A male is not to make a vector way	-10°C ~ +80°C (fixed installation)					
Ambient temperature:	-5°C ~ +80°C (flexible installation)					
Connector insert:	TPU; PA					
Connector contacts:	Brass with gold plated					
Connector overmold:	TPU					

 $\begin{array}{ll} \mbox{Insulation resistance:} & \geq 100 \mbox{M}\Omega \\ \mbox{Contact resistance:} & \leq 5 \mbox{m}\Omega \\ \mbox{Shielding:} & \mbox{Unavailable} \\ \mbox{IP rating:} & \mbox{IP67 in locked condition} \end{array}$

Electrical Data & Mechanical Data

Contacts	Avai	lable Co	ding	Rated	Voltage		Wire gauge / size		Cable	Wire	Cable ending
	Α	В	D	Current	A/C	D/C	AWG	mm ²	jacket	insulation	& length
03 pins	3 4	(3) (4)		4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	
04 pins	3 4 2 1	(3 4)	(3) 4)	4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	Customized cable
05 pins	(3 4) (2 1)	(3 4) (2 0)		4A	60V	60V	22AWG	0.34	PUR / PVC	PVC	ending and length
08 pins	(4 ⁹ 6) (3,8,7) (2,1)			2A	30V	30V	24AWG	0.25	PUR / PVC	PVC	

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 5 for part number breakdown.

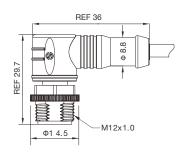




M12 Male Molded Cable, Angled

Connector series: M12

Gender: Male
Coding: A, B, C, D
Locking type: Fix screw
Mounting type: Right angled
Part No.: IPM12-**-MRA-WL-XXX





General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-10°C ~ +80°C (fixed installation)
Ambient temperature.	-5°C ~ +80°C (flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Zinc alloy with nickel plated

Insulation resistance:	$\geq 100M\Omega$
Contact resistance:	$\leq 5m\Omega$
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Rated	Volt	age	Wire g		Cable	Cable ending
001110010	А	В	С	D	Current	A/C	D/C	AWG	mm²	jacket	& length
03 pins	(4° •3)	(4 · s)	(2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
04 pins	(1 · · · · · · · · · · · · · · · · · · ·		(3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins	(1 • •5) (1 • •2)	(1.0 s) (1.0 s) (1.0 s) (1.0 s)	(4+PE)		4A 2A(C-code)	60V	60V	22AWG 24(C-code)	0.34 0.25 (C-code)	PUR / PVC	Customized cable ending and length
06 pins			(5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	
08 pins	6 • • • • • • • • • • • • • • • • • • •				2A	30V	30V	24AWG	0.25	PUR / PVC	
12 pins	70 00 05 00 00 00 00 00 00 00 00 00 00 00				1.5A	30V	30V	26AWG	0.14	PUR / PVC	
17 pins	(5, 15, 14, 4, 4, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13				1.5A	30V	30V	26AWG	0.14	PUR / PVC	

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 5 for part number breakdown.

^{**} refers to coding and number of contacts X refers to cable length and cable type



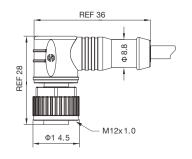


M12 Female Molded Cable, Angled

Connector series: M12

Gender: Female
Coding: A, B, C, D
Locking type: Fix screw
Mounting type: Right angled
Part No.: IPM12-**-FRA-WL-XXX

** refers to coding and number of contacts
X refers to cable length and cable type





General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-10°C ~ +80°C (fixed installation)
Ambient temperature.	-5°C ~ +80°C (flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling nut/screw:	Zinc alloy with nickel plated

Seal / O-ring:	FKM
Insulation resistance:	$\geq 100 M\Omega$
Contact resistance:	$\leq 5m\Omega$
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Rated	Voltage		Wire gauge / size		Cable	Cable ending
	Α	В	С	D	Current	A/C	D/C	AWG	mm²	jacket	& length
03 pins	3 4	(3) (4)	(2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
04 pins	3 4 2 1	(3) (4) (2) (1)	(3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins	(3 4) (5 0)	(3 4) (5 0)	(4+PE)		4A 2A(C-code)	60V	60V	22AWG 24(C-code)	0.34 0.25 (C-code)	PUR / PVC	Customized cable ending and length
06 pins			(5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	
08 pins	(4 ⁶ 6) (3,8°7) (2°1)				2A	30V	30V	24AWG	0.25	PUR / PVC	
12 pins	(5 ⁶ 0 (4 ⁰ 0 ⁶ 8) (3 ⁰ 0) (2 ⁰ 0)				1.5A	30V	30V	26AWG	0.14	PUR / PVC	
17 pins	0000 0000 0000 0000				1.5A	30V	30V	26AWG	0.14	PUR / PVC	

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 5 for part number breakdown.





M12 Male Molded Cable, Angled, Shielded

Connector series: M12

Gender: Male
Coding: A, B, C, D
Locking type: Fix screw
Mounting type: Right angled
Part No.: IPM12-**-MRA-WL-XXXS

** refers to coding and number of contacts X refers to cable length and cable type



General Information

Standard:	IEC 61076-2-101				
Ambient temperature:	-10°C ~ +80°C (fixed installation)				
Ambient temperature.	-5°C ~ +80°C (flexible installation)				
Connector insert:	PA				
Connector contacts:	Brass with gold plated				
Connector overmold:	TPU				
Connector nut/screw:	Zinc alloy with nickel plated				

Insulation resistance:	$\geq 100 M\Omega$
Contact resistance:	$\leq 5m\Omega$
Shielding:	Available
IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

Contacts	Available Coding		Rated	Volt	age	Wire g		Cable	Cable ending		
	А	В	С	D	Current	A/C	D/C	AWG	mm²	jacket	& length
03 pins		4 • •3	(2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
04 pins	(1 · 13)	3	(3+PE)	4 3	4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins	• • • • • • • • • • • • • • • • • • • •	(3° •5°)	(4+PE)		4A 2A(C-code)	60V	60V	22AWG 24(C-code)	0.34 0.25 (C-code)	PUR / PVC	Customized cable ending and length
06 pins			(5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	
08 pins	(5 • 4 (7 • 8 • 2)				2A	30V	30V	24AWG	0.25	PUR / PVC	
12 pins	70 60 05 80 12 0 11 03 10 10 02				1.5A	30V	30V	26AWG	0.14	PUR / PVC	
17 pins	(5,415,614,4) (5,6170,613,3) (1,170,613,3)				1.5A	30V	30V	26AWG	0.14	PUR / PVC	

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 5 for part number breakdown.



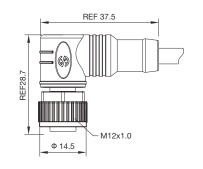


M12 Female Molded Cable, Angled, Shielded

Connector series: M12

Gender: Female
Coding: A, B, C, D
Locking type: Fix screw
Mounting type: Right angled
Part No.: IPM12-**-FRA-WL-XXXS

** refers to coding and number of contacts
X refers to cable length and cable type





General Information

Standard:	IEC 61076-2-101
Ambient temperature	-10°C ~ +80°C (fixed installation)
Ambient temperature:	-5°C ~ +80°C (flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling nut/screw:	Zinc alloy with nickel plated

Seal / O-ring:	FKM
Insulation resistance:	$\geq 100 M\Omega$
Contact resistance:	$\leq 5 m\Omega$
Shielding:	Available
IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Rated	J		Voltage Wire gauge / size		Cable	Cable ending
	Α	В	С	D	Current	A/C	D/C	AWG	mm²	jacket	& length
03 pins	3 4	(3) (4)	(2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
04 pins	(3) (4) (2) (1)	(3) (4)	(3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins	(3 d) (5 0)	(3 4) (5 0)	(4+PE)		4A 2A(C-code)	60V	60V	22AWG 24(C-code)	0.34 0.25 (C-code)	PUR / PVC	Customized cable ending and length
06 pins			(5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	
08 pins	(4 ⁵ 6) (3,8°7) (2°0)				2A	30V	30V	24AWG	0.25	PUR / PVC	
12 pins	(5 ⁶ 0 (4 0 0 8 (3 0 0) (2 0)				1.5A	30V	30V	26AWG	0.14	PUR / PVC	
17 pins	000000000000000000000000000000000000000				1.5A	30V	30V	26AWG	0.14	PUR / PVC	

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 5 for part number breakdown.





M12 Male Molded Cable, Straight, X-coding, Shielded

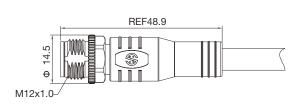
Connector series: M12

Gender: Male Coding: X

Locking type: Fix screw Mounting type: Straight

Part No.: IPM12-X8-MWL-***-XXX

X refers to cable length





General Information

Standard:	IEC 61076-2-109
Ambient temperature:	-10°C ~ +60°C (fixed installation)
Ambient temperature.	-5°C ~ +60°C (flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Zinc alloy with nickel plated

Insulation resistance:	$\geq 100M\Omega$
Contact resistance:	$\leq 10 m\Omega$
Shielding:	Available
IP rating:	IP67 in locked condition
Transmission characteristics:	CAT 6 _A /CAT 7

Electrical Data & Mechanical Data

Contacts	X-Coding	Rated	Rated \	Voltage	Wire	gauge / size	Cable spec	Cable ending & length	
		Current	A/C	D/C	AWG	mm ²			
	08 pins	6 3 3 7 8 9 2	0.5A	50V	60V	27-24	0.14-0.25	CAT 6A/CAT 7	Customized cable ending and length

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 7 for part number breakdown.

