SURE-SEAL

SURE-SEAL® IP67 M12 SERIES CATALOG

PEI-Genesis™

Table of Contents

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

*Nearest metric wire size
Use to Convert American Wire Gauge to Diameter and Circular Mil Area.

How to Order

M12 Series With Molded Cable

1		2	3		4	5		6	7
IPM12	**-**	**A3**		**-**	**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	**-**	**A3**	**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
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

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		2	3	4		5	6
IPM12	**-**	**A3**	**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**

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
SC = Solder Cup

THREAD SIZE (If applicable)
See Pages 36-49 for reference
-3 PG9

*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	**-**	**A3**	**-**	**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		3	4		5		6
IPM12	**-**	**X8**	**-**	**F**	**WL**	**-**	**6A**	**-**	**2.0**
SERIES		CODING & # CONTACTS		GENDER	ANGLE		CABLE TYPE		ASSEMBLY LENGTH

SERIES
IPM12 = M12

CODING & # CONTACTS
X = 8 Contacts, X Coded

GENDER
F = Female
M = Male

ANGLE
WL = Straight
RA-WL = Right Angle

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

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

M12 Series X Coded End to End Cable Assembly

1		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 6A
7 = Cat 7

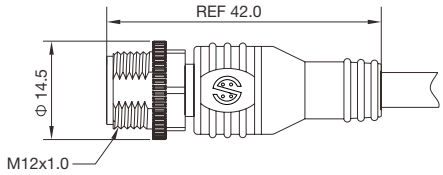
ASSEMBLY LENGTH*
1.5 = 1.5 meters
2.0 = 2 meters
3.0 = 3 meters
5.0 = 5 meters
10 = 10 meters

*Additional lengths are available

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) -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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

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

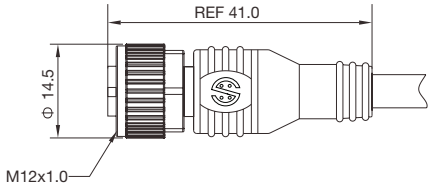
Notes

- 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) -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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

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

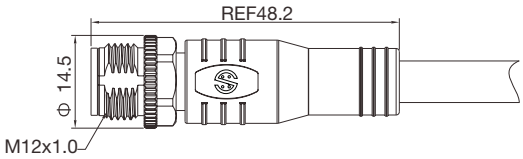
Notes

- 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) -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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Shielding:	Available
IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

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

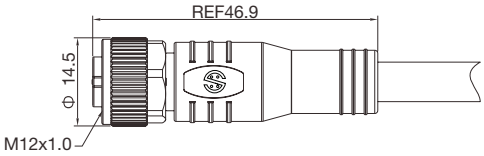
Notes

- 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) -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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Shielding:	Available
IP rating:	IP67 locked condition

Electrical Data & Mechanical Data

Contacts	Available Coding				Rated Current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins			 (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					1.5A	30V	30V	26AWG	0.14	PUR / PVC	
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	

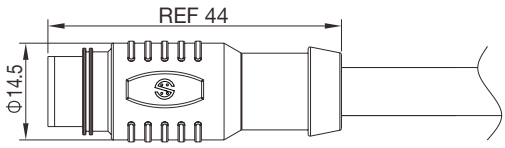
Notes

- 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

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

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

Contacts	Available Coding			Rated Current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
	A	B	D		A/C	D/C	AWG	mm²			
03 pins				4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	Customized cable ending and length
04 pins				4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	
05 pins				4A	60V	60V	22AWG	0.34	PUR / PVC	PVC	
08 pins				2A	30V	30V	24AWG	0.25	PUR / PVC	PVC	

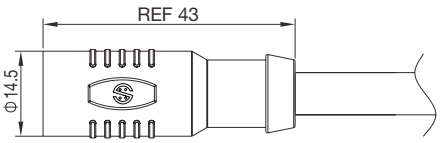
Notes

- 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

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

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

Contacts	Available Coding			Rated Current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
	A	B	D		A/C	D/C	AWG	mm²			
03 pins				4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	Customized cable ending and length
04 pins				4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	
05 pins				4A	60V	60V	22AWG	0.34	PUR / PVC	PVC	
08 pins				2A	30V	30V	24AWG	0.25	PUR / PVC	PVC	

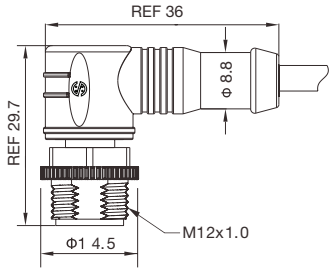
Notes

- 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

** 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) -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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

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

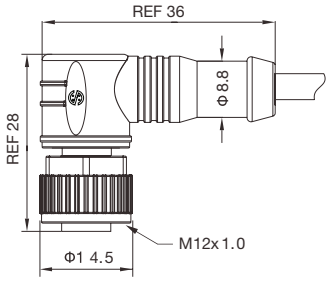
Notes

- 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

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) -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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

Contacts	Available Coding				Rated Current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins			 (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					1.5A	30V	30V	26AWG	0.14	PUR / PVC	
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	

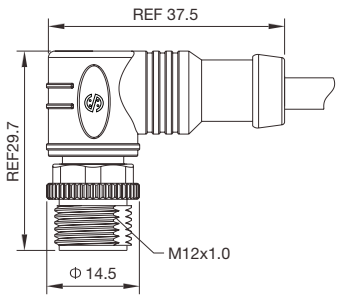
Notes

- 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) -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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Shielding:	Available
IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

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

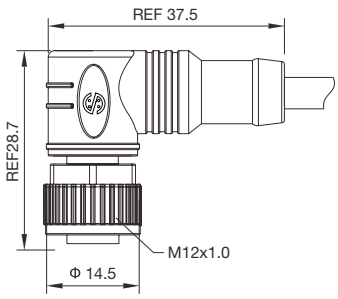
Notes

- 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) -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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Shielding:	Available
IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

Contacts	Available Coding				Rated Current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins			 (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					1.5A	30V	30V	26AWG	0.14	PUR / PVC	
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	

Notes

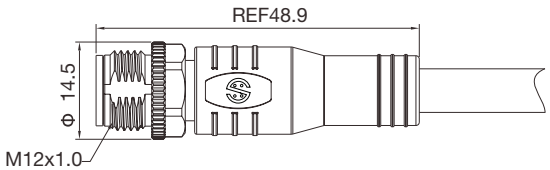
- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 5 for part number breakdown.

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

*** refers to cable type and termination



General Information

Standard:	IEC 61076-2-109
Ambient temperature:	-10°C ~ +60°C (fixed installation) -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:	≥ 100MΩ
Contact resistance:	≤ 10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Transmission characteristics:	CAT 6A/CAT 7

Electrical Data & Mechanical Data

Contacts	X-Coding	Rated Current	Rated Voltage		Wire gauge / size		Cable spec	Cable ending & length
			A/C	D/C	AWG	mm²		
08 pins		0.5A	50V	60V	27-24	0.14-0.25	CAT 6A/CAT 7	Customized cable ending and length

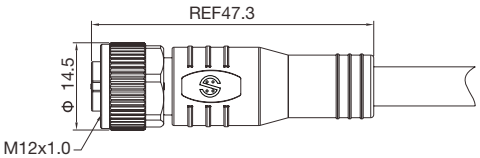
Notes

- 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 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
Ambient temperature:	-10°C ~ +60°C (fixed installation) -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

Seal / O-ring:	FKM
Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Transmission characteristics:	CAT 6A /CAT 7

Electrical Data & Mechanical Data

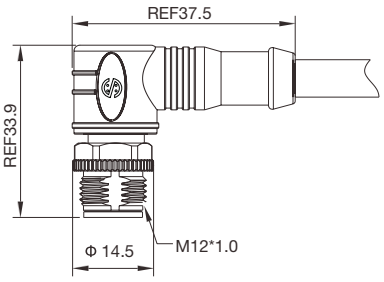
Contacts	X-Coding	Rated Current	Rated Voltage		Wire gauge / size		Cable spec	Cable ending & length
			A/C	D/C	AWG	mm²		
08 pins		0.5A	50V	60V	27-24	0.14-0.25	CAT 6A /CAT 7	Customized cable ending and length

Notes

- 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
*** refers to cable type and termination



General Information

Standard:	IEC 61076-2-109
Ambient temperature:	-10°C ~ +60°C (fixed installation) -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:	≥ 100MΩ
Contact resistance:	≤ 10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Transmission characteristics:	CAT 6A/CAT 7

Electrical Data & Mechanical Data

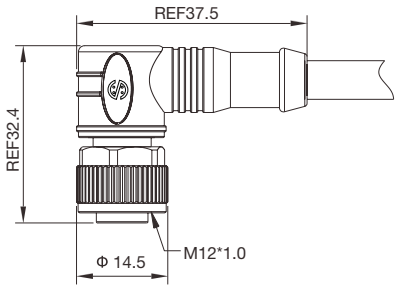
Contacts	X-Coding	Rated Current	Rated Voltage		Wire gauge / size		Cable spec	Cable ending & length
			A/C	D/C	AWG	mm²		
08 pins		0.5A	50V	60V	27-24	0.14-0.25	CAT 6A/CAT 7	Customized cable ending and length

Notes

- 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 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
*** refers to cable type and termination



General Information

Standard:	IEC 61076-2-109
Ambient temperature:	-10°C ~ +60°C (fixed installation) -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

Seal / O-ring:	FKM
Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Transmission characteristics:	CAT 6A /CAT 7

Electrical Data & Mechanical Data

Contacts	X-Coding	Rated Current	Rated Voltage		Wire gauge / size		Cable spec	Cable ending & length
			A/C	D/C	AWG	mm²		
08 pins		0.5A	50V	60V	27-24	0.14-0.25	CAT 6A /CAT 7	Customized cable ending and length

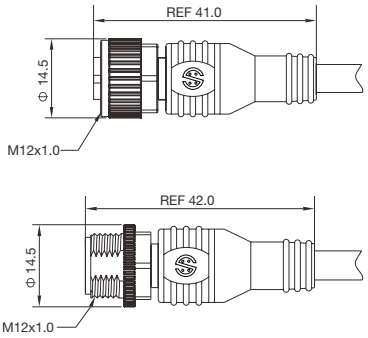
Notes

- 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 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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

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

Notes

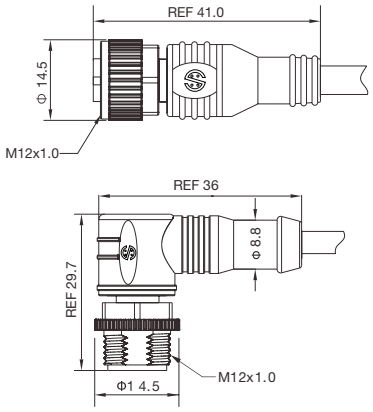
- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 6 for part number breakdown.
- Please refer to Page 7 for X-coded part number breakdown.

