

With a high degree of mechanical and electrical stability, **Bulgin's M12 connectors** provide a **cost effective** and **flexible connectivity solution** for onsite installations, helping to **decrease downtime** in process control, manufacturing automation and industrial instrumentation applications.



## Key features:

- ⬢ Reliable industry standard (EN 61076-2-101) screw locking mechanism
- ⬢ IP67 degree of protection
- ⬢ A, B and D Coded versions
- ⬢ Field installable, cable and panel mount options
- ⬢ Plastic and metal options variants
- ⬢ Straight and right angled forms
- ⬢ Overmolded PVC or PUR cable connectors
- ⬢ Shielded options
- ⬢ Pole variants from 3 – 12

**Full Contact Diagrams Page 143**

M12 connectors are established as one of the most reliable and efficient connection standards for Industrial Machinery and Factory Automation applications. With a small footprint, extremely low failure rate and high performance capabilities, this range is ideal not only for sensor connections but also for a variety of fieldbus systems.

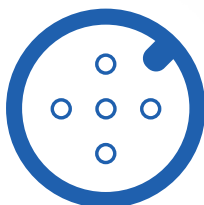
These M12 Series circular connectors are rugged, easy to use and extremely reliable solutions for sensor/actuator connectivity in industrial automation and control applications. With an IP67 rating, they are also extremely effective in harsh environments outside of industrial automation applications where compact and dependable connections with environmental protection are required.

Bulgin's field attachable M12 connectors feature a robust aluminium coupling nut, making them a lightweight and durable alternative to the more common nickel-plated M12 nut variants and an ideal plug and play solution for upgrading sensor systems with M12 connectivity.



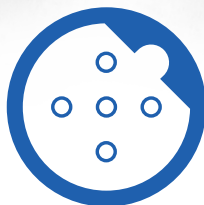
Bulgin's M12 Series connectors are available in a variety of industry standard keying/coding options to further minimize wiring errors and serve a large variety of customer needs.

## M12 Series coding options:



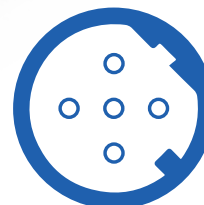
### A-Coding

Primarily for general sensor-actuator connections



### B-Coding

For fieldbus and signal connections (PROFIBUS & INTERBUS systems)



### D-Coding

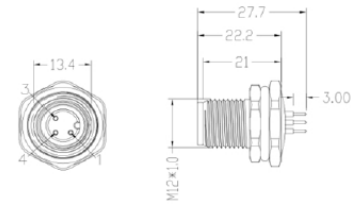
For industrial Ethernets and PROFINET

#### M12 Rear Panel Mounting Male



PXMBNI12RPM

- 3, 4, 5, 8 and 12 poles
- PCB termination
- Different panel mounting options available
- Mates with Flex Body connectors



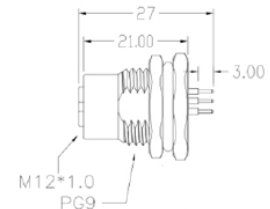
| Part Number         | Poles | Code | Termination  | Mounting Nut                    |
|---------------------|-------|------|--------------|---------------------------------|
| PXMBNI12RPM03APCPG9 | 03    | A    | PCB Terminal | PG9 Mounting / Gland Nut Thread |
| PXMBNI12RPM04APCPG9 | 04    | A    | PCB Terminal | PG9 Mounting / Gland Nut Thread |
| PXMBNI12RPM05APCPG9 | 05    | A    | PCB Terminal | PG9 Mounting / Gland Nut Thread |
| PXMBNI12RPM08APCPG9 | 08    | A    | PCB Terminal | PG9 Mounting / Gland Nut Thread |
| PXMBNI12RPM12APCPG9 | 12    | A    | PCB Terminal | PG9 Mounting / Gland Nut Thread |
| PXMBNI12RPM05BPCPG9 | 05    | B    | PCB Terminal | PG9 Mounting / Gland Nut Thread |
| PXMBNI12RPM04DPCPG9 | 04    | D    | PCB Terminal | PG9 Mounting / Gland Nut Thread |
| PXMBNI12RPM03APCM16 | 03    | A    | PCB Terminal | M16 Mounting / Gland Nut Thread |
| PXMBNI12RPM04APCM16 | 04    | A    | PCB Terminal | M16 Mounting / Gland Nut Thread |
| PXMBNI12RPM05APCM16 | 05    | A    | PCB Terminal | M16 Mounting / Gland Nut Thread |
| PXMBNI12RPM08APCM16 | 08    | A    | PCB Terminal | M16 Mounting / Gland Nut Thread |
| PXMBNI12RPM12APCM16 | 12    | A    | PCB Terminal | M16 Mounting / Gland Nut Thread |
| PXMBNI12RPM05BPCM16 | 05    | B    | PCB Terminal | M16 Mounting / Gland Nut Thread |
| PXMBNI12RPM04DPCM16 | 04    | D    | PCB Terminal | M16 Mounting / Gland Nut Thread |
| PXMBNI12RPM03APCM12 | 03    | A    | PCB Terminal | M12 Mounting / Gland Nut Thread |
| PXMBNI12RPM04APCM12 | 04    | A    | PCB Terminal | M12 Mounting / Gland Nut Thread |
| PXMBNI12RPM05APCM12 | 05    | A    | PCB Terminal | M12 Mounting / Gland Nut Thread |
| PXMBNI12RPM08APCM12 | 08    | A    | PCB Terminal | M12 Mounting / Gland Nut Thread |
| PXMBNI12RPM12APCM12 | 12    | A    | PCB Terminal | M12 Mounting / Gland Nut Thread |
| PXMBNI12RPM05BPCM12 | 05    | B    | PCB Terminal | M12 Mounting / Gland Nut Thread |
| PXMBNI12RPM04DPCM12 | 04    | D    | PCB Terminal | M12 Mounting / Gland Nut Thread |

#### M12 Rear Panel Mounting Female



PXMBNI12RPF

- 3, 4, 5, 8 and 12 poles
- PCB termination
- Different panel mounting options available
- Mates with Flex Inline Body connectors



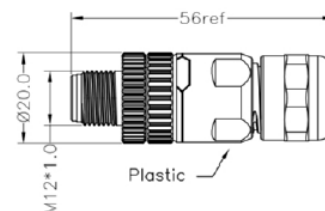
| Part Number         | Poles | Code | Termination  | Mounting Nut                    |
|---------------------|-------|------|--------------|---------------------------------|
| PXMBNI12RPF03APCPG9 | 03    | A    | PCB Terminal | PG9 Mounting / Gland Nut Thread |
| PXMBNI12RPF04APCPG9 | 04    | A    | PCB Terminal | PG9 Mounting / Gland Nut Thread |
| PXMBNI12RPF05APCPG9 | 05    | A    | PCB Terminal | PG9 Mounting / Gland Nut Thread |
| PXMBNI12RPF08APCPG9 | 08    | A    | PCB Terminal | PG9 Mounting / Gland Nut Thread |
| PXMBNI12RPF12APCPG9 | 12    | A    | PCB Terminal | PG9 Mounting / Gland Nut Thread |
| PXMBNI12RPF05BPCPG9 | 05    | B    | PCB Terminal | PG9 Mounting / Gland Nut Thread |
| PXMBNI12RPF04DPCPG9 | 04    | D    | PCB Terminal | PG9 Mounting / Gland Nut Thread |
| PXMBNI12RPF03APCM16 | 03    | A    | PCB Terminal | M16 Mounting / Gland Nut Thread |
| PXMBNI12RPF04APCM16 | 04    | A    | PCB Terminal | M16 Mounting / Gland Nut Thread |
| PXMBNI12RPF05APCM16 | 05    | A    | PCB Terminal | M16 Mounting / Gland Nut Thread |
| PXMBNI12RPF08APCM16 | 08    | A    | PCB Terminal | M16 Mounting / Gland Nut Thread |
| PXMBNI12RPF12APCM16 | 12    | A    | PCB Terminal | M16 Mounting / Gland Nut Thread |
| PXMBNI12RPF05BPCM16 | 05    | B    | PCB Terminal | M16 Mounting / Gland Nut Thread |
| PXMBNI12RPF04DPCM16 | 04    | D    | PCB Terminal | M16 Mounting / Gland Nut Thread |

M12 Flex Inline Body Male



PXPPAM12FIM

- 3, 4, 5 and 8 poles
- Screw termination
- Plastic Flex Inline Body
- Mates with Flex body and panel mount connectors



