

SURE-SEAL® IP67
M8 SERIES CATALOG



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Technical Information

Wire Gauge Conversion Chart

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

Diameter			Area	
AWG	in.	mm	CMA	mm ^{2*}
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	mm ^{2*}
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

M8 Series With Molded Cable

1	2	3	4	5	6	7		
IPM8	-	A3	-	F	WL	-	1.5	U
SERIES	CODING & # CONTACTS	LOCKING SYSTEM	GENDER	ANGLE	ASSEMBLY LENGTH	CABLE SHEATH & SHIELDING		

SERIES

IPM8 = M8

CODING & # CONTACTS

A3 = 3 Contacts, A Coding
 A4 = 4 Contacts, A Coding
 B5 = 5 Contacts, B Coding
 A6 = 6 Contacts, A Coding
 A8 = 8 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 = 2 meters
 3 = 3 meters
 5 = 5 meters
 10 = 10 meters

CABLE SHEATH & SHIELDING

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

* Only available with 3 or 4 contacts with Unshielded PUR Cable

M8 Series Field Wireable Assemblies

1	2	3	4		
IPM8	-	A3	M	-	SCFT
SERIES	CODING & # CONTACTS	GENDER	TYPE		

SERIES

IPM8 = M8

CODING & # CONTACTS

A3 = 3 Contacts, A Coding
 A4 = 4 Contacts, A Coding

GENDER

F = Female
 M = Male

TYPE

SRFT-S = Screw Terminal Contacts, Shielded
 SCFT = Solder Contacts, Unshielded

How to Order

M8 Series Panel Mount

1		2	3		4
IPM8	-	A3	M	-	PC
SERIES		CODING & # CONTACTS	GENDER		TYPE

SERIES

IPM8 = M8

CODING & # CONTACTS

A3 = 3 Contacts, A Coding
 A4 = 4 Contacts, A Coding
 B5 = 5 Contacts, B Coding
 A6 = 6 Contacts, A Coding
 A8 = 8 Contacts, A Coding

GENDER

F = Female
 M = Male
 MI = Snap-in Male*

TYPE

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

* Only available with 3 or 4 contacts with Straight PC Tail Type

M8 Series Cable Assemblies

1		2	3		4	5
IPM8	-	A3	FM	-	0.5	U
SERIES		CODING & # CONTACTS	CONNECTOR GENDERS AND ANGLES		ASSEMBLY LENGTH	CABLE SHEATH

SERIES

IPM8 = M8 to M8
 IPM8-IPM12 = M8 to M12*

CODING & # CONTACTS

A3 = 3 Contacts, A Coding
 A4 = 4 Contacts, A Coding
 B5 = 5 Contacts, B Coding
 A6 = 6 Contacts, A Coding
 A8 = 8 Contacts, A Coding

CONNECTOR GENDERS AND ANGLES

FM = Straight Female to Straight Male
 FMRA = Straight Female to Male Right Angle (M8 to M8 only)
 FRAM = Female Right Angle to Straight Male

CONNECTOR GENDERS AND ANGLES (continued)

FRAMRA = Female Right Angle to Male Right Angle
 MF = Straight Male to Straight Female (M8 to M12 only)
 MFRA = Straight Male to Female Right Angle (M8 to M12 only)

ASSEMBLY LENGTH

0.5 = 0.5 meters
 1.5 = 1.5 meters
 3 = 3 meters

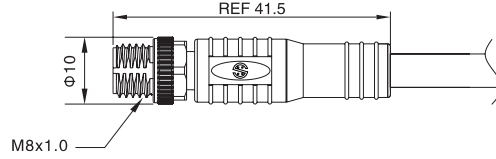
CABLE SHEATH

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

* Only available with 3 or 4 contacts

M8 Male Molded Cable, Straight

Connector series: M8
Gender: Male
Coding: A, B
Locking type: Fix screw
Mounting type: Straight
Part No.: IPM8-**-MWL-XXX



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

General Information

Standard:	IEC 61076-2-104	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-10°C ~ +80°C (fixed installation) -5°C ~ +80°C (flexible installation)	Contact resistance:	≤ 5mΩ
Connector insert:	TPU	Shielding:	No
Connector contacts:	Brass with gold plated	IP rating:	IP67 in locked condition
Connector overmold:	TPU		
Connector nut/screw:	Zinc alloy with nickel plated		

Electrical Data & Mechanical Data

Contacts	Rated Current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
		A/C	D/C	AWG	mm ²			
03 pins (A-coding)	3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
04 pins (A-coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
05 pins (B-coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
06 pins (A-coding)	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	
08 pins (A-coding)	1A	30V	30V	26AWG	0.14	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.

M8 Female Molded Cable, Straight

Connector series: M8

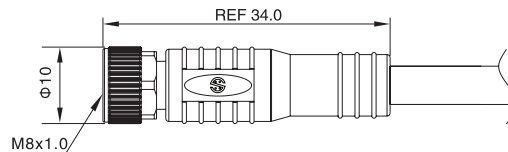
Gender: Female

Coding: A, B

Locking type: Fix screw

Mounting type: Straight

Part No.: IPM8-**-FWL-XXX



** refers to coding and number of contacts

X refers to cable length and material

General Information

Standard:	IEC 61076-2-104	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-10°C ~ +80°C (fixed installation) -5°C ~ +80°C (flexible installation)	Contact resistance:	≤ 5mΩ
Connector insert:	TPU; PA	Shielding:	No
Connector contacts:	Brass with gold plated	IP rating:	IP67 in locked condition
Connector overmold:	TPU		
Connector nut/screw:	Zinc alloy with nickel plated		
Seal / O-ring:	FKM		

Electrical Data & Mechanical Data

Contacts	Rated Current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
		A/C	D/C	AWG	mm ²			
03 pins (A-coding)	3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
04 pins (A-coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
05 pins (B-coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
06 pins (A-coding)	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	
08 pins (A-coding)	1A	30V	30V	26AWG	0.14	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.

M8 Male Molded Cable, Straight, Shielded

Connector series: M8

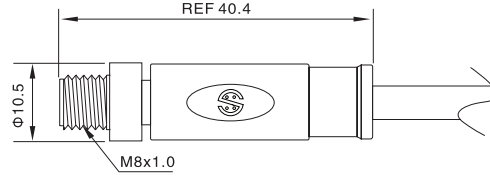
Gender: Male

Coding: A, B

Locking type: Fix screw

Mounting type: Straight

Part No.: IPM8-**-MWL-XXUS



** refers to coding and number of contacts

X refers to cable length

General Information

Standard:	IEC 61076-2-104	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-10°C ~ +80°C (fixed installation) -5°C ~ +80°C (flexible installation)	Contact resistance:	≤ 5mΩ
Connector insert:	TPU	Shielding:	Yes
Connector contacts:	Brass with gold plated	IP rating:	IP67 in locked condition
Connector overmold:	TPU		
Connector nut/screw:	Brass with nickel plated		

Electrical Data & Mechanical Data

Contacts	Rated Current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
		A/C	D/C	AWG	mm ²			
03 pins (A-coding)	3A	60V	60V	24AWG	0.25	PUR	PVC	Customized cable ending and length
04 pins (A-coding)	3A	30V	30V	24AWG	0.25	PUR	PVC	
05 pins (B-coding)	3A	30V	30V	24AWG	0.25	PUR	PVC	
06 pins (A-coding)	1A	30V	30V	26AWG	0.14	PUR	PVC	
08 pins (A-coding)	1A	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.

M8 Female Molded Cable, Straight, Shielded

Connector series: M8

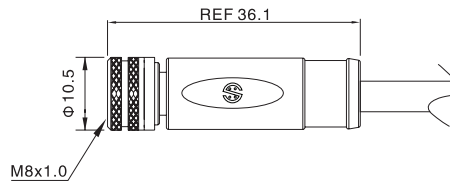
Gender: Female

Coding: A, B

Locking type: Fix screw

Mounting type: Straight

Part No.: IPM8-**-FWL-XXUS



** refers to coding and number of contacts

X refers to cable length

General Information

Standard:	IEC 61076-2-104	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-10°C ~ +80°C (fixed installation) -5°C ~ +80°C (flexible installation)	Contact resistance:	≤ 5mΩ
Connector insert:	TPU; PA	Shielding:	Yes
Connector contacts:	Brass with gold plated	IP rating:	IP67 in locked condition
Connector overmold:	TPU		
Connector nut/screw:	Brass with nickel plated		
Seal / O-ring:	FKM		

Electrical Data & Mechanical Data

Contacts	Rated Current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
		A/C	D/C	AWG	mm ²			
03 pins (A-coding)	3A	60V	60V	24AWG	0.25	PUR	PVC	Customized cable ending and length
04 pins (A-coding)	3A	30V	30V	24AWG	0.25	PUR	PVC	
05 pins (B-coding)	3A	30V	30V	24AWG	0.25	PUR	PVC	
06 pins (A-coding)	1A	30V	30V	26AWG	0.14	PUR	PVC	
08 pins (A-coding)	1A	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.