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) -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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

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

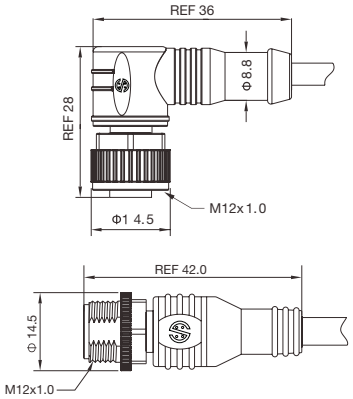
Notes

- 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) -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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

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

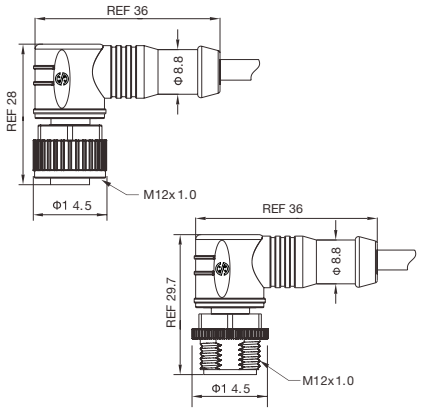
Notes

- 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
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:	TPUs

Connector nut/screw:	Zinc alloy with nickel plated
Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

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

Notes

- 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.

SURE-SEAL

PEI-Genesis™
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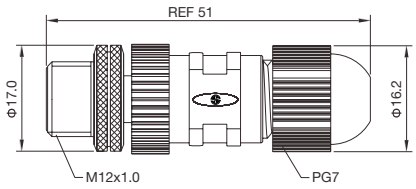
M12 Male Field Wireable Assembly, Straight, Solder

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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Shielding:	Unavailable
Suitable cable dia:	4-5.5mm
IP rating:	IP67 locked condition

Electrical Data & Mechanical Data

Contacts	Available Coding				Contacts Termination	Rated Current	Voltage		Wire gauge / size	
	A	B	C	D			A/C	D/C	AWG	mm²
03 pins			 (2+PE)		Solder Version	4A	250V	250V	22AWG	0.34
04 pins			 (3+PE)		Solder Version	4A	250V	250V	22AWG	0.34
05 pins			 (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

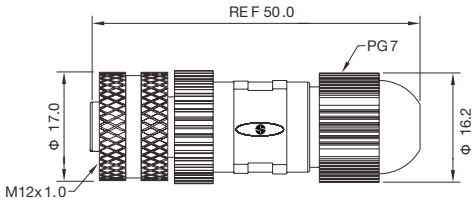
Notes

- 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: 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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Shielding:	Unavailable
Suitable cable dia:	4-5.5mm
IP rating:	IP67 locked condition

Electrical Data & Mechanical Data

Contacts	Available Coding				Rated Current	Voltage		Wire gauge / size	
	A	B	C	D		A/C	D/C	AWG	mm²
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34
05 pins			 (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					2A	30V	30V	24AWG	0.25
12 pins					1.5A	30V	30V	26AWG	0.14

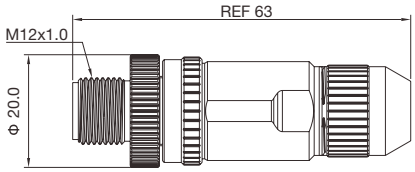
Notes

- 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

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
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	Available Coding			Contacts Termination	Rated Current	Voltage		Wire gauge / size	
	A	B	D			A/C	D/C	AWG	mm²
03 pins				Screw Joint	4A	250V	250V	22AWG	0.34
04 pins				Screw Joint	4A	250V	250V	22AWG	0.34
05 pins				Screw Joint	4A	60V	60V	22AWG	0.34
08 pins				Screw Joint	2A	30V	30V	24AWG	0.25

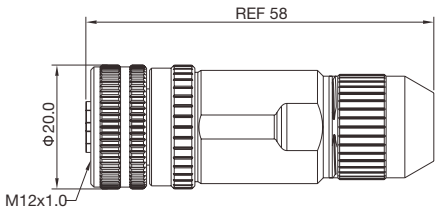
Notes

- 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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
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	Available Coding			Contacts Termination	Rated Current	Voltage		Wire gauge / size	
	A	B	D			A/C	D/C	AWG	mm²
03 pins				Screw Joint	4A	250V	250V	22AWG	0.34
04 pins				Screw Joint	4A	250V	250V	22AWG	0.34
05 pins				Screw Joint	4A	60V	60V	22AWG	0.34
08 pins				Screw Joint	2A	30V	30V	24AWG	0.25

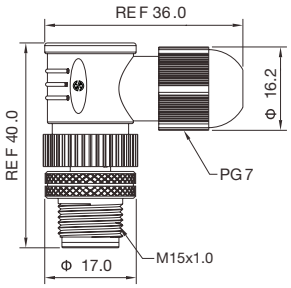
Notes

- 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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
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 Coding				Contacts Termination	Rated Current	Voltage		Wire gauge / size	
	A	B	C	D			A/C	D/C	AWG	mm²
03 pins			 (2+PE)		Solder Version	4A	250V	250V	22AWG	0.34
04 pins			 (3+PE)		Solder Version	4A	250V	250V	22AWG	0.34
05 pins			 (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

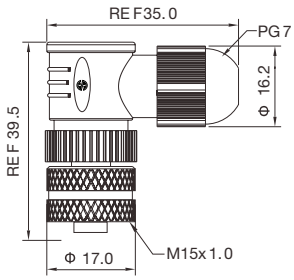
Notes

- 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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
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 Coding				Contacts Termination	Rated Current	Voltage		Wire gauge / size	
	A	B	C	D			A/C	D/C	AWG	mm²
03 pins			 (2+PE)		Solder Version	4A	250V	250V	22AWG	0.34
04 pins			 (3+PE)		Solder Version	4A	250V	250V	22AWG	0.34
05 pins			 (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

Notes

- 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.

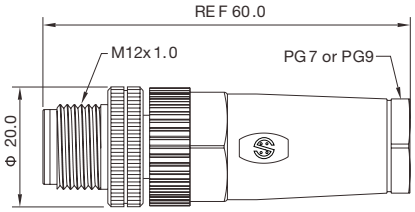
SURE-SEAL

PEI-Genesis™
www.peigenesis.com

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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
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	Available Coding			Contacts Termination	Rated Current	Voltage		Wire gauge / size	
	A	B	D			A/C	D/C	AWG	mm²
03 pins				Screw Joint	4A	250V	250V	22AWG	0.34
04 pins				Screw Joint	4A	250V	250V	22AWG	0.34
05 pins				Screw Joint	4A	60V	60V	22AWG	0.34
08 pins				Screw Joint	2A	30V	30V	24AWG	0.25

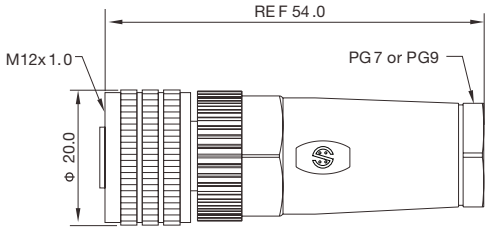
Notes

- 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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
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	Available Coding			Contacts Termination	Rated Current	Voltage		Wire gauge / size	
	A	B	D			A/C	D/C	AWG	mm²
03 pins				Screw Joint	4A	250V	250V	22AWG	0.34
04 pins				Screw Joint	4A	250V	250V	22AWG	0.34
05 pins				Screw Joint	4A	60V	60V	22AWG	0.34
08 pins				Screw Joint	2A	30V	30V	24AWG	0.25

Notes

- 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.

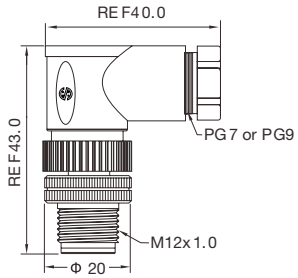
SURE-SEAL

PEI-Genesis™
www.peigenesis.com

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-#

** 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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
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	Available Coding			Contacts Termination	Rated Current	Voltage		Wire gauge / size	
	A	B	D			A/C	D/C	AWG	mm²
03 pins				Screw Joint	4A	250V	250V	22AWG	0.34
04 pins				Screw Joint	4A	250V	250V	22AWG	0.34
05 pins				Screw Joint	4A	60V	60V	22AWG	0.34
08 pins				Screw Joint	2A	30V	30V	24AWG	0.25

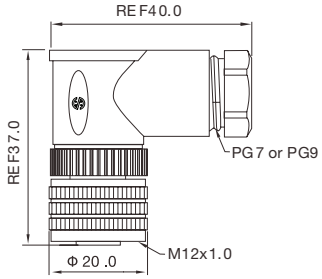
Notes

- 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, 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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
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	Available Coding			Contacts Termination	Rated Current	Voltage		Wire gauge / size	
	A	B	D			A/C	D/C	AWG	mm²
03 pins				Screw Joint	4A	250V	250V	22AWG	0.34
04 pins				Screw Joint	4A	250V	250V	22AWG	0.34
05 pins				Screw Joint	4A	60V	60V	22AWG	0.34
08 pins				Screw Joint	2A	30V	30V	24AWG	0.25

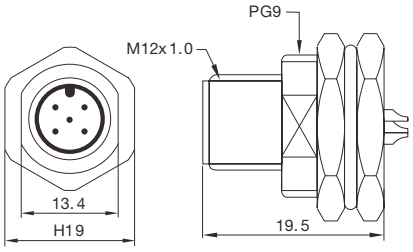
Notes

- 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

** 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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut-out:	Refer to page 60

Electrical Data & Mechanical Data

Contacts	Available Coding				Contacts Termination	Rated Current	Voltage		Wire gauge / size	
	A	B	C	D			A/C	D/C	AWG	mm²
03 pins			 (2+PE)		Solder Version	4A	250V	250V	22AWG	0.34
04 pins			 (3+PE)		Solder Version	4A	250V	250V	22AWG	0.34
05 pins			 (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
17 pins					Solder Version	1.5A	30V	30V	26AWG	0.14

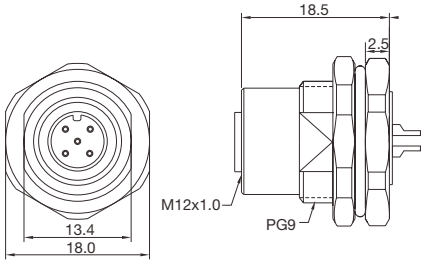
Notes

- 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, 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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 locked condition
Panel cut-out:	Refer to page 60

Electrical Data & Mechanical Data

Contacts	Available Coding				Contacts Termination	Rated Current	Voltage		Wire gauge / size	
	A	B	C	D			A/C	D/C	AWG	mm²
03 pins			 (2+PE)		Solder Version	4A	250V	250V	22AWG	0.34
04 pins			 (3+PE)		Solder Version	4A	250V	250V	22AWG	0.34
05 pins			 (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

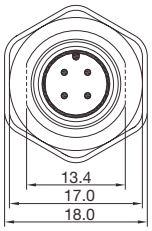
Notes

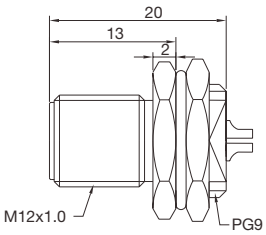
- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 6 for part number breakdown.