^{***} refers to cable type and termination





M12 Female Molded Cable, Straight, X-coding, Shielded

Connector series: M12

Gender: Female

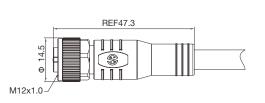
Coding: X

Locking type: Fix screw Mounting type: Straight

Part No.: IPM12-X8-FWL-***-XXX

X refers to cable length

^{***} refers to cable type and termination





General Information

Standard:	IEC 61076-2-109
A male is not to make year.	-10°C ~ +60°C (fixed installation)
Ambient temperature:	-5°C ~ +60°C (flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Zinc allov with nickel plated

Seal / O-ring:	FKM
Insulation resistance:	$\geq 100 M\Omega$
Contact resistance:	\leq 10m Ω
Shielding:	Available
IP rating:	IP67 in locked condition
Transmission characteristics:	CAT 6A/CAT 7

Electrical Data & Mechanical Data

Contacts	X-Coding Rated		Rated Voltage W		Wire (gauge / size	Cable spec	Cable ending
000010	71 33 ag	Current	A/C	D/C	AWG	mm ²		& length
08 pins	3 6 6 2 5 6 7 7	0.5A	50V	60V	27-24	0.14-0.25	CAT 6A/CAT 7	Customized cable ending and length

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 7 for part number breakdown.





M12 Male Molded Cable, Angled, X-coding, Shielded

Connector series: M12

Gender: Male Coding: X

Locking type: Fix screw
Mounting type: Right angled

Part No.: IPM12-X8-MRA-WL-***-XXX

X refers to cable length



General Information

Standard:	IEC 61076-2-109
Ambient temperature	-10°C ~ +60°C (fixed installation)
Ambient temperature:	-5°C ~ +60°C (flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector put/corow:	Zina allov with pickal plated

Connector nut/screw: Zinc alloy with nickel plated

Insulation resistance:	$\geq 100 M\Omega$
Contact resistance:	$\leq 10 m\Omega$
Shielding:	Available
IP rating:	IP67 in locked condition
Transmission characteristics:	CAT 6 _A /CAT 7

Electrical Data & Mechanical Data

Contacts	X-Coding	X-Coding Rated		X-Coding		Voltage	Wire	gauge / size	Cable spec	Cable ending
	71 3 3 4 1 1 1	Current	A/C	D/C	AWG	mm ²		& length		
08 pins	6 4 3 7 8 2	0.5A	50V	60V	27-24	0.14-0.25	CAT 6A/CAT 7	Customized cable ending and length		

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 7 for part number breakdown.

^{***} refers to cable type and termination





M12 Female Molded Cable, Angled, X-coding, Shielded

Connector series: M12

Gender: Female

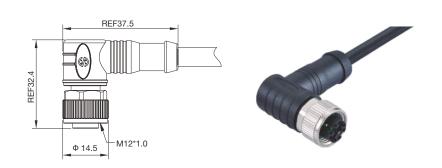
Coding: X

Locking type: Fix screw

Mounting type: Right angled

Part No.: IPM12-X8-FRA-WL-***-XXX

X refers to cable length



Seal / O-ring:

characteristics:

General Information

Standard:	IEC 61076-2-109
A	-10°C ~ +60°C (fixed installation)
Ambient temperature:	-5°C ~ +60°C (flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Zinc alloy with nickel plated

Insulation resistance:	$\geq 100M\Omega$
Contact resistance:	$\leq 10 m\Omega$
Shielding:	Available
IP rating:	IP67 in locked condition
Transmission	CAT 6 _A /CAT 7

FKM

Electrical Data & Mechanical Data

Contacts	X-Coding Rated		Rated Voltage W		Wire	gauge / size	Cable spec	Cable ending
Contacto	7. Coung	Current	A/C	D/C	AWG	mm ²	cusio opeo	& length
08 pins	3 4 5 6 2 5 7	0.5A	50V	60V	27-24	0.14-0.25	CAT 6A/CAT 7	Customized cable ending and length

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 7 for part number breakdown.

^{***} refers to cable type and termination

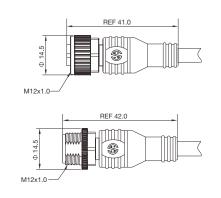




M12 Straight Female to M12 Straight Male Cable Assembly

Connector series: M12 Gender: Female to Male Coding: A, B, C, D, X Locking type: Fix screw Mounting type: Straight Part No.: IPM12-**-FM-XXX IPM12-X8-FM-##-XXX

^{**} refers to coding and number of contacts X refers to cable length and cable type # refers to cable type (X-coding only)





General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-10°C ~ +80°C (fixed installation) -5°C ~ +80°C (flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated

Connector overmold: TPU

Connector nut/screw: Zinc alloy with nickel plated Insulation resistance: $\geq 100M\Omega$ Contact resistance: $\leq 5m\Omega$ Unavailable Shielding: IP rating: IP67 in locked condition

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Rated	Volt	age	Wire g		Cable	Cable ending
	Α	В	С	D	Current	A/C	D/C	AWG	mm²	jacket	& length
03 pins		(4 · 3)	(2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
04 pins		(10.13)	(3+PE)	(1.3)	4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins	(1.0 e3) (1.0 e2)	55,22	(4+PE)		4A 2A(C-code)	60V	60V	22AWG 24(C-code)	0.34 0.25 (C-code)	PUR / PVC	Customized cable ending and length
06 pins			(5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	
12 pins	(00 00 00 00 00 00 00 00 00 00 00 00 00				1.5A	30V	30V	26AWG	0.14	PUR / PVC	
17 pins	(8,000 to 10,000				1.5A	30V	30V	26AWG	0.14	PUR / PVC	

The above information is in regards to A/B/C/D Coded cables only, please refer to pages 18-21 for X-Coded details

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 6 for part number breakdown.
- Please refer to Page 7 for X-coded part number breakdown.





M12 Straight Female to M12 Right Angle Male

Cable Assembly

Connector series: M12 Gender: Female to Male Coding: A, B, C, D, X Locking type: Fix screw

Mounting type: Straight to Right Angle

Part No.: IPM12-**-FMRA-XXX

IPM12-X8-FMRA-##-XXX

** refers to coding and number of contacts X refers to cable length and cable type # refers to cable type (X-coding only)



General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-10°C ~ +80°C (fixed installation)
Ambient temperature.	-5°C ~ +80°C (flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated

Connector overmold: TPU

Connector nut/screw:	Zinc alloy with nickel plated
Insulation resistance:	$\geq 100M\Omega$
Contact resistance:	$\leq 5m\Omega$
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Rated	Volt	age	Wire g		Cable	Cable ending
	А	В	С	D	Current	A/C	D/C	AWG	mm²	jacket	& length
03 pins	(1 e s)		(2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
04 pins	40 03	4 • •3	(3+PE)	(1 · 3)	4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins	40 •3 1• •5	40 •3 1 • 5 •2	(4+PE)		4A 2A(C-code)	60V	60V	22AWG 24(C-code)	0.34 0.25 (C-code)	PUR / PVC	Customized cable ending and length
06 pins			(5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	o o
08 pins	(5 • 4 7 • • • 3 1 • 8 • 2				2A	30V	30V	24AWG	0.25	PUR / PVC	
12 pins	(30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				1.5A	30V	30V	26AWG	0.14	PUR / PVC	
17 pins	(8) 10 10 10 10 10 10 10 10 10 10 10 10 10				1.5A	30V	30V	26AWG	0.14	PUR / PVC	

The above information is in regards to A/B/C/D Coded cables only, please refer to pages 18-21 for X-Coded details

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 6 for part number breakdown.
- Please refer to Page 7 for X-coded part number breakdown.





M12 Right Angled Female to M12 Straight Male

Cable Assembly

Connector series: M12 Gender: Female to Male Coding: A, B, C, D, X Locking type: Fix screw

Mounting type: Right Angle to Straight Part No.: IPM12-**-FRAM-XXX IPM12-X8-FRAM-##-XXX

** refers to coding and number of contacts X refers to cable length and cable type # refers to cable type (X-coding only)



General Information

Standard:	IEC 61076-2-101
Ambient temperature	-10°C ~ +80°C (fixed installation)
Ambient temperature:	-5°C ~ +80°C (flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU

Connector nut/screw:	Zinc alloy with nickel plated
Insulation resistance:	$\geq 100M\Omega$
Contact resistance:	$\leq 5m\Omega$
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

Contacts		Available Coding				Volt	age	Wire g		Cable	Cable ending
	А	В	С	D	Current	A/C	D/C	AWG	mm²	jacket	& length
03 pins		(4 · 3)	(2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
04 pins		(1 · 13)	(3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins	(1.0 e3) (1.0 e2)	552	(4+PE)		4A 2A(C-code)	60V	60V	22AWG 24(C-code)	0.34 0.25 (C-code)	PUR / PVC	Customized cable ending and length
06 pins			(5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	
08 pins	(6.0 • 4) (7.0 • 3.0 • 3) (1.0 8 • 2)				2A	30V	30V	24AWG	0.25	PUR / PVC	
12 pins	70 05 05 00 00 00 00 00 00 00 00 00 00 00				1.5A	30V	30V	26AWG	0.14	PUR / PVC	
17 pins	7 6 5 5 5 6 6 14 4 6 6 6 14 14 14 14 14 14 14 14 14 14 14 14 14				1.5A	30V	30V	26AWG	0.14	PUR / PVC	

The above information is in regards to A/B/C/D Coded cables only, please refer to pages 18-21 for X-Coded details

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 6 for part number breakdown.
- Please refer to Page 7 for X-coded part number breakdown.





