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Technical Information

Wire Gauge Conversion Chart

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

	Diameter		Ar	ea		Diameter		Area	
AWG	in.	mm	СМА	mm ^{2*}	AWG	in.	mm	СМА	mm ^{2*}
4/0 (0000)	0.46	11.68	212000	120	14	0.062	1.57	4110	2.5
3/0 (000)	0.41	10.41	168000	95	15	0.057	1.45	3260	-
2/0 (00)	0.365	9.27	133000	70	16	0.051	1.30	2580	1.5
1/0 (0)	0.325	8.26	106000	50	17	0.045	1.14	2050	1
1	0.289	7.34	83700	-	18	0.040	1.02	1620	0.75
2	0.258	6.55	66400	35	19	0.036	0.91	1290	-
3	0.229	5.82	52600	-	20	0.032	0.81	1020	0.5
4	0.204	5.18	41700	25	21	0.0285	0.72	810	-
5	0.182	4.62	33100	-	22	0.0253	0.643	642	0.34
6	0.162	4.11	26300	16	23	0.0226	0.574	509	-
7	0.144	3.66	20800	-	24	0.0201	0.511	404	0.25
8	0.128	3.25	16500	10	25	0.0179	0.45	320	-
9	0.114	2.90	13100	-	26	0.0159	0.404	254	0.14
10	0.102	2.59	10400	6	27	0.0142	0.361	202	-
11	0.091	2.31	8230	-	28	0.0126	0.320	160	0.08
12	0.081	2.06	6530	4	29	0.0113	0.29	127	-
13	0.072	1.83	5180	-	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, UnshieldedU = 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	Μ	-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 = FemaleM = Male
- |V| = |V|a|e

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	Μ	-RF	-	SC	-3
SERIES		CODING & # CONTACTS	GENDER	FASTENING		TYPE	THREAD SIZE

SERIES

IPM12 = M12

CODING & # CONTACTS

 $\begin{array}{l} A3 = 3 \ \text{Contacts, A Coding} \\ B3 = 3 \ \text{Contacts, B Coding} \\ C3 = 3 \ \text{Contacts, C Coding} \\ A4 = 4 \ \text{Contacts, A Coding} \\ B4 = 4 \ \text{Contacts, B Coding} \\ C4 = 4 \ \text{Contacts, C Coding} \\ D4 = 4 \ \text{Contacts, D Coding} \\ A5 = 5 \ \text{Contacts, A Coding} \\ B5 = 5 \ \text{Contacts, B Coding} \\ C5 = 5 \ \text{Contacts, C Coding} \\ C6 = 6 \ \text{Contacts, C Coding} \\ A8 = 8 \ \text{Contacts, A Coding} \\ A12 = 12 \ \text{Contacts, A Coding} \\ A17 = 17 \ \text{Contacts, A Coding} \\ X8 = 8 \ \text{Contacts, X Coding}^* \end{array}$

GENDER

F = FemaleM = 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, C Coding B4 = 4 Contacts, A 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

CABLE TYPE

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

X = 8 Contacts, X Coded

CODING & # CONTACTS

GENDER

F = FemaleM = Male

ANGLE

WL = Straight RA-WL = Right Angle

ASSEMBLY LENGTH*

1.5	=	1.	.5	m	ete	ers
2.0	=	2	m	let	ers	S
3.0	=	3	m	let	ers	5

- 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

REF 42.0



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

General Information

IEC 61076-2-101
-10°C ~ +80°C (fixed installation)
$-5^{\circ}C \sim +80^{\circ}C$ (flexible installation)
TPU
Brass with gold plated
TPU
Zinc alloy with nickel plated

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

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Rated	Volt	age	Wire g / si		Cable	Cable ending
0011101010	А	В	С	D	Current	A/C	D/C	AWG	mm ²	jacket	& length
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	$(\begin{array}{c} & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ &$				1.5A	30V	30V	26AWG	0.14	PUR / PVC	
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	

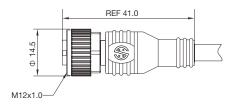
Notes

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

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
	-10°C ~ +80°C (fixed installation)
Ambient temperature:	$-5^{\circ}C \sim +80^{\circ}C$ (flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling nut/screw:	Zinc alloy with nickel plated

Electrical Data & Mechanical Data

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

Contacts		Available	e Coding		Rated	Volt	age	Wire g / si		Cable	Cable ending
	А	В	С	D	Current	A/C	D/C	AWG	mm ²	jacket	& length
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

M12 Male Molded Cable, Straight, Shielded

Φ 14.5

M12x1.0-

REF48.2

\$

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

IEC 61076-2-101
$-10^{\circ}C \sim +80^{\circ}C$ (fixed installation)
$-5^{\circ}C \sim +80^{\circ}C$ (flexible installation)
PA
Brass with gold plated
TPU
Zinc alloy with nickel plated

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

Contacts		Available	e Coding		Rated Voltage		Wire gauge / size		Cable	Cable ending	
	А	В	С	D	Current	A/C	D/C	AWG	mm ²	jacket	& length
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	$(\overbrace{\begin{smallmatrix} 0&0&0\\0&0&0&0&0\\0&0&0&0\\0&0&0&0&0\\0&0&0&0\\0&0&0&0&0\\0&0&0&0\\0&0&0&0&0&0\\0&0&0&0&0&0\\0&0&0&0&0&0\\0&0&0&0&0&0\\0&0&0&0&0&0\\0&0&0&0&0&0\\0&0&0&0&0&0\\0&0&0&0&0&0\\0&0&0&0&0&0\\0&0&0&0&0&0\\0&0&0&0&0&0\\0&0&0&0&0&0\\0&0&0&0&0&0\\0&0&0$				1.5A	30V	30V	26AWG	0.14	PUR / PVC	
17 pins	$(\begin{array}{c} & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & &$				1.5A	30V	30V	26AWG	0.14	PUR / PVC	

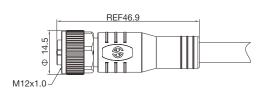
Notes

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

M12 Female Molded Cable, Straight, Shielded

Connector series: M12 Gender: Female Coding: A, B, C, D Locking type: Fix screw Mounting type: Straight Part No.: IPM12-**-FWL-XXXS