M8 Male Molded Cable, Straight, Snap-in Type

Connector series: M8

Gender: Male

Coding: A

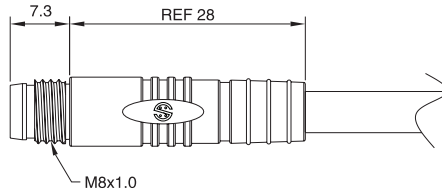
Locking type: Snap-in

Mounting type: Straight

Part No.: IPM8-**I-MWL-XXU

** refers to coding and number of contacts

X refers to cable length



General Information

Standard:	IEC 61076-2-104	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-10°C ~ +80°C (fixed installation) -5°C ~ +80°C (flexible installation)	Contact resistance:	≤ 5mΩ
Connector insert:	PA + GF	Shielding:	No
Connector contacts:	Brass with gold plated	IP rating:	IP65 in locked condition
Connector overmold:	TPU		

Electrical Data & Mechanical Data

Contacts	Rated Current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
		A/C	D/C	AWG	mm ²			
03 pins (A-coding)	3A	60V	60V	24AWG	0.25	PUR	PVC	Customized cable ending and length
04 pins (A-coding)	3A	30V	30V	24AWG	0.25	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.

M8 Female Molded Cable, Straight, Snap-in Type

Connector series: M8

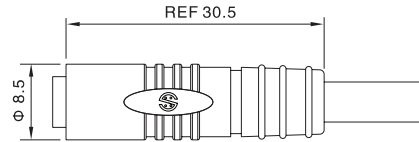
Gender: Female

Coding: A

Locking type: Snap-in

Mounting type: Straight

Part No.: IPM8-**I-FWL-XXU



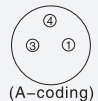
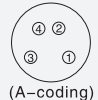
** refers to coding and number of contacts

X refers to cable length

General Information

Standard:	IEC 61076-2-104	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-10°C ~ +80°C (fixed installation) -5°C ~ +80°C (flexible installation)	Contact resistance:	≤ 5mΩ
Connector insert:	TPU; PA	Shielding:	No
Connector contacts:	Brass with gold plated	IP rating:	IP65 in locked condition
Connector overmold:	TPU		

Electrical Data & Mechanical Data

Contacts	Rated Current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
		A/C	D/C	AWG	mm ²			
03 pins  (A-coding)	3A	60V	60V	24AWG	0.25	PUR	PVC	Customized cable ending and length
04 pins  (A-coding)	3A	30V	30V	24AWG	0.25	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.

M8 Male Molded Cable, Angled

Connector series: M8

Gender: Male

Coding: A, B

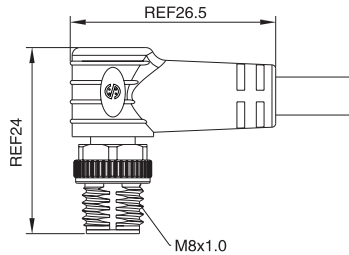
Locking type: Fix screw

Mounting type: Right angled

Part No.: IPM8-**-MRA-WL-XXX

** refers to coding and number of contacts

X refers to cable length and material



General Information

Standard:	IEC 61076-2-104	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-10°C ~ +80°C (fixed installation) -5°C ~ +80°C (flexible installation)	Contact resistance:	≤ 5mΩ
Connector insert:	TPU	Shielding:	No
Connector contacts:	Brass with gold plated	IP rating:	IP67 in locked condition
Connector overmold:	TPU		
Connector nut/screw:	Zinc alloy with nickel plated		

Electrical Data & Mechanical Data

Contacts	Rated Current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
		A/C	D/C	AWG	mm ²			
03 pins (A-coding)	3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
04 pins (A-coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
05 pins (B-coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
06 pins (A-coding)	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	06 Pin, 08 Pin with different overmold from above other pins
08 pins (A-coding)	1A	30V	30V	26AWG	0.14	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.

M8 Female Molded Cable, Angled

Connector series: M8

Gender: Female

Coding: A, B

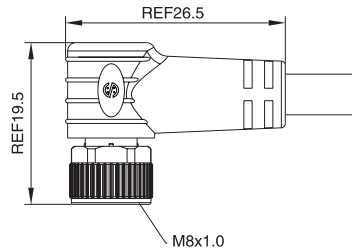
Locking type: Fix screw

Mounting type: Right angled

Part No.: IPM8-**-FRA-WL-XXX

** refers to coding and number of contacts

X refers to cable length and material



General Information

Standard:	IEC 61076-2-104	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-10°C ~ +80°C (fixed installation) -5°C ~ +80°C (flexible installation)	Contact resistance:	≤ 5mΩ
Connector insert:	TPU; PA	Shielding:	No
Connector contacts:	Brass with gold plated	IP rating:	IP67 in locked condition
Connector overmold:	TPU		
Connector nut/screw:	Zinc alloy with nickel plated		
Seal / O-ring:	FKM		

Electrical Data & Mechanical Data

Contacts	Rated Current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
		A/C	D/C	AWG	mm ²			
03 pins (A-coding)	3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
04 pins (A-coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
05 pins (B-coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
06 pins (A-coding)	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	
08 pins (A-coding)	1A	30V	30V	26AWG	0.14	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.

M8 Male Molded Cable, Angled, Shielded

Connector series: M8

Gender: Male

Coding: A, B

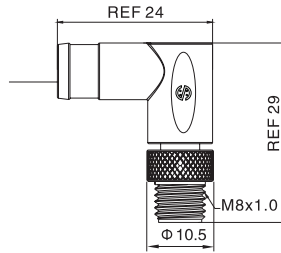
Locking type: Fix screw

Mounting type: Right angled

Part No.: IPM8-**-MRA-WL-XXUS

** refers to coding and number of contacts

X refers to cable length



General Information

Standard:	IEC 61076-2-104	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-10°C ~ +80°C (fixed installation) -5°C ~ +80°C (flexible installation)	Contact resistance:	≤ 5mΩ
Connector insert:	TPU	Shielding:	Yes (not 360° shielded)
Connector contacts:	Brass with gold plated	IP rating:	IP67 in locked condition
Connector overmold:	TPU		
Connector nut/screw:	Brass with nickel plated		

Electrical Data & Mechanical Data

Contacts	Rated Current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
		A/C	D/C	AWG	mm ²			
03 pins (A-coding)	3A	60V	60V	24AWG	0.25	PUR	PVC	Customized cable ending and length
04 pins (A-coding)	3A	30V	30V	24AWG	0.25	PUR	PVC	
05 pins (B-coding)	3A	30V	30V	24AWG	0.25	PUR	PVC	
06 pins (A-coding)	1A	30V	30V	26AWG	0.14	PUR	PVC	
08 pins (A-coding)	1A	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.

M8 Female Molded Cable, Angled, Shielded

Connector series: M8

Gender: Female

Coding: A, B

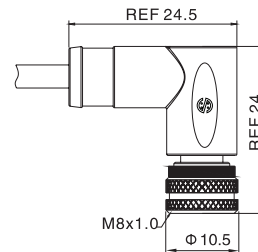
Locking type: Fix screw

Mounting type: Right angled

Part No.: IPM8-**-FRA-WL-XXUS

** refers to coding and number of contacts

X refers to cable length



General Information

Standard:	IEC 61076-2-104	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-10°C ~ +80°C (fixed installation) -5°C ~ +80°C (flexible installation)	Contact resistance:	≤ 5mΩ
Connector insert:	TPU; PA	Shielding:	Yes (not 360° shielded)
Connector contacts:	Brass with gold plated	IP rating:	IP67 in locked condition
Connector overmold:	TPU		
Connector nut/screw:	Zinc alloy with nickel plated		
Seal / O-ring:	FKM		

Electrical Data & Mechanical Data

Contacts	Rated Current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
		A/C	D/C	AWG	mm ²			
03 pins (A-coding)	3A	60V	60V	24AWG	0.25	PUR	PVC	Customized cable ending and length
04 pins (A-coding)	3A	30V	30V	24AWG	0.25	PUR	PVC	
05 pins (B-coding)	3A	30V	30V	24AWG	0.25	PUR	PVC	
06 pins (A-coding)	1A	30V	30V	26AWG	0.14	PUR	PVC	
08 pins (A-coding)	1A	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.