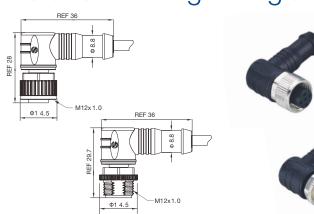
M12 Right Angled Female to M12 Right Angle Male

Cable Assembly

Connector series: M12
Gender: Female to Male
Coding: A, B, C, D, X
Locking type: Fix screw
Mounting type: Right Angle
Part No.: IPM12-**-FRAMRA-XXX

IPM12-X8-FRAMRA-##-XXX

** refers to coding and number of contacts X refers to cable length and cable type # refers to cable type (X-coding only)



General Information

Standard:	IEC 61076-2-101
A mala i a mala da mana a washi wa s	-10°C ~ +80°C (fixed installation)
Ambient temperature:	-5°C ~ +80°C (flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPUs

 $\begin{tabular}{ll} Connector nut/screw: & Zinc alloy with nickel plated \\ Insulation resistance: & $\geq 100 M\Omega$ \\ \hline Contact resistance: & $\leq 5m\Omega$ \\ \hline Shielding: & Unavailable \\ \hline IP rating: & IP67 in locked condition \\ \hline \end{tabular}$

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Rated	Volt	age	Wire g	_	Cable	Cable ending
000010	А	В	С	D	Current	A/C	D/C	AWG	mm²	jacket	& length
03 pins		10.	(2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
04 pins	4 • •3	(1 · 13)	(3+PE)	(1 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins	(1.0 s) (1.0 s) (1.0 s)	5-5-2	(4+PE)		4A 2A(C-code)	60V	60V	22AWG 24(C-code)	0.34 0.25 (C-code)	PUR / PVC	Customized cable ending and length
06 pins			(5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	
12 pins	7,6 e5 86 6 0 64 86 12 0 1 0 3 10 10 0 2				1.5A	30V	30V	26AWG	0.14	PUR / PVC	
17 pins	(5,15,15,16,14,16,16,16,16,16,16,16,16,16,16,16,16,16,				1.5A	30V	30V	26AWG	0.14	PUR / PVC	

The above information is in regards to A/B/C/D Coded cables only, please refer to pages 18-21 for X-Coded details

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 6 for part number breakdown.
- Please refer to Page 7 for X-coded part number breakdown.



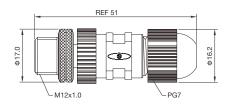


M12 Male Field Wireable Assembly, Straight, Solder

Connector series: M12

Gender: Male
Coding: A, B, C, D
Locking type: Fix screw
Mounting type: Straight
Part No.: IPM12-**M-SCFT

** refers to coding and number of contacts





General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	PA+GF

Seal / O-ring:	FKM
Insulation resistance:	$\geq 100 M\Omega$
Contact resistance:	$\leq 5m\Omega$
Shielding:	Unavailable
Suitable cable dia:	4-5.5mm
IP rating:	IP67 locked condition

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Contacts		Voltage		Wire gauge / size	
	А	В	С	D	Termination	Current	A/C	D/C	AWG	mm²
03 pins		4 3	(2+PE)		Solder Version	4A	250V	250V	22AWG	0.34
04 pins	(1 · · · · · · · · · · · · · · · · · · ·	4 • • • • • • • • • • • • • • • • • • •	(3+PE)	(1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	Solder Version	4A	250V	250V	22AWG	0.34
05 pins	(4 • •3) (1 • •5	(4 • •3) 1 • •2	(4+PE)		Solder Version	4A 2A(C-code)	60V	60V	22AWG 24(C-code)	0.34 0.25 (C-code)
06 pins			(5+PE)		Solder Version	2A	30V	30V	24AWG	0.25
08 pins					Solder Version	2A	30V	30V	24AWG	0.25
12 pins	(((((((((((((((((((Solder Version	1.5A	30V	30V	26AWG	0.14

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 5 for part number breakdown.





M12 Female Field Wireable Assembly, Straight, Solder

Connector series: M12

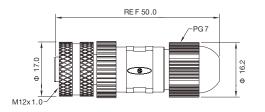
Gender: Female Coding: A, B, C, D Locking type: Fix screw

Mounting type: Tix screw

Mounting type: Straight

Part No.: IPM12-**F-SCFT

^{**} refers to coding and number of contacts





General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	PA+GF

Seal / O-ring:	FKM
Insulation resistance:	$\geq 100 M\Omega$
Contact resistance:	$\leq 5 m \Omega$
Shielding:	Unavailable
Suitable cable dia:	4-5.5mm
IP rating:	IP67 locked condition

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Rated	Volt	age	Wire gauge / size	
	А	В	С	D	Current	A/C	D/C	AWG	mm²
03 pins	3 4	3 4	(2+PE)		4A	250V	250V	22AWG	0.34
04 pins	(3) (4) (2) (1)	(3 4)	(3+PE)	(3) (4)	4A	250V	250V	22AWG	0.34
05 pins	(3 4) 2 0	(3 d) 2 0	(4+PE)		4A 2A(C-code)	60V	60V	22AWG 24(C-code)	0.34 0.25 (C-code)
06 pins			(5+PE)		2A	30V	30V	24AWG	0.25
08 pins	(4 ⁵ 6) (3 8 7) (2 1)				2A	30V	30V	24AWG	0.25
12 pins	(5 6 7) (4 0 6 8) (5 0 9) (7 0 9)				1.5A	30V	30V	26AWG	0.14

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 5 for part number breakdown.





M12 Male Field Wireable Assembly, Straight, Screw joint, Shielded

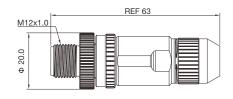
Connector series: M12

Gender: Male Coding: A, B, D

Locking type: Fix screw Mounting type: Straight

Part No.: IPM12-**M-SRFT-S-#

** refers to coding and number of contacts # suitable cable dia: A:4-6mm; B:6-8mm





General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

 $\begin{array}{ll} \mbox{Insulation resistance:} & \geq 100 \mbox{M}\Omega \\ \mbox{Contact resistance:} & \leq 5 \mbox{m}\Omega \\ \mbox{Shielding:} & \mbox{Available} \\ \mbox{Suitable cable dia:} & \mbox{A: 4-6mm; B: 6-8mm} \\ \mbox{IP rating:} & \mbox{IP67 locked condition} \\ \mbox{Assembly instructions:} & \mbox{Refer to page 58} \\ \mbox{} \end{array}$

Electrical Data & Mechanical Data

Contacts	Av	ailable Cod	ing	Contacts	Rated	Volt	age	Wire gauge / size	
	А	В	D	Termination	Current	A/C	D/C	AWG	mm²
03 pins	(4 • •3)	1.3		Screw Joint	4A	250V	250V	22AWG	0.34
04 pins	(1.00)	(1 · 13)	4 3	Screw Joint	4A	250V	250V	22AWG	0.34
05 pins	4 • • s · s · s · s · s · s · s · s · s ·	(4 • •3 1 • • •2		Screw Joint	4A	60V	60V	22AWG	0.34
08 pins	6.3 od 7 o o od 1 o 8 o 2			Screw Joint	2A	30V	30V	24AWG	0.25

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 5 for part number breakdown.





M12 Female Field Wireable Assembly, Straight, Screw joint, Shielded

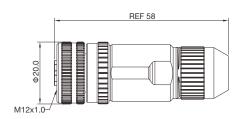
Connector series: M12

Gender: Female Coding: A, B, D

Locking type: Fix screw Mounting type: Straight

Part No.: IPM12-**F-SRFT-S-#

^{**} refers to coding and number of contacts # suitable cable Dia: A:4-6mm; B:6-8mm





General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	$\geq 100M\Omega$
Contact resistance:	$\leq 5m\Omega$
Shielding:	Available
Suitable cable dia:	A: 4-6mm; B: 6-8mm
IP rating:	IP67 locked condition
Assembly instructions:	Refer to page 58

Electrical Data & Mechanical Data

Contacts	Av	ailable Cod	ing	Contacts	Rated	Volt	age	Wire gauge / size	
	А	В	D	Termination	Current	A/C	D/C	AWG	mm²
03 pins	3 4	(3) (4)		Screw Joint	4A	250V	250V	22AWG	0.34
04 pins	3 4 2 0	(3 4) (2 0)	(3) (4)	Screw Joint	4A	250V	250V	22AWG	0.34
05 pins	(3 4) (5 0) (2 0)	(3 4) (2 0)		Screw Joint	4A	60V	60V	22AWG	0.34
08 pins	(4 ⁵ 6) (3 8 7) (2 0)			Screw Joint	2A	30V	30V	24AWG	0.25

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 5 for part number breakdown.



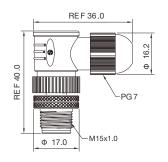


M12 Male Field Wireable, Assembly, Angled, Solder

Connector series: M12

Gender: Male
Coding: A, B, C, D
Locking type: Fix screw
Mounting type: Right angled
Part No.: IPM12-**MRA-SCFT

** refers to coding and number of contacts





General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	$\geq 100M\Omega$
Contact resistance:	$\leq 5m\Omega$
Shielding:	Unavailable
Suitable cable dia:	4-5.5mm
IP rating:	IP67 locked condition
Assembly instructions:	Refer to page 55

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Contacts	Rated	Voltage		Wire gauge / size	
	А	В	С	D	Termination	Current	A/C	D/C	AWG	mm²
03 pins		4 • •3	(2+PE)		Solder Version	4A	250V	250V	22AWG	0.34
04 pins	(10 00)	(10 03)	(3+PE)		Solder Version	4A	250V	250V	22AWG	0.34
05 pins	(4 • 63) (9 • 62)	4 • •3 • • •2	(4+PE)		Solder Version	4A 2A(C-code)	60V	60V	22AWG 24(C-code)	0.34 0.25 (C-code)
06 pins			(5+PE)		Solder Version	2A	30V	30V	24AWG	0.25
08 pins	(6, 6, 4) (7, 6, 6, 3) (1, 6, 8, 6, 2)				Solder Version	2A	30V	30V	24AWG	0.25

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 5 for part number breakdown.