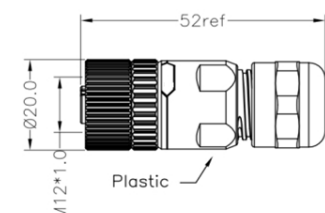
| Part Number         | Poles | Code | Termination    |
|---------------------|-------|------|----------------|
| PXPPAM12FIM03ASTPG9 | 03    | A    | Screw Terminal |
| PXPPAM12FIM04ASTPG9 | 04    | A    | Screw Terminal |
| PXPPAM12FIM05ASTPG9 | 05    | A    | Screw Terminal |
| PXPPAM12FIM08ASTPG9 | 08    | A    | Screw Terminal |

M12 Flex Body Female



PXPPAM12FBF

- 3, 4, 5 and 8 poles
- Screw termination
- Plastic Flex Body
- Mates with Flex Inline Body and panel mount connectors



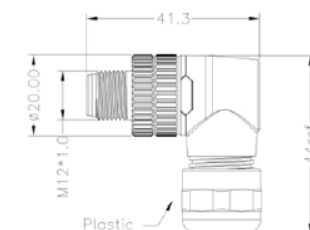
| Part Number         | Poles | Code | Termination    |
|---------------------|-------|------|----------------|
| PXPPAM12FBF03ASTPG9 | 03    | A    | Screw Terminal |
| PXPPAM12FBF04ASTPG9 | 04    | A    | Screw Terminal |
| PXPPAM12FBF05ASTPG9 | 05    | A    | Screw Terminal |
| PXPPAM12FBF08ASTPG9 | 08    | A    | Screw Terminal |

M12 Right Angled Male



PXPPAM12RAM

- 3, 4, 5 and 8 poles
- Screw termination
- Plastic Flex Inline Body
- Mates with Flex Body and panel mount connectors



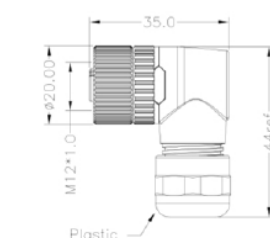
| Part Number         | Poles | Code | Termination    |
|---------------------|-------|------|----------------|
| PXPPAM12RAM03ASTPG9 | 03    | A    | Screw Terminal |
| PXPPAM12RAM04ASTPG9 | 04    | A    | Screw Terminal |
| PXPPAM12RAM05ASTPG9 | 05    | A    | Screw Terminal |
| PXPPAM12RAM08ASTPG9 | 08    | A    | Screw Terminal |

M12 Right Angled Female



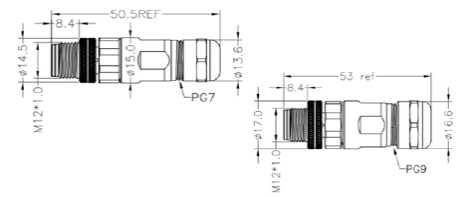
PXPPAM12RAF

- 3, 4, 5 and 8 poles
- Screw termination
- Plastic Flex Body
- Mates with Flex Inline Body and panel mount connectors

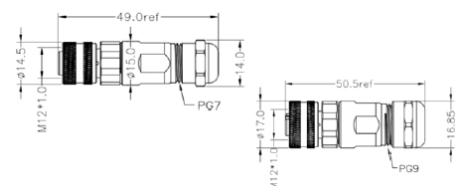


| Part Number         | Poles | Code | Termination    |
|---------------------|-------|------|----------------|
| PXPPAM12RAF03ASTPG9 | 03    | A    | Screw Terminal |
| PXPPAM12RAF04ASTPG9 | 04    | A    | Screw Terminal |
| PXPPAM12RAF05ASTPG9 | 05    | A    | Screw Terminal |
| PXPPAM12RAF08ASTPG9 | 08    | A    | Screw Terminal |

- 3, 4, 5, 8 and 12 poles
- Solder termination
- Metal Flex Inline Body
- Mates with Flex body and panel mount connectors



- 3, 4, 5, 8 and 12 poles
- Solder termination
- Metal Flex Body
- Mates with Flex Inline Body and panel mount connectors

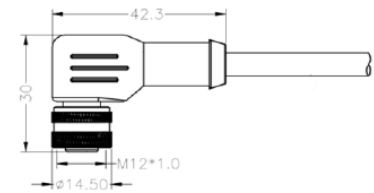
Circular Automation Connectors 135

M12 Right Angled Female



PXPTPU12RAF  
PXPPVC12RAF

- 3, 4, 5, 8 and 12 poles
- 1,2,3,5,10 & 15M cable options
- Overmold Flex Body
- Mates with Flex Inline Body & panel mount connectors



| Part Number            | Poles | Code | Termination    | Lead Length | Cable Material |
|------------------------|-------|------|----------------|-------------|----------------|
| PXPPVC12RAF03ACL010PVC | 03    | A    | Overmold Cable | 1m          | PVC            |
| PXPTPU12RAF03ACL010PUR | 03    | A    | Overmold Cable | 1m          | PUR            |
| PXPPVC12RAF03ACL020PVC | 03    | A    | Overmold Cable | 2m          | PVC            |
| PXPTPU12RAF03ACL020PUR | 03    | A    | Overmold Cable | 2m          | PUR            |
| PXPPVC12RAF03ACL030PVC | 03    | A    | Overmold Cable | 3m          | PVC            |
| PXPTPU12RAF03ACL030PUR | 03    | A    | Overmold Cable | 3m          | PUR            |
| PXPPVC12RAF03ACL050PVC | 03    | A    | Overmold Cable | 5m          | PVC            |
| PXPTPU12RAF03ACL050PUR | 03    | A    | Overmold Cable | 5m          | PUR            |
| PXPPVC12RAF03ACL100PVC | 03    | A    | Overmold Cable | 10m         | PVC            |
| PXPTPU12RAF03ACL100PUR | 03    | A    | Overmold Cable | 10m         | PUR            |
| PXPPVC12RAF03ACL150PVC | 03    | A    | Overmold Cable | 15m         | PVC            |
| PXPTPU12RAF03ACL150PUR | 03    | A    | Overmold Cable | 15m         | PUR            |
| PXPPVC12RAF04ACL010PVC | 04    | A    | Overmold Cable | 1m          | PVC            |
| PXPTPU12RAF04ACL010PUR | 04    | A    | Overmold Cable | 1m          | PUR            |
| PXPPVC12RAF04ACL020PVC | 04    | A    | Overmold Cable | 2m          | PVC            |
| PXPTPU12RAF04ACL020PUR | 04    | A    | Overmold Cable | 2m          | PUR            |
| PXPPVC12RAF04ACL030PVC | 04    | A    | Overmold Cable | 3m          | PVC            |
| PXPTPU12RAF04ACL030PUR | 04    | A    | Overmold Cable | 3m          | PUR            |
| PXPPVC12RAF04ACL050PVC | 04    | A    | Overmold Cable | 5m          | PVC            |
| PXPTPU12RAF04ACL050PUR | 04    | A    | Overmold Cable | 5m          | PUR            |
| PXPPVC12RAF04ACL100PVC | 04    | A    | Overmold Cable | 10m         | PVC            |
| PXPTPU12RAF04ACL100PUR | 04    | A    | Overmold Cable | 10m         | PUR            |
| PXPPVC12RAF04ACL150PVC | 04    | A    | Overmold Cable | 15m         | PVC            |
| PXPTPU12RAF04ACL150PUR | 04    | A    | Overmold Cable | 15m         | PUR            |
| PXPPVC12RAF05ACL010PVC | 05    | A    | Overmold Cable | 1m          | PVC            |
| PXPTPU12RAF05ACL010PUR | 05    | A    | Overmold Cable | 1m          | PUR            |
| PXPPVC12RAF05ACL020PVC | 05    | A    | Overmold Cable | 2m          | PVC            |
| PXPTPU12RAF05ACL020PUR | 05    | A    | Overmold Cable | 2m          | PUR            |
| PXPPVC12RAF05ACL030PVC | 05    | A    | Overmold Cable | 3m          | PVC            |
| PXPTPU12RAF05ACL030PUR | 05    | A    | Overmold Cable | 3m          | PUR            |
| PXPPVC12RAF05ACL050PVC | 05    | A    | Overmold Cable | 5m          | PVC            |
| PXPTPU12RAF05ACL050PUR | 05    | A    | Overmold Cable | 5m          | PUR            |
| PXPPVC12RAF05ACL100PVC | 05    | A    | Overmold Cable | 10m         | PVC            |
| PXPTPU12RAF05ACL100PUR | 05    | A    | Overmold Cable | 10m         | PUR            |
| PXPPVC12RAF05ACL150PVC | 05    | A    | Overmold Cable | 15m         | PVC            |
| PXPTPU12RAF05ACL150PUR | 05    | A    | Overmold Cable | 15m         | PUR            |
| PXPPVC12RAF08ACL010PVC | 08    | A    | Overmold Cable | 1m          | PVC            |
| PXPTPU12RAF08ACL010PUR | 08    | A    | Overmold Cable | 1m          | PUR            |
| PXPPVC12RAF08ACL020PVC | 08    | A    | Overmold Cable | 2m          | PVC            |
| PXPTPU12RAF08ACL020PUR | 08    | A    | Overmold Cable | 2m          | PUR            |
| PXPPVC12RAF08ACL030PVC | 08    | A    | Overmold Cable | 3m          | PVC            |
| PXPTPU12RAF08ACL030PUR | 08    | A    | Overmold Cable | 3m          | PUR            |
| PXPPVC12RAF08ACL050PVC | 08    | A    | Overmold Cable | 5m          | PVC            |
| PXPTPU12RAF08ACL050PUR | 08    | A    | Overmold Cable | 5m          | PUR            |
| PXPPVC12RAF08ACL100PVC | 08    | A    | Overmold Cable | 10m         | PVC            |
| PXPTPU12RAF08ACL100PUR | 08    | A    | Overmold Cable | 10m         | PUR            |
| PXPPVC12RAF08ACL150PVC | 08    | A    | Overmold Cable | 15m         | PVC            |
| PXPTPU12RAF08ACL150PUR | 08    | A    | Overmold Cable | 15m         | PUR            |
| PXPPVC12RAF12ACL010PVC | 12    | A    | Overmold Cable | 1m          | PVC            |
| PXPTPU12RAF12ACL010PUR | 12    | A    | Overmold Cable | 1m          | PUR            |
| PXPPVC12RAF12ACL020PVC | 12    | A    | Overmold Cable | 2m          | PVC            |
| PXPTPU12RAF12ACL020PUR | 12    | A    | Overmold Cable | 2m          | PUR            |
| PXPPVC12RAF12ACL030PVC | 12    | A    | Overmold Cable | 3m          | PVC            |
| PXPTPU12RAF12ACL030PUR | 12    | A    | Overmold Cable | 3m          | PUR            |
| PXPPVC12RAF12ACL050PVC | 12    | A    | Overmold Cable | 5m          | PVC            |
| PXPTPU12RAF12ACL050PUR | 12    | A    | Overmold Cable | 5m          | PUR            |
| PXPPVC12RAF12ACL100PVC | 12    | A    | Overmold Cable | 10m         | PVC            |
| PXPTPU12RAF12ACL100PUR | 12    | A    | Overmold Cable | 10m         | PUR            |
| PXPPVC12RAF12ACL150PVC | 12    | A    | Overmold Cable | 15m         | PVC            |
| PXPTPU12RAF12ACL150PUR | 12    | A    | Overmold Cable | 15m         | PUR            |