M8 Male Molded Cable, Angled, Snap-in Type

Connector series: M8

Gender: Male

Coding: A

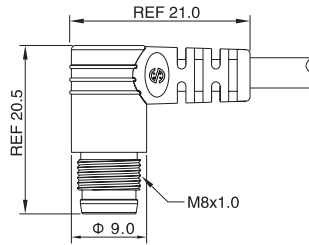
Locking type: Snap-in

Mounting type: Right angle

Part No.: IPM8-**I-MRA-WL-XXU

** refers to coding and number of contacts

X refers to cable length



General Information

Standard:	IEC 61076-2-104	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-10°C ~ +80°C (fixed installation) -5°C ~ +80°C (flexible installation)	Contact resistance:	≤ 5mΩ
Connector insert:	PA + GF	Shielding:	No
Connector contacts:	Brass with gold plated	IP rating:	IP65 in locked condition
Connector overmold:	TPU		

Electrical Data & Mechanical Data

Contacts	Rated Current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
		A/C	D/C	AWG	mm ²			
03 pins (A-coding)	3A	60V	60V	24AWG	0.25	PUR	PVC	Customized cable ending and length
04 pins (A-coding)	3A	30V	30V	24AWG	0.25	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.

M8 Female Molded Cable, Angled, Snap-in Type

Connector series: M8

Gender: Female

Coding: A

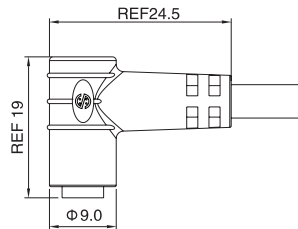
Locking type: Snap-in

Mounting type: Right angle

Part No.: IPM8-**I-FRA-WL-XXU

** refers to coding and number of contacts

X refers to cable length



General Information

Standard: IEC 61076-2-104

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: $\geq 100M\Omega$

Contact resistance: $\leq 5m\Omega$

Shielding: No

IP rating: IP65 in locked condition

Electrical Data & Mechanical Data

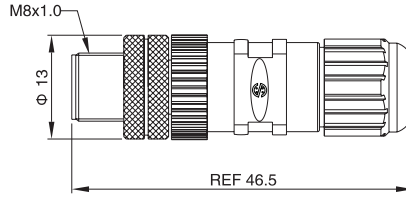
Contacts	Rated Current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
		A/C	D/C	AWG	mm ²			
03 pins (A-coding)	3A	60V	60V	24AWG	0.25	PUR	PVC	Customized cable ending and length
04 pins (A-coding)	3A	30V	30V	24AWG	0.25	PUR	PVC	

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.

M8 Male Field Wirable Assembly, Straight, Solder

Connector series: M8
Gender: Male
Coding: A
Locking type: Fix screw
Mounting type: Straight
Part No.: IPM8-**M-SCFT


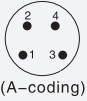


** refers to coding and number of contacts

General Information

Standard:	IEC 61076-2-104	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-25°C ~ +90°C	Contact resistance:	≤ 5mΩ
Connector insert/body:	TPU; PA	Shielding:	No
Connector contacts:	Brass with gold plated	Suitable cable dia:	3.5~5.0mm
Connector nut/screw:	Brass with nickel plated	IP rating:	IP67 in locked condition
Seal/O-ring:	FKM		

Electrical Data & Mechanical Data

Contacts	Contacts termination	Rated Current	Voltage		Wire gauge / size	
			A/C	D/C	AWG	mm ²
03 pins  (A-coding)	Solder version	3A	60V	60V	24AWG	0.25
04 pins  (A-coding)	Solder version	3A	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.

M8 Female Field Wirable Assembly, Straight, Solder

Connector series: M8

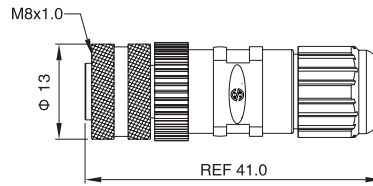
Gender: Female

Coding: A

Locking type: Fix screw

Mounting type: Straight

Part No.: IPM8-**F-SCFT

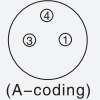
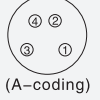


** refers to coding and number of contacts

General Information

Standard:	IEC 61076-2-104	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-25°C ~ +90°C	Contact resistance:	≤ 5mΩ
Connector insert/body:	TPU; PA	Shielding:	No
Connector contacts:	Brass with gold plated	Suitable cable dia:	3.5~5.0mm
Connector nut/screw:	Brass with nickel plated	IP rating:	IP67 in locked condition
Seal/O-ring:	FKM		

Electrical Data & Mechanical Data

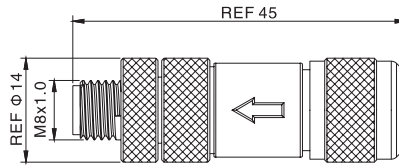
Contacts	Contacts termination	Rated Current	Voltage		Wire gauge / size	
			A/C	D/C	AWG	mm ²
03 pins  (A-coding)	Solder version	3A	60V	60V	24AWG	0.25
04 pins  (A-coding)	Solder version	3A	30V	30V	24AWG	0.25

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.

M8 Male Field Wirable Assembly, Straight, Screw joint, Shielded

Connector series: M8
Gender: Male
Coding: A
Locking type: Fix screw
Mounting type: Straight
Part No.: IPM8-**M-SRFT-S



** refers to coding and number of contacts

General Information

Standard:	IEC 61076-2-104	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-25°C ~ +90°C	Contact resistance:	≤ 5mΩ
Connector insert/body:	PA	Shielding:	Yes
Connector contacts:	Brass with gold plated	Suitable cable dia:	3.5~4.5mm
Connector nut/screw:	Brass with nickel plated	IP rating:	IP67 in locked condition
Connector body:	Zinc alloy with nickel plated		
Seal/O-ring:	FKM		

Electrical Data & Mechanical Data

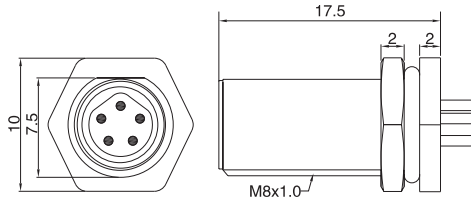
Contacts		Contacts termination	Rated Current	Voltage		Wire gauge / size	
				A/C	D/C	AWG	mm ²
03 pins		Screw joint	3A	60V	60V	24AWG	0.25
04 pins		Screw joint	3A	30V	30V	24AWG	0.25

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.

M8 Male Panel Mount, PCB Type, Front Fastened

Connector series: M8
Gender: Male
Coding: A, B
Locking type: Fix screw
Mounting type: Front fastening
Part No.: IPM8-**M-PC



** refers to coding and number of contacts

General Information

Standard:	IEC 61076-2-104	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-25°C ~ +90°C	Contact resistance:	≤ 5mΩ
Connector insert/body:	TPU	Shielding:	No
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 44
Seal/O-ring:	Epoxy resin/FKM	PCB layout:	Refer to page 43

Electrical Data & Mechanical Data

Contacts	Contacts termination	Rated Current	Voltage	
			A/C	D/C
03 pins (A-coding)	PCB version	3A	60V	60V
04 pins (A-coding)	PCB version	3A	30V	30V
05 pins (B-coding)	PCB version	3A	30V	30V
06 pins (A-coding)	PCB version	1A	30V	30V
08 pins (A-coding)	PCB version	1A	30V	30V

Notes

- Please refer to Page 6 for part number breakdown.