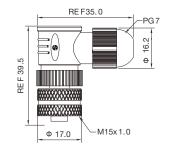


M12 Female Field Wireable Assembly, Angled, Solder

Connector series: M12

Gender: Female
Coding: A, B, C, D
Locking type: Fix screw
Mounting type: Right angled
Part No.: IPM12-**FRA-SCFT

** refers to coding and number of contacts





General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	$\geq 100 M\Omega$
Contact resistance:	$\leq 5 m\Omega$
Shielding:	Unavailable
Suitable cable dia:	4-5.5mm
IP rating:	IP67 locked condition
Assembly instructions:	Refer to page 56

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Contacts	Rated	Voltage		Wire gauge / size	
	А	В	С	D	Termination	Current	A/C	D/C	AWG	mm²
03 pins	3 4	(3) (4)	(2+PE)		Solder Version	4A	250V	250V	22AWG	0.34
04 pins	(3 d) (2 f)	(3 4)	(3+PE)		Solder Version	4A	250V	250V	22AWG	0.34
05 pins	(3 d) (2 n)	(3 @) (8 0) (2 0)	(4+PE)		Solder Version	4A 2A(C-code)	60V	60V	22AWG 24(C-code)	0.34 0.25 (C-code)
06 pins			(5+PE)		Solder Version	2A	30V	30V	24AWG	0.25
08 pins	(4 ⁵ 6) (3) 8) 7) (2) 1)				Solder Version	2A	30V	30V	24AWG	0.25

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 5 for part number breakdown.





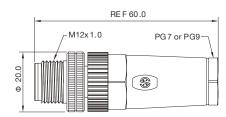
M12 Male Field Wireable Assembly, Straight, Screw Joint

Connector series: M12

Gender: Male Coding: A, B, D

Locking type: Fix screw Mounting type: Straight Part No.: IPM12-**M-SRFT-#

^{**} refers to coding and number of contacts # refers to cable gland size: 3=PG9; 4=PG7





General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Aluminum alloy anodized
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	$\geq 100M\Omega$
Contact resistance:	$\leq 5m\Omega$
Shielding:	Unavailable
Suitable cable dia:	PG7: 4-6mm; PG9: 6-8mm
IP rating:	IP67 locked condition
Assembly instructions:	Refer to page 57

Electrical Data & Mechanical Data

Available Coding Contacts		Contacts Rated		Volt	age	Wire gauge / size			
	А	В	D	Iermination	Termination Current	A/C	D/C	AWG	mm²
03 pins	4 • • 3 1 • • • • • • • • • • • • • • • •	(10.3)		Screw Joint	4A	250V	250V	22AWG	0.34
04 pins	(1 · · · · · · · · · · · · · · · · · · ·		4 3	Screw Joint	4A	250V	250V	22AWG	0.34
05 pins	(1 • •3) 1 • •2	4 • • 3 1 • • 5 2		Screw Joint	4A	60V	60V	22AWG	0.34
08 pins	6 5 0 d 7 0 0 0 3 1 0 8 0 2			Screw Joint	2A	30V	30V	24AWG	0.25

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 5 for part number breakdown.



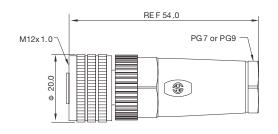


M12 Female Field Wireable Assembly, Straight, Screw Joint

Connector series: M12

Gender: Female
Coding: A, B, D
Locking type: Fix screw
Mounting type: Straight
Part No.: IPM12-**F-SRFT-#

** refers to coding and number of contacts # refers to cable gland size: 3=PG9; 4=PG7





General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Aluminum alloy anodized
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	$\geq 100M\Omega$
Contact resistance:	$\leq 5 m\Omega$
Shielding:	Unavailable
Suitable cable dia:	PG7: 4-6mm; PG9: 6-8mm
IP rating:	IP67 locked condition
Assembly instructions:	Refer to page 57

Electrical Data & Mechanical Data

Contacts	Ava	ailable Cod	ling	Contacts			age	Wire gauge / size	
	А	В	D	Termination	Current	A/C	D/C	AWG	mm²
03 pins	3 4	(3) (4)		Screw Joint	4A	250V	250V	22AWG	0.34
04 pins	3 4 2 1			Screw Joint	4A	250V	250V	22AWG	0.34
05 pins	(3 4) (2 0)	(3 6 2 0		Screw Joint	4A	60V	60V	22AWG	0.34
08 pins	(4 ⁵ 6) (3 8 7) (2 1)			Screw Joint	2A	30V	30V	24AWG	0.25

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 5 for part number breakdown.



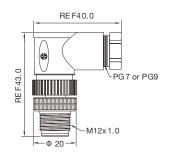


M12 Male Field Wireable Assembly, Angled, Screw Joint

Connector series: M12

Gender: Male Coding: A, B, D

Locking type: Fix screw Mounting type: Right angled Part No.: IPM12-**MRA-SRFT-#





General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Aluminum alloy anodized
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	$\geq 100M\Omega$
Contact resistance:	$\leq 5m\Omega$
Shielding:	Unavailable
Suitable cable dia:	PG7: 4-6mm; PG9: 6-8mm
IP rating:	IP67 locked condition
Assembly instructions:	Refer to page 57

Electrical Data & Mechanical Data

Available Coding Contacts	Contacts Rated		Volt	age	Wire gauge / size				
	А	В	D	Termination	Current	A/C	D/C	AWG	mm²
03 pins	4 • •3	4 • • • • • • • • • • • • • • • • • • •		Screw Joint	4A	250V	250V	22AWG	0.34
04 pins	4 • •3	4 • • 3	3	Screw Joint	4A	250V	250V	22AWG	0.34
05 pins	4 • •3 1 • •2	(4 • •3 •5 •5		Screw Joint	4A	60V	60V	22AWG	0.34
08 pins				Screw Joint	2A	30V	30V	24AWG	0.25

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 5 for part number breakdown.

^{**} refers to coding and number of contacts # refers to cable gland size: 3=PG9; 4=PG7





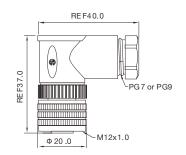
M12 Female Field Wireable Assembly, Angled, Screw Joint

Connector series: M12

Gender: Female Coding: A, B, D

Locking type: Fix screw
Mounting type: Right angled
Part No.: IPM12-**-FRA-SRFT-#

** refers to coding and number of contacts # refers to cable gland size: 3=PG9; 4=PG7





General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Aluminum alloy anodized
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	$\geq 100M\Omega$
Contact resistance:	$\leq 5m\Omega$
Shielding:	Unavailable
Suitable cable dia:	PG7: 4-6mm; PG9: 6-8mm
IP rating:	IP67 locked condition
Assembly instructions:	Refer to page 57

Electrical Data & Mechanical Data

Contacts	Ava	ailable Cod	ding	Contacts			Voltage		Wire gauge / size	
	А	В	D	Termination	Current	A/C	D/C	AWG	mm ²	
03 pins	3 4	(3) (4)		Screw Joint	4A	250V	250V	22AWG	0.34	
04 pins	3 4 2 0			Screw Joint	4A	250V	250V	22AWG	0.34	
05 pins	(3 (4) (2 (1)	(3 6 2 0		Screw Joint	4A	60V	60V	22AWG	0.34	
08 pins	(4 ⁵ 6) (3 6 7) (2 0)			Screw Joint	2A	30V	30V	24AWG	0.25	

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 5 for part number breakdown.



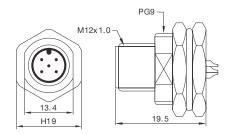


M12 Male Panel Mount, Solder, Front Fastened

Connector series: M12

Gender: Male Coding: A, B, C, D Locking type: Fix screw Mounting type: Front fastened

Part No.: IPM12-**M-SC-3





General Information

Standard:	IEC 61076-2-101			
Ambient temperature:	-25°C ~ +90°C			
Connector insert:	TPU			
Connector contacts:	Brass with gold plated			
Connector nut/screw:	Brass with nickel plated			
Seal/O-ring:	Epoxy resin/FKM			

Insulation resistance:	$\geq 100 M\Omega$
Contact resistance:	$\leq 5m\Omega$
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut-out:	Refer to page 60

Electrical Data & Mechanical Data

Contacts	Available Coding			Contacts	Rated	Voltage		Wire gauge / size		
	А	В	С	D	Termination	Current	A/C	D/C	AWG	mm²
03 pins		(1 · a)	(2+PE)		Solder Version	4A	250V	250V	22AWG	0.34
04 pins		(1	(3+PE)	(1 · 13)	Solder Version	4A	250V	250V	22AWG	0.34
05 pins	(1 • • • • • • • • • • • • • • • • • • •	(4 • 13) (4 • 15)	(4+PE)		Solder Version	4A 2A(C-code)	60V	60V	22AWG 24(C-code)	0.34 0.25 (C-code)
06 pins			(5+PE)		Solder Version	2A	30V	30V	24AWG	0.25
08 pins					Solder Version	2A	30V	30V	24AWG	0.25
12 pins	(70 05 05 05 05 05 05 05 05 05 05 05 05 05				Solder Version	1.5A	30V	30V	26AWG	0.14
17 pins	79 60 60 816 15 14 4 816 16 0 3 111,12 13 3				Solder Version	1.5A	30V	30V	26AWG	0.14

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 6 for part number breakdown.

^{**} refers to coding and number of contacts





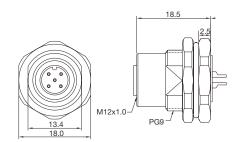
M12 Female Panel Mount, Solder, Front Fastened

Connector series: M12

Gender: Female Coding: A, B, C, D Locking type: Fix screw

Mounting type: Front fastened Part No.: IPM12-**F-SC-3

^{**} refers to coding and number of contacts





General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin/FKM

Insulation resistance:	$\geq 100M\Omega$
Contact resistance:	$\leq 5 m\Omega$
Shielding:	Unavailable
IP rating:	IP67 locked condition
Panel cut-out:	Refer to page 60

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Contacts	Rated	Volt	age	Wire gauge / size	
	А	В	С	D	Termination	Current	A/C	D/C	AWG	mm²
03 pins	3 4	(3) (4)	(2+PE)		Solder Version	4A	250V	250V	22AWG	0.34
04 pins	3 4	(3 4)	(3+PE)		Solder Version	4A	250V	250V	22AWG	0.34
05 pins	(3 4) (5 0) (2 0)	(3 4) (5 0)	(4+PE)		Solder Version	4A 2A(C-code)	60V	60V	22AWG 24(C-code)	0.34 0.25 (C-code)
06 pins			(5+PE)		Solder Version	2A	30V	30V	24AWG	0.25
08 pins	(4 ⁶ 6) (2 ⁰ 0)				Solder Version	2A	30V	30V	24AWG	0.25
12 pins	\$ 6 7 \$ 4 9 8 \$ 6 9 \$ 7				Solder Version	1.5A	30V	30V	26AWG	0.14

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 6 for part number breakdown.