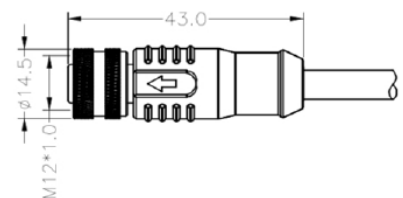
|                        |    |   |                |     |     |
|------------------------|----|---|----------------|-----|-----|
| PXPPVC12RAF05BCL010PVC | 05 | B | Overmold Cable | 1m  | PVC |
| PXPTPU12RAF05BCL010PUR | 05 | B | Overmold Cable | 1m  | PUR |
| PXPPVC12RAF05BCL020PVC | 05 | B | Overmold Cable | 2m  | PVC |
| PXPTPU12RAF05BCL020PUR | 05 | B | Overmold Cable | 2m  | PUR |
| PXPPVC12RAF05BCL030PVC | 05 | B | Overmold Cable | 3m  | PVC |
| PXPTPU12RAF05BCL030PUR | 05 | B | Overmold Cable | 3m  | PUR |
| PXPPVC12RAF05BCL050PVC | 05 | B | Overmold Cable | 5m  | PVC |
| PXPTPU12RAF05BCL050PUR | 05 | B | Overmold Cable | 5m  | PUR |
| PXPPVC12RAF05BCL100PVC | 05 | B | Overmold Cable | 10m | PVC |
| PXPTPU12RAF05BCL100PUR | 05 | B | Overmold Cable | 10m | PUR |
| PXPPVC12RAF05BCL150PVC | 05 | B | Overmold Cable | 15m | PVC |
| PXPTPU12RAF05BCL150PUR | 05 | B | Overmold Cable | 15m | PUR |
| PXPPVC12RAF04DCL010PVC | 04 | D | Overmold Cable | 1m  | PVC |
| PXPTPU12RAF04DCL010PUR | 04 | D | Overmold Cable | 1m  | PUR |
| PXPPVC12RAF04DCL020PVC | 04 | D | Overmold Cable | 2m  | PVC |
| PXPTPU12RAF04DCL020PUR | 04 | D | Overmold Cable | 2m  | PUR |
| PXPPVC12RAF04DCL030PVC | 04 | D | Overmold Cable | 3m  | PVC |
| PXPTPU12RAF04DCL030PUR | 04 | D | Overmold Cable | 3m  | PUR |
| PXPPVC12RAF04DCL050PVC | 04 | D | Overmold Cable | 5m  | PVC |
| PXPTPU12RAF04DCL050PUR | 04 | D | Overmold Cable | 5m  | PUR |
| PXPPVC12RAF04DCL100PVC | 04 | D | Overmold Cable | 10m | PVC |
| PXPTPU12RAF04DCL100PUR | 04 | D | Overmold Cable | 10m | PUR |
| PXPPVC12RAF04DCL150PVC | 04 | D | Overmold Cable | 15m | PVC |
| PXPTPU12RAF04DCL150PUR | 04 | D | Overmold Cable | 15m | PUR |

M12 Flex Body Female



PXPTPU12FBF  
PXPPVC12FBF

- 3, 4, 5, 8 and 12 poles
- 1,2,3,5,10 & 15M cable options
- Overmold Flex Body
- Mates with Flex Inline Body & panel mount connectors



| Part Number            | Poles | Code | Termination    | Lead Length | Cable Material |
|------------------------|-------|------|----------------|-------------|----------------|
| PXPPVC12FBF03ACL010PVC | 03    | A    | Overmold Cable | 1m          | PVC            |
| PXPTPU12FBF03ACL010PUR | 03    | A    | Overmold Cable | 1m          | PUR            |
| PXPPVC12FBF03ACL020PVC | 03    | A    | Overmold Cable | 2m          | PVC            |
| PXPTPU12FBF03ACL020PUR | 03    | A    | Overmold Cable | 2m          | PUR            |
| PXPPVC12FBF03ACL030PVC | 03    | A    | Overmold Cable | 3m          | PVC            |
| PXPTPU12FBF03ACL030PUR | 03    | A    | Overmold Cable | 3m          | PUR            |
| PXPPVC12FBF03ACL050PVC | 03    | A    | Overmold Cable | 5m          | PVC            |
| PXPTPU12FBF03ACL050PUR | 03    | A    | Overmold Cable | 5m          | PUR            |
| PXPPVC12FBF03ACL100PVC | 03    | A    | Overmold Cable | 10m         | PVC            |
| PXPTPU12FBF03ACL100PUR | 03    | A    | Overmold Cable | 10m         | PUR            |
| PXPPVC12FBF03ACL150PVC | 03    | A    | Overmold Cable | 15m         | PVC            |
| PXPTPU12FBF03ACL150PUR | 03    | A    | Overmold Cable | 15m         | PUR            |
| PXPPVC12FBF04ACL010PVC | 04    | A    | Overmold Cable | 1m          | PVC            |
| PXPTPU12FBF04ACL010PUR | 04    | A    | Overmold Cable | 1m          | PUR            |
| PXPPVC12FBF04ACL020PVC | 04    | A    | Overmold Cable | 2m          | PVC            |
| PXPTPU12FBF04ACL020PUR | 04    | A    | Overmold Cable | 2m          | PUR            |
| PXPPVC12FBF04ACL030PVC | 04    | A    | Overmold Cable | 3m          | PVC            |
| PXPTPU12FBF04ACL030PUR | 04    | A    | Overmold Cable | 3m          | PUR            |
| PXPPVC12FBF04ACL050PVC | 04    | A    | Overmold Cable | 5m          | PVC            |
| PXPTPU12FBF04ACL050PUR | 04    | A    | Overmold Cable | 5m          | PUR            |
| PXPPVC12FBF04ACL100PVC | 04    | A    | Overmold Cable | 10m         | PVC            |
| PXPTPU12FBF04ACL100PUR | 04    | A    | Overmold Cable | 10m         | PUR            |
| PXPPVC12FBF04ACL150PVC | 04    | A    | Overmold Cable | 15m         | PVC            |
| PXPTPU12FBF04ACL150PUR | 04    | A    | Overmold Cable | 15m         | PUR            |
| PXPPVC12FBF05ACL010PVC | 05    | A    | Overmold Cable | 1m          | PVC            |
| PXPTPU12FBF05ACL010PUR | 05    | A    | Overmold Cable | 1m          | PUR            |
| PXPPVC12FBF05ACL020PVC | 05    | A    | Overmold Cable | 2m          | PVC            |
| PXPTPU12FBF05ACL020PUR | 05    | A    | Overmold Cable | 2m          | PUR            |
| PXPPVC12FBF05ACL030PVC | 05    | A    | Overmold Cable | 3m          | PVC            |
| PXPTPU12FBF05ACL030PUR | 05    | A    | Overmold Cable | 3m          | PUR            |
| PXPPVC12FBF05ACL050PVC | 05    | A    | Overmold Cable | 5m          | PVC            |
| PXPTPU12FBF05ACL050PUR | 05    | A    | Overmold Cable | 5m          | PUR            |
| PXPPVC12FBF05ACL100PVC | 05    | A    | Overmold Cable | 10m         | PVC            |
| PXPTPU12FBF05ACL100PUR | 05    | A    | Overmold Cable | 10m         | PUR            |
| PXPPVC12FBF05ACL150PVC | 05    | A    | Overmold Cable | 15m         | PVC            |
| PXPTPU12FBF05ACL150PUR | 05    | A    | Overmold Cable | 15m         | PUR            |