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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut-out:	Refer to page 60

Electrical Data & Mechanical Data

Contacts	Available Coding				Contacts Termination	Rated Current	Voltage		Wire gauge / size	
	A	B	C	D			A/C	D/C	AWG	mm²
03 pins			 (2+PE)		Solder Version	4A	250V	250V	22AWG	0.34
04 pins			 (3+PE)		Solder Version	4A	250V	250V	22AWG	0.34
05 pins			 (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

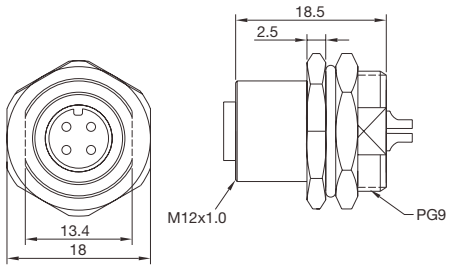
Notes

- 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:	Epoxy resin/FKM

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 locked condition
Panel cut-out:	Refer to page 60

Electrical Data & Mechanical Data

Contacts	Available Coding				Contacts Termination	Rated Current	Voltage		Wire gauge / size	
	A	B	C	D			A/C	D/C	AWG	mm²
03 pins			 (2+PE)		Solder Version	4A	250V	250V	22AWG	0.34
04 pins			 (3+PE)		Solder Version	4A	250V	250V	22AWG	0.34
05 pins			 (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
17 pins					Solder Version	1.5A	30V	30V	26AWG	0.14

Notes

- 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.

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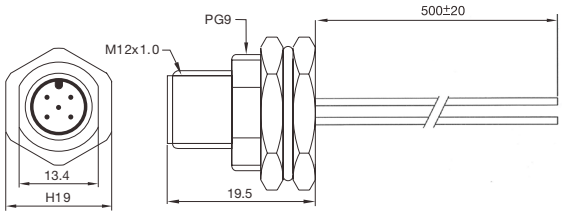
M12 Male Panel Mount, Flying Leads, Front Fastened

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

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Wire length:	500 mm
Panel cut-out:	Refer to page 60

Electrical Data & Mechanical Data

Contacts	Available Coding				Contacts Termination	Rated Current	Voltage		Wire gauge / size		Cable ending & length
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder Version	4A	250V	250V	22AWG	0.34	Supplied blunt cut
04 pins			 (3+PE)		Solder Version	4A	250V	250V	22AWG	0.34	
05 pins			 (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	
17 pins					Solder Version	1.5A	30V	30V	26AWG	0.14	

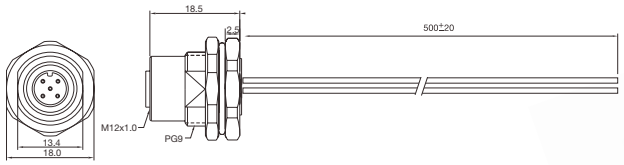
Notes

- 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:	≥ 100MΩ
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 Coding				Contacts Termination	Rated Current	Voltage		Wire gauge / size		Cable ending & length
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder Version	4A	250V	250V	22AWG	0.34	Supplied blunt cut
04 pins			 (3+PE)		Solder Version	4A	250V	250V	22AWG	0.34	
05 pins			 (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	

Notes

- 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.

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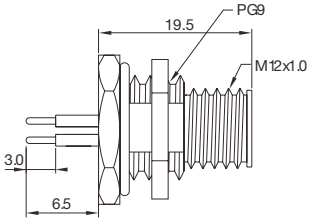
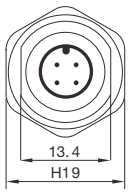
M12 Male Panel Mount, PCB Type, Front Fastened

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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
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 Coding				Contacts Termination	Rated Current	Voltage	
	A	B	C	D			A/C	D/C
03 pins			 (2+PE)		PCB Version	4A	250V	250V
04 pins			 (3+PE)		PCB Version	4A	250V	250V
05 pins			 (4+PE)		PCB Version	4A 2A(C-code)	60V	60V
06 pins			 (5+PE)		PCB Version	2A	30V	30V
08 pins					PCB Version	2A	30V	30V
12 pins					PCB Version	1.5A	30V	30V
17 pins					PCB Version	1.5A	30V	30V

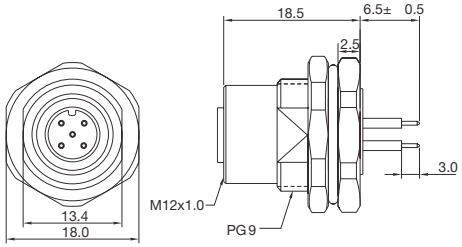
Notes

- 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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
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 Termination	Rated Current	Voltage	
	A	B	C	D			A/C	D/C
03 pins			 (2+PE)		PCB Version	4A	250V	250V
04 pins			 (3+PE)		PCB Version	4A	250V	250V
05 pins			 (4+PE)		PCB Version	4A 2A(C-code)	60V	60V
06 pins			 (5+PE)		PCB Version	2A	30V	30V
08 pins					PCB Version	2A	30V	30V
12 pins					PCB Version	1.5A	30V	30V
17 pins					PCB Version	1.5A	30V	30V

Notes

- 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.

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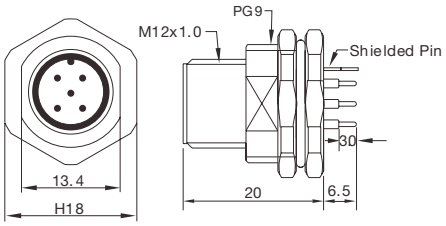
M12 Male Panel Mount, PCB Type, Front Fastened, Shielded

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

** 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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
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 Coding				Contacts Termination	Rated Current	Voltage	
	A	B	C	D			A/C	D/C
03 pins			 (2+PE)		PCB Version	4A	250V	250V
04 pins			 (3+PE)		PCB Version	4A	250V	250V
05 pins			 (4+PE)		PCB Version	4A 2A(C-code)	60V	60V
06 pins			 (5+PE)		PCB Version	2A	30V	30V
08 pins					PCB Version	2A	30V	30V
12 pins					PCB Version	1.5A	30V	30V
17 pins					PCB Version	1.5A	30V	30V

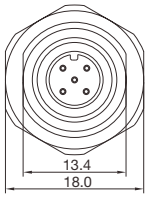
Notes

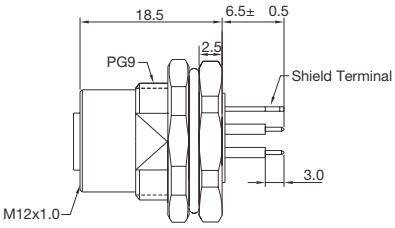
- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 6 for part number breakdown.

M12 Female Panel Mount, PCB Type, Front Fastened, 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:	-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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Shielding:	Available
IP rating:	IP67 locked condition
Panel cut-out:	Refer to page 60
PCB layout:	Refer to page 59-60

Contacts	Available Coding				Contacts Termination	Rated Current	Voltage	
	A	B	C	D			A/C	D/C
03 pins			 (2+PE)		PCB Version	4A	250V	250V
04 pins			 (3+PE)		PCB Version	4A	250V	250V
05 pins			 (4+PE)		PCB Version	4A 2A(C-code)	60V	60V
06 pins			 (5+PE)		PCB Version	2A	30V	30V
08 pins					PCB Version	2A	30V	30V
12 pins					PCB Version	1.5A	30V	30V
17 pins					PCB Version	1.5A	30V	30V

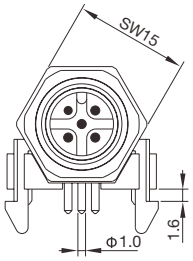
Notes

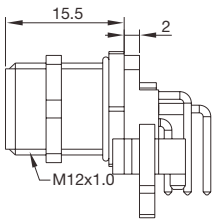
- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 6 for part number breakdown.

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)

** 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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
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 Termination	Rated Current	Voltage	
	A	B	D			A/C	D/C
04 pins				PCB Version	4A	250V	250V
05 pins				PCB Version	4A	60V	60V
08 pins				PCB Version	2A	30V	30V

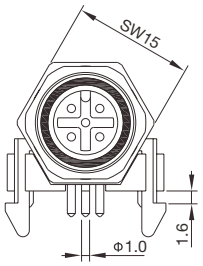
Notes

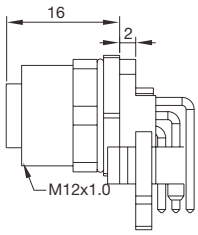
- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²
- Please refer to Page 6 for part number breakdown.

M12 Female Panel Mount, 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)

** 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:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
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	Available Coding			Contacts Termination	Rated Current	Voltage	
	A	B	D			A/C	D/C
04 pins				PCB Version	4A	250V	250V
05 pins				PCB Version	4A	60V	60V
08 pins				PCB Version	2A	30V	30V

Notes

- 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.