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





General Information

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

Electrical Data & Mechanical Data

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

Contacts		Available	e Coding		Rated	Rated Voltage		Wire g / si		Cable jacket	Cable ending
	А	В	С	D	Current	A/C	D/C	AWG	mm ²	Jacket	& length
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	

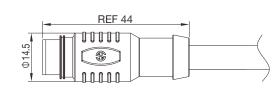
Notes

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

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)	Insulation resistance:	≥ 100MΩ	
Connector insert:	-5°C ~ +80°C (flexible installation)	Contact resistance:	$\leq 5m\Omega$	
	Brass with gold plated	Shielding:	Unavailable	
Connector overmold:		IP rating:	IP67 in locked condition	

Electrical Data & Mechanical Data

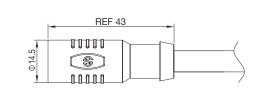
Contacts	Available Coding				• • • • •		Volt	age	Wire ga / siz	0	Cable	Wire	Cable ending
	А	В	D	Current	A/C	D/C	AWG	mm ²	jacket	insulation	& length		
03 pins				4A	250V	250V	22AWG	0.34	PUR / PVC	PVC			
04 pins				4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	Customized cable		
05 pins				4A	60V	60V	22AWG	0.34	PUR / PVC	PVC	ending and length		
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

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





X refers to cable length and cable type

General Information

** refers to coding and number of contacts

Ambient temperature:	$-10^{\circ}C \sim +80^{\circ}C$ (fixed installation)
	$-5^{\circ}C \sim +80^{\circ}C$ (flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU

Electrical Data & Mechanical Data

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

Contacts	Available Coding			Rated	Voltage		Wire gauge / size		Cable	Wire	Cable ending
	А	В	D	Current	A/C	D/C	AWG	mm ²	jacket	insulation	& length
03 pins				4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	Customized cable ending and length
04 pins	3 4			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 Molded Cable

M12 Male Molded Cable, Angled

REF 29.7

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

IEC 61076-2-101
-10°C ~ +80°C (fixed installation)
$-5^{\circ}C \sim +80^{\circ}C$ (flexible installation)
PA
Brass with gold plated
TPU
Zinc alloy with nickel plated

Electrical Data & Mechanical Data

Φ1 4.5 - M12x1.0	

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

Contacts	Available Coding				Rated	Voltage		Wire gauge / size		Cable	Cable ending
Contacto	А	В	С	D	Current	A/C	D/C	AWG	mm ²	jacket	& length
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	$(\overbrace{\textcircled{b}{0}}^{7,0},\overbrace{0}^{0,0},\overbrace{0}^{0,0})\\ (0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,$				1.5A	30V	30V	26AWG	0.14	PUR / PVC	
17 pins	$(\begin{array}{c} & & & & \\ & & & & \\ & & & & \\ & & & & $				1.5A	30V	30V	26AWG	0.14	PUR / PVC	

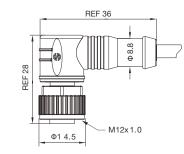
Notes

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

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:	$-10^{\circ}C \sim +80^{\circ}C$ (fixed installation)
Ambient temperature:	$-5^{\circ}C \sim +80^{\circ}C$ (flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling nut/screw:	Zinc alloy with nickel plated

Electrical Data & Mechanical Data

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

Contacts	Available Coding				Rated	Voltage		Wire gauge / size		Cable	Cable ending
	А	В	С	D	Current	A/C	D/C	AWG	mm ²	jacket	& length
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

M12 Male Molded Cable, Angled, Shielded

REF29.7

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:	$-10^{\circ}C \sim +80^{\circ}C$ (fixed installation)
Ambient temperature:	$-5^{\circ}C \sim +80^{\circ}C$ (flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Zinc alloy with nickel plated

Electrical Data & Mechanical Data

	REF 37.5	
•		
v		
	Φ 14.5 — M12x1.0	

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

Contacts	Available Coding				Rated	Voltage		Wire gauge / size		Cable	Cable ending
	А	В	С	D	Current	A/C	D/C	AWG	mm ²	jacket	& length
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	

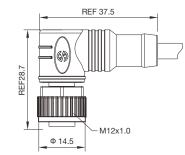
Notes

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

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	$-10^{\circ}C \sim +80^{\circ}C$ (fixed installation)
Ambient temperature:	$-5^{\circ}C \sim +80^{\circ}C$ (flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling nut/screw:	Zinc alloy with nickel plated

Electrical Data & Mechanical Data

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

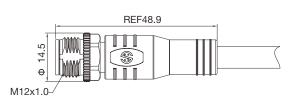
Contacts		Available Coding				Volt	age	Wire g / si		Cable	Cable ending
	А	В	С	D	Current	A/C	D/C	AWG	mm ²	jacket	& length
03 pins			(2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
04 pins	() () () () () () () () () () () () () ((3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins			(4+PE)		4A 2A(C-code)	60V	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

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:	$-10^{\circ}C \sim +60^{\circ}C$ (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:	$\geq 100 M\Omega$
Contact resistance:	≤ 10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Transmission characteristics:	CAT 6 _A /CAT 7

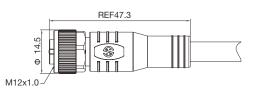
Electrical Data & Mechanical Data

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

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

M12 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:	$-10^{\circ}C \sim +60^{\circ}C$ (fixed installation)
Ampient temperature.	$-5^{\circ}C \sim +60^{\circ}C$ (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:	\geq 100M Ω
Contact resistance:	\leq 10m Ω
Shielding:	Available
IP rating:	IP67 in locked condition
Transmission characteristics:	CAT 6A/CAT 7

Electrical Data & Mechanical Data

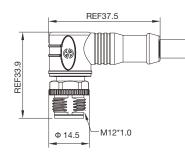
Contacts	Contacts X-Coding Rated		Rated Voltage		Wire gauge / size		Cable spec	Cable ending
Contacto	A County	Current	A/C	D/C	AWG	mm ²		& length
08 pins		0.5A	50V	60V	27-24	0.14-0.25	CAT 6ª/CAT 7	Customized cable ending and length