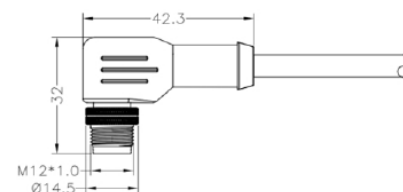
|                        |    |   |                |     |     |
|------------------------|----|---|----------------|-----|-----|
| PXPPVC12FBF08ACL010PVC | 08 | A | Overmold Cable | 1m  | PVC |
| PXPTPU12FBF08ACL010PUR | 08 | A | Overmold Cable | 1m  | PUR |
| PXPPVC12FBF08ACL020PVC | 08 | A | Overmold Cable | 2m  | PVC |
| PXPTPU12FBF08ACL020PUR | 08 | A | Overmold Cable | 2m  | PUR |
| PXPPVC12FBF08ACL030PVC | 08 | A | Overmold Cable | 3m  | PVC |
| PXPTPU12FBF08ACL030PUR | 08 | A | Overmold Cable | 3m  | PUR |
| PXPPVC12FBF08ACL050PVC | 08 | A | Overmold Cable | 5m  | PVC |
| PXPTPU12FBF08ACL050PUR | 08 | A | Overmold Cable | 5m  | PUR |
| PXPPVC12FBF08ACL100PVC | 08 | A | Overmold Cable | 10m | PVC |
| PXPTPU12FBF08ACL100PUR | 08 | A | Overmold Cable | 10m | PUR |
| PXPPVC12FBF08ACL150PVC | 08 | A | Overmold Cable | 15m | PVC |
| PXPTPU12FBF08ACL150PUR | 08 | A | Overmold Cable | 15m | PUR |
| PXPPVC12FBF12ACL010PVC | 12 | A | Overmold Cable | 1m  | PVC |
| PXPTPU12FBF12ACL010PUR | 12 | A | Overmold Cable | 1m  | PUR |
| PXPPVC12FBF12ACL020PVC | 12 | A | Overmold Cable | 2m  | PVC |
| PXPTPU12FBF12ACL020PUR | 12 | A | Overmold Cable | 2m  | PUR |
| PXPPVC12FBF12ACL030PVC | 12 | A | Overmold Cable | 3m  | PVC |
| PXPTPU12FBF12ACL030PUR | 12 | A | Overmold Cable | 3m  | PUR |
| PXPPVC12FBF12ACL050PVC | 12 | A | Overmold Cable | 5m  | PVC |
| PXPTPU12FBF12ACL050PUR | 12 | A | Overmold Cable | 5m  | PUR |
| PXPPVC12FBF12ACL100PVC | 12 | A | Overmold Cable | 10m | PVC |
| PXPTPU12FBF12ACL100PUR | 12 | A | Overmold Cable | 10m | PUR |
| PXPPVC12FBF12ACL150PVC | 12 | A | Overmold Cable | 15m | PVC |
| PXPTPU12FBF12ACL150PUR | 12 | A | Overmold Cable | 15m | PUR |
| PXPPVC12FBF05BCL010PVC | 05 | B | Overmold Cable | 1m  | PVC |
| PXPTPU12FBF05BCL010PUR | 05 | B | Overmold Cable | 1m  | PUR |
| PXPPVC12FBF05BCL020PVC | 05 | B | Overmold Cable | 2m  | PVC |
| PXPTPU12FBF05BCL020PUR | 05 | B | Overmold Cable | 2m  | PUR |
| PXPPVC12FBF05BCL030PVC | 05 | B | Overmold Cable | 3m  | PVC |
| PXPTPU12FBF05BCL030PUR | 05 | B | Overmold Cable | 3m  | PUR |
| PXPPVC12FBF05BCL050PVC | 05 | B | Overmold Cable | 5m  | PVC |
| PXPTPU12FBF05BCL050PUR | 05 | B | Overmold Cable | 5m  | PUR |
| PXPPVC12FBF05BCL100PVC | 05 | B | Overmold Cable | 10m | PVC |
| PXPTPU12FBF05BCL100PUR | 05 | B | Overmold Cable | 10m | PUR |
| PXPPVC12FBF05BCL150PVC | 05 | B | Overmold Cable | 15m | PVC |
| PXPTPU12FBF05BCL150PUR | 05 | B | Overmold Cable | 15m | PUR |
| PXPPVC12FBF04DCL010PVC | 04 | D | Overmold Cable | 1m  | PVC |
| PXPTPU12FBF04DCL010PUR | 04 | D | Overmold Cable | 1m  | PUR |
| PXPPVC12FBF04DCL020PVC | 04 | D | Overmold Cable | 2m  | PVC |
| PXPTPU12FBF04DCL020PUR | 04 | D | Overmold Cable | 2m  | PUR |
| PXPPVC12FBF04DCL030PVC | 04 | D | Overmold Cable | 3m  | PVC |
| PXPTPU12FBF04DCL030PUR | 04 | D | Overmold Cable | 3m  | PUR |
| PXPPVC12FBF04DCL050PVC | 04 | D | Overmold Cable | 5m  | PVC |
| PXPTPU12FBF04DCL050PUR | 04 | D | Overmold Cable | 5m  | PUR |
| PXPPVC12FBF04DCL100PVC | 04 | D | Overmold Cable | 10m | PVC |
| PXPTPU12FBF04DCL100PUR | 04 | D | Overmold Cable | 10m | PUR |
| PXPPVC12FBF04DCL150PVC | 04 | D | Overmold Cable | 15m | PVC |
| PXPTPU12FBF04DCL150PUR | 04 | D | Overmold Cable | 15m | PUR |