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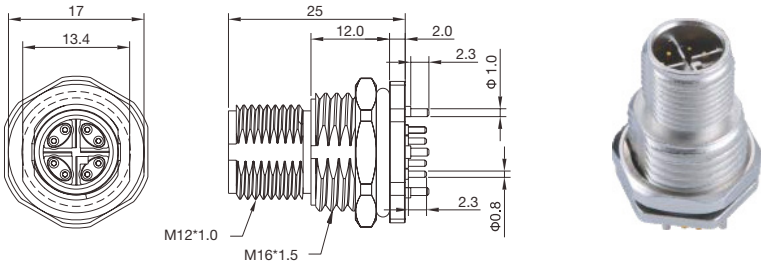
M12 Male Panel Mount, PCB Type, Front Fastened, X-coding, Shielded

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

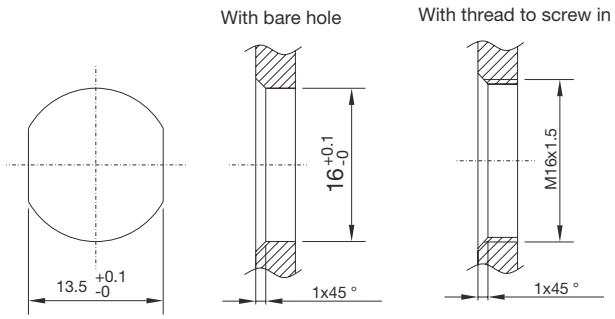
Standard:	IEC 61076-2-109
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass/Zinc with nickel plated
Seal/O-ring:	FKM/Epoxy resin

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition

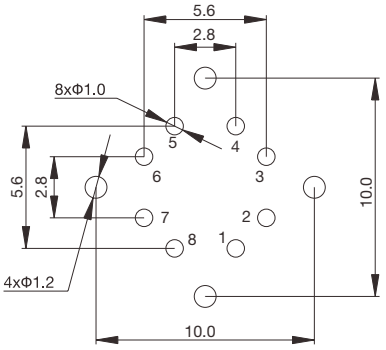
Electrical Data & Mechanical Data

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

Panel Cut-out Dimensions



PCB Layout



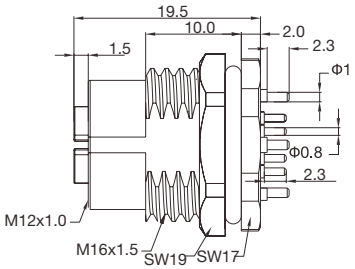
Notes

- 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

** refers to coding and number of contacts



General Information

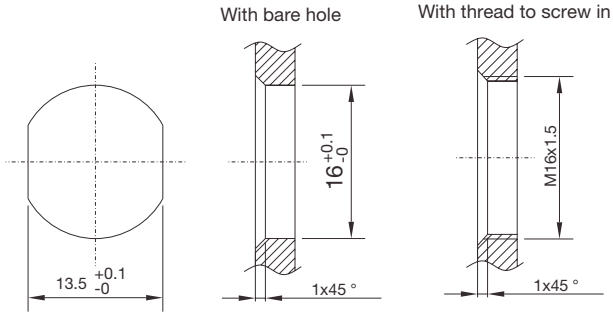
Standard:	IEC 61076-2-109
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass/Zinc with nickel plated
Seal/O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition

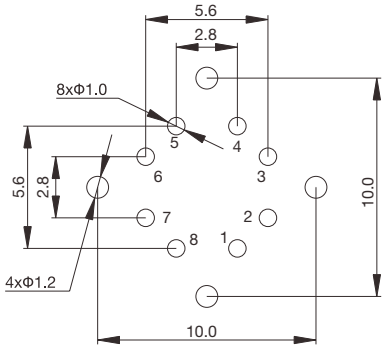
Electrical Data & Mechanical Data

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

Panel Cut-out Dimensions



PCB Layout



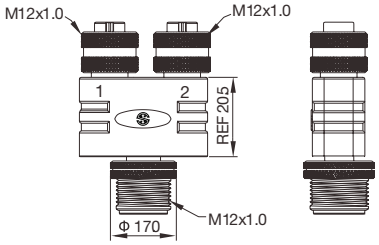
Notes

- 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 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	Seal/O-ring:	FKM
Connector insert:	TPU; PA	Insulation resistance:	≥ 100MΩ
Connector contacts:	Brass with gold plated	Contact resistance:	≤ 5mΩ
Connector nut/screw:	Brass with nickel plated	Shielding:	Unavailable
Overmold:	PVC	IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

Contacts	Available Coding			Rated Current	Voltage	
	A	B	D		A/C	D/C
03 pins	Male / Female	Male / Female		4A	250V	250V
04 pins	Male / Female	Male / Female	Male / Female	4A	250V	250V
05 pins	Male / Female	Male / Female		4A	60V	60V
08 pins	Male / Female			2A	30V	30V

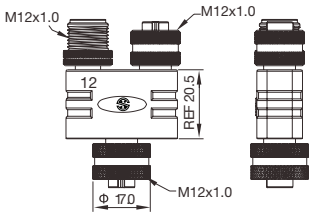
Notes

- 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

** 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:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

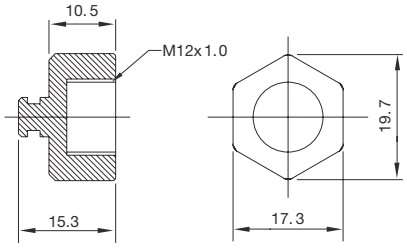
Contacts	Available Coding			Rated Current	Voltage	
	A	B	D		A/C	D/C
03 pins	Male / Female	Male / Female		4A	250V	250V
04 pins	Male / Female	Male / Female	Male / Female	4A	250V	250V
05 pins	Male / Female	Male / Female		4A	60V	60V
08 pins	Male / Female			2A	30V	30V

Notes

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

M12 Protection Cap for Male Connector

Connector series: M12
Gender: Male
Locking type: Fix screw
Part No.: IPM12-CAP-M

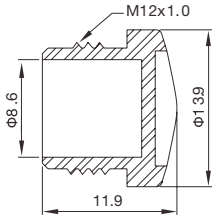


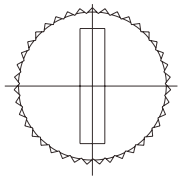
General Information

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

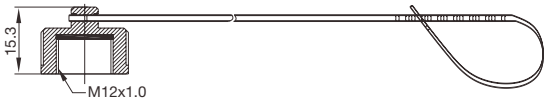
Material:	PA+GF
Color:	Black
Degree of Protection:	IP67 in locked condition

Notes

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

M12 Cable Mounted Protection Cap for Male Molded Connector

Connector series: M12
Gender: Male
Locking type: Fix screw
Part No.: IPM12-CAP-M-CA

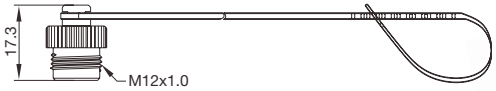


General Information

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

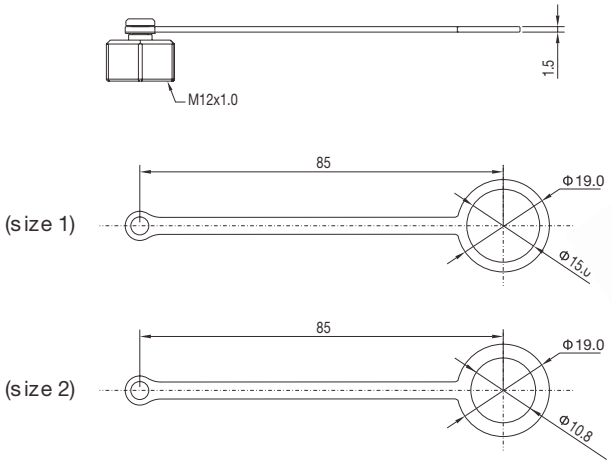
Color:	Black	Loop:	TPU
Nut/screw:	PA+GF	IP rating:	IP67 in locked condition

Notes

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

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

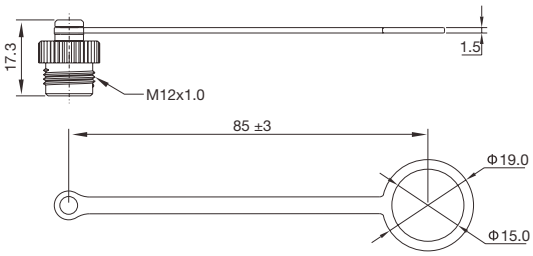


General Information

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



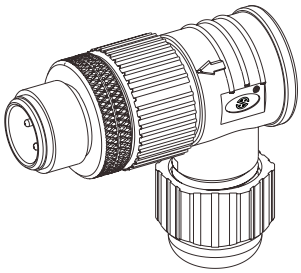
General Information

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

Notes

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

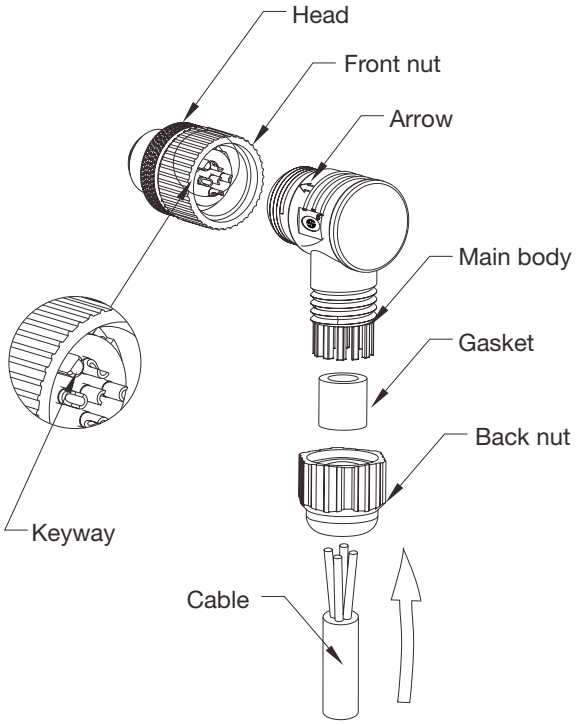
M12 Field Wireable Assembly with Solder Cup Instructions



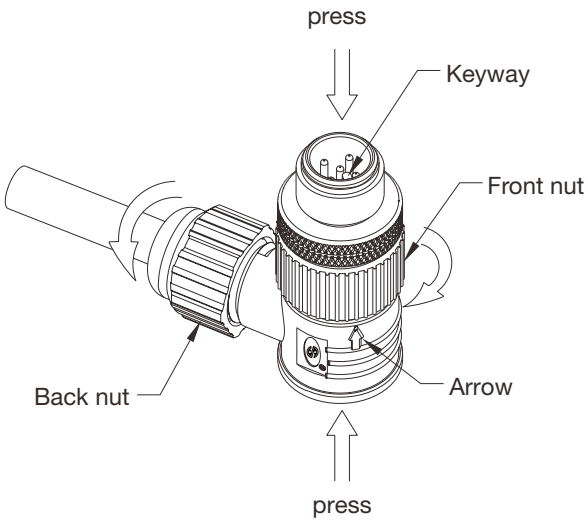
1. Ensure the cable jacket is suitably prepared, wires are stripped and tinned.