Notes

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

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)
Ambient temperature:	-5°C ~ +60°C (flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Zinc alloy with nickel plated

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

Electrical Data & Mechanical Data

Contacts X-Coding Rated		Rated Voltage		Wire	gauge / size	Cable spec	Cable ending	
000000	Curre	Current	A/C	D/C	AWG	mm ²		& length
08 pins		0.5A	50V	60V	27-24	0.14-0.25	CAT 6A/CAT 7	Customized cable ending and length

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

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

Φ 14.5

REF32.4

REF37.5

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



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

-M12*1	.0	
	Seal / O-ring:	FKM
	Insulation resistance:	\geq 100M Ω
	Contact resistance:	$\leq 10m\Omega$
	Shielding:	Available
	IP rating:	IP67 in locked condition
	Transmission	CAT 6 _A /CAT 7

characteristics:

Electrical Data & Mechanical Data

Contacts	X-Coding	Rated	Rated	Voltage	Wire	gauge / size	Cable spec	Cable ending
001110000	, cooung	Current	A/C	D/C	AWG	mm ²		& length
08 pins		0.5A	50V	60V	27-24	0.14-0.25	CAT 6A/CAT 7	Customized cable ending and length

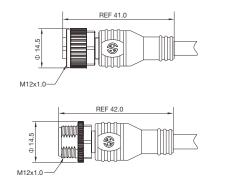


• Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²

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:	$-10^{\circ}C \sim +80^{\circ}C$ (fixed installation) $-5^{\circ}C \sim +80^{\circ}C$ (flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU

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

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Rated	Volt	tage	Wire gauge / size		Cable	Cable ending
	А	В	С	D	Current	A/C	D/C	AWG	mm ²	jacket	& length
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	$(\substack{ \{ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$				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.

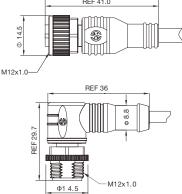
M12 Straight Female to M12 Right Angle Male

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:	$-10^{\circ}C \sim +80^{\circ}C$ (fixed installation) $-5^{\circ}C \sim +80^{\circ}C$ (flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU

Electrical Data & Mechanical Data

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

Contacts		Available	e Coding		Rated			Wire gauge / size		Cable	Cable ending
Contacto	А	В	С	D	Current	A/C	D/C	AWG	mm ²	jacket	& length
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	$(\overbrace{\begin{smallmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 12 \\$				1.5A	30V	30V	26AWG	0.14	PUR / PVC	
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	
The abov	ve inform	ation is i	n regards	to A/B/0	C/D Coded	cables	only, ple	ease refer to	pages 18	-21 for X-Co	ded details

Notes

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

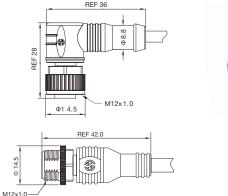
- Please refer to Page 6 for part number breakdown.
- Please refer to Page 7 for X-coded part number breakdown.

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	Connector nut/screw:	Zinc alloy with nickel plated	
Ambient temperature:	-10°C ~ +80°C (fixed installation)	Insulation resistance:	≥ 100MΩ	
	$-5^{\circ}C \sim +80^{\circ}C$ (flexible installation)	Contact resistance:	≤ 5mΩ	
Connector insert:	TPU	Shielding:	Unavailable	
Connector contacts:	Brass with gold plated			
Connector overmold:	TPU	IP rating:	IP67 in locked condition	

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Rated	Voltage		Wire gauge / size		Cable	Cable ending
	А	В	С	D	Current	A/C	D/C	AWG	mm ²	jacket	& length
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	$(\substack{0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0$				1.5A	30V	30V	26AWG	0.14	PUR / PVC	
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

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• 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 Right Angled Female to M12 Right Angle Male

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 contactsX refers to cable length and cable type# refers to cable type (X-coding only)

General Information

Standard:	IEC 61076-2-101
	$-10^{\circ}C \sim +80^{\circ}C$ (fixed installation)
Ambient temperature:	$-5^{\circ}C \sim +80^{\circ}C$ (flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPUs

Electrical Data & Mechanical Data

M12x 1.0 REF 36	
BIFF 297	

Φ1 4.5

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

Available Coding		Available Coding		Available Coding		-						Wire gauge / size		Cable	Cable ending
А	В	С	D	Current	A/C	D/C	AWG	mm ²	jacket	& length					
		(2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC						
		(3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC						
		(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					
		(5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC						
				2A	30V	30V	24AWG	0.25	PUR / PVC						
$(\substack{1000\\00000000000000000000000000000000$				1.5A	30V	30V	26AWG	0.14	PUR / PVC						
				1.5A	30V	30V	26AWG	0.14	PUR / PVC						
			A B C Image: Comparison of the strength of the strengen of the strengen of the strengen of the	A B C D Image: Constraint of the strength of the strengt of the strength of the strength of the strength of the	ABCDCurrent \bigcirc \bigcirc \bigcirc \bigcirc $4A$ \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc $2A$ \bigcirc	ABCDCurrentA/C \bigcirc </td <td>ABCDCurrentA/CD/C\bigcirc</td> <td>ABCDCurrentA/CD/CAWG$\bigcirc \bigcirc$</td> <td>ABCDCurrentA/CD/CAWGmm2$\bigcirc \bigcirc$</td> <td>A B C D Current A/C D/C AWG mm2 jacket $()$ $()$<!--</td--></td>	ABCDCurrentA/CD/C \bigcirc	ABCDCurrentA/CD/CAWG $\bigcirc \bigcirc $	ABCDCurrentA/CD/CAWGmm2 $\bigcirc \bigcirc $	A B C D Current A/C D/C AWG mm2 jacket $()$ </td					

Notes

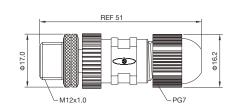
• Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²

- Please refer to Page 6 for part number breakdown.
- Please refer to Page 7 for X-coded part number breakdown.