M12 Right Angled Male



PXPTPU12RAM  
PXPPVC12RAM

- 3, 4, 5, 8 and 12 poles
- 1,2,3,5,10 & 15M cable options
- Overmold Flex Inline Body
- Mates with Flex Body & panel mount connectors



| Part Number            | Poles | Code | Termination    | Lead Length | Cable Material |
|------------------------|-------|------|----------------|-------------|----------------|
| PXPPVC12RAM03ACL010PVC | 03    | A    | Overmold Cable | 1m          | PVC            |
| PXPTPU12RAM03ACL010PUR | 03    | A    | Overmold Cable | 1m          | PUR            |
| PXPPVC12RAM03ACL020PVC | 03    | A    | Overmold Cable | 2m          | PVC            |
| PXPTPU12RAM03ACL020PUR | 03    | A    | Overmold Cable | 2m          | PUR            |
| PXPPVC12RAM03ACL030PVC | 03    | A    | Overmold Cable | 3m          | PVC            |
| PXPTPU12RAM03ACL030PUR | 03    | A    | Overmold Cable | 3m          | PUR            |
| PXPPVC12RAM03ACL050PVC | 03    | A    | Overmold Cable | 5m          | PVC            |
| PXPTPU12RAM03ACL050PUR | 03    | A    | Overmold Cable | 5m          | PUR            |
| PXPPVC12RAM03ACL100PVC | 03    | A    | Overmold Cable | 10m         | PVC            |
| PXPTPU12RAM03ACL100PUR | 03    | A    | Overmold Cable | 10m         | PUR            |
| PXPPVC12RAM03ACL150PVC | 03    | A    | Overmold Cable | 15m         | PVC            |
| PXPTPU12RAM03ACL150PUR | 03    | A    | Overmold Cable | 15m         | PUR            |

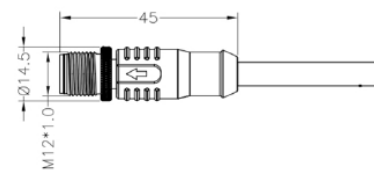
|                        |    |   |                |     |     |
|------------------------|----|---|----------------|-----|-----|
| PXPPVC12RAM04ACL010PVC | 04 | A | Overmold Cable | 1m  | PVC |
| PXPTPU12RAM04ACL010PUR | 04 | A | Overmold Cable | 1m  | PUR |
| PXPPVC12RAM04ACL020PVC | 04 | A | Overmold Cable | 2m  | PVC |
| PXPTPU12RAM04ACL020PUR | 04 | A | Overmold Cable | 2m  | PUR |
| PXPPVC12RAM04ACL030PVC | 04 | A | Overmold Cable | 3m  | PVC |
| PXPTPU12RAM04ACL030PUR | 04 | A | Overmold Cable | 3m  | PUR |
| PXPPVC12RAM04ACL050PVC | 04 | A | Overmold Cable | 5m  | PVC |
| PXPTPU12RAM04ACL050PUR | 04 | A | Overmold Cable | 5m  | PUR |
| PXPPVC12RAM04ACL100PVC | 04 | A | Overmold Cable | 10m | PVC |
| PXPTPU12RAM04ACL100PUR | 04 | A | Overmold Cable | 10m | PUR |
| PXPPVC12RAM04ACL150PVC | 04 | A | Overmold Cable | 15m | PVC |
| PXPTPU12RAM04ACL150PUR | 04 | A | Overmold Cable | 15m | PUR |
| PXPPVC12RAM05ACL010PVC | 05 | A | Overmold Cable | 1m  | PVC |
| PXPTPU12RAM05ACL010PUR | 05 | A | Overmold Cable | 1m  | PUR |
| PXPPVC12RAM05ACL020PVC | 05 | A | Overmold Cable | 2m  | PVC |
| PXPTPU12RAM05ACL020PUR | 05 | A | Overmold Cable | 2m  | PUR |
| PXPPVC12RAM05ACL030PVC | 05 | A | Overmold Cable | 3m  | PVC |
| PXPTPU12RAM05ACL030PUR | 05 | A | Overmold Cable | 3m  | PUR |
| PXPPVC12RAM05ACL050PVC | 05 | A | Overmold Cable | 5m  | PVC |
| PXPTPU12RAM05ACL050PUR | 05 | A | Overmold Cable | 5m  | PUR |
| PXPPVC12RAM05ACL100PVC | 05 | A | Overmold Cable | 10m | PVC |
| PXPTPU12RAM05ACL100PUR | 05 | A | Overmold Cable | 10m | PUR |
| PXPPVC12RAM05ACL150PVC | 05 | A | Overmold Cable | 15m | PVC |
| PXPTPU12RAM05ACL150PUR | 05 | A | Overmold Cable | 15m | PUR |
| PXPPVC12RAM08ACL010PVC | 08 | A | Overmold Cable | 1m  | PVC |
| PXPTPU12RAM08ACL010PUR | 08 | A | Overmold Cable | 1m  | PUR |
| PXPPVC12RAM08ACL020PVC | 08 | A | Overmold Cable | 2m  | PVC |
| PXPTPU12RAM08ACL020PUR | 08 | A | Overmold Cable | 2m  | PUR |
| PXPPVC12RAM08ACL030PVC | 08 | A | Overmold Cable | 3m  | PVC |
| PXPTPU12RAM08ACL030PUR | 08 | A | Overmold Cable | 3m  | PUR |
| PXPPVC12RAM08ACL050PVC | 08 | A | Overmold Cable | 5m  | PVC |
| PXPTPU12RAM08ACL050PUR | 08 | A | Overmold Cable | 5m  | PUR |
| PXPPVC12RAM08ACL100PVC | 08 | A | Overmold Cable | 10m | PVC |
| PXPTPU12RAM08ACL100PUR | 08 | A | Overmold Cable | 10m | PUR |
| PXPPVC12RAM08ACL150PVC | 08 | A | Overmold Cable | 15m | PVC |
| PXPTPU12RAM08ACL150PUR | 08 | A | Overmold Cable | 15m | PUR |
| PXPPVC12RAM12ACL010PVC | 12 | A | Overmold Cable | 1m  | PVC |
| PXPTPU12RAM12ACL010PUR | 12 | A | Overmold Cable | 1m  | PUR |
| PXPPVC12RAM12ACL020PVC | 12 | A | Overmold Cable | 2m  | PVC |
| PXPTPU12RAM12ACL020PUR | 12 | A | Overmold Cable | 2m  | PUR |
| PXPPVC12RAM12ACL030PVC | 12 | A | Overmold Cable | 3m  | PVC |
| PXPTPU12RAM12ACL030PUR | 12 | A | Overmold Cable | 3m  | PUR |
| PXPPVC12RAM12ACL050PVC | 12 | A | Overmold Cable | 5m  | PVC |
| PXPTPU12RAM12ACL050PUR | 12 | A | Overmold Cable | 5m  | PUR |
| PXPPVC12RAM12ACL100PVC | 12 | A | Overmold Cable | 10m | PVC |
| PXPTPU12RAM12ACL100PUR | 12 | A | Overmold Cable | 10m | PUR |
| PXPPVC12RAM12ACL150PVC | 12 | A | Overmold Cable | 15m | PVC |
| PXPTPU12RAM12ACL150PUR | 12 | A | Overmold Cable | 15m | PUR |
| PXPPVC12RAM05BCL010PVC | 05 | B | Overmold Cable | 1m  | PVC |
| PXPTPU12RAM05BCL010PUR | 05 | B | Overmold Cable | 1m  | PUR |
| PXPPVC12RAM05BCL020PVC | 05 | B | Overmold Cable | 2m  | PVC |
| PXPTPU12RAM05BCL020PUR | 05 | B | Overmold Cable | 2m  | PUR |
| PXPPVC12RAM05BCL030PVC | 05 | B | Overmold Cable | 3m  | PVC |
| PXPTPU12RAM05BCL030PUR | 05 | B | Overmold Cable | 3m  | PUR |
| PXPPVC12RAM05BCL050PVC | 05 | B | Overmold Cable | 5m  | PVC |
| PXPTPU12RAM05BCL050PUR | 05 | B | Overmold Cable | 5m  | PUR |
| PXPPVC12RAM05BCL100PVC | 05 | B | Overmold Cable | 10m | PVC |
| PXPTPU12RAM05BCL100PUR | 05 | B | Overmold Cable | 10m | PUR |
| PXPPVC12RAM05BCL150PVC | 05 | B | Overmold Cable | 15m | PVC |
| PXPTPU12RAM05BCL150PUR | 05 | B | Overmold Cable | 15m | PUR |
| PXPPVC12RAM04DCL010PVC | 04 | D | Overmold Cable | 1m  | PVC |
| PXPTPU12RAM04DCL010PUR | 04 | D | Overmold Cable | 1m  | PUR |
| PXPPVC12RAM04DCL020PVC | 04 | D | Overmold Cable | 2m  | PVC |
| PXPTPU12RAM04DCL020PUR | 04 | D | Overmold Cable | 2m  | PUR |
| PXPPVC12RAM04DCL030PVC | 04 | D | Overmold Cable | 3m  | PVC |
| PXPTPU12RAM04DCL030PUR | 04 | D | Overmold Cable | 3m  | PUR |
| PXPPVC12RAM04DCL050PVC | 04 | D | Overmold Cable | 5m  | PVC |
| PXPTPU12RAM04DCL050PUR | 04 | D | Overmold Cable | 5m  | PUR |
| PXPPVC12RAM04DCL100PVC | 04 | D | Overmold Cable | 10m | PVC |
| PXPTPU12RAM04DCL100PUR | 04 | D | Overmold Cable | 10m | PUR |
| PXPPVC12RAM04DCL150PVC | 04 | D | Overmold Cable | 15m | PVC |
| PXPTPU12RAM04DCL150PUR | 04 | D | Overmold Cable | 15m | PUR |