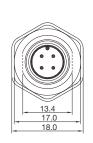


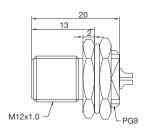
M12 Male Panel Mount, Solder, Rear Fastened

Connector series: M12

Gender: Male
Coding: A, B, C, D
Locking type: Fix screw
Mounting type: Rear fastened
Part No.: IPM12-**M-RF-SC-3

** refers to coding and number of contacts







General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal/O-ring:	Epoxy resin/FKM

Insulation resistance:	$\geq 100 M\Omega$
Contact resistance:	$\leq 5m\Omega$
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut-out:	Refer to page 60

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Contacts	Rated	Voltage		Wire gauge / size	
Contacto	А	В	С	D	Termination	Current	A/C	D/C	AWG	mm²
03 pins	(1.0 × 1.0 ×	(10.00)	(2+PE)		Solder Version	4A	250V	250V	22AWG	0.34
04 pins	(10.00)	4 • •3	(3+PE)		Solder Version	4A	250V	250V	22AWG	0.34
05 pins	(1.0 •3) (1.0 •2)	(4 • • • • • • • • • • • • • • • • • • •	(4+PE)		Solder Version	4A 2A(C-code)	60V	60V	22AWG 24(C-code)	0.34 0.25 (C-code)
06 pins			(5+PE)		Solder Version	2A	30V	30V	24AWG	0.25
08 pins					Solder Version	2A	30V	30V	24AWG	0.25
12 pins	(0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				Solder Version	1.5A	30V	30V	26AWG	0.14

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 6 for part number breakdown.





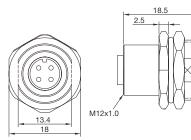
M12 Female Panel Mount, Solder, Rear Fastened

Connector series: M12

Gender: Female Coding: A, B, C, D Locking type: Fix screw

Mounting type: Rear fastened Part No.: IPM12-**F-RF-SC-3

^{**} refers to coding and number of contacts





General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Enovy resin/EKM

Seal / O-ring: Epoxy resin/FKM

Insulation resistance:	\geq 100M Ω
Contact resistance:	$\leq 5 m\Omega$
Shielding:	Unavailable
IP rating:	IP67 locked condition
Panel cut-out:	Refer to page 60

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Contacts	Rated	Volt	age	Wire gauge / size	
	А	В	С	D	Termination	Current	A/C	D/C	AWG	mm²
03 pins	(3) (4)	(3 4)	(2+PE)		Solder Version	4A	250V	250V	22AWG	0.34
04 pins	(3) (4) (2) (1)	(3 d) (2 f)	(3+PE)		Solder Version	4A	250V	250V	22AWG	0.34
05 pins	(3 d) (8 0)	(3 4) (8 9)	(4+PE)		Solder Version	4A 2A(C-code)	60V	60V	22AWG 24(C-code)	0.34 0.25 (C-code)
06 pins			(5+PE)		Solder Version	2A	30V	30V	24AWG	0.25
08 pins	(4 ⁵ 6) (3 8 7) (2 1)				Solder Version	2A	30V	30V	24AWG	0.25
12 pins	(5 6 7) (4 0 6 8) (5 0 0) (7 0)				Solder Version	1.5A	30V	30V	26AWG	0.14
17 pins	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				Solder Version	1.5A	30V	30V	26AWG	0.14

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 6 for part number breakdown.





M12 Male Panel Mount, Flying Leads, Front Fastened

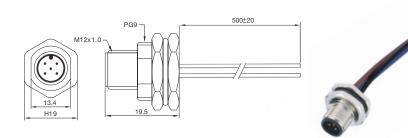
Connector series: M12

Gender: Male Coding: A, B, C, D Locking type: Fix screw

Mounting type: Front fastening

Part No.: IPM12-**M-FL

^{**} refers to coding and number of contacts



General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal/O-ring:	Epoxy resin/FKM

$\geq 100M\Omega$
$\leq 5m\Omega$
Unavailable
IP67 in locked condition
500 mm
Refer to page 60

Electrical Data & Mechanical Data

Contacts		Available Coding				Rated	Volt	age	Wire gau	ge / size	Cable ending
0000.0	Α	В	С	D	Termination	Current	A/C	D/C	AWG	mm²	& length
03 pins			(2+PE)		Solder Version	4A	250V	250V	22AWG	0.34	
04 pins	4 • •3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	40 3	(3+PE)	(1 · · · · · · · · · · · · · · · · · · ·	Solder Version	4A	250V	250V	22AWG	0.34	
05 pins	(4 • •3 1 • •5 1 • •2	4 • • 5 1 1 • • 5 2	(4+PE)		Solder Version	4A 2A(C-code)	60V	60V	22AWG 24(C-code)	0.34 0.25 (C-code)	
06 pins			(5+PE)		Solder Version	2A	30V	30V	24AWG	0.25	Supplied blunt cut
08 pins					Solder Version	2A	30V	30V	24AWG	0.25	
12 pins	7.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				Solder Version	1.5A	30V	30V	26AWG	0.14	
17 pins	7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6				Solder Version	1.5A	30V	30V	26AWG	0.14	

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 6 for part number breakdown.





M12 Female Panel Mount, Flying Leads, Front Fastened

Connector series: M12

Gender: Female

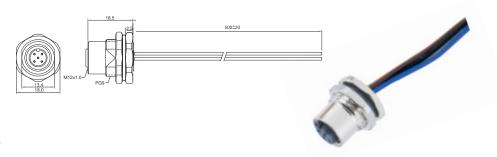
Coding: A

Locking type: Fix screw

Mounting type: Front fastening

Part No.: IPM12-**F-FL

** refers to coding and number of contacts



General Information

Standard:	IEC 61076-2-101	Insulation resistance:	$\geq 100 M\Omega$
Ambient temperature:	-25°C ~ +90°C	Contact resistance:	≤ 5mΩ
Connector insert:	TPU	Shielding:	Unavailable
Connector contacts:	Brass with gold plated	IP rating:	IP67 in locked condition
Connector nut/screw:	Brass with nickel plated	Wire length:	500 mm
Seal/O-ring:	Epoxy resin/FKM	Panel cut-out:	Refer to page 60

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Contacts Termination	Rated Current	Volt	age	Wire gau	ge / size	Cable ending
	Α	В	С	D	Terriiriation	Current	A/C	D/C	AWG	mm²	& length
03 pins	(3) (4)	(3) (4)	(2+PE)		Solder Version	4A	250V	250V	22AWG	0.34	
04 pins	(3 4) (2 f)	(3 d) (2 1)	(3+PE)	(3) (4)	Solder Version	4A	250V	250V	22AWG	0.34	
05 pins	(3 4) (2 0)	(3 4) (5 0)	(4+PE)		Solder Version	4A 2A(C-code)	60V	60V	22AWG 24(C-code)	0.34 0.25 (C-code)	Supplied blunt cut
06 pins			(5+PE)		Solder Version	2A	30V	30V	24AWG	0.25	
08 pins	(4 ⁶ 6) (3) (8) (7)				Solder Version	2A	30V	30V	24AWG	0.25	
12 pins	(5 ⁶ 0 (40 ⁶ 0 (3) (4) (4)				Solder Version	1.5A	30V	30V	26AWG	0.14	

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 6 for part number breakdown.



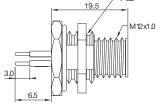


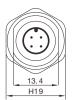
M12 Male Panel Mount, PCB Type, Front Fastened

Connector series: M12

Gender: Male
Coding: A, B, C, D
Locking type: Fix screw
Mounting type: Front fastened
Part No.: IPM12-**M-PC-3

** refers to coding and number of contacts







General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal/O-ring:	Epoxy resin/FKM

Insulation resistance:	$\geq 100 M\Omega$
Contact resistance:	$\leq 5 m\Omega$
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut-out:	Refer to page 60
PCB layout:	Refer to page 59-60

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Contacts	Rated	Volt	age
Contacto	А	В	С	D	Termination	Current	A/C	D/C
03 pins	(10.00)	4 • •3	(2+PE)		PCB Version	4A	250V	250V
04 pins	(1 o o)	(19.03)	(3+PE)		PCB Version	4A	250V	250V
05 pins	(4 • •3) (1 • •5)	(1.0 o 3) (1.0 o 5)	(4+PE)		PCB Version	4A 2A(C-code)	60V	60V
06 pins			(5+PE)		PCB Version	2A	30V	30V
08 pins	(7 • • • • • • • • • • • • • • • • • • •				PCB Version	2A	30V	30V
12 pins	(50 00 00 00 00 00 00 00 00 00 00 00 00 0				PCB Version	1.5A	30V	30V
17 pins	(S ₁₀ 15 14 4 S ₁₀ 15 14 4 S ₁₁ 16 12 3				PCB Version	1.5A	30V	30V

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 6 for part number breakdown.





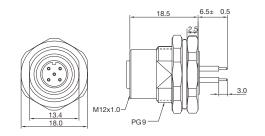
M12 Female Panel Mount, PCB Type, Front Fastened

Connector series: M12

Gender: Female Coding: A, B, C, D Locking type: Fix screw

Mounting type: Front fastened Part No.: IPM12-**F-PC-3

^{**} refers to coding and number of contacts





General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin/FKM

Insulation resistance:	$\geq 100 M\Omega$				
Contact resistance:	$\leq 5 m\Omega$				
Shielding:	Unavailable				
IP rating:	IP67 locked condition				
Panel cut-out:	Refer to page 60				
PCB layout:	Refer to page 59-60				

Contacts	Available Coding Contacts Rated					Voltage		
	А	В	С	D	Termination	Current	A/C	D/C
03 pins	(3) (4)	(3) (4)	(2+PE)		PCB Version	4A	250V	250V
04 pins	(3) 4 (2) (1)	(3 4)	(3+PE)	(3) 4)	PCB Version	4A	250V	250V
05 pins	(9 4) (2 0)	(3 d) 2 0	(4+PE)		PCB Version	4A 2A(C-code)	60V	60V
06 pins			(5+PE)		PCB Version	2A	30V	30V
08 pins	(4 ⁶ 6) (3 8 7) (2 1)				PCB Version	2A	30V	30V
12 pins	(0000 (0000 (0000)				PCB Version	1.5A	30V	30V
17 pins	000000000000000000000000000000000000000				PCB Version	1.5A	30V	30V

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 6 for part number breakdown.