M12 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	Seal / O-ring:	FKM
Ambient temperature:	-25°C ~ +90°C	Insulation resistance:	\geq 100M Ω
Connector insert:	TPU	Contact resistance:	$\leq 5m\Omega$
Connector contacts:	Brass with gold plated	Shielding:	Unavailable
Connector nut/screw:	Brass with nickel plated	Suitable cable dia:	4-5.5mm
Connector body:	PA+GF	IP rating:	IP67 locked condition

Electrical Data & Mechanical Data

Contacts		Available Coding				Rated	Voltage		Wire gau	Wire gauge / size	
001110010	А	В	С	D	Termination	Current	A/C	D/C	AWG	mm ²	
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	$(\begin{array}{c} 76 \bullet \bullet 0 \\ 0 \bullet \bullet \bullet 0 \\ 98 \bullet 12 \bullet 1 \bullet 0 \\ 10 \bullet 10 \bullet 2 \end{array}) \\ \bullet 0 \bullet 2 \bullet 0 \\ \bullet 0 \bullet 2 \bullet 0 \\ \bullet 0 \bullet 2 \bullet 0 \\ \bullet 0 \bullet 0$				Solder Version	1.5A	30V	30V	26AWG	0.14	

Notes

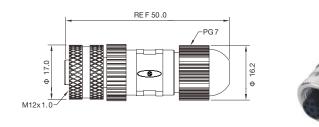
• Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²



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





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

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

Electrical Data & Mechanical Data

Contacts		Available Coding				Volt	Voltage		Wire gauge / size	
	А	В	С	D	Current	A/C	D/C	AWG	mm ²	
03 pins			(2+PE)		4A	250V	250V	22AWG	0.34	
04 pins	3 4 2 1		(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

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

REF 63



General Information

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

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

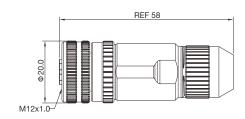
Electrical Data & Mechanical Data

Contacts	Available Coding				Rated			Wire gauge / size	
	А	В	D	Termination	Current	A/C	D/C	AWG	mm ²
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

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

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

Connector series: M12 Gender: Female Coding: A, B, D Locking type: Fix screw Mounting type: Straight Part No.: IPM12-**F-SRFT-S-#





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

General Information

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

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

Electrical Data & Mechanical Data

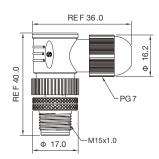
Contacts	Av	ailable Cod	ing	Contacts	Rated	Voltage		Wire gauge / size	
	А	В	D	Termination	Current	A/C	D/C	AWG	mm ²
03 pins				Screw Joint	4A	250V	250V	22AWG	0.34
04 pins	34			Screw Joint	4A	250V	250V	22AWG	0.34
05 pins				Screw Joint	4A	60V	60V	22AWG	0.34
08 pins				Screw Joint	2A	30V	30V	24AWG	0.25

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

M12 Male Field Wireable, Assembly, Angled, Solder

Connector series: M12 Gender: Male Coding: A, B, C, D Locking type: Fix screw Mounting type: Right angled Part No.: IPM12-**MRA-SCFT

** refers to coding and number of contacts





General Information

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

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

Electrical Data & Mechanical Data

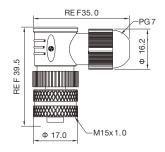
Contacts		Available Coding			Contacts	Rated	Voltage		Wire gauge / size	
	А	В	С	D	Termination	Current	A/C	D/C	AWG	mm ²
03 pins			(2+PE)		Solder Version	4A	250V	250V	22AWG	0.34
04 pins			(3+PE)		Solder Version	4A	250V	250V	22AWG	0.34
05 pins			(4+PE)		Solder Version	4A 2A(C-code)	60V	60V	22AWG 24(C-code)	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

- 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

\geq 100M Ω
$\leq 5m\Omega$
Unavailable
4-5.5mm
IP67 locked condition
Refer to page 56

Electrical Data & Mechanical Data

Contacts	Available Coding				Contacts	Rated	Voltage		Wire gauge / size	
0011101010	А	В	С	D	Termination	Current	A/C	D/C	AWG	mm ²
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

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

M12 Male Field Wireable Assembly, Straight, Screw Joint

Connector series: M12 Gender: Male Coding: A, B, D Locking type: Fix screw Mounting type: Straight Part No.: IPM12-**M-SRFT-

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

General Information

-# ntacts 4=PG7	\$

- M12x1.0

RE F 60.0

PG7 or PG9



Standard:	IEC 61076-2-101	Insulation res
Ambient temperature:	-25°C ~ +90°C	Contact resis
Connector insert:	TPU	Shielding:
Connector contacts:	Brass with gold plated	Suitable cab
Connector nut/screw:	Aluminum alloy anodized	IP rating:
Connector body:	PA+GF	Assembly ins
Seal / O-ring:	FKM	

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

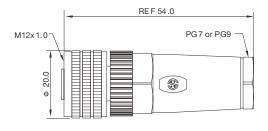
Electrical Data & Mechanical Data

Contacts	Available Coding			Contacts	Rated	Voltage		Wire gauge / size	
	А	В	D	Iermination	Termination Current	A/C	D/C	AWG	mm ²
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

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

M12 Female Field Wireable Assembly, Straight, Screw Joint

Connector series: M12 Gender: Female Coding: A, B, D Locking type: Fix screw Mounting type: Straight Part No.: IPM12-**F-SRFT-#





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

General Information

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

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

Electrical Data & Mechanical Data

Contacts	Ava	ailable Coc	ding	Contacts	Rated Current	Voltage		Wire gauge / size	
	А	В	D	Termination		A/C	D/C	AWG	mm ²
03 pins				Screw Joint	4A	250V	250V	22AWG	0.34
04 pins	3 4 2 1			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

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

M12 Male Field Wireable Assembly, Angled, Screw Joint

RE F40.0

-PG7 or PG9

M12x1.0

69

Φ 20

RE F 43.0

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

Electrical Data & Mechanical Data

Contacts	Ava	ailable Coc	ling	Contacts	Rated	Voltage		Wire gauge / size	
	А	В	D	Iermination	Termination Current	A/C	D/C	AWG	mm ²
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