M12 Flex Inline Body Male



PXPTPU12FIM  
PXPPVC12FIM

- 3, 4, 5, 8 and 12 poles
- 1,2,3,5,10 & 15M cable options
- Overmold Flex Inline Body
- Mates with Flex Body & panel mount connectors



| Part Number            | Poles | Code | Termination    | Lead Length | Cable Material |
|------------------------|-------|------|----------------|-------------|----------------|
| PXPPVC12FIM03ACL010PVC | 03    | A    | Overmold Cable | 1m          | PVC            |
| PXPTPU12FIM03ACL010PUR | 03    | A    | Overmold Cable | 1m          | PUR            |
| PXPPVC12FIM03ACL020PVC | 03    | A    | Overmold Cable | 2m          | PVC            |
| PXPTPU12FIM03ACL020PUR | 03    | A    | Overmold Cable | 2m          | PUR            |
| PXPPVC12FIM03ACL030PVC | 03    | A    | Overmold Cable | 3m          | PVC            |
| PXPTPU12FIM03ACL030PUR | 03    | A    | Overmold Cable | 3m          | PUR            |
| PXPPVC12FIM03ACL050PVC | 03    | A    | Overmold Cable | 5m          | PVC            |
| PXPTPU12FIM03ACL050PUR | 03    | A    | Overmold Cable | 5m          | PUR            |
| PXPPVC12FIM03ACL100PVC | 03    | A    | Overmold Cable | 10m         | PVC            |
| PXPTPU12FIM03ACL100PUR | 03    | A    | Overmold Cable | 10m         | PUR            |
| PXPPVC12FIM03ACL150PVC | 03    | A    | Overmold Cable | 15m         | PVC            |
| PXPTPU12FIM03ACL150PUR | 03    | A    | Overmold Cable | 15m         | PUR            |
| PXPPVC12FIM04ACL010PVC | 04    | A    | Overmold Cable | 1m          | PVC            |
| PXPTPU12FIM04ACL010PUR | 04    | A    | Overmold Cable | 1m          | PUR            |
| PXPPVC12FIM04ACL020PVC | 04    | A    | Overmold Cable | 2m          | PVC            |
| PXPTPU12FIM04ACL020PUR | 04    | A    | Overmold Cable | 2m          | PUR            |
| PXPPVC12FIM04ACL030PVC | 04    | A    | Overmold Cable | 3m          | PVC            |
| PXPTPU12FIM04ACL030PUR | 04    | A    | Overmold Cable | 3m          | PUR            |
| PXPPVC12FIM04ACL050PVC | 04    | A    | Overmold Cable | 5m          | PVC            |
| PXPTPU12FIM04ACL050PUR | 04    | A    | Overmold Cable | 5m          | PUR            |
| PXPPVC12FIM04ACL100PVC | 04    | A    | Overmold Cable | 10m         | PVC            |
| PXPTPU12FIM04ACL100PUR | 04    | A    | Overmold Cable | 10m         | PUR            |
| PXPPVC12FIM04ACL150PVC | 04    | A    | Overmold Cable | 15m         | PVC            |
| PXPTPU12FIM04ACL150PUR | 04    | A    | Overmold Cable | 15m         | PUR            |
| PXPPVC12FIM05ACL010PVC | 05    | A    | Overmold Cable | 1m          | PVC            |
| PXPTPU12FIM05ACL010PUR | 05    | A    | Overmold Cable | 1m          | PUR            |
| PXPPVC12FIM05ACL020PVC | 05    | A    | Overmold Cable | 2m          | PVC            |
| PXPTPU12FIM05ACL020PUR | 05    | A    | Overmold Cable | 2m          | PUR            |
| PXPPVC12FIM05ACL030PVC | 05    | A    | Overmold Cable | 3m          | PVC            |
| PXPTPU12FIM05ACL030PUR | 05    | A    | Overmold Cable | 3m          | PUR            |
| PXPPVC12FIM05ACL050PVC | 05    | A    | Overmold Cable | 5m          | PVC            |
| PXPTPU12FIM05ACL050PUR | 05    | A    | Overmold Cable | 5m          | PUR            |
| PXPPVC12FIM05ACL100PVC | 05    | A    | Overmold Cable | 10m         | PVC            |
| PXPTPU12FIM05ACL100PUR | 05    | A    | Overmold Cable | 10m         | PUR            |
| PXPPVC12FIM05ACL150PVC | 05    | A    | Overmold Cable | 15m         | PVC            |
| PXPTPU12FIM05ACL150PUR | 05    | A    | Overmold Cable | 15m         | PUR            |
| PXPPVC12FIM08ACL010PVC | 08    | A    | Overmold Cable | 1m          | PVC            |
| PXPTPU12FIM08ACL010PUR | 08    | A    | Overmold Cable | 1m          | PUR            |
| PXPPVC12FIM08ACL020PVC | 08    | A    | Overmold Cable | 2m          | PVC            |
| PXPTPU12FIM08ACL020PUR | 08    | A    | Overmold Cable | 2m          | PUR            |
| PXPPVC12FIM08ACL030PVC | 08    | A    | Overmold Cable | 3m          | PVC            |
| PXPTPU12FIM08ACL030PUR | 08    | A    | Overmold Cable | 3m          | PUR            |
| PXPPVC12FIM08ACL050PVC | 08    | A    | Overmold Cable | 5m          | PVC            |
| PXPTPU12FIM08ACL050PUR | 08    | A    | Overmold Cable | 5m          | PUR            |
| PXPPVC12FIM08ACL100PVC | 08    | A    | Overmold Cable | 10m         | PVC            |
| PXPTPU12FIM08ACL100PUR | 08    | A    | Overmold Cable | 10m         | PUR            |
| PXPPVC12FIM08ACL150PVC | 08    | A    | Overmold Cable | 15m         | PVC            |
| PXPTPU12FIM08ACL150PUR | 08    | A    | Overmold Cable | 15m         | PUR            |
| PXPPVC12FIM12ACL010PVC | 12    | A    | Overmold Cable | 1m          | PVC            |
| PXPTPU12FIM12ACL010PUR | 12    | A    | Overmold Cable | 1m          | PUR            |
| PXPPVC12FIM12ACL020PVC | 12    | A    | Overmold Cable | 2m          | PVC            |
| PXPTPU12FIM12ACL020PUR | 12    | A    | Overmold Cable | 2m          | PUR            |
| PXPPVC12FIM12ACL030PVC | 12    | A    | Overmold Cable | 3m          | PVC            |
| PXPTPU12FIM12ACL030PUR | 12    | A    | Overmold Cable | 3m          | PUR            |
| PXPPVC12FIM12ACL050PVC | 12    | A    | Overmold Cable | 5m          | PVC            |
| PXPTPU12FIM12ACL050PUR | 12    | A    | Overmold Cable | 5m          | PUR            |
| PXPPVC12FIM12ACL100PVC | 12    | A    | Overmold Cable | 10m         | PVC            |
| PXPTPU12FIM12ACL100PUR | 12    | A    | Overmold Cable | 10m         | PUR            |
| PXPPVC12FIM12ACL150PVC | 12    | A    | Overmold Cable | 15m         | PVC            |
| PXPTPU12FIM12ACL150PUR | 12    | A    | Overmold Cable | 15m         | PUR            |