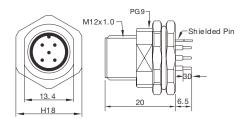


M12 Male Panel Mount, PCB Type, Front Fastened, Shielded

Connector series: M12

Gender: Male Coding: A, B, C, D Locking type: Fix screw Mounting type: Front fastened

Part No.: IPM12-**M-PC-S-3





General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal/O-ring:	Epoxy resin/FKM

Insulation resistance:	$\geq 100M\Omega$
Contact resistance:	$\leq 5m\Omega$
Shielding:	Available
IP rating:	IP67 in locked condition
Panel cut-out:	Refer to page 60
PCB layout:	Refer to page 59-60

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Contacts	Rated	Volt	age
Contacto	А	В	С	D	Termination	Current	A/C	D/C
03 pins	(1 · • • • • • • • • • • • • • • • • • •	10	(2+PE)		PCB Version	4A	250V	250V
04 pins	(1 • •3) (1 • •3)	4 03	(3+PE)		PCB Version	4A	250V	250V
05 pins	(1 • • • • • • • • • • • • • • • • • • •	4 • •3 • • • • • • • • • • • • • • • • •	(4+PE)		PCB Version	4A 2A(C-code)	60V	60V
06 pins			(5+PE)		PCB Version	2A	30V	30V
08 pins	(5, \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				PCB Version	2A	30V	30V
12 pins	(0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				PCB Version	1.5A	30V	30V
17 pins	() () () () () () () () () ()				PCB Version	1.5A	30V	30V

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 6 for part number breakdown.

^{**} refers to coding and number of contacts





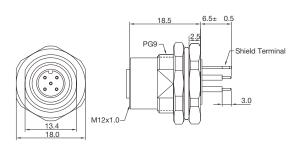
M12 Female Panel Mount, PCB Type, Front Fastened, Shielded

Connector series: M12

Gender: Female Coding: A, B, C, D Locking type: Fix screw

Mounting type: Front fastened Part No.: IPM12-**F-PC-S-3

^{**} refers to coding and number of contacts





General Information

Standard:	IEC 61076-2-101
Ambient temperature:	
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin/FKM

Insulation resistance:	$\geq 100 M\Omega$
Contact resistance:	$\leq 5 m\Omega$
Shielding:	Available
IP rating:	IP67 locked condition
Panel cut-out:	Refer to page 60
PCB layout:	Refer to page 59-60

Contacts Available Coding		Coding		Contacts	Rated	Voltage		
	Α	В	С	D	Termination	Current	A/C	D/C
03 pins	(3 (d) (1)	(3) (4)	(2+PE)		PCB Version	4A	250V	250V
04 pins	(3 d) (2 f)	(3 (2) (2)	(3+PE)	(a) (a)	PCB Version	4A	250V	250V
05 pins	(3 (4) (2 (1)	(3 6) 2 0)	(4+PE)		PCB Version	4A 2A(C-code)	60V	60V
06 pins			(5+PE)		PCB Version	2A	30V	30V
08 pins	(4 ⁵ 6) (3 6 7) (2 1)				PCB Version	2A	30V	30V
12 pins	(560) (000) (000) (000) (000)				PCB Version	1.5A	30V	30V
17 pins	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				PCB Version	1.5A	30V	30V

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 6 for part number breakdown.





M12 Male Panel Mount, Angled, PCB Type, Front Fastened (Shielded/Unshielded)

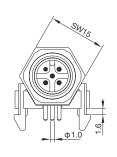
Connector series: M12

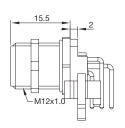
Gender: Male Coding: A, B, D

Locking type: Fix screw
Mounting type: Right angled

Part No.: IPM12-**M-PCRA (Unshielded)

IPM12-**M-PCRA-S (Shielded)







General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal/O-ring:	Epoxy resin/FKM

Insulation resistance:	$\geq 100 M\Omega$
Contact resistance:	$\leq 5m\Omega$
Shielding:	Unavailable / Available
IP rating:	IP67 in locked condition
Panel cut-out:	Refer to page 60
PCB layout:	Refer to page 59-60

Electrical Data & Mechanical Data

Contacts	Available Coding			Contacts	Rated	Voltage	
	А	В	D	Termination	Current	A/C	D/C
04 pins	(40.00)			PCB Version	4A	250V	250V
05 pins	(1 • •5) • •5	550		PCB Version	4A	60V	60V
08 pins	(5, 5, 0, 4) (7, 0, 0, 3) (1, 0, 8, 0, 2)			PCB Version	2A	30V	30V

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 6 for part number breakdown.

^{**} refers to coding and number of contacts





M12 Female Panel Mount, Angled, PCB Type, Front Fastened, (Shielded/Unshielded)

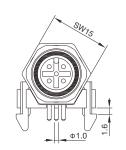
Connector series: M12

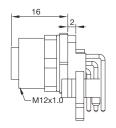
Gender: Female Coding: A, B, D

Locking type: Fix screw
Mounting type: Right angled

Part No.: IPM12-**F-PCRA (Unshielded)

IPM12-**F-PCRA-S (Shielded)







General Information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	$\geq 100 M\Omega$
Contact resistance:	$\leq 5 m\Omega$
Shielding:	Unavailable / Available
IP rating:	IP67 locked condition
Panel cut-out:	Refer to page 60
PCB layout:	Refer to page 59-60

Electrical Data & Mechanical Data

Contacts	Av	ailable Codi	ing	Contacts		Voltage		
	А	В	D	Termination		A/C	D/C	
04 pins	(3) 4 (2) (1)			PCB Version	4A	250V	250V	
05 pins	(3) (4) (2) (1)	(3 4) (5 0)		PCB Version	4A	60V	60V	
08 pins	(4 ⁵ 6) (3) 8 7) (2 0)			PCB Version	2A	30V	30V	

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 6 for part number breakdown.

^{**} refers to coding and number of contacts





M12 Male Panel Mount, PCB Type, Front Fastened, X-coding, Shielded

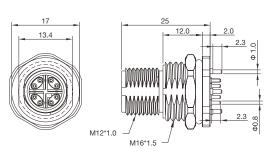
Connector series: M12

Gender: Male Coding: X

Locking type: Fix screw

Mounting type: Front fastened Part No.: IPM12-X8M-PC-S

^{**} refers to coding and number of contacts





General Information

Standard:	IEC 61076-2-109
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass/Zinc with nickel plated
Seal/O-ring:	FKM/Epoxy resin

Insulation resistance:	$\geq 100 M\Omega$
Contact resistance:	$\leq 10 m\Omega$
Shielding:	Available
IP rating:	IP67 in locked condition

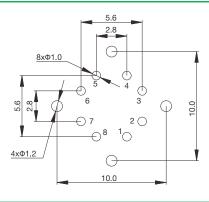
Electrical Data & Mechanical Data

Contacts		Contacts Termination	Rated	Voltage		
			Current	A/C	D/C	
08 pins	6 9 3 3 7 8 1 2	PCB Version	0.5A	50V	60V	

Panel Cut-out Dimensions

With bare hole With thread to screw in

PCB Layout



- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 5 for part number breakdown.





M12 Female Panel Mount, PCB Type, Front Fastened, X-coding, Shielded

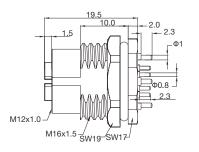
Connector series: M12

Gender: Female

Coding: X

Locking type: Fix screw

Mounting type: Front fastened Part No.: IPM12-X8F-PC-S





General Information

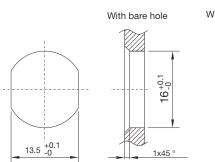
Standard:	IEC 61076-2-109
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass/Zinc with nickel plated
Seal/O-ring:	FKM

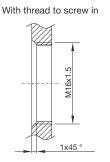
Insulation resistance:	$\geq 100M\Omega$
Contact resistance:	≤ 10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

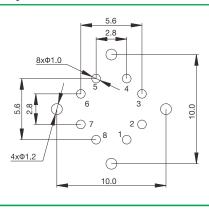
Contacts		Contacts Termination	Rated	Voltage	
			Current	A/C	D/C
08 pins	3 6 6 7	PCB Version	0.5A	50V	60V

Panel Cut-out Dimensions





PCB Layout



- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 5 for part number breakdown.