M8 Female Panel Mount, PCB Type, Front Fastened

Connector series: M8

Gender: Female

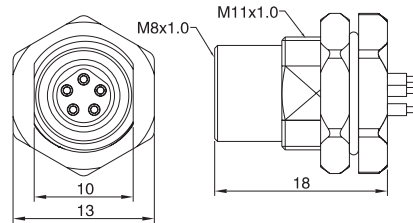
Coding: A, B

Locking type: Fix screw

Mounting type: Front fastening

Part No.: IPM8-**F-PC

** refers to coding and number of contacts



General Information

Standard:	IEC 61076-2-104	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-25°C ~ +90°C	Contact resistance:	≤ 5mΩ
Connector insert/body:	TPU	Shielding:	No
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 44
Seal/O-ring:	Epoxy resin/FKM	PCB layout:	Refer to page 43

Electrical Data & Mechanical Data

Contacts		Contacts termination	Rated Current	Voltage	
				A/C	D/C
03 pins	 (A-coding)	PCB version	3A	60V	60V
04 pins	 (A-coding)	PCB version	3A	30V	30V
05 pins	 (B-coding)	PCB version	3A	30V	30V
06 pins	 (A-coding)	PCB version	1A	30V	30V
08 pins	 (A-coding)	PCB version	1A	30V	30V

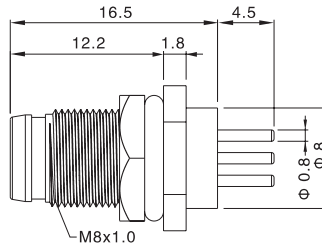
Notes

- Please refer to Page 6 for part number breakdown.

M8 Male Panel Mount, PCB Type, Front Fastened, Snap-in Type

Connector series: M8
Gender: Male
Coding: A
Locking type: Snap-in
Mounting type: Front fastened
Part No.: IPM8-**MI-PC



** refers to coding and number of contacts



General Information

Standard:	IEC 61076-2-104	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-25°C ~ +90°C	Contact resistance:	≤ 5mΩ
Connector insert/body:	TPU	Shielding:	No
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 44
Seal/O-ring:	Epoxy resin/FKM	PCB layout:	Refer to page 43

Electrical Data & Mechanical Data

Contacts	Contacts termination	Rated Current	Voltage	
			A/C	D/C
03 pins  (A-coding)	PCB version	3A	60V	60V
04 pins  (A-coding)	PCB version	3A	30V	30V

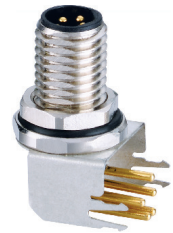
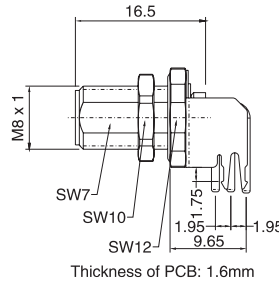
Notes

- Please refer to Page 6 for part number breakdown.

M8 Male Panel Mount, Angled, PCB Type, Front Fastened, Shielded

Connector series: M8
 Gender: Male
 Coding: A, B
 Locking type: Fix screw
 Mounting type: Front fastened
 Part No.: IPM8-**M-PCRA-S

** refers to coding and number of contacts



General Information

Standard:	IEC 61076-2-104	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-25°C ~ +90°C	Contact resistance:	≤ 5mΩ
Connector insert/body:	TPU	Shielding:	Yes
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 44
Seal/O-ring:	Epoxy resin/FKM	PCB layout:	Refer to page 43

Electrical Data & Mechanical Data

Contacts	Contacts termination	Rated Current	Voltage	
			A/C	D/C
03 pins (A-coding)	PCB version	3A	60V	60V
04 pins (A-coding)	PCB version	3A	30V	30V
05 pins (B-coding)	PCB version	3A	30V	30V

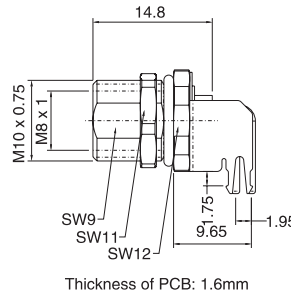
Notes

- Please refer to Page 6 for part number breakdown.

M8 Female Panel Mount, Angled, PCB Type, Front Fastened, Shielded

Connector series: M8
Gender: Female
Coding: A, B
Locking type: Fix screw
Mounting type: Front fastened
Part No.: IPM8-**F-PCRA-S

** refers to coding and number of contacts



General Information

Standard:	IEC 61076-2-104	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-25°C ~ +90°C	Contact resistance:	≤ 5mΩ
Connector insert/body:	PA + GF	Shielding:	Yes
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 44
Seal/O-ring:	Epoxy resin/FKM	PCB layout:	Refer to page 43

Electrical Data & Mechanical Data

Contacts	Contacts termination	Rated Current	Voltage	
			A/C	D/C
03 pins  (A-coding)	PCB version	3A	60V	60V
04 pins  (A-coding)	PCB version	3A	30V	30V
05 pins  (B-coding)	PCB version	3A	30V	30V

Notes

- Please refer to Page 6 for part number breakdown.

M8 Male Panel Mount, Flying Leads, Front Fastened

Connector series: M8

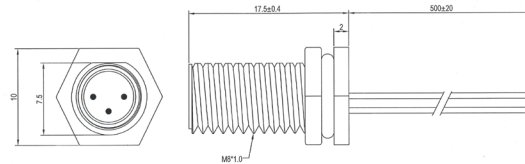
Gender: Male

Coding: A, B

Locking type: Fix screw

Mounting type: Front fastening

Part No.: IPM8-**-M-FL



** refers to coding and number of contacts

General Information

Standard:	IEC 61076-2-104	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-25°C ~ +90°C	Contact resistance:	≤ 5mΩ
Connector insert/body:	TPU	Shielding:	No
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 44
Seal/O-ring:	Epoxy resin/FKM		

Electrical Data & Mechanical Data

Contacts	Rated Current	Voltage		Wire gauge / size		Wire insulation
		A/C	D/C	AWG	mm ²	
03 pins (A-coding)	3A	60V	60V	24AWG	0.25	PVC
04 pins (A-coding)	3A	30V	30V	24AWG	0.25	PVC
05 pins (B-coding)	3A	30V	30V	24AWG	0.25	PVC
06 pins (A-coding)	1A	30V	30V	26AWG	0.14	PVC
08 pins (A-coding)	1A	30V	30V	26AWG	0.14	PVC

Notes

- Please refer to Page 6 for part number breakdown.

M8 Female Panel Mount, Flying Leads, Front Fastened

Connector series: M8

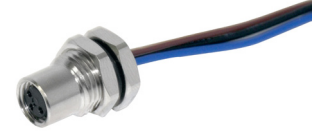
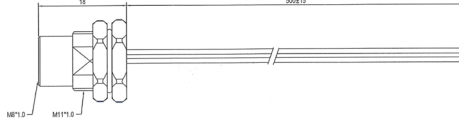
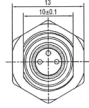
Gender: Female

Coding: A, B

Locking type: Fix screw

Mounting type: Front fastening

Part No.: IPM8-**F-FL



** refers to coding and number of contacts

General Information

Standard:	IEC 61076-2-104
Ambient temperature:	-25°C ~ +90°C
Connector insert/body:	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:	No
IP rating:	IP67 in locked condition
Panel cut-out:	Refer to page 44

Electrical Data & Mechanical Data

Contacts		Rated Current	Voltage		Wire gauge / size		Wire insulation
			A/C	D/C	AWG	mm ²	
03 pins	 (A-coding)	3A	60V	60V	24AWG	0.25	PVC
04 pins	 (A-coding)	3A	30V	30V	24AWG	0.25	PVC
05 pins	 (B-coding)	3A	30V	30V	24AWG	0.25	PVC
06 pins	 (A-coding)	1A	30V	30V	26AWG	0.14	PVC
08 pins	 (A-coding)	1A	30V	30V	26AWG	0.14	PVC

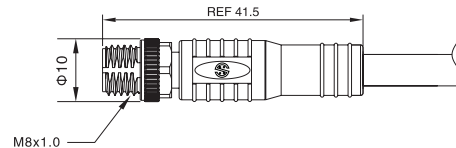
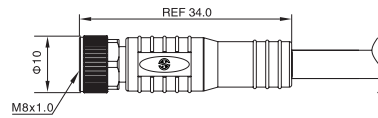
Notes

- Please refer to Page 6 for part number breakdown.