2. Using a soldering iron, and suitable solder. Solder the wires to the contacts according to your wiring schematic.

3. Once soldered, ensure the keyway on the front nut is correctly aligned to the main body. Gently press together to ensure alignment.



Picture 1



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.

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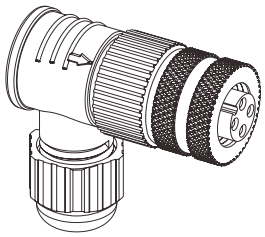
M12 Field Wireable Assembly with Solder Cup Instructions



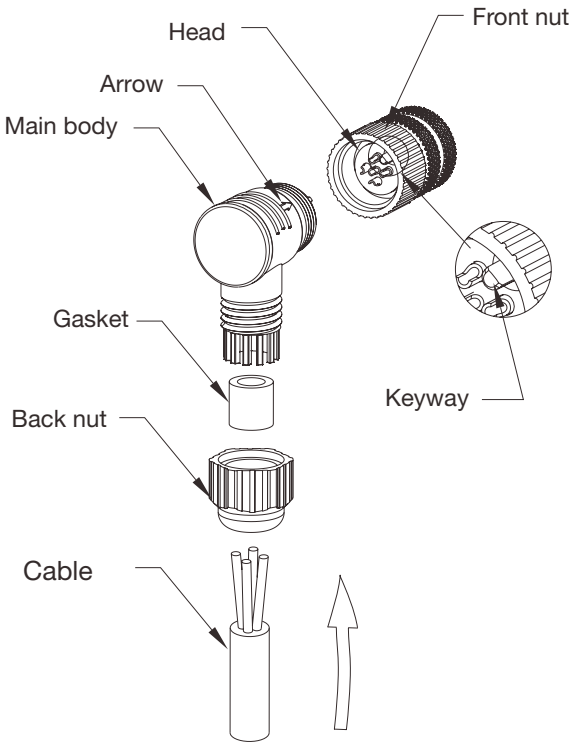
1. Ensure the cable jacket is suitably prepared, wires are stripped and tinned.

2. Using a soldering iron, and suitable solder. Solder the wires to the contacts according to your wiring schematic.

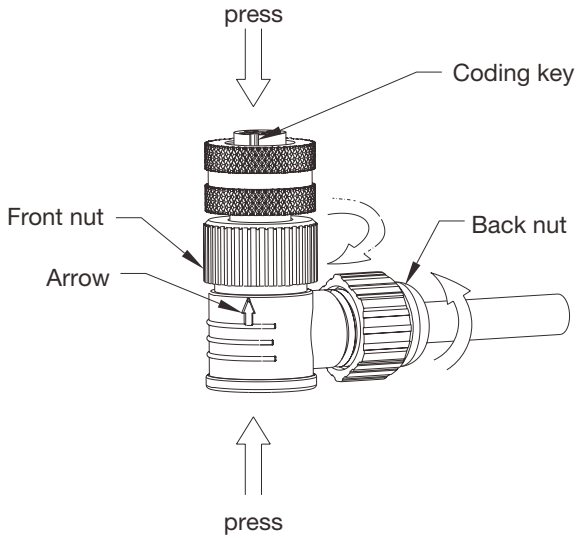
3. Once soldered, ensure the keyway on the front nut is correctly aligned to the main body. Gently press together to ensure alignment.

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 1



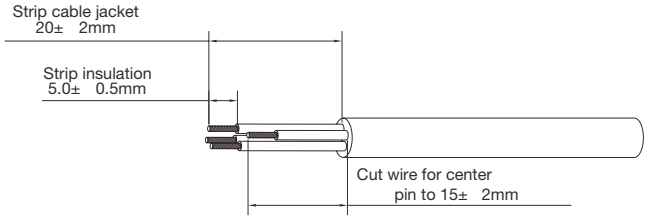
Picture 2

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

M12 Field Wireable Assembly with Screw Joint Instruction

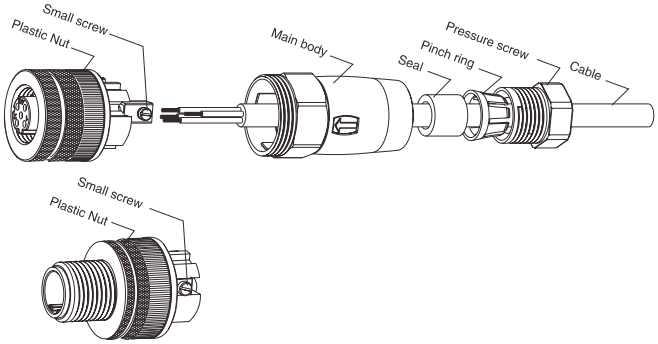
Step 1

Prepare the cable jacket

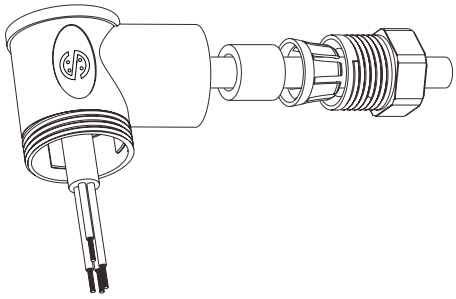


Step 2

Assemble all the components on cable as follows.



Right angle sketch

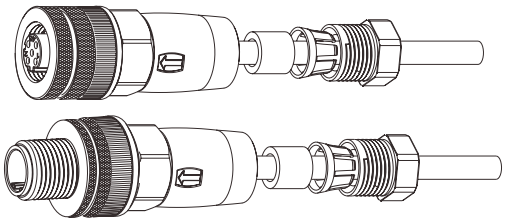


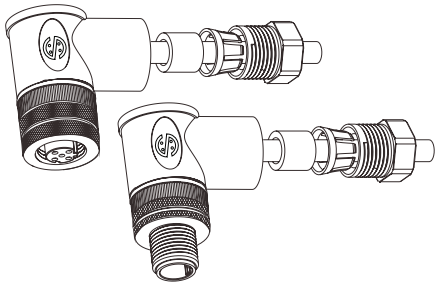
Step 3

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

Step 4

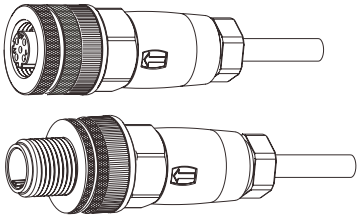
Assemble plastic nut to main body. Recommended torque: 1.0 Nm. (Note: The key inside the main body must be correctly aligned to the insert.

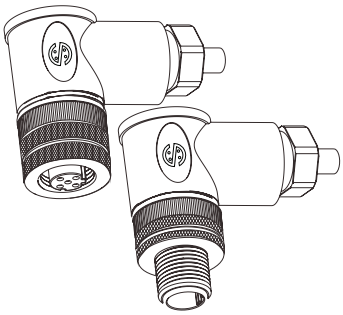




Step 5

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





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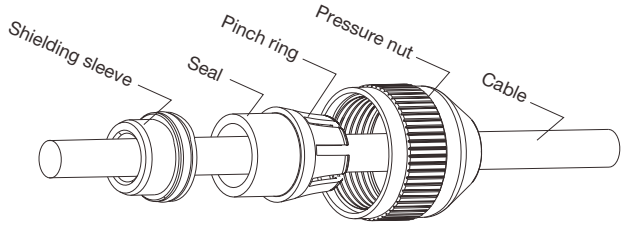
M12 Field Wireable Assembly with Screw Joint Instruction, Shielded

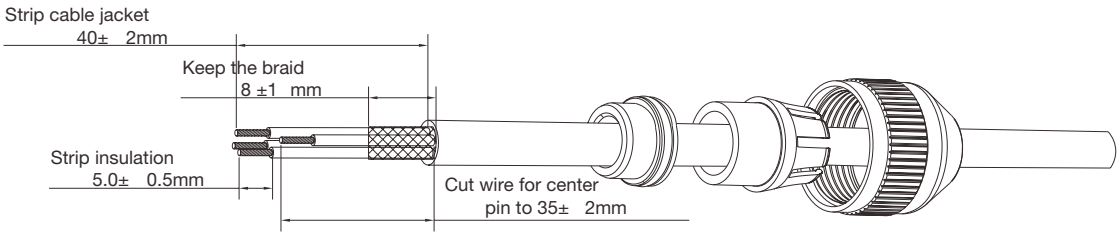
Step 1

Assemble all components on cable as following.



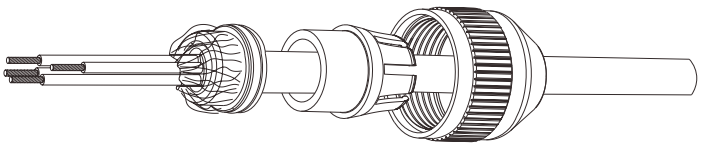
Step 2

Prepare the cable jacket. Strip the cable as following.



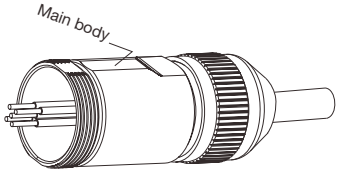
Step 3

Push the braid over the shielding sleeve



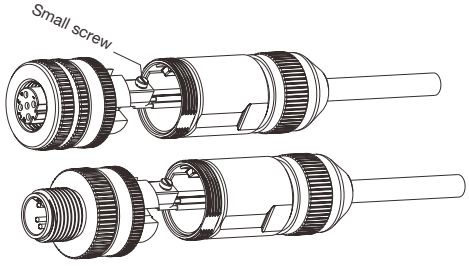
Step 4

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



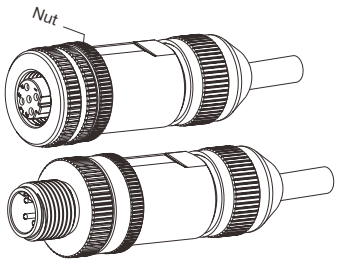
Step 5

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



Step 6

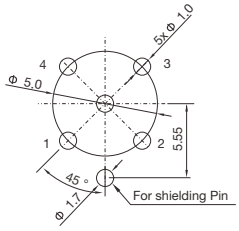
Insert the Female/male housing in the main body and assemble the nut to main body. Recommended torque: 1.0 Nm. (Note: The key inside the main body must be correctly aligned to the insert.)