^{**} refers to coding and number of contacts





M12 Y-Splitter, Male-2*Female

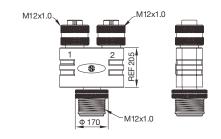
Connector series: M12 Gender: Female & Male

Coding: A, B, D

Locking type: Fix screw Mounting type: Y type

Part No.: IPM12-**-YSPLT-MFF

** refers to coding and number of contacts





General Information

Ambient temperature:	-20°C ~ +80°C
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Overmold:	PVC

Seal/O-ring:	FKM
Insulation resistance:	$\geq 100 M\Omega$
Contact resistance:	$\leq 5 m\Omega$
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

Contacto	Available Coding Rated		Voltage			
Contacts	А	В	D	Current	A/C	D/C
03 pins	Male (3 0) Female	Male (S) Female		4A	250V	250V
04 pins	Male (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Male (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Male (So O) Female	4A	250V	250V
05 pins	Male (3 0) (2 0) Female	Male (3 0) Female		4A	60V	60V
08 pins	Male (306) (200) Female			2A	30V	30V

[•] Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²





M12 Y-Splitter, Female-Male-Female

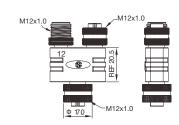
Connector series: M12 Gender: Female & Male

Coding: A, B, D

Locking type: Fix screw Mounting type: Y type

Part No.: IPM12-**-YSPLT-FMF







General Information

Ambient temperature:	-20°C ~ +80°C
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Overmold:	PVC:

Seal/O-ring:	FKM
Insulation resistance:	$\geq 100 M\Omega$
Contact resistance:	$\leq 5 m\Omega$
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

Contacts	A	vailable Codir	ng	Rated	Voltage		
Contacts	А	В	D	Current	A/C	D/C	
03 pins	Male (a) (b) (c) (c) (d) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	Male (9 0) Female		4A	250V	250V	
04 pins	Male @ @ @ 0 Female	Male (3 0) (2 0) Female	Male (a) Male (b) Female	4A	250V	250V	
05 pins	Male So S	Male (3 0) Female		4A	60V	60V	
08 pins	Male O O O O O O O O O O O O O O O O O O			2A	30V	30V	



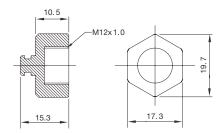


M12 Protection Cap for Male Connector

Connector series: M12

Gender: Male

Locking type: Fix screw Part No.: IPM12-CAP-M





General Information

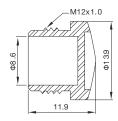
Material:	PA+GF
O-ring:	FKM
Color:	Black
Degree of Protection:	IP67 in locked condition

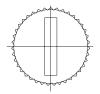
M12 Protection Cap for Female Connector

Connector series: M12

Gender: Female

Locking type: Fix screw Part No.: IPM12-CAP-F







General Information

Material:	PA+GF
Color:	Black
Degree of Protection:	IP67 in locked condition





M12 Cable Mounted Protection Cap for Male Molded Connector

Connector series: M12

Gender: Male

Locking type: Fix screw
Part No.: IPM12-CAP-M-CA



General Information

Color:	Black	Loop:	TPU
Nut/screw:	PA+GF	IP rating:	IP67 in locked condition
Gasket:	FKM		

M12 Cable Mounted Protection Cap for Female Connector

Connector series: M12

Gender: Female

Locking type: Fix screw Part No.: IPM12-CAP-F-CA



General Information

Color:	Black	Loop:	TPU
Nut/screw:	PA+GF	IP rating:	IP67 in locked condition



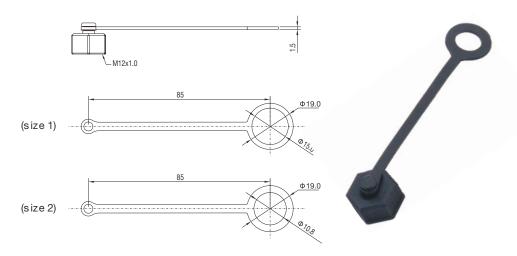


M12 Cable Mounted Protection Cap for Male Panel-mount Connector

Connector series: M12

Gender: Male

Locking type: Fix screw Part No.: IPM12-CAP-M-PNL



General Information

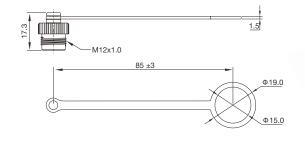
Material:	PA+GF
O-ring:	FKM
Color:	Black
Degree of protection:	IP67 in locked condition

M12 Cable Mounted Protection Cap for Female Panel-mount Connector

Connector series: M12

Gender: Female

Locking type: Fix screw Part No.: IPM12-CAP-F-PNL





General Information

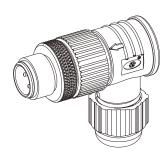
Color:	Black	Loop:	TPU
Nut/screw:	PA+GF	IP rating:	IP67 in locked condition

[•] Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²

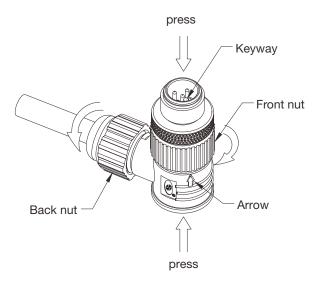




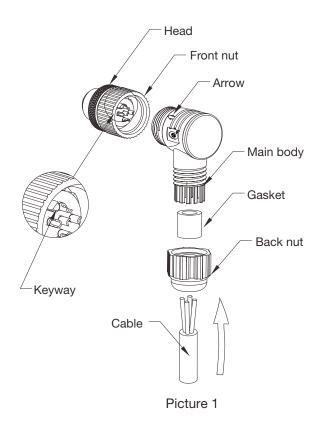
M12 Field Wireable Assembly with Solder Cup Instructions



- 1. Ensure the cable jacket is suitably prepared, wires are stripped and tinned.
- 2. Using a soldering iron, and suitable solder. Solder the wires to the contacts according to your wiring schematic.
- Once soldered, ensure the keyway on the front nut is correctly aligned to the main body. Gently press together to ensure alignment.



Picture 2

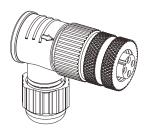


- 4. Pull the cable gently to straighten the internal wiring, and then fully tighten the front nut to the main body.
- 5. Slide both the gasket and back nut towards the main body and into place, ensure the gasket is installed correctly and then tighten the back nut into place so there is an adequate seal on the cable.

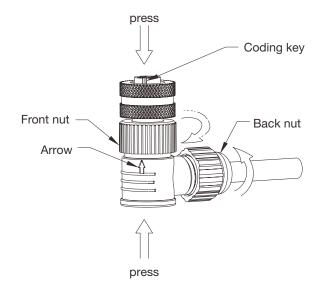




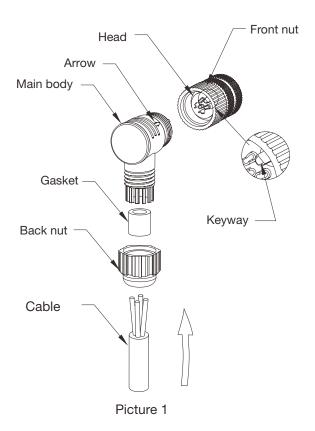
M12 Field Wireable Assembly with Solder Cup Instructions



- 1. Ensure the cable jacket is suitably prepared, wires are stripped and tinned.
- 2. Using a soldering iron, and suitable solder. Solder the wires to the contacts according to your wiring schematic.
- Once soldered, ensure the keyway on the front nut is correctly aligned to the main body. Gently press together to ensure alignment.
- 4. Pull the cable gently to straighten the internal wiring, and then fully tighten the front nut to the main body.
- 5. Slide both the gasket and back nut towards the main body and into place, ensure the gasket is installed correctly and then tighten the back nut into place so there is an adequate seal on the cable.



Picture 2



6. Push the gasket to the right position and lock the back nut.

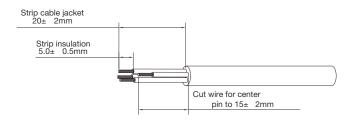




M12 Field Wireable Assembly with Screw Joint Instruction

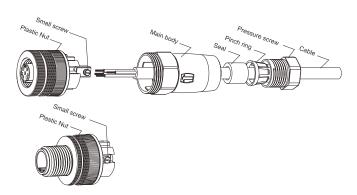
Step 1

Prepare the cable jacket

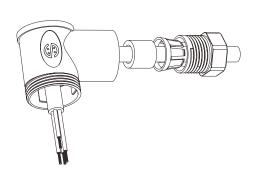


Step 2

Assemble all the components on cable as follows.



Right angle sketch

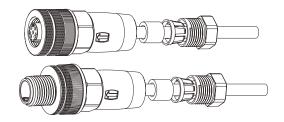


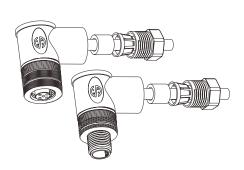
Step 3

Connect all wires to the insert according to wirelist, then tighten all small screws. The torque for the screws is 0.2Nm.

Step 4

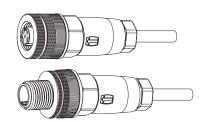
Assemble plastic nut to main body. Recommended torque: 1.0 Nm. (Note: The key inside the main body must be correctly aligned to the insert.

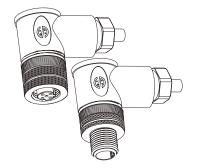




Step 5

Push the cable seal, pinch ring into the main body, then tighten the pressure screw into the body with recommended torque: 1.0 Nm.





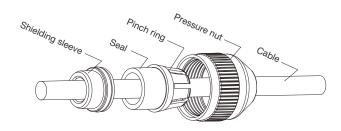




M12 Field Wireable Assembly with Screw Joint Instruction, Shielded

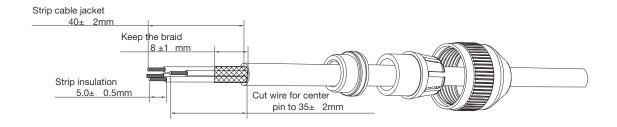
Step 1

Assemble all components on cable as following.



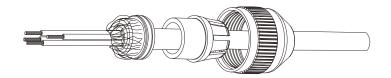
Step 2

Prepare the cable jacket. Strip the cable as following.



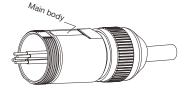
Step 3

Push the braid over the shielding sleeve



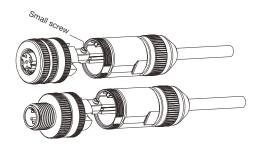
Step 4

Insert the cable in the main body and assemble the pressure nut tightly on the main body. Recommended torque: 1.0 Nm.



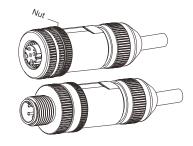
Step 5

Connect all wires to insert according to wirelist, then tighten all small screws. The torque for small screws is 0.2Nm.



Step 6

Insert the Female/male housing in the main body and assemble the nut to main body. Recommended torque: 1.0 Nm. (Note: The key inside the main body must be correctly aligned to the insert.)