- 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

	RE F40.0
RE F3 7.0	



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

Electrical Data & Mechanical Data

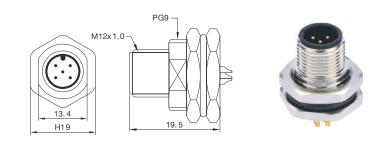
Contacts	Ava	ailable Coc	ling	Contacts	Rated	Voltage		Wire gauge / size	
	А	В	D	Termination	nation Current	A/C	D/C	AWG	mm ²
03 pins				Screw Joint	4A	250V	250V	22AWG	0.34
04 pins	(3 4) (2 1)			Screw Joint	4A	250V	250V	22AWG	0.34
05 pins				Screw Joint	4A	60V	60V	22AWG	0.34
08 pins				Screw Joint	2A	30V	30V	24AWG	0.25

- 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	Insulation resistance:	\geq 100M Ω
Ambient temperature:	-25°C ~ +90°C	Contact resistance:	$\leq 5m\Omega$
Connector insert:	TPU	Shielding:	Unavailable
Connector contacts:	Brass with gold plated	IP rating:	IP67 in locked condition
Connector nut/screw:	Brass with nickel plated	Panel cut-out:	Refer to page 60
Seal/O-ring:	Epoxy resin/FKM		

Electrical Data & Mechanical Data

Contacts	Available Coding			Contacts	Rated	Voltage		Wire gauge / size		
	А	В	С	D	Termination	Current	A/C	D/C	AWG	mm ²
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	$(\begin{array}{c} \hline \\ \hline \\ \hline \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $				Solder Version	1.5A	30V	30V	26AWG	0.14
17 pins					Solder Version	1.5A	30V	30V	26AWG	0.14

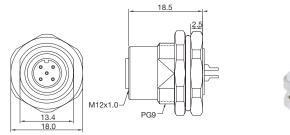
Notes

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

M12 Female Panel Mount, Solder, Front Fastened

Connector series: M12 Gender: Female Coding: A, B, C, D Locking type: Fix screw Mounting type: Front fastened Part No.: IPM12-**F-SC-3

** refers to coding and number of contacts





General Information

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

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

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Contacts	Rated	Volt	age	Wire gau	ige / size
	А	В	С	D	Termination	Current	A/C	D/C	AWG	mm ²
03 pins			(2+PE)		Solder Version	4A	250V	250V	22AWG	0.34
04 pins	3 4		(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

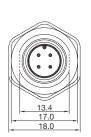
• Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²

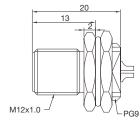
Please refer to Page 6 for part number breakdown.

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	Insula	ation resistance:	\geq 100M Ω
Ambient temperature:	-25°C ~ +90°C	Conta	act resistance:	$\leq 5m\Omega$
Connector insert:	TPU	Shield	ding:	Unavailable
Connector contacts:	Brass with gold plated	IP rati	ing:	IP67 in locked condition
Connector nut/screw:	Brass with nickel plated	Panel	cut-out:	Refer to page 60
Seal/O-ring:	Epoxy resin/FKM			

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Contacts	Rated			Wire gauge / size	
	А	В	С	D	Termination	Current	A/C	D/C	AWG	mm ²
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

Electrical Data & Mechanical Data

13.4 $M12x1.0$ $PG9$	
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Insulation resistance:	$\geq 100 M\Omega$
Contact resistance:	$\leq 5m\Omega$
Shielding:	Unavailable
IP rating:	IP67 locked condition
Panel cut-out:	Refer to page 60

Contacts	Available Coding				-		Volt	age	Wire gauge / size	
	А	В	С	D	Termination	Current	A/C	D/C	AWG	mm ²
03 pins			(2+PE)		Solder Version	4A	250V	250V	22AWG	0.34
04 pins	(3 4 (2 1)		(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

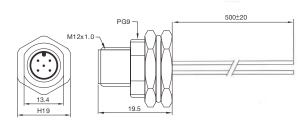
• Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²

• Please refer to Page 6 for part number breakdown.

M12 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	Insulation resistance:	$\geq 100M\Omega$	
Ambient temperature:	-25°C ~ +90°C	Contact resistance:	$\leq 5m\Omega$	
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	
oean o-mig.				

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Contacts	Rated	Volt	age	Wire gau	ge / size	Cable ending
001111010	А	В	С	D	Termination	Current	A/C	D/C	AWG	mm ²	& length
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	Supplied blunt cut
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
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

Electrical Data & Mechanical Data

Insulation resistance:	$\geq 100 M\Omega$
Contact resistance:	$\leq 5m\Omega$
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Wire length:	500 mm
Panel cut-out:	Refer to page 60

Contacts	Available Coding		_		e Coding		Available Coding		Contacts	Rated	Volt	age	Wire gau	ge / size	Cable ending
	А	В	С	D	Termination	Current	A/C	D/C	AWG	mm ²	& length				
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)	Supplied blunt cut				
06 pins			(5+PE)		Solder Version	2A	30V	30V	24AWG	0.25					
08 pins					Solder Version	2A	30V	30V	24AWG	0.25					
12 pins	607 0008 0009 20 0				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

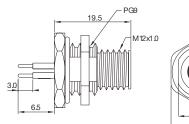
• Please refer to Page 6 for part number breakdown.

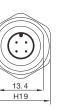
M12 Male Panel Mount, PCB Type, Front Fastened

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	Insulation resistance:	\geq 100M Ω
Ambient temperature:	-25°C ~ +90°C	Contact resistance:	$\leq 5m\Omega$
Connector insert:	TPU	Shielding:	Unavailable
Connector contacts:	Brass with gold plated	IP rating:	IP67 in locked condition
Connector nut/screw:	Brass with nickel plated	Panel cut-out:	Refer to page 60
Seal/O-ring:	Epoxy resin/FKM	PCB layout:	Refer to page 59-60

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Contacts	Rated	Voltage	
001111010	А	В	С	D	Termination	Current	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

M12x1.0

PG9

18.5

6.5± 0.5

3.0

2.