M8 Straight Female to M8 Straight Male Cable Assembly

Connector series: M8
Gender: Female to Male
Coding: A
Locking type: Fix screw
Mounting type: Straight
Part No.: IPM8-**-FM-XXX

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



General Information

Standard:	IEC 61076-2-104	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-10°C ~ +80°C (fixed installation) -5°C ~ +80°C (flexible installation)	Contact resistance:	≤ 5mΩ
Connector insert:	TPU	Shielding:	No
Connector contacts:	Brass with gold plated	IP rating:	IP67 in locked condition
Connector overmold:	TPU		
Connector nut/screw:	Zinc alloy with nickel plated		

Electrical Data & Mechanical Data

	Contacts		Rated Current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Length
	Female	Male		A/C	D/C	AWG	mm ²			
03 pins	 (A-coding)	 (A-coding)	3A	60V	60V	24AWG	0.25	PUR	PVC	Customized cable ending and length
04 pins	 (A-coding)	 (A-coding)	3A	30V	30V	24AWG	0.25	PUR	PVC	
05 pins	 (B-coding)	 (B-coding)	3A	30V	30V	24AWG	0.25	PUR	PVC	
06 pins	 (A-coding)	 (A-coding)	1A	30V	30V	26AWG	0.14	PUR	PVC	
08 pins	 (A-coding)	 (A-coding)	1A	30V	30V	26AWG	0.14	PUR	PVC	

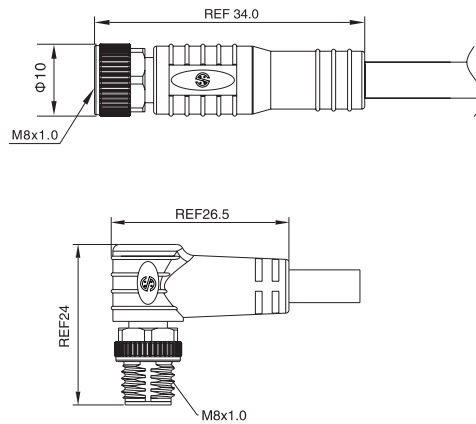
Notes

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

M8 Straight Female to M8 Right Angle Male Cable Assembly

Connector series: M8
Gender: Female to Male
Coding: A
Locking type: Fix screw
Mounting type: Straight to Right Angle
Part No.: IPM8-**-FMRA-XXX

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



General Information

Standard:	IEC 61076-2-104	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-10°C ~ +80°C (fixed installation) -5°C ~ +80°C (flexible installation)	Contact resistance:	≤ 5mΩ
Connector insert:	TPU	Shielding:	No
Connector contacts:	Brass with gold plated	IP rating:	IP67 in locked condition
Connector overmold:	TPU		
Connector nut/screw:	Zinc alloy with nickel plated		

Electrical Data & Mechanical Data

	Contacts		Rated Current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Length
	Female	Male		A/C	D/C	AWG	mm ²			
03 pins	 (A-coding)	 (A-coding)	3A	60V	60V	24AWG	0.25	PUR	PVC	Customized cable ending and length
04 pins	 (A-coding)	 (A-coding)	3A	30V	30V	24AWG	0.25	PUR	PVC	
05 pins	 (B-coding)	 (B-coding)	3A	30V	30V	24AWG	0.25	PUR	PVC	
06 pins	 (A-coding)	 (A-coding)	1A	30V	30V	26AWG	0.14	PUR	PVC	
08 pins	 (A-coding)	 (A-coding)	1A	30V	30V	26AWG	0.14	PUR	PVC	

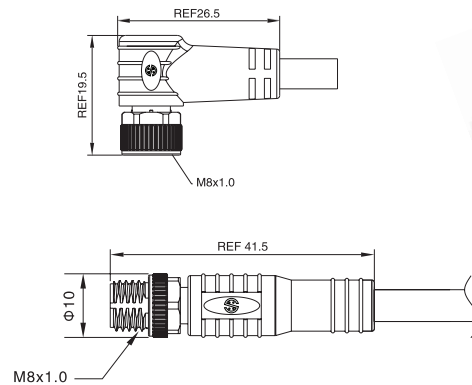
Notes

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

M8 Right Angle Female to M8 Straight Male Cable Assembly

Connector series: M8
 Gender: Female to Male
 Coding: A
 Locking type: Fix screw
 Mounting type: Right Angle to Straight
 Part No.: IPM8-**-FRAM-XXX

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



General Information

Standard:	IEC 61076-2-104	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-10°C ~ +80°C (fixed installation) -5°C ~ +80°C (flexible installation)	Contact resistance:	≤ 5mΩ
Connector insert:	TPU; PA	Shielding:	No
Connector contacts:	Brass with gold plated	IP rating:	IP67 in locked condition
Connector overmold:	TPU		
Connector nut/screw:	Zinc alloy with nickel plated		
Seal / O-ring:	FKM		

Electrical Data & Mechanical Data

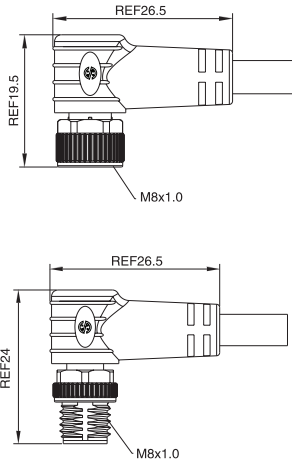
	Contacts		Rated Current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Length
	Female	Male		A/C	D/C	AWG	mm ²			
03 pins			3A	60V	60V	24AWG	0.25	PUR	PVC	Customized cable ending and length
04 pins			3A	30V	30V	24AWG	0.25	PUR	PVC	
05 pins			3A	30V	30V	24AWG	0.25	PUR	PVC	
06 pins			1A	30V	30V	26AWG	0.14	PUR	PVC	
08 pins			1A	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 6 for part number breakdown.

M8 Right Angle Female to M8 Right Angle Male Cable Assembly

Connector series: M8
 Gender: Female to Male
 Coding: A
 Locking type: Fix screw
 Mounting type: Right angled
 Part No.: IPM8-**-FRAMRA-XXX
 ** refers to coding and number of contacts
 X refers to cable length and material



General Information

Standard:	IEC 61076-2-104	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-10°C ~ +80°C (fixed installation) -5°C ~ +80°C (flexible installation)	Contact resistance:	≤ 5mΩ
Connector insert:	TPU	Shielding:	No
Connector contacts:	Brass with gold plated	IP rating:	IP67 in locked condition
Connector overmold:	TPU		
Connector nut/screw:	Zinc alloy with nickel plated		

Electrical Data & Mechanical Data

	Contacts		Rated Current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Length
	Female	Male		A/C	D/C	AWG	mm ²			
03 pins	(A-coding)	(A-coding)	3A	60V	60V	24AWG	0.25	PUR	PVC	Customized cable ending and length
04 pins	(A-coding)	(A-coding)	3A	30V	30V	24AWG	0.25	PUR	PVC	
05 pins	(B-coding)	(B-coding)	3A	30V	30V	24AWG	0.25	PUR	PVC	
06 pins	(A-coding)	(A-coding)	1A	30V	30V	26AWG	0.14	PUR	PVC	
08 pins	(A-coding)	(A-coding)	1A	30V	30V	26AWG	0.14	PUR	PVC	

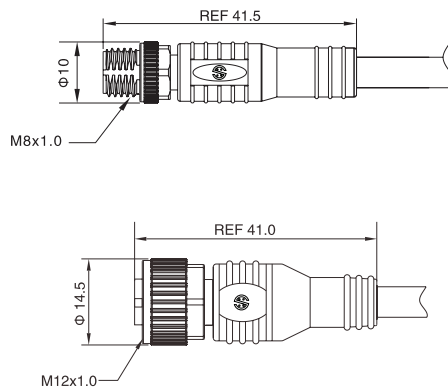
Notes

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

M8 Straight Male to M12 Straight Female Cable Assembly

Connector series: M8 to M12
 Gender: Male to Female
 Coding: A
 Locking type: Fix screw
 Mounting type: Straight
 Part No.: IPM8-IPM12-**-MF-XXX