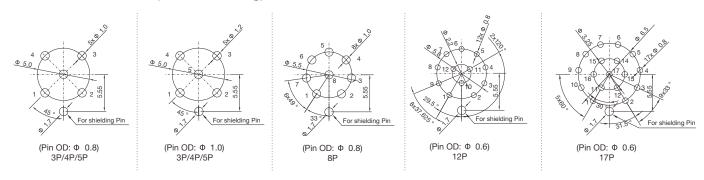




M12 PCB Layout & Panel Cut-out

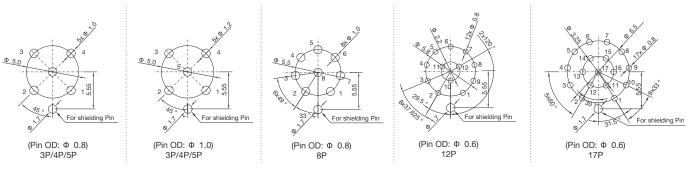
PCB Layout

M12 Male Connector (A,B & D coding)



Recommended PCB layout

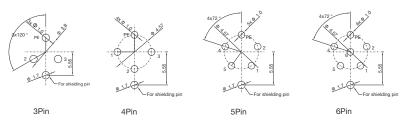
M12 Female Connector (A,B & D coding)



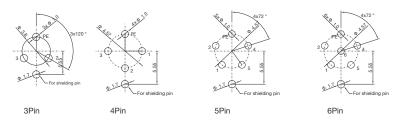
Recommended PCB layout

M12 C-coding Connector

Male Connector



Female Connector





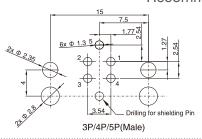


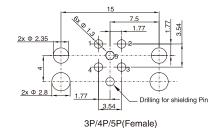
M12 PCB Layout & Panel Cut-out

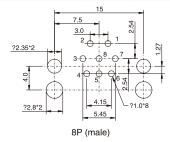
PCB Layout

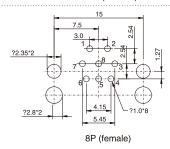
M12 Right Angled Connector

Recommended PCB layout

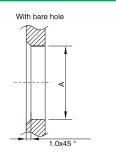


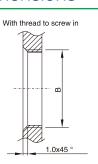






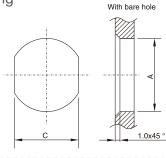
Panel Cut-out Dimensions

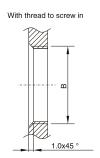




	А	В
M12	12 ^{+0.1} ₋₀	M12x1.0
PG9	15.3 ^{+0.1} ₋₀	PG9

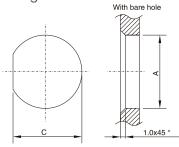
H-cutting

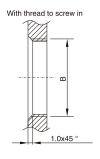




	А	В	С
PG9	15.3 ^{+0.1} ₋₀	PG9	13.5 ^{+0.1} ₋₀

D-cutting





	А	В	С
PG9	15.3 ^{+0.1} ₋₀	PG9	14.3 ^{+0.1} ₋₀
M12	12 ^{+0.1} -0	M12x1.0	11.3 ^{+0.1}





Part Numbers

XX = Cable length XXX = Cable length & type

All M12 Series P/Ns	Catalog Page
IPM12-A3-MWL-XX	8
IPM12-A3-MWL-XXU	8
IPM12-A4-MWL-XX	8
IPM12-A4-MWL-XXU	8
IPM12-A5-MWL-XX	8
IPM12-A5-MWL-XXU	8
IPM12-A8-MWL-XX	8
IPM12-A8-MWL-XXU	8
IPM12-A12-MWL-XX	8
IPM12-A12-MWL-XXU	8
IPM12-A17-MWL-XX	8
IPM12-A17-MWL-XXU	8
IPM12-B3-MWL-XX	8
IPM12-B3-MWL-XXU	8
IPM12-B4-MWL-XX	8
IPM12-B4-MWL-XXU	8
IPM12-B5-MWL-XX	8
IPM12-B5-MWL-XXU	8
IPM12-C3-MWL-XX	8
IPM12-C3-MWL-XXU	8
IPM12-C4-MWL-XX	8
IPM12-C4-MWL-XXU	8
IPM12-C5-MWL-XX	8
IPM12-C5-MWL-XXU	8
IPM12-C6-MWL-XX	8
IPM12-C6-MWL-XXU	8
IPM12-D4-MWL-XX	8
IPM12-D4-MWL-XXU	8
IPM12-A3-FWL-XX	9

All M12 Series P/Ns	Catalog Page
IPM12-A3-FWL-XXU	9
IPM12-A4-FWL-XX	9
IPM12-A4-FWL-XXU	9
IPM12-A5-FWL-XX	9
IPM12-A5-FWL-XXU	9
IPM12-A8-FWL-XX	9
IPM12-A8-FWL-XXU	9
IPM12-A12-FWL-XX	9
IPM12-A12-FWL-XXU	9
IPM12-A17-FWL-XX	9
IPM12-A17-FWL-XXU	9
IPM12-B3-FWL-XX	9
IPM12-B3-FWL-XXU	9
IPM12-B4-FWL-XX	9
IPM12-B4-FWL-XXU	9
IPM12-B5-FWL-XX	9
IPM12-B5-FWL-XXU	9
IPM12-C3-FWL-XX	9
IPM12-C3-FWL-XXU	9
IPM12-C4-FWL-XX	9
IPM12-C4-FWL-XXU	9
IPM12-C5-FWL-XX	9
IPM12-C5-FWL-XXU	9
IPM12-C6-FWL-XX	9
IPM12-C6-FWL-XXU	9
IPM12-D4-FWL-XX	9
IPM12-D4-FWL-XXU	9
IPM12-A3-MWL-XXS	10
IPM12-A3-MWL-XXUS	10

All M12 Series P/Ns	Catalog Page
IPM12-A4-MWL-XXS	10
IPM12-A4-MWL-XXUS	10
IPM12-A5-MWL-XXS	10
IPM12-A5-MWL-XXUS	10
IPM12-A8-MWL-XXS	10
IPM12-A8-MWL-XXUS	10
IPM12-A12-MWL-XXS	10
IPM12-A12-MWL-XXUS	10
IPM12-A17-MWL-XXS	10
IPM12-A17-MWL-XXUS	10
IPM12-B3-MWL-XXS	10
IPM12-B3-MWL-XXUS	10
IPM12-B4-MWL-XXS	10
IPM12-B4-MWL-XXUS	10
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IPM12-B5-MWL-XXUS	10
IPM12-C3-MWL-XXS	10
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IPM12-C4-MWL-XXS	10
IPM12-C4-MWL-XXUS	10
IPM12-C5-MWL-XXS	10
IPM12-C5-MWL-XXUS	10
IPM12-C6-MWL-XXS	10
IPM12-C6-MWL-XXUS	10
IPM12-D4-MWL-XXS	10
IPM12-D4-MWL-XXUS	10
IPM12-A3-FWL-XXS	11
IPM12-A3-FWL-XXUS	11
IPM12-A4-FWL-XXS	11





IPM12-A4-FWL-XXUS	
	11
IPM12-A5-FWL-XXS	11
IPM12-A5-FWL-XXUS	11
IPM12-A8-FWL-XXS	11
IPM12-A8-FWL-XXUS	11
IPM12-A12-FWL-XXS	11
IPM12-A12-FWL-XXUS	11
IPM12-A17-FWL-XXS	11
IPM12-A17-FWL-XXUS	11
IPM12-B3-FWL-XXS	11
IPM12-B3-FWL-XXUS	11
IPM12-B4-FWL-XXS	11
IPM12-B4-FWL-XXUS	11
IPM12-B5-FWL-XXS	11
IPM12-B5-FWL-XXUS	11
IPM12-C3-FWL-XXS	11
IPM12-C3-FWL-XXUS	11
IPM12-C4-FWL-XXS	11
IPM12-C4-FWL-XXUS	11
IPM12-C5-FWL-XXS	11
IPM12-C5-FWL-XXUS	11
IPM12-C6-FWL-XXS	11
IPM12-C6-FWL-XXUS	11
IPM12-D4-FWL-XXS	11
IPM12-D4-FWL-XXUS	11
IPM12-A3I-MWL-XX	12
IPM12-A3I-MWL-XXU	12
IPM12-A4I-MWL-XX	12
IPM12-A4I-MWL-XXU	12
IPM12-A5I-MWL-XX	12
IPM12-A5I-MWL-XXU	12
IPM12-A8I-MWL-XX	12

All M12 Series P/Ns	Catalog Page
IPM12-A8I-MWL-XXU	12
IPM12-B3I-MWL-XX	12
IPM12-B3I-MWL-XXU	12
IPM12-B4I-MWL-XX	12
IPM12-B4I-MWL-XXU	12
IPM12-B5I-MWL-XX	12
IPM12-B5I-MWL-XXU	12
IPM12-D4I-MWL-XX	12
IPM12-D4I-MWL-XXU	12
IPM12-A3I-FWL-XX	13
IPM12-A3I-FWL-XXU	13
IPM12-A4I-FWL-XX	13
IPM12-A4I-FWL-XXU	13
IPM12-A5I-FWL-XX	13
IPM12-A5I-FWL-XXU	13
IPM12-A8I-FWL-XX	13
IPM12-A8I-FWL-XXU	13
IPM12-B3I-FWL-XX	13
IPM12-B3I-FWL-XXU	13
IPM12-B4I-FWL-XX	13
IPM12-B4I-FWL-XXU	13
IPM12-B5I-FWL-XX	13
IPM12-B5I-FWL-XXU	13
IPM12-D4I-FWL-XX	13
IPM12-D4I-FWL-XXU	13
IPM12-A3-MRA-WL-XX	14
IPM12-A3-MRA-WL-XXU	14
IPM12-A4-MRA-WL-XX	14
IPM12-A4-MRA-WL-XXU	14
IPM12-A5-MRA-WL-XX	14
IPM12-A5-MRA-WL-XXU	14
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