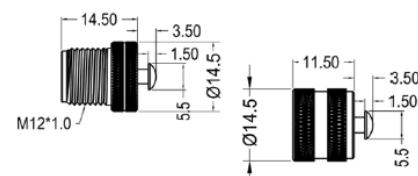
|                        |    |   |                |     |     |
|------------------------|----|---|----------------|-----|-----|
| PXPPVC12FIM05BCL010PVC | 05 | B | Overmold Cable | 1m  | PVC |
| PXPTPU12FIM05BCL010PUR | 05 | B | Overmold Cable | 1m  | PUR |
| PXPPVC12FIM05BCL020PVC | 05 | B | Overmold Cable | 2m  | PVC |
| PXPTPU12FIM05BCL020PUR | 05 | B | Overmold Cable | 2m  | PUR |
| PXPPVC12FIM05BCL030PVC | 05 | B | Overmold Cable | 3m  | PVC |
| PXPTPU12FIM05BCL030PUR | 05 | B | Overmold Cable | 3m  | PUR |
| PXPPVC12FIM05BCL050PVC | 05 | B | Overmold Cable | 5m  | PVC |
| PXPTPU12FIM05BCL050PUR | 05 | B | Overmold Cable | 5m  | PUR |
| PXPPVC12FIM05BCL100PVC | 05 | B | Overmold Cable | 10m | PVC |
| PXPTPU12FIM05BCL100PUR | 05 | B | Overmold Cable | 10m | PUR |
| PXPPVC12FIM05BCL150PVC | 05 | B | Overmold Cable | 15m | PVC |
| PXPTPU12FIM05BCL150PUR | 05 | B | Overmold Cable | 15m | PUR |
| PXPPVC12FIM04DCL010PVC | 04 | D | Overmold Cable | 1m  | PVC |
| PXPTPU12FIM04DCL010PUR | 04 | D | Overmold Cable | 1m  | PUR |
| PXPPVC12FIM04DCL020PVC | 04 | D | Overmold Cable | 2m  | PVC |
| PXPTPU12FIM04DCL020PUR | 04 | D | Overmold Cable | 2m  | PUR |
| PXPPVC12FIM04DCL030PVC | 04 | D | Overmold Cable | 3m  | PVC |
| PXPTPU12FIM04DCL030PUR | 04 | D | Overmold Cable | 3m  | PUR |
| PXPPVC12FIM04DCL050PVC | 04 | D | Overmold Cable | 5m  | PVC |
| PXPTPU12FIM04DCL050PUR | 04 | D | Overmold Cable | 5m  | PUR |
| PXPPVC12FIM04DCL100PVC | 04 | D | Overmold Cable | 10m | PVC |
| PXPTPU12FIM04DCL100PUR | 04 | D | Overmold Cable | 10m | PUR |
| PXPPVC12FIM04DCL150PVC | 04 | D | Overmold Cable | 15m | PVC |
| PXPTPU12FIM04DCL150PUR | 04 | D | Overmold Cable | 15m | PUR |

PA66 M12 Sealing Cap



PXPPAM12

- Sealing caps to maintain IP rating
- Male & Female versions



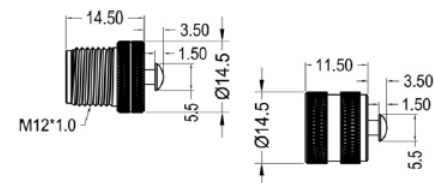
| Part Number | Series | Type   | Material |
|-------------|--------|--------|----------|
| PXPPAM12CAM | M12    | Male   | PA66     |
| PXPPAM12CAF | M12    | Female | PA66     |

Brass - Nickel Plating M12 Sealing Cap



PXMBNI12

- Sealing caps to maintain IP rating
- Male & Female versions



| Part Number | Series | Type   | Material               |
|-------------|--------|--------|------------------------|
| PXMBNI12CAM | M12    | Male   | Brass - Nickel Plating |
| PXMBNI12CAF | M12    | Female | Brass - Nickel Plating |

## Electrical

|                          |               |      |     |     |      |
|--------------------------|---------------|------|-----|-----|------|
| No. Poles:               | 3             | 4    | 5   | 8   | 12   |
| Current Rating:          | 4A            | 4A   | 4A  | 2A  | 1.5A |
| Voltage Rating (ac/dc) : | 250V          | 250V | 60V | 30V | 30V  |
| Contact Resistance:      | <10mΩ         |      |     |     |      |
| Insulation Resistance:   | >100MΩ        |      |     |     |      |
| AC Breakdown Voltage:    |               |      |     |     |      |
| 3 Pole                   | 1.5KV         |      |     |     |      |
| 4 Pole                   | 1.5KV         |      |     |     |      |
| 5 Pole                   | 1.5KV         |      |     |     |      |
| 8 Pole                   | 0.8KV         |      |     |     |      |
| 12 Pole                  | 0.8KV         |      |     |     |      |
| Operating Temp Range:    | -25°C to 80°C |      |     |     |      |

## Mechanical:

|                                      |                              |
|--------------------------------------|------------------------------|
| Locking Mechanism:                   | Screw coupling               |
| Sealing:                             | IP67                         |
| Contact Accomodation:                |                              |
| 3, 4, 5, 8 & 12 Pole                 | 28AWG-22AWG                  |
| Cable Acceptance:                    | 4.6 - 8.0mm Dia              |
| Terminations:                        |                              |
| 3, 4, 5, 8                           | PCB / Screw / Solder / Cable |
| 12                                   | PCB / Solder / Cable         |
| Mechanical Operation:                | 500 mating cycles            |
| Largest diameter over coupling ring: | 20.0mm                       |

## Materials:

## Panel Mount:

## Cable Connectors:

## Flex & Inline Connectors:

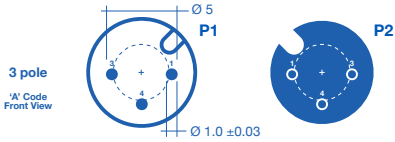
|                    |                               |                               |                               |
|--------------------|-------------------------------|-------------------------------|-------------------------------|
| Body:              | Nickel Plated Brass           | TPU / PVC                     | Nickel Plated Brass / PA66    |
| Coupling Nut:      | Nickel Plated Brass           | Nickel Plated Brass           | Nickel Plated Brass           |
| Colour:            | Grey                          | Black                         | Black or Grey                 |
| Pin Contacts:      | Brass, Gold plating           | Brass, Gold plating           | Brass, Gold plating           |
| Socket Contacts:   | Phosphor Bronze, Gold plating | Phosphor Bronze, Gold plating | Phosphor Bronze, Gold plating |
| O Rings & Gaskets: | Viton                         | Viton                         | Viton                         |
| RoHS:              | Compliant                     | Compliant                     | Compliant                     |

| XXX    | XXX                                              | XX          | XX                       | X           | XX           | X    | XX                  |
|--------|--------------------------------------------------|-------------|--------------------------|-------------|--------------|------|---------------------|
| Series | Material                                         | Series Size | Body Style               | Orientation | NO. Contacts | Code | Termination         |
| PXM    | BNI = Brass Nickel<br>PAM = Polyamide            | 12          | FB = Flex Body           | M           | 03           | A    | ST = Screw Terminal |
| PXP    | TPU = overmold for PUR<br>PVC = overmold for PVC |             | FI = Flex Inline Body    | F           | 04           | B    | PC = PCB            |
|        |                                                  |             | RP = Rear Panel Mounting |             | 05           | D    | CL = Cable          |
|        |                                                  |             | RA = Right Angle         |             | 08           |      | SC = Solder         |
|        |                                                  |             | SC = Sealing Cap         |             | 12           |      |                     |

| XXX                         | XXX         | XXX            |
|-----------------------------|-------------|----------------|
| Mounting / Gland Nut Thread | Lead Length | Cable Material |
| PG9                         | 001         | PUR            |
| PG7                         | 002         | PVC            |
| M16                         | 003         |                |
| M12                         | 010         |                |
|                             | 020         |                |
|                             | 030         |                |
|                             | 050         |                |
|                             | 100         |                |
|                             | 150         |                |

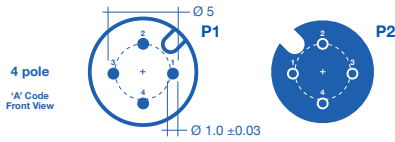
Contact Diagrams:

XXXXXXXXXXM03XXXXXXXXXXXXX  
XXXXXXXXXXF03XXXXXXXXXXXXX



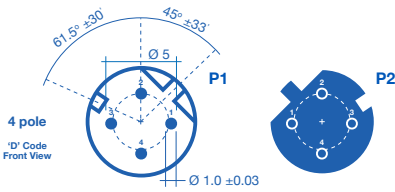
| P1 | PAIR | WIRE COLOUR | P2 |
|----|------|-------------|----|
| 1  | ⌵⌶   | BROWN       | 1  |
| 3  | ⌵⌶   | BLUE        | 3  |
| 4  | ⌵⌶   | BLACK       | 4  |