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



General Information

Standard:	IEC 61076-2-104 (M8) IEC 61076-2-101 (M12)	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-10°C ~ +80°C (fixed installation) -5°C ~ +80°C (flexible installation)	Contact resistance:	≤ 5mΩ
Connector insert:	TPU (M8), TPU & PA (M12)	Shielding:	No
Connector contacts:	Brass with gold plated	IP rating:	IP67 in locked condition
Connector overmold:	TPU		
Connector nut/screw:	Zinc alloy with nickel plated		

Electrical Data & Mechanical Data

Contacts	Coding A		Rated Current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Length
	Male	Female		A/C	D/C	AWG	mm ²			
03 pins			3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized length
04 pins			3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	

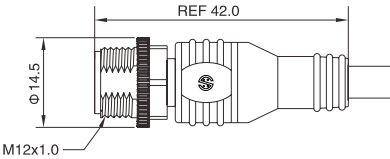
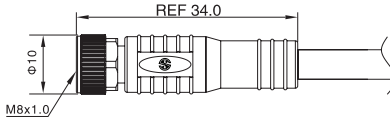
Notes

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

M8 Straight Female to M12 Straight Male Cable Assembly

Connector series: M8 to M12
Gender: Female to Male
Coding: A
Locking type: Fix screw
Mounting type: Straight
Part No.: IPM8-IPM12-**-FM-XXX

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



General Information

Standard:	IEC 61076-2-104 (M8) IEC 61076-2-101 (M12)	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-10°C ~ +80°C (fixed installation) -5°C ~ +80°C (flexible installation)	Contact resistance:	≤ 5mΩ
Connector insert:	TPU; PA (M8), TPU (M12)	Shielding:	No
Connector contacts:	Brass with gold plated	IP rating:	IP67 in locked condition
Connector overmold:	TPU		
Connector nut/screw:	Zinc alloy with nickel plated		
Seal / O-ring:	FKM		

Electrical Data & Mechanical Data

Contacts	Coding A	Coding A	Rated Current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Length
				A/C	D/C	AWG	mm ²			
03 pins	Female	Male	3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized length
04 pins	Female	Male	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	

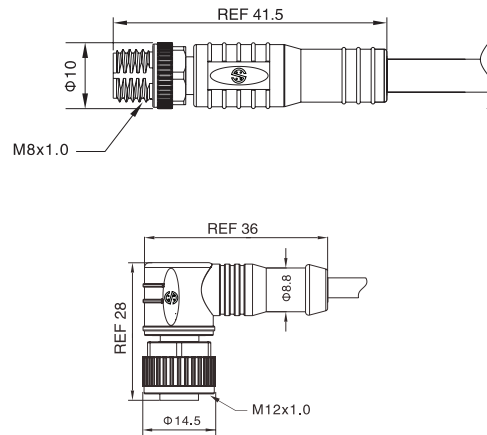
Notes

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

M8 Straight Male to M12 Right Angle Female Cable Assembly

Connector series: M8 to M12
 Gender: Male to Female
 Coding: A
 Locking type: Fix screw
 Mounting type: Straight to Right Angle
 Part No.: IPM8-IPM12-**-MFRA-XXX

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



General Information

Standard:	IEC 61076-2-104 (M8) IEC 61076-2-101 (M12)	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-10°C ~ +80°C (fixed installation) -5°C ~ +80°C (flexible installation)	Contact resistance:	≤ 5mΩ
Connector insert:	TPU (M8), TPU & PA (M12)	Shielding:	No
Connector contacts:	Brass with gold plated	IP rating:	IP67 in locked condition
Connector overmold:	TPU		
Connector nut/screw:	Zinc alloy with nickel plated		

Electrical Data & Mechanical Data

Contacts	Coding A	Coding A	Rated Current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Length
	Male	Female		A/C	D/C	AWG	mm ²			
03 pins			3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized length
04 pins			3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	

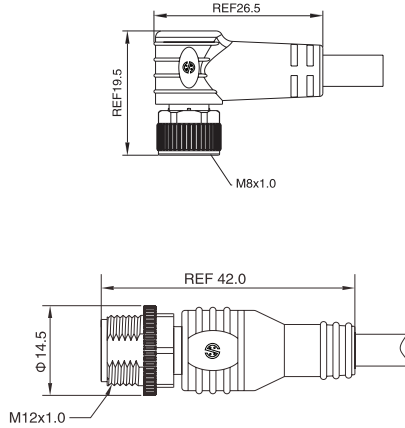
Notes

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

M8 Right Angle Female to M12 Straight Male Cable Assembly

Connector series: M8 to M12
 Gender: Female to Male
 Coding: A
 Locking type: Fix screw
 Mounting type: Right Angle to Straight
 Part No.: IPM8-IPM12-**-FRAM-XXX

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



General Information

Standard:	IEC 61076-2-104 (M8) IEC 61076-2-101 (M12)	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-10°C ~ +80°C (fixed installation) -5°C ~ +80°C (flexible installation)	Contact resistance:	≤ 5mΩ
Connector insert:	TPU; PA (M8), TPU (M12)	Shielding:	No
Connector contacts:	Brass with gold plated	IP rating:	IP67 in locked condition
Connector overmold:	TPU		
Connector nut/screw:	Zinc alloy with nickel plated		
Seal / O-ring:	FKM		

Electrical Data & Mechanical Data

Contacts	Coding A	Coding A	Rated Current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Length
				A/C	D/C	AWG	mm ²			
03 pins	Female	Male	3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized length
04 pins	Female	Male	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	

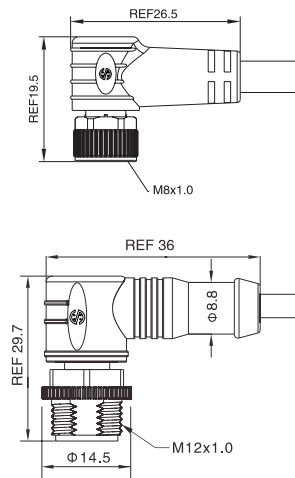
Notes

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

M8 Right Angle Female to M12 Right Angle Male Cable Assembly

Connector series: M8 to M12
 Gender: Female to Male
 Coding: A
 Locking type: Fix screw
 Mounting type: Right Angle
 Part No.: IPM8-IPM12-**-FRAMRA-XXX

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



General Information

Standard:	IEC 61076-2-104 (M8) IEC 61076-2-101 (M12)	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-10°C ~ +80°C (fixed installation) -5°C ~ +80°C (flexible installation)	Contact resistance:	≤ 5mΩ
Connector insert:	TPU; PA (M8), TPU (M12)	Shielding:	No
Connector contacts:	Brass with gold plated	IP rating:	IP67 in locked condition
Connector overmold:	TPU		
Connector nut/screw:	Zinc alloy with nickel plated		
Seal / O-ring:	FKM		

Electrical Data & Mechanical Data

Contacts	Coding A	Coding A	Rated Current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Length
	Female	Male		A/C	D/C	AWG	mm ²			
03 pins			3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized length
04 pins			3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	

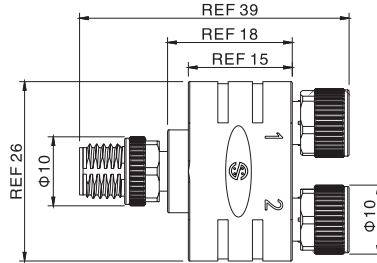
Notes

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

M8 Y-Splitter, Male-2*Female

Connector series: M8
Gender: Female & Male
Coding: A
Locking type: Fix screw
Mounting type: Straight
Part No.: IPM8-YSPLT-A*-MFF

* refers to number of contacts



M8 Y-Splitter

General Information

Ambient temperature:	-20°C ~ +80°C	Insulation resistance:	≥ 100MΩ
Connector insert:	PA + GF / TPU	Contact resistance:	≤ 5mΩ
Connector contacts:	Brass with gold plated	Shielding:	No
Connector screw/nut:	Zinc alloy with gold plated	IP rating:	IP67 in locked condition
Innermold:	PP		
Overmold:	PVC		
O-ring:	FKM		

Electrical Data & Mechanical Data

Contacts		Wire List	Rated Current	Voltage	
				A/C	D/C
IPM8-YSPLT-A3-MFF			3A	60V	60V
IPM8-YSPLT-A4-MFF			3A	30V	30V