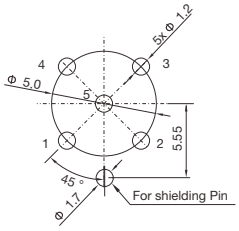
M12 PCB Layout & Panel Cut-out

PCB Layout

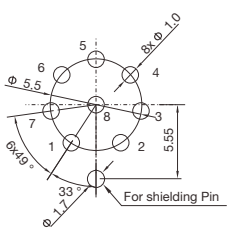
M12 Male Connector (A,B & D coding)



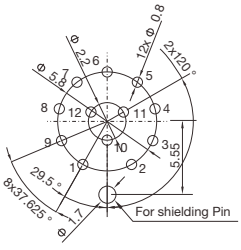
(Pin OD: Φ 0.8)
3P/4P/5P



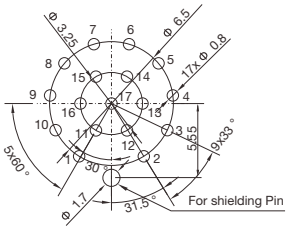
(Pin OD: Φ 1.0)
3P/4P/5P



(Pin OD: Φ 0.8)
8P



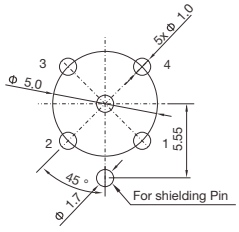
(Pin OD: Φ 0.6)
12P



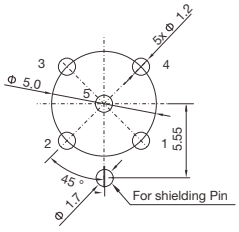
(Pin OD: Φ 0.6)
17P

Recommended PCB layout

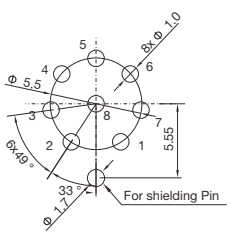
M12 Female Connector (A,B & D coding)



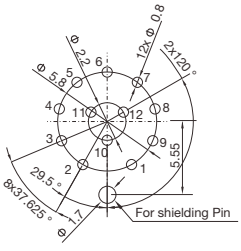
(Pin OD: Φ 0.8)
3P/4P/5P



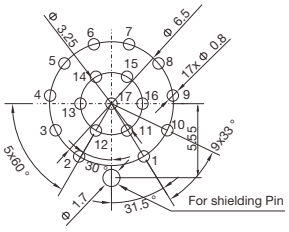
(Pin OD: Φ 1.0)
3P/4P/5P



(Pin OD: Φ 0.8)
8P



(Pin OD: Φ 0.6)
12P

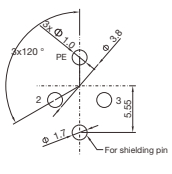


(Pin OD: Φ 0.6)
17P

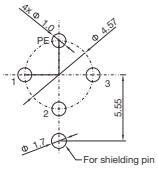
Recommended PCB layout

M12 C-coding Connector

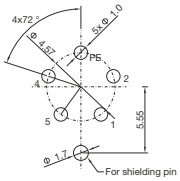
Male Connector



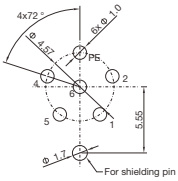
3Pin



4Pin

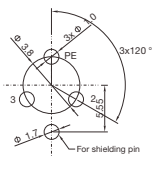


5Pin

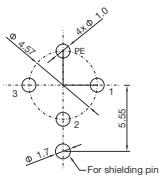


6Pin

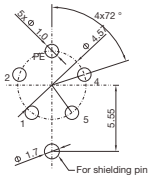
Female Connector



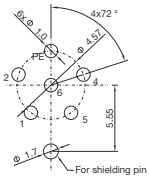
3Pin



4Pin



5Pin



6Pin

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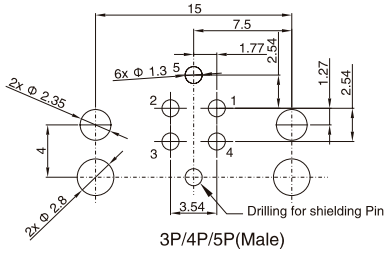
M12 PCB Layout & Panel Cut-out

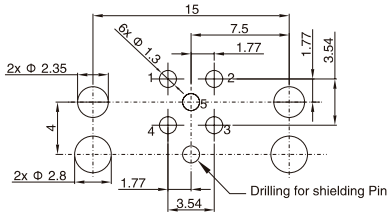
PCB Layout

M12 Right Angled Connector

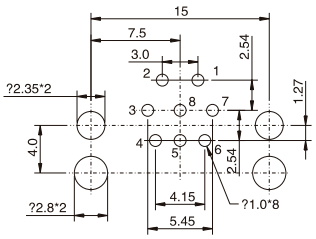
Recommended PCB layout



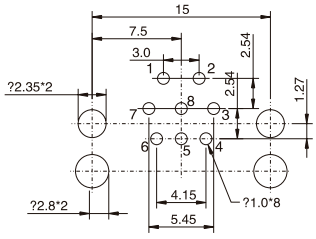
3P/4P/5P(Male)



3P/4P/5P(Female)

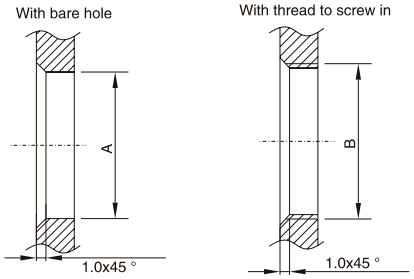


8P (male)



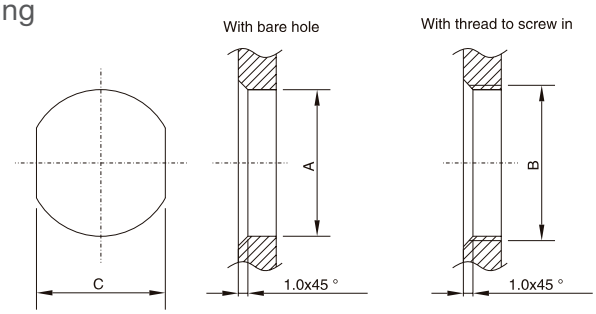
8P (female)

Panel Cut-out Dimensions



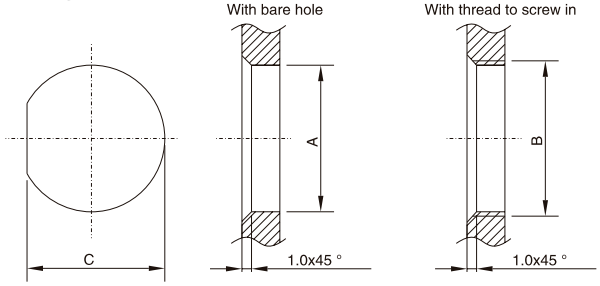
	A	B
M12	12 $^{+0.1}_{-0}$	M12x1.0
PG9	15.3 $^{+0.1}_{-0}$	PG9

H-cutting



	A	B	C
PG9	15.3 $^{+0.1}_{-0}$	PG9	13.5 $^{+0.1}_{-0}$

D-cutting



	A	B	C
PG9	15.3 $^{+0.1}_{-0}$	PG9	14.3 $^{+0.1}_{-0}$
M12	12 $^{+0.1}_{-0}$	M12x1.0	11.3 $^{+0.1}_{-0}$

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
IPM12-B5-MWL-XXS	10
IPM12-B5-MWL-XXUS	10
IPM12-C3-MWL-XXS	10
IPM12-C3-MWL-XXUS	10
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

All M12 Series P/Ns	Catalog Page
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
IPM12-A8-MRA-WL-XX	14

All M12 Series P/Ns	Catalog Page
IPM12-A8-MRA-WL-XXU	14
IPM12-A12-MRA-WL-XX	14
IPM12-A12-MRA-WL-XXU	14
IPM12-A17-MRA-WL-XX	14
IPM12-A17-MRA-WL-XXU	14
IPM12-B3-MRA-WL-XX	14
IPM12-B3-MRA-WL-XXU	14
IPM12-B4-MRA-WL-XX	14
IPM12-B4-MRA-WL-XXU	14
IPM12-B5-MRA-WL-XX	14
IPM12-B5-MRA-WL-XXU	14
IPM12-C3-MRA-WL-XX	14
IPM12-C3-MRA-WL-XXU	14
IPM12-C4-MRA-WL-XX	14
IPM12-C4-MRA-WL-XXU	14
IPM12-C5-MRA-WL-XX	14
IPM12-C5-MRA-WL-XXU	14
IPM12-C6-MRA-WL-XX	14
IPM12-C6-MRA-WL-XXU	14
IPM12-D4-MRA-WL-XX	14
IPM12-D4-MRA-WL-XXU	14
IPM12-A3-FRA-WL-XX	15
IPM12-A3-FRA-WL-XXU	15
IPM12-A4-FRA-WL-XX	15
IPM12-A4-FRA-WL-XXU	15
IPM12-A5-FRA-WL-XX	15
IPM12-A5-FRA-WL-XXU	15
IPM12-A8-FRA-WL-XX	15
IPM12-A8-FRA-WL-XXU	15
IPM12-A12-FRA-WL-XX	15
IPM12-A12-FRA-WL-XXU	15
IPM12-A17-FRA-WL-XX	15

All M12 Series P/Ns	Catalog Page
IPM12-A17-FRA-WL-XXU	15
IPM12-B3-FRA-WL-XX	15
IPM12-B3-FRA-WL-XXU	15
IPM12-B4-FRA-WL-XX	15
IPM12-B4-FRA-WL-XXU	15
IPM12-B5-FRA-WL-XX	15
IPM12-B5-FRA-WL-XXU	15
IPM12-C3-FRA-WL-XX	15
IPM12-C3-FRA-WL-XXU	15
IPM12-C4-FRA-WL-XX	15
IPM12-C4-FRA-WL-XXU	15
IPM12-C5-FRA-WL-XX	15
IPM12-C5-FRA-WL-XXU	15
IPM12-C6-FRA-WL-XX	15
IPM12-C6-FRA-WL-XXU	15
IPM12-D4-FRA-WL-XX	15
IPM12-D4-FRA-WL-XXU	15
IPM12-A3-MRA-WL-XXS	16
IPM12-A3-MRA-WL-XXUS	16
IPM12-A4-MRA-WL-XXS	16
IPM12-A4-MRA-WL-XXUS	16
IPM12-A5-MRA-WL-XXS	16
IPM12-A5-MRA-WL-XXUS	16
IPM12-A8-MRA-WL-XXS	16
IPM12-A8-MRA-WL-XXUS	16
IPM12-A12-MRA-WL-XXS	16
IPM12-A12-MRA-WL-XXUS	16
IPM12-A17-MRA-WL-XXS	16
IPM12-A17-MRA-WL-XXUS	16
IPM12-B3-MRA-WL-XXS	16
IPM12-B3-MRA-WL-XXUS	16
IPM12-B4-MRA-WL-XXS	16