XXXXXXXXXXM04XXXXXXXXXXXXX  
XXXXXXXXXXF04XXXXXXXXXXXXX



4 PINS A-CODED

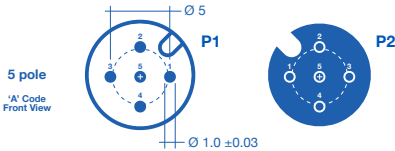
| P1 | PAIR | WIRE COLOUR | P2 |
|----|------|-------------|----|
| 1  | ⌵⌶   | BROWN       | 1  |
| 2  | ⌵⌶   | WHITE       | 2  |
| 3  | ⌵⌶   | BLUE        | 3  |
| 4  | ⌵⌶   | BLACK       | 4  |



4 PINS D-CODED

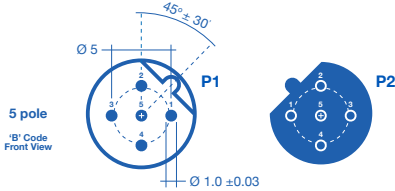
| P1 | PAIR | WIRE COLOUR | P2 |
|----|------|-------------|----|
| 1  | ⌵⌶   | YELLOW      | 1  |
| 2  | ⌵⌶   | WHITE       | 2  |
| 3  | ⌵⌶   | ORANGE      | 3  |
| 4  | ⌵⌶   | BLUE        | 4  |

XXXXXXXXXXM05XXXXXXXXXXXXX  
XXXXXXXXXXF05XXXXXXXXXXXXX



5 PINS A-CODED

| P1 | PAIR | WIRE COLOUR | P2 |
|----|------|-------------|----|
| 1  | ⌵⌶   | BROWN       | 1  |
| 2  | ⌵⌶   | WHITE       | 2  |
| 3  | ⌵⌶   | BLUE        | 3  |
| 4  | ⌵⌶   | BLACK       | 4  |
| 5  | ⌵⌶   | GREY        | 5  |

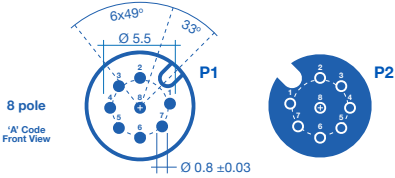


5 PINS B-CODED

| P1 | PAIR | WIRE COLOUR | P2 |
|----|------|-------------|----|
| 1  | ⌵⌶   | BROWN       | 1  |
| 2  | ⌵⌶   | WHITE       | 2  |
| 3  | ⌵⌶   | BLUE        | 3  |
| 4  | ⌵⌶   | BLACK       | 4  |
| 5  | ⌵⌶   | GREY        | 5  |

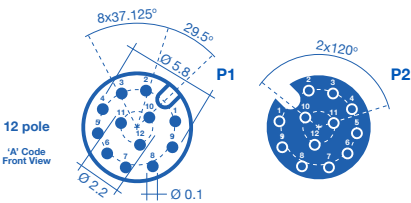
Contact Diagrams:

XXXXXXXXXXM08XXXXXXXXXXXXX  
XXXXXXXXXXF08XXXXXXXXXXXXX



| P1 | PAIR | WIRE COLOUR | P2 |
|----|------|-------------|----|
| 1  | ⌘    | WHITE       | 1  |
| 2  | ⌘    | BROWN       | 2  |
| 3  | ⌘    | GREEN       | 3  |
| 4  | ⌘    | YELLOW      | 4  |
| 5  | ⌘    | GREY        | 5  |
| 6  | ⌘    | PINK        | 6  |
| 7  | ⌘    | BLUE        | 7  |
| 8  | ⌘    | RED         | 8  |

XXXXXXXXXXM12XXXXXXXXXXXXX  
XXXXXXXXXXF12XXXXXXXXXXXXX



| P1 | PAIR | WIRE COLOUR | P2 |
|----|------|-------------|----|
| 1  | ⌘    | BROWN       | 1  |
| 2  | ⌘    | BLUE        | 2  |
| 3  | ⌘    | WHITE       | 3  |
| 4  | ⌘    | GREEN       | 4  |
| 5  | ⌘    | PINK        | 5  |
| 6  | ⌘    | YELLOW      | 6  |
| 7  | ⌘    | BLACK       | 7  |
| 8  | ⌘    | GREY        | 8  |
| 9  | ⌘    | RED         | 9  |
| 10 | ⌘    | VIOLET      | 10 |
| 11 | ⌘    | GREY / PINK | 11 |
| 12 | ⌘    | RED / BLUE  | 12 |

With a high degree of mechanical and electrical stability, Bulgin's M12 X Coding connectors provide a cost effective and flexible connectivity solution for onsite installations, helping to decrease downtime in process control, manufacturing automation and industrial instrumentation applications.

## Key features:

- ⬢ Reliable industry standard (EN 61076-2-109) screw locking mechanism
- ⬢ Field installable, cable and panel mount options
- ⬢ Maximum Data Signaling Rate to 10Gbit/s
- ⬢ -25 °C to 85 °C Temperature Range
- ⬢ Plastic and metal options variants
- ⬢ Cat6a cables
- ⬢ Ethernet, Profinet Application
- ⬢ 800V Rated Impulse Voltage
- ⬢ IP67 degree of protection
- ⬢ 0.5A Rated Current
- ⬢ M12 X Coding

**Full Contact Diagrams Page 151**

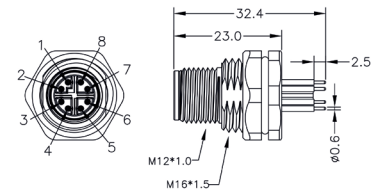


M12 X Code Rear Panel Mounting Male



PXMBNI12RPM08XPCM16

- 8 pole
- PCB termination
- Different panel mounting options available
- Mates with flex body connectors



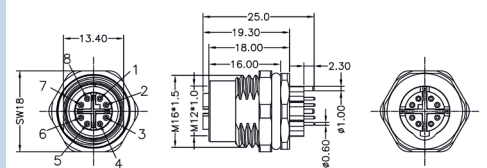
| Part Number         | Poles | Code | Termination  | Mounting Nut                    |
|---------------------|-------|------|--------------|---------------------------------|
| PXMBNI12RPM08XPCM16 | 08    | X    | PCB Terminal | M16 Mounting / Gland Nut Thread |

M12 X Code Rear Panel Mounting Female



PXMBNI12RPF08XPCM16

- 8 pole
- PCB termination
- Different panel mounting options available
- Mates with flex inline body connectors



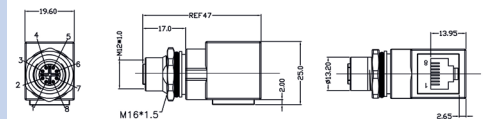
| Part Number         | Poles | Code | Termination  | Mounting Nut                    |
|---------------------|-------|------|--------------|---------------------------------|
| PXMBNI12RPF08XPCM16 | 08    | X    | PCB Terminal | M16 Mounting / Gland Nut Thread |

M12 X Code Rear Panel Mounting Female - RJ45



PXMBNI12RAF08XRJM16

- 8 pole
- Solder termination
- Metal flex body
- Mates with flex inline body connectors



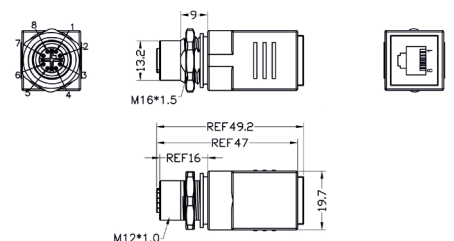
| Part Number         | Poles | Code | Termination | Mounting Nut                    |
|---------------------|-------|------|-------------|---------------------------------|
| PXMBNI12RAF08XRJM16 | 08    | X    | RJ45        | M16 Mounting / Gland Nut Thread |

M12 X Code Rear Panel Mounting Female - RJ45



PXMBNI12RPM08XRJM16

- 8 pole
- Solder termination
- Metal flex body
- Mates with flex inline body connectors



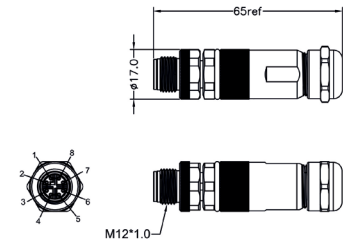
| Part Number         | Poles | Code | Termination | Mounting Nut                   |
|---------------------|-------|------|-------------|--------------------------------|
| PXMBNI12RPM08XRJM16 | 08    | X    | RJ45        | M16 Mounting / Gland Nut Threa |

Nickel Plated M12 X Code Flex Inline Body Male



PXMBNI12FIM08XSCPG9