Connector series: M12 Gender: Female Coding: A, B, C, D Locking type: Fix screw Mounting type: Front fastened Part No.: IPM12-**F-PC-3

** refers to coding and number of contacts

General Information

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

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

Contacts		Available	e Coding		Contacts	Rated	Volt	age
	А	В	С	D	Termination	Current	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, 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	Insulation resistance:	\geq 100M Ω
Ambient temperature:	-25°C ~ +90°C	Contact resistance:	$\leq 5m\Omega$
Connector insert:	TPU	Shielding:	Available
Connector contacts:	Brass with gold plated	IP rating:	IP67 in locked condition
Connector nut/screw:	Brass with nickel plated	Panel cut-out:	Refer to page 60
Seal/O-ring:	Epoxy resin/FKM	PCB layout:	Refer to page 59-60

Electrical Data & Mechanical Data

Contacts		Available	e Coding		Contacts	Rated	Voltage	
001110010	А	В	С	D	Termination	Current	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

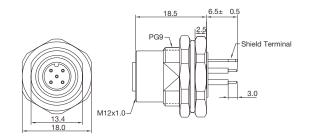
• Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²

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

Contacts		Available	e Coding		Contacts Rated		Volt	age
	А	В	С	D	Termination	Current	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

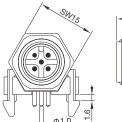
• Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²

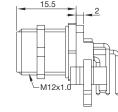
• Please refer to Page 6 for part number breakdown.

M12 Panel Mounts

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	Insulation resistance:	\geq 100M Ω
Ambient temperature:	-25°C ~ +90°C	Contact resistance:	$\leq 5m\Omega$
Connector insert:	TPU	Shielding:	Unavailable / Available
Connector contacts:	Brass with gold plated	IP rating:	IP67 in locked condition
Connector nut/screw:	Brass with nickel plated	Panel cut-out:	Refer to page 60
Seal/O-ring:	Epoxy resin/FKM	PCB layout:	Refer to page 59-60

Electrical Data & Mechanical Data

Contacts	Av	Available Coding		Contacts	Rated	Voltage	
	А	В	D	Termination	Current	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	I
Ambient temperature:	-25°C ~ +90°C	(
Connector insert:	PA+GF	
Connector contacts:	Brass with gold plated	I
Connector nut/screw:	Brass with nickel plated	F
Seal / O-ring:	FKM	F

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

Electrical Data & Mechanical Data

Contacts	Av	ailable Cod	ing	Contacts Termination	Rated Current	Volt	Voltage		
	А	В	D	remination	Current	A/C	D/C		
04 pins	3 4 2 1			PCB Version	4A	250V	250V		
05 pins				PCB Version	4A	60V	60V		
08 pins				PCB Version	2A	30V	30V		

Notes

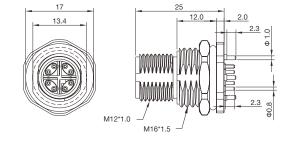
• Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²

• Please refer to Page 6 for part number breakdown.

M12 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





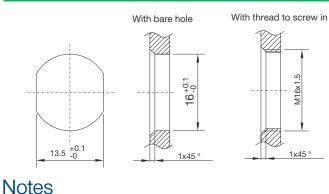
General Information

Standard:	IEC 61076-2-109	Insulation resistance:	\geq 100M Ω
Ambient temperature:	-25°C ~ +90°C	Contact resistance:	\leq 10m Ω
Connector insert:	PA	Shielding:	Available
Connector contacts:	Brass with gold plated	IP rating:	IP67 in locked condition
Connector nut/screw:	Brass/Zinc with nickel plated		
Seal/O-ring:	FKM/Epoxy resin		

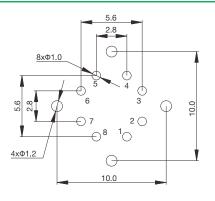
Electrical Data & Mechanical Data

Conta	cts	Contacts Termination	Rated	Volt	age
			Current	A/C	D/C
08 pins	$\begin{array}{c} 5 \\ 6 \\ 7 \\ 8 \\ 8 \\ 1 \end{array} \begin{array}{c} 4 \\ 3 \\ 6 \\ 2 \\ 3 \\ 2 \end{array}$	PCB Version	0.5A	50V	60V

Panel Cut-out Dimensions



PCB Layout



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

• Please refer to Page 5 for part number breakdown.

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

M12x1.0

19.5

M16x1.5_/ SW19 2.0

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

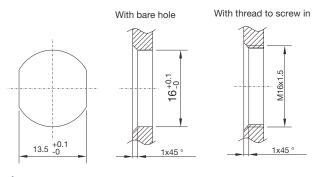
Standard:	IEC 61076-2-109
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass/Zinc with nickel plated
Seal/O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance:	\leq 10m Ω
Shielding:	Available
IP rating:	IP67 in locked condition

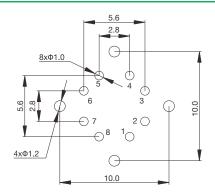
Electrical Data & Mechanical Data

Conta	cts	Contacts Termination	Rated	Volt	age
			Current	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

M12x1.0	_M12x1.0	
1	2 5	
	<u>۳</u>	
<u>Φ</u> 17	0M12x1.0	



Ambient temperature:	-20°C ~ +80°C	Seal/O-ring:	FKM
Connector insert:	TPU; PA	Insulation resistance:	\geq 100M Ω
Connector contacts:	Brass with gold plated	Contact resistance:	$\leq 5m\Omega$
Connector nut/screw:	Brass with nickel plated	Shielding:	Unavailable
Overmold:	PVC	IP rating:	IP67 in locked condition

Electrical Data & Mechanical Data

Cantasta	Available Co		ng	Rated	Volt	age
Contacts	А	В	D	Current	A/C	D/C
03 pins	Male () () () () () () () () () ()	Male () () () () () () () () () ()		4A	250V	250V
04 pins	Male () () () () () () () () () () () () () (Male () () () () () () () () () () () () () (Male (© 0) Female	4A	250V	250V
05 pins	Male	Male () () () () () () () () () ()		4A	60V	60V
08 pins	Male (a) (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c			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

-20°C ~ +80°C

Brass with gold plated

Brass with nickel plated

TPU; PA

PVC

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:

Connector contacts:

Connector nut/screw:

Connector insert:

Overmold:

M12x1.0 _	M12x1	1.0
1		
F		
L	<u>""</u>	ĻĻĻĻļ
		- 980 - 109 -
		3827 I. C. 19 20 20
	M12x1.0	
	Φ 170 WI12X1.0	



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

Electrical Data & Mechanical Data

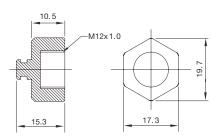
Contacts	Av	ailable Codir/	ng	Rated	Volt	Voltage	
Contacts	А	В	D	Current	A/C	D/C	
03 pins	Male (2) (2) Female	Male () () () () () () () () () ()		4A	250V	250V	
04 pins	Male (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	Male () () () () () () () () () () () () () (Male	4A	250V	250V	
05 pins	Male	Male () () () () () () () () () ()		4A	60V	60V	
08 pins	Male (0) (0) (0) (0) (0) (0) (0) (0)			2A	30V	30V	
	Female						

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



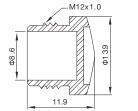


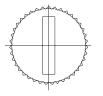
General Information

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

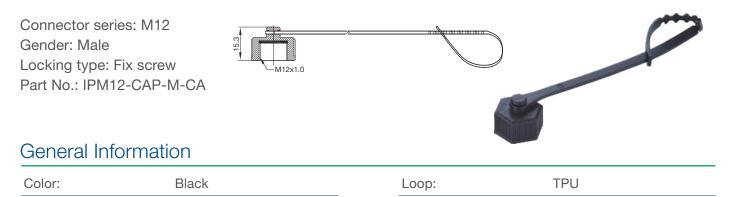
Notes

Nut/screw:

Gasket:

IP67 in locked condition

M12 Cable Mounted Protection Cap for Male Molded Connector

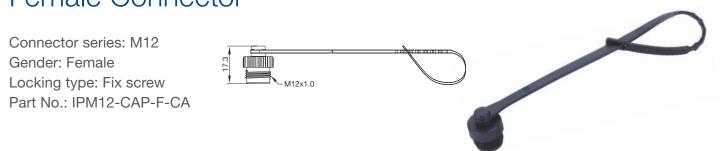


IP rating:

M12 Cable Mounted Protection Cap for Female Connector

PA+GF

FKM



General Information

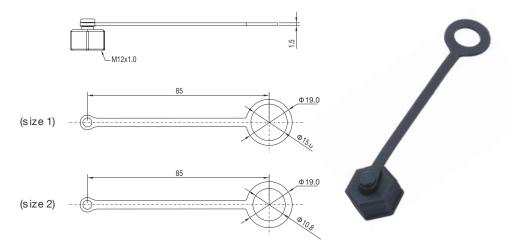
Color:	Black	Loop:	TPU
Nut/screw:	PA+GF	IP rating:	IP67 in locked condition

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

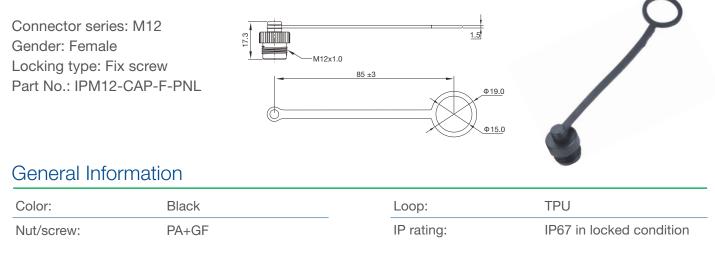
Connector series: M12 Gender: Male Locking type: Fix screw Part No.: IPM12-CAP-M-PNL



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

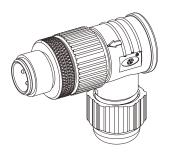


Notes

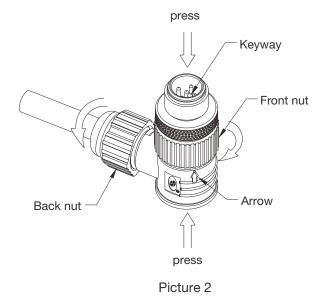
Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm²

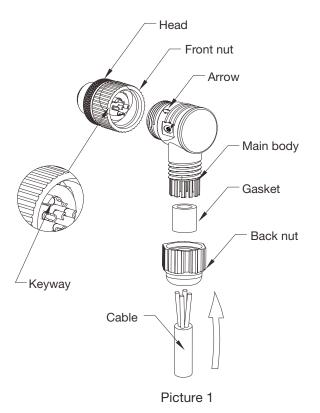


M12 Field Wireable Assembly with Solder Cup Instructions



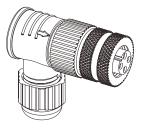
- 1. Ensure the cable jacket is suitably prepared, wires are stripped and tinned.
- 2. Using a soldering iron, and suitable solder. Solder the wires to the contacts according to your wiring schematic.
- Once soldered, ensure the keyway on the front nut is correctly aligned to the main body. Gently press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



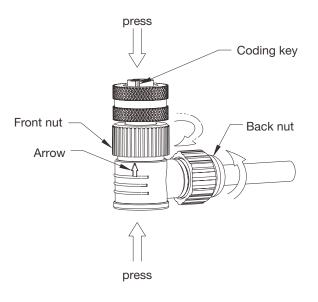


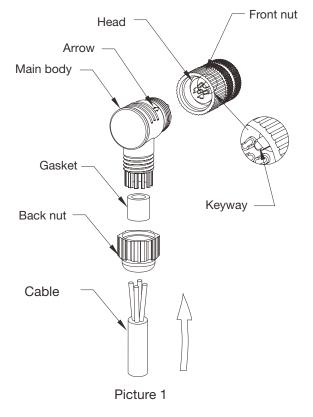
- 4. Pull the cable gently to straighten the internal wiring, and then fully tighten the front nut to the main body.
- Slide both the gasket and back nut towards the main body and into place, ensure the gasket is installed correctly and then tighten the back nut into place so there is an adequate seal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

M12 Field Wireable Assembly with Solder Cup Instructions



- 1. Ensure the cable jacket is suitably prepared, wires are stripped and tinned.
- 2. Using a soldering iron, and suitable solder. Solder the wires to the contacts according to your wiring schematic.
- 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.