All M12 Series P/Ns	Catalog Page
IPM12-B4-MRA-WL-XXUS	16
IPM12-B5-MRA-WL-XXS	16
IPM12-B5-MRA-WL-XXUS	16
IPM12-C3-MRA-WL-XXS	16
IPM12-C3-MRA-WL-XXUS	16
IPM12-C4-MRA-WL-XXS	16
IPM12-C4-MRA-WL-XXUS	16
IPM12-C5-MRA-WL-XXS	16
IPM12-C5-MRA-WL-XXUS	16
IPM12-C6-MRA-WL-XXS	16
IPM12-C6-MRA-WL-XXUS	16
IPM12-D4-MRA-WL-XXS	16
IPM12-D4-MRA-WL-XXUS	16
IPM12-A3-FRA-WL-XXS	17
IPM12-A3-FRA-WL-XXUS	17
IPM12-A4-FRA-WL-XXS	17
IPM12-A4-FRA-WL-XXUS	17
IPM12-A5-FRA-WL-XXS	17
IPM12-A5-FRA-WL-XXUS	17
IPM12-A8-FRA-WL-XXS	17
IPM12-A8-FRA-WL-XXUS	17
IPM12-A12-FRA-WL-XXS	17
IPM12-A12-FRA-WL-XXUS	17
IPM12-A17-FRA-WL-XXS	17
IPM12-A17-FRA-WL-XXUS	17
IPM12-B3-FRA-WL-XXS	17
IPM12-B3-FRA-WL-XXUS	17
IPM12-B4-FRA-WL-XXS	17
IPM12-B4-FRA-WL-XXUS	17
IPM12-B5-FRA-WL-XXS	17
IPM12-B5-FRA-WL-XXUS	17
IPM12-C3-FRA-WL-XXS	17

All M12 Series P/Ns	Catalog Page
IPM12-C3-FRA-WL-XXUS	17
IPM12-C4-FRA-WL-XXS	17
IPM12-C4-FRA-WL-XXUS	17
IPM12-C5-FRA-WL-XXS	17
IPM12-C5-FRA-WL-XXUS	17
IPM12-C6-FRA-WL-XXS	17
IPM12-C6-FRA-WL-XXUS	17
IPM12-D4-FRA-WL-XXS	17
IPM12-D4-FRA-WL-XXUS	17
IPM12-X8-MWL-6A-XX	18
IPM12-X8-MWL-7-XX	18
IPM12-X8-MWL-6AP-XX	18
IPM12-X8-MWL-7P-XX	18
IPM12-X8-FWL-6A-XX	19
IPM12-X8-FWL-7-XX	19
IPM12-X8-FWL-6AP-XX	19
IPM12-X8-FWL-7P-XX	19
IPM12-X8-MRA-WL-6A-XX	20
IPM12-X8-MRA-WL-7-XX	20
IPM12-X8-MRA-WL-6AP-XX	20
IPM12-X8-MRA-WL-7P-XX	20
IPM12-X8-FRA-WL-6A-XX	21
IPM12-X8-FRA-WL-7-XX	21
IPM12-X8-FRA-WL-6AP-XX	21
IPM12-X8-FRA-WL-7P-XX	21
IPM12-A3-FM-XXX	22
IPM12-A3-FM-XXX	22
IPM12-A4-FM-XXX	22
IPM12-A4-FM-XXX	22
IPM12-A5-FM-XXX	22
IPM12-A5-FM-XXX	22
IPM12-A8-FM-XXX	22

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All M12 Series P/Ns	Catalog Page
IPM12-A8-FM-XXX	22
IPM12-A12-FM-XXX	22
IPM12-A12-FM-XXX	22
IPM12-A17-FM-XXX	22
IPM12-A17-FM-XXX	22
IPM12-B3-FM-XXX	22
IPM12-B3-FM-XXX	22
IPM12-B4-FM-XXX	22
IPM12-B4-FM-XXX	22
IPM12-B5-FM-XXX	22
IPM12-B5-FM-XXX	22
IPM12-C3-FM-XXX	22
IPM12-C3-FM-XXX	22
IPM12-C4-FM-XXX	22
IPM12-C4-FM-XXX	22
IPM12-C5-FM-XXX	22
IPM12-C5-FM-XXX	22
IPM12-C6-FM-XXX	22
IPM12-C6-FM-XXX	22
IPM12-D4-FM-XXX	22
IPM12-D4-FM-XXX	22
IPM12-X8-FM-6A-XX	22
IPM12-X8-FM-7-XX	22
IPM12-A3-FMRA-XXX	23
IPM12-A3-FMRA-XXX	23
IPM12-A4-FMRA-XXX	23
IPM12-A4-FMRA-XXX	23
IPM12-A5-FMRA-XXX	23
IPM12-A5-FMRA-XXX	23
IPM12-A8-FMRA-XXX	23
IPM12-A8-FMRA-XXX	23
IPM12-A12-FMRA-XXX	23

All M12 Series P/Ns	Catalog Page
IPM12-A12-FMRA-XXX	23
IPM12-A17-FMRA-XXX	23
IPM12-A17-FMRA-XXX	23
IPM12-B3-FMRA-XXX	23
IPM12-B3-FMRA-XXX	23
IPM12-B4-FMRA-XXX	23
IPM12-B4-FMRA-XXX	23
IPM12-B5-FMRA-XXX	23
IPM12-B5-FMRA-XXX	23
IPM12-C3-FMRA-XXX	23
IPM12-C3-FMRA-XXX	23
IPM12-C4-FMRA-XXX	23
IPM12-C4-FMRA-XXX	23
IPM12-C5-FMRA-XXX	23
IPM12-C5-FMRA-XXX	23
IPM12-C6-FMRA-XXX	23
IPM12-C6-FMRA-XXX	23
IPM12-D4-FMRA-XXX	23
IPM12-D4-FMRA-XXX	23
IPM12-X8-FMRA-6A-XX	23
IPM12-X8-FMRA-7-XX	23
IPM12-A3-FRAM-XXX	24
IPM12-A3-FRAM-XXX	24
IPM12-A4-FRAM-XXX	24
IPM12-A4-FRAM-XXX	24
IPM12-A5-FRAM-XXX	24
IPM12-A5-FRAM-XXX	24
IPM12-A8-FRAM-XXX	24
IPM12-A8-FRAM-XXX	24
IPM12-A12-FRAM-XXX	24
IPM12-A12-FRAM-XXX	24
IPM12-A17-FRAM-XXX	24

All M12 Series P/Ns	Catalog Page
IPM12-A17-FRAM-XXX	24
IPM12-B3-FRAM-XXX	24
IPM12-B3-FRAM-XXX	24
IPM12-B4-FRAM-XXX	24
IPM12-B4-FRAM-XXX	24
IPM12-B5-FRAM-XXX	24
IPM12-B5-FRAM-XXX	24
IPM12-C3-FRAM-XXX	24
IPM12-C3-FRAM-XXX	24
IPM12-C4-FRAM-XXX	24
IPM12-C4-FRAM-XXX	24
IPM12-C5-FRAM-XXX	24
IPM12-C5-FRAM-XXX	24
IPM12-C6-FRAM-XXX	24
IPM12-C6-FRAM-XXX	24
IPM12-D4-FRAM-XXX	24
IPM12-D4-FRAM-XXX	24
IPM12-X8-FRAM-6A-XX	24
IPM12-X8-FRAM-7-XX	24
IPM12-A3-FRAMRA-XXX	25
IPM12-A3-FRAMRA-XXX	25
IPM12-A4-FRAMRA-XXX	25
IPM12-A4-FRAMRA-XXX	25
IPM12-A5-FRAMRA-XXX	25
IPM12-A5-FRAMRA-XXX	25
IPM12-A8-FRAMRA-XXX	25
IPM12-A8-FRAMRA-XXX	25
IPM12-A12-FRAMRA-XXX	25
IPM12-A12-FRAMRA-XXX	25
IPM12-A17-FRAMRA-XXX	25
IPM12-A17-FRAMRA-XXX	25
IPM12-B3-FRAMRA-XXX	25

All M12 Series P/Ns	Catalog Page
IPM12-B3-FRAMRA-XXX	25
IPM12-B4-FRAMRA-XXX	25
IPM12-B4-FRAMRA-XXX	25
IPM12-B5-FRAMRA-XXX	25
IPM12-B5-FRAMRA-XXX	25
IPM12-C3-FRAMRA-XXX	25
IPM12-C3-FRAMRA-XXX	25
IPM12-C4-FRAMRA-XXX	25
IPM12-C4-FRAMRA-XXX	25
IPM12-C5-FRAMRA-XXX	25
IPM12-C5-FRAMRA-XXX	25
IPM12-C6-FRAMRA-XXX	25
IPM12-C6-FRAMRA-XXX	25
IPM12-D4-FRAMRA-XXX	25
IPM12-D4-FRAMRA-XXX	25
IPM12-X8-FRAMRA-6A-XX	25
IPM12-X8-FRAMRA-7-XX	25
IPM12-A3M-SCFT	26
IPM12-A4M-SCFT	26
IPM12-A5M-SCFT	26
IPM12-A8M-SCFT	26
IPM12-A12M-SCFT	26
IPM12-B3M-SCFT	26
IPM12-B4M-SCFT	26
IPM12-B5M-SCFT	26
IPM12-C3M-SCFT	26
IPM12-C4M-SCFT	26
IPM12-C5M-SCFT	26
IPM12-C6M-SCFT	26
IPM12-D4M-SCFT	26
IPM12-A3F-SCFT	27
IPM12-A4F-SCFT	27

All M12 Series P/Ns	Catalog Page
IPM12-A5F-SCFT	27
IPM12-A8F-SCFT	27
IPM12-A12F-SCFT	27
IPM12-B3F-SCFT	27
IPM12-B4F-SCFT	27
IPM12-B5F-SCFT	27
IPM12-C3F-SCFT	27
IPM12-C4F-SCFT	27
IPM12-C5F-SCFT	27
IPM12-C6F-SCFT	27
IPM12-D4F-SCFT	27
IPM12-A3M-SRFT-S-A	28
IPM12-A4M-SRFT-S-A	28
IPM12-A5M-SRFT-S-A	28
IPM12-A8M-SRFT-S-A	28
IPM12-B3M-SRFT-S-A	28
IPM12-B4M-SRFT-S-A	28
IPM12-B5M-SRFT-S-A	28
IPM12-D4M-SRFT-S-A	28
IPM12-A3M-SRFT-S-B	28
IPM12-A4M-SRFT-S-B	28
IPM12-A5M-SRFT-S-B	28
IPM12-A8M-SRFT-S-B	28
IPM12-B3M-SRFT-S-B	28
IPM12-B4M-SRFT-S-B	28
IPM12-B5M-SRFT-S-B	28
IPM12-D4M-SRFT-S-B	28
IPM12-A3F-SRFT-S-A	29
IPM12-A4F-SRFT-S-A	29
IPM12-A5F-SRFT-S-A	29
IPM12-A8F-SRFT-S-A	29
IPM12-B3F-SRFT-S-A	29