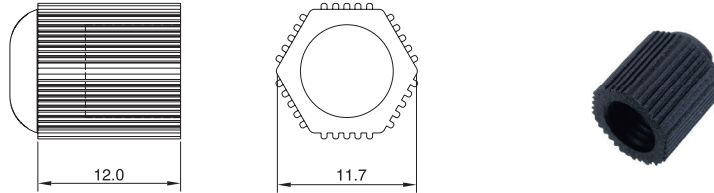
M8 Protection Cap for Male Connector

Connector series: M8

Gender: for Male

Locking type: Fix screw

Part No.: IPM8-CAP-M



General Information

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

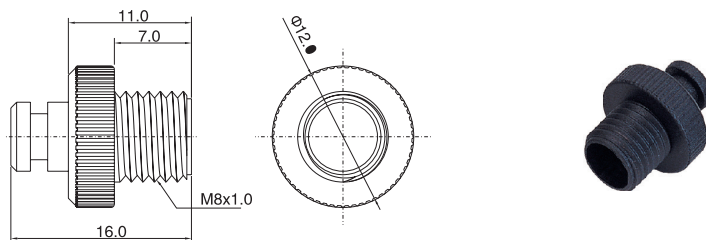
M8 Protection Cap for Female Connector

Connector series: M8

Gender: for Female

Locking type: Fix screw

Part No.: IPM8-CAP-F

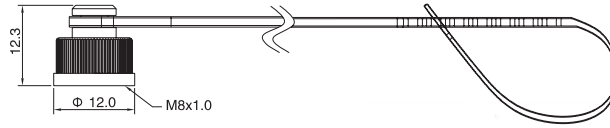


General Information

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

M8 Protection Cap for Male Molded Cable Connector

Connector series: M8
Gender: for Male
Locking type: Fix screw
Part No.: IPM8-CAP-M-CA

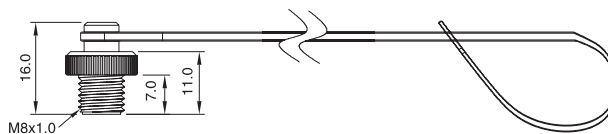


General Information

Material:	PA + GF
Gasket:	FKM
Loop:	TPU
Color:	Black
Degree of protection:	IP67 in locked condition

M8 Protection Cap for Female Molded Cable Connector

Connector series: M8
Gender: for Female
Locking type: Fix screw
Part No.: IPM8-CAP-F-CA

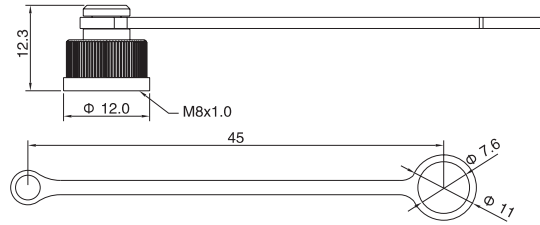


General Information

Material:	PA + GF
Loop:	TPU
Color:	Black
Degree of protection:	IP67/IP68 in locked condition

M8 Protection Cap for Male Panel-mount Connector

Connector series: M8
Gender: for Male
Locking type: Fix screw
Part No.: IPM8-CAP-M-PNL

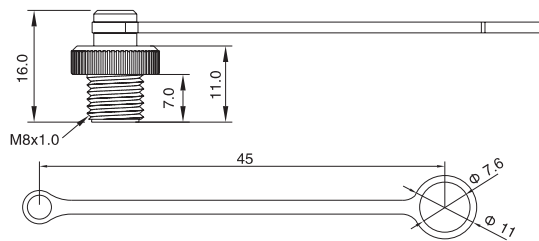


General Information

Material:	PA + GF
Gasket:	FKM
Loop	TPU
Color:	Black
Degree of protection:	IP67 in locked condition

M8 Protection Cap for Female Panel-mount Connector

Connector series: M8
Gender: for Female
Locking type: Fix screw
Part No.: IPM8-CAP-F-PNL



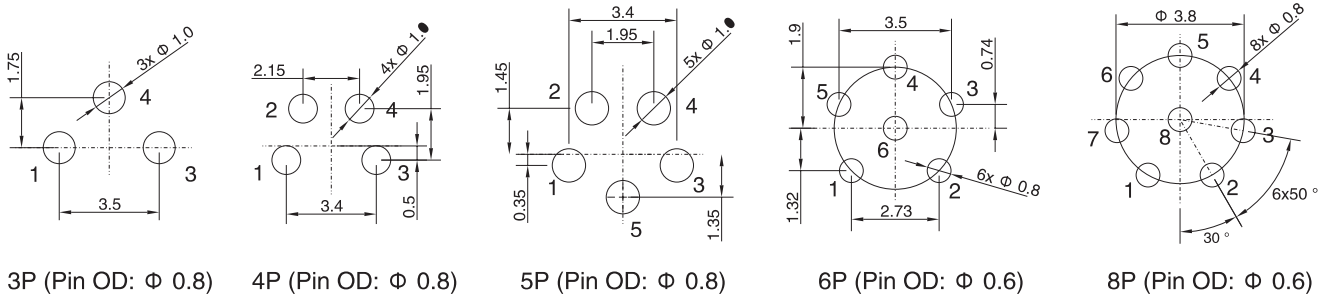
General Information

Material:	PA + GF
Loop	TPU
Color:	Black
Degree of protection:	IP67/IP68 in locked condition