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

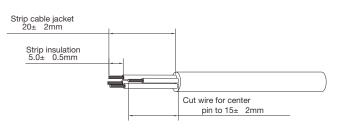


Picture 2

M12 Field Wireable Assembly with Screw Joint Instruction

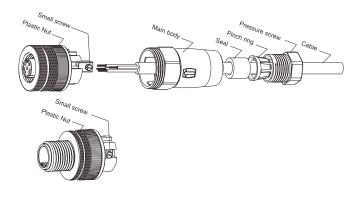
Step 1

Prepare the cable jacket

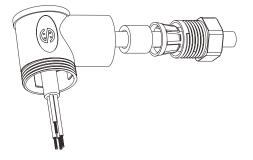


Step 2

Assemble all the components on cable as follows.



Right angle sketch



Step 3

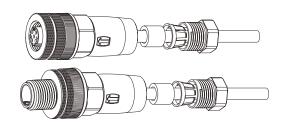
Connect all wires to the insert according to wirelist, then tighten all small screws. The torque for the screws is 0.2Nm.

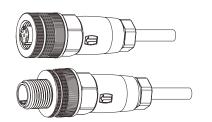
Step 4

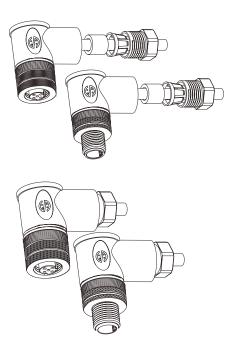
Assemble plastic nut to main body. Recommended torque: 1.0 Nm. (Note: The key inside the main body must be correctly aligned to the insert.

Step 5

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



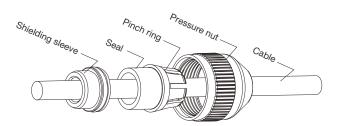




M12 Field Wireable Assembly with Screw Joint Instruction, Shielded

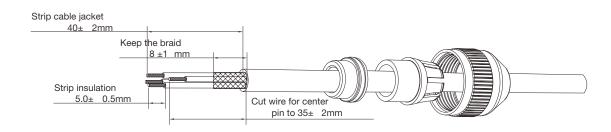
Step 1

Assemble all components on cable as following.



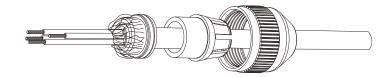
Step 2

Prepare the cable jacket. Strip the cable as following.



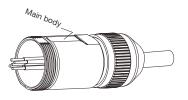
Step 3

Push the braid over the shielding sleeve



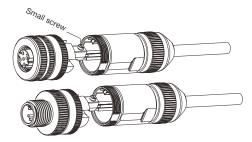
Step 4

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



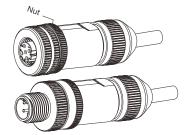
Step 5

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



Step 6

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

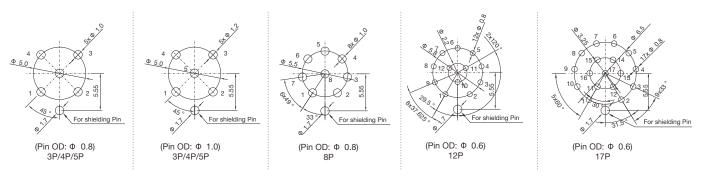




M12 PCB Layout & Panel Cut-out

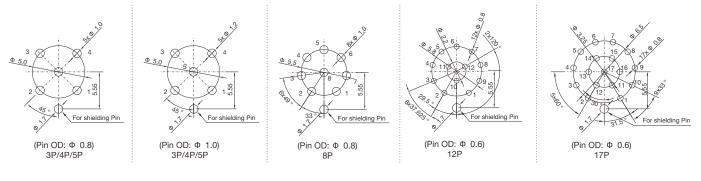
PCB Layout

M12 Male Connector (A,B & D coding)



Recommended PCB layout

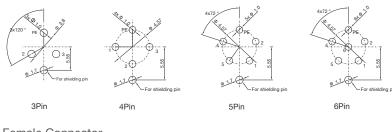
M12 Female Connector (A,B & D coding)



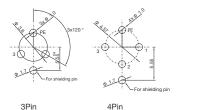
Recommended PCB layout

M12 C-coding Connector

Male Connector







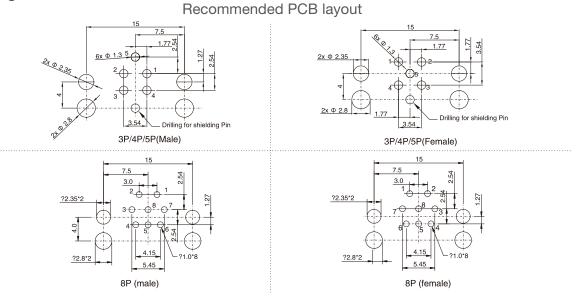
5Pin



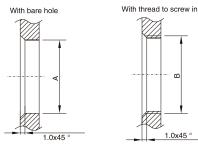
M12 PCB Layout & Panel Cut-out

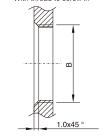
PCB Layout

M12 Right Angled Connector



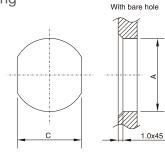
Panel Cut-out Dimensions

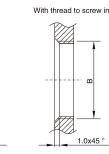




	А	В
M12	12 ^{+0.1} _0	M12x1.0
PG9	15.3 ^{+0.1} _0	PG9

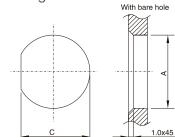
H-cutting

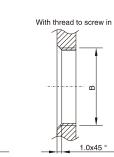




	А	В	С
PG9	15.3 $^{+0.1}_{-0}$	PG9	13.5 ^{+0.1} _0

D-cutting





	А	В	С
PG9	15.3 ^{+0.1} _0	PG9	14.3 ^{+0.1} _0
M12	12 ^{+0.1} _0	M12x1.0	11.3 ^{+0.1} _0

Part Numbers

XX = Cable length XXX = Cable length & type

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