All M12 Series P/Ns	Catalog Page
IPM12-B4F-SRFT-S-A	29
IPM12-B5F-SRFT-S-A	29
IPM12-D4F-SRFT-S-A	29
IPM12-A3F-SRFT-S-B	29
IPM12-A4F-SRFT-S-B	29
IPM12-A5F-SRFT-S-B	29
IPM12-A8F-SRFT-S-B	29
IPM12-B3F-SRFT-S-B	29
IPM12-B4F-SRFT-S-B	29
IPM12-B5F-SRFT-S-B	29
IPM12-D4F-SRFT-S-B	29
IPM12-A3MRA-SCFT	30
IPM12-A4MRA-SCFT	30
IPM12-A5MRA-SCFT	30
IPM12-A8MRA-SCFT	30
IPM12-B3MRA-SCFT	30
IPM12-B4MRA-SCFT	30
IPM12-B5MRA-SCFT	30
IPM12-D4MRA-SCFT	30
IPM12-A3FRA-SCFT	31
IPM12-A4FRA-SCFT	31
IPM12-A5FRA-SCFT	31
IPM12-A8FRA-SCFT	31
IPM12-B3FRA-SCFT	31
IPM12-B4FRA-SCFT	31
IPM12-B5FRA-SCFT	31
IPM12-D4FRA-SCFT	31
IPM12-A3M-SRFT-3	32
IPM12-A4M-SRFT-3	32
IPM12-A5M-SRFT-3	32
IPM12-A8M-SRFT-3	32
IPM12-B3M-SRFT-3	32

All M12 Series P/Ns	Catalog Page
IPM12-B4M-SRFT-3	32
IPM12-B5M-SRFT-3	32
IPM12-D4M-SRFT-3	32
IPM12-A3M-SRFT-4	32
IPM12-A4M-SRFT-4	32
IPM12-A5M-SRFT-4	32
IPM12-A8M-SRFT-4	32
IPM12-B3M-SRFT-4	32
IPM12-B4M-SRFT-4	32
IPM12-B5M-SRFT-4	32
IPM12-D4M-SRFT-4	32
IPM12-A3F-SRFT-3	33
IPM12-A4F-SRFT-3	33
IPM12-A5F-SRFT-3	33
IPM12-A8F-SRFT-3	33
IPM12-B3F-SRFT-3	33
IPM12-B4F-SRFT-3	33
IPM12-B5F-SRFT-3	33
IPM12-D4F-SRFT-3	33
IPM12-A3F-SRFT-4	33
IPM12-A4F-SRFT-4	33
IPM12-A5F-SRFT-4	33
IPM12-A8F-SRFT-4	33
IPM12-B3F-SRFT-4	33
IPM12-B4F-SRFT-4	33
IPM12-B5F-SRFT-4	33
IPM12-D4F-SRFT-4	33
IPM12-A3MRA-SRFT-3	34
IPM12-A4MRA-SRFT-3	34
IPM12-A5MRA-SRFT-3	34
IPM12-A8MRA-SRFT-3	34
IPM12-B3MRA-SRFT-3	34

All M12 Series P/Ns	Catalog Page
IPM12-B4MRA-SRFT-3	34
IPM12-B5MRA-SRFT-3	34
IPM12-D4MRA-SRFT-3	34
IPM12-A3MRA-SRFT-4	34
IPM12-A4MRA-SRFT-4	34
IPM12-A5MRA-SRFT-4	34
IPM12-A8MRA-SRFT-4	34
IPM12-B3MRA-SRFT-4	34
IPM12-B4MRA-SRFT-4	34
IPM12-B5MRA-SRFT-4	34
IPM12-D4MRA-SRFT-4	34
IPM12-A3FRA-SRFT-3	35
IPM12-A4FRA-SRFT-3	35
IPM12-A5FRA-SRFT-3	35
IPM12-A8FRA-SRFT-3	35
IPM12-B3FRA-SRFT-3	35
IPM12-B4FRA-SRFT-3	35
IPM12-B5FRA-SRFT-3	35
IPM12-D4FRA-SRFT-3	35
IPM12-A3FRA-SRFT-4	35
IPM12-A4FRA-SRFT-4	35
IPM12-A5FRA-SRFT-4	35
IPM12-A8FRA-SRFT-4	35
IPM12-B3FRA-SRFT-4	35
IPM12-B4FRA-SRFT-4	35
IPM12-B5FRA-SRFT-4	35
IPM12-D4FRA-SRFT-4	35
IPM12-A3M-SC-3	36
IPM12-A4M-SC-3	36
IPM12-A5M-SC-3	36
IPM12-A8M-SC-3	36
IPM12-A12M-SC-3	36

All M12 Series P/Ns	Catalog Page
IPM12-A17M-SC-3	36
IPM12-B3M-SC-3	36
IPM12-B4M-SC-3	36
IPM12-B5M-SC-3	36
IPM12-C3M-SC-3	36
IPM12-C4M-SC-3	36
IPM12-C5M-SC-3	36
IPM12-C6M-SC-3	36
IPM12-D4M-SC-3	36
IPM12-A3F-SC-3	37
IPM12-A4F-SC-3	37
IPM12-A5F-SC-3	37
IPM12-A8F-SC-3	37
IPM12-A12F-SC-3	37
IPM12-A17F-SC-3	37
IPM12-B3F-SC-3	37
IPM12-B4F-SC-3	37
IPM12-B5F-SC-3	37
IPM12-C3F-SC-3	37
IPM12-C4F-SC-3	37
IPM12-C5F-SC-3	37
IPM12-C6F-SC-3	37
IPM12-D4F-SC-3	37
IPM12-A3M-RF-SC-3	38
IPM12-A4M-RF-SC-3	38
IPM12-A5M-RF-SC-3	38
IPM12-A8M-RF-SC-3	38
IPM12-A12M-RF-SC-3	38
IPM12-B3M-RF-SC-3	38
IPM12-B4M-RF-SC-3	38
IPM12-B5M-RF-SC-3	38
IPM12-C3M-RF-SC-3	38

All M12 Series P/Ns	Catalog Page
IPM12-C4M-RF-SC-3	38
IPM12-C5M-RF-SC-3	38
IPM12-C6M-RF-SC-3	38
IPM12-D4M-RF-SC-3	38
IPM12-A3F-RF-SC-3	39
IPM12-A4F-RF-SC-3	39
IPM12-A5F-RF-SC-3	39
IPM12-A8F-RF-SC-3	39
IPM12-A12F-RF-SC-3	39
IPM12-B3F-RF-SC-3	39
IPM12-B4F-RF-SC-3	39
IPM12-B5F-RF-SC-3	39
IPM12-C3F-RF-SC-3	39
IPM12-C4F-RF-SC-3	39
IPM12-C5F-RF-SC-3	39
IPM12-C6F-RF-SC-3	39
IPM12-D4F-RF-SC-3	39
IPM12-A3M-FL-3	40
IPM12-A4M-FL-3	40
IPM12-A5M-FL-3	40
IPM12-A8M-FL-3	39
IPM12-A12M-FL-3	40
IPM12-A17M-FL-3	40
IPM12-B3M-FL-3	40
IPM12-B4M-FL-3	40
IPM12-B5M-FL-3	40
IPM12-C3M-FL-3	40
IPM12-C4M-FL-3	40
IPM12-C5M-FL-3	40
IPM12-C6M-FL-3	40
IPM12-D4M-FL-3	40
IPM12-A3F-FL-3	41

All M12 Series P/Ns	Catalog Page
IPM12-A4F-FL-3	41
IPM12-A5F-FL-3	41
IPM12-A8F-FL-3	41
IPM12-A12F-FL-3	41
IPM12-A17F-FL-3	41
IPM12-B3F-FL-3	41
IPM12-B4F-FL-3	41
IPM12-B5F-FL-3	41
IPM12-C3F-FL-3	41
IPM12-C4F-FL-3	41
IPM12-C5F-FL-3	41
IPM12-C6F-FL-3	41
IPM12-D4F-FL-3	41
IPM12-A3M-PC-3	42
IPM12-A4M-PC-3	42
IPM12-A5M-PC-3	42
IPM12-A8M-PC-3	42
IPM12-A12M-PC-3	42
IPM12-A17M-PC-3	42
IPM12-B3M-PC-3	42
IPM12-B4M-PC-3	42
IPM12-B5M-PC-3	42
IPM12-C3M-PC-3	42
IPM12-C4M-PC-3	42
IPM12-C5M-PC-3	42
IPM12-C6M-PC-3	42
IPM12-D4M-PC-3	42
IPM12-A3F-PC-3	43
IPM12-A4F-PC-3	43
IPM12-A5F-PC-3	43
IPM12-A8F-PC-3	43
IPM12-A12F-PC-3	43

All M12 Series P/Ns	Catalog Page
IPM12-A17F-PC-3	43
IPM12-B3F-PC-3	43
IPM12-B4F-PC-3	43
IPM12-B5F-PC-3	43
IPM12-C3F-PC-3	43
IPM12-C4F-PC-3	43
IPM12-C5F-PC-3	43
IPM12-C6F-PC-3	43
IPM12-D4F-PC-3	43
IPM12-A3M-PC-S-3	44
IPM12-A4M-PC-S-3	44
IPM12-A5M-PC-S-3	44
IPM12-A8M-PC-S-3	44
IPM12-A12M-PC-S-3	44
IPM12-A17M-PC-S-3	44
IPM12-B3M-PC-S-3	44
IPM12-B4M-PC-S-3	44
IPM12-B5M-PC-S-3	44
IPM12-C3M-PC-S-3	44
IPM12-C4M-PC-S-3	44
IPM12-C5M-PC-S-3	44
IPM12-C6M-PC-S-3	44
IPM12-D4M-PC-S-3	44
IPM12-A3F-PC-S-3	45
IPM12-A4F-PC-S-3	45
IPM12-A5F-PC-S-3	45
IPM12-A8F-PC-S-3	45
IPM12-A12F-PC-S-3	45
IPM12-A17F-PC-S-3	45
IPM12-B3F-PC-S-3	45
IPM12-B4F-PC-S-3	45
IPM12-B5F-PC-S-3	45

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