M8 PCB Layout & Panel Cut-out

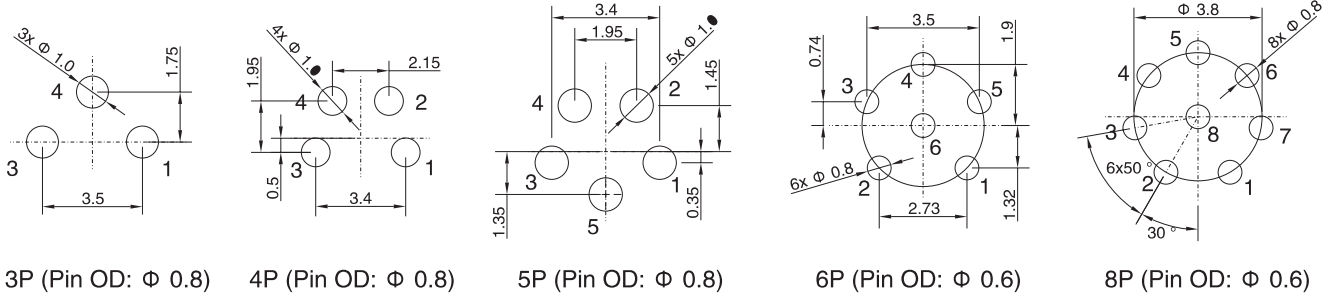
PCB Layout

M8 Male Connector



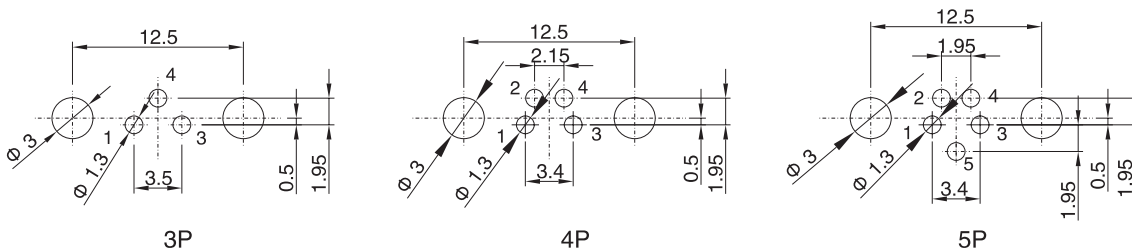
Recommended PCB layout

M8 Female Connector



Recommended PCB layout

M8 Male Right Angled Connector

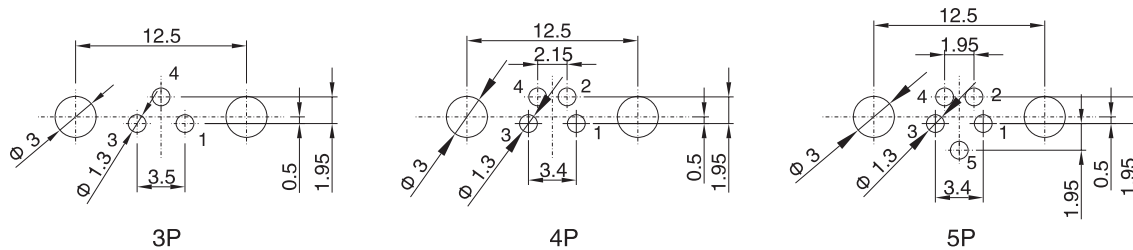


Recommended PCB layout

M8 PCB Layout & Panel Cut-out

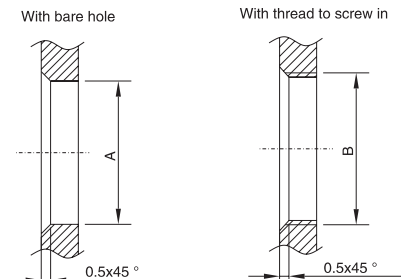
PCB Layout

M8 Female Right Angled Connector



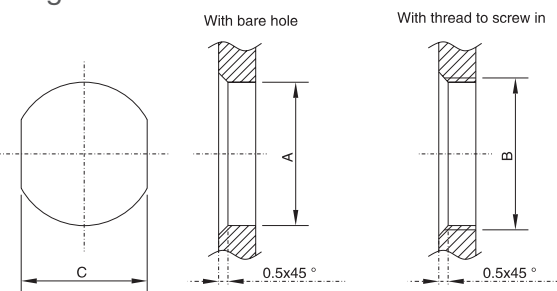
Recommended PCB layout

Panel Cut-out Dimensions



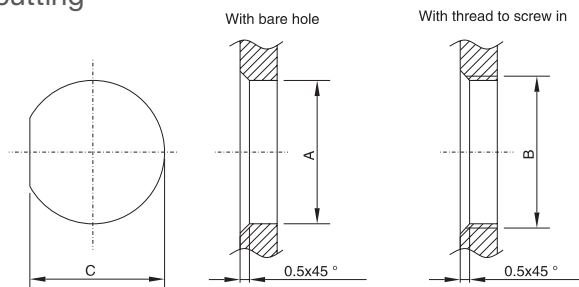
	A	B
M8	8.0 $^{+0.1}_{-0}$	M8x0.5
M8	8.0 $^{+0.1}_{-0}$	M8x1.0
M11	11.0 $^{+0.1}_{-0}$	M11x1.0

H-cutting



	A	B	C
M8	8.0 $^{+0.1}_{-0}$	M8x0.5	7.1 $^{+0.1}_{-0}$
M8	8.0 $^{+0.1}_{-0}$	M8x0.5	7.4 $^{+0.1}_{-0}$
M8	8.0 $^{+0.1}_{-0}$	M8x1.0	7.1 $^{+0.1}_{-0}$
M10	10.0 $^{+0.1}_{-0}$	M10x0.75	9.1 $^{+0.1}_{-0}$
M11	11.0 $^{+0.1}_{-0}$	M11x1.0	10.1 $^{+0.1}_{-0}$

D-cutting



	A	B	C
M8	8.0 $^{+0.1}_{-0}$	M8x1.0	7.6 $^{+0.1}_{-0}$

Part Numbers

All M8 Series P/Ns	Catalog Page
IPM8-A3F-FL	29
IPM8-A3-FM-0.5	30
IPM8-A3-FM-0.5U	30
IPM8-A3-FM-1.5	30
IPM8-A3-FM-1.5U	30
IPM8-A3-FM-3	30
IPM8-A3-FM-3U	30
IPM8-A3-FMRA-0.5	31
IPM8-A3-FMRA-0.5U	31
IPM8-A3-FMRA-1.5	31
IPM8-A3-FMRA-1.5U	31
IPM8-A3-FMRA-3	31
IPM8-A3-FMRA-3U	31
IPM8-A3F-PC	24
IPM8-A3F-PCRA-S	27
IPM8-A3-FRAM-0.5	32
IPM8-A3-FRAM-0.5U	32
IPM8-A3-FRAM-1.5	32
IPM8-A3-FRAM-1.5U	32
IPM8-A3-FRAM-3	32
IPM8-A3-FRAM-3U	32
IPM8-A3-FRAMRA-0.5	33
IPM8-A3-FRAMRA-0.5U	33
IPM8-A3-FRAMRA-1.5	33
IPM8-A3-FRAMRA-1.5U	33
IPM8-A3-FRAMRA-3	33
IPM8-A3-FRAMRA-3U	33
IPM8-A3-FRA-WL-1.5	14
IPM8-A3-FRA-WL-1.5U	14
IPM8-A3-FRA-WL-1.5US	16

All M8 Series P/Ns	Catalog Page
IPM8-A3-FRA-WL-10	14
IPM8-A3-FRA-WL-10U	14
IPM8-A3-FRA-WL-10US	16
IPM8-A3-FRA-WL-3	14
IPM8-A3-FRA-WL-3U	14
IPM8-A3-FRA-WL-3US	16
IPM8-A3-FRA-WL-5	14
IPM8-A3-FRA-WL-5U	14
IPM8-A3-FRA-WL-5US	16
IPM8-A3F-SCFT	20
IPM8-A3F-SRFT-S	22
IPM8-A3-FWL-1.5	8
IPM8-A3-FWL-1.5U	8
IPM8-A3-FWL-1.5US	10
IPM8-A3-FWL-10	8
IPM8-A3-FWL-10U	8
IPM8-A3-FWL-10US	10
IPM8-A3-FWL-3	8
IPM8-A3-FWL-3U	8
IPM8-A3-FWL-3US	10
IPM8-A3-FWL-5	8
IPM8-A3-FWL-5U	8
IPM8-A3-FWL-5US	10
IPM8-A3I-FRA-WL-2U	18
IPM8-A3I-FWL-2U	12
IPM8-A3I-MRA-WL-2U	17
IPM8-A3I-MWL-2U	11
IPM8-A3M-FL	28
IPM8-A3MI-PC	25
IPM8-A3M-PC	23

All M8 Series P/Ns	Catalog Page
IPM8-A3M-PCRA-S	26
IPM8-A3-MRA-WL-1.5	13
IPM8-A3-MRA-WL-1.5U	13
IPM8-A3-MRA-WL-1.5US	9
IPM8-A3-MRA-WL-10	13
IPM8-A3-MRA-WL-10U	13
IPM8-A3-MRA-WL-10US	15
IPM8-A3-MRA-WL-3	13
IPM8-A3-MRA-WL-3U	13
IPM8-A3-MRA-WL-3US	15
IPM8-A3-MRA-WL-5	13
IPM8-A3-MRA-WL-5U	13
IPM8-A3-MRA-WL-5US	15
IPM8-A3M-SCFT	19
IPM8-A3M-SRFT-S	21
IPM8-A3-MWL-1.5	7
IPM8-A3-MWL-1.5U	7
IPM8-A3-MWL-1.5US	9
IPM8-A3-MWL-10	7
IPM8-A3-MWL-10U	7
IPM8-A3-MWL-10US	9
IPM8-A3-MWL-3	7
IPM8-A3-MWL-3U	7
IPM8-A3-MWL-3US	9
IPM8-A3-MWL-5	7
IPM8-A3-MWL-5U	7
IPM8-A3-MWL-5US	9
IPM8-A4F-FL	29
IPM8-A4-FM-0.5	30
IPM8-A4-FM-0.5U	30

Part Numbers

Part Numbers

All M8 Series P/Ns	Catalog Page
IPM8-A4-FM-1.5	30
IPM8-A4-FM-1.5U	30
IPM8-A4-FM-3	30
IPM8-A4-FM-3U	30
IPM8-A4-FMRA-0.5	31
IPM8-A4-FMRA-0.5U	31
IPM8-A4-FMRA-1.5	31
IPM8-A4-FMRA-1.5U	31
IPM8-A4-FMRA-3	31
IPM8-A4-FMRA-3U	31
IPM8-A4F-PC	24
IPM8-A4F-PCRA-S	27
IPM8-A4-FRAM-0.5	32
IPM8-A4-FRAM-0.5U	32
IPM8-A4-FRAM-1.5	32
IPM8-A4-FRAM-1.5U	32
IPM8-A4-FRAM-3	32
IPM8-A4-FRAM-3U	32
IPM8-A4-FRAMRA-0.5	33
IPM8-A4-FRAMRA-0.5U	33
IPM8-A4-FRAMRA-1.5	33
IPM8-A4-FRAMRA-1.5U	33
IPM8-A4-FRAMRA-3	33
IPM8-A4-FRAMRA-3U	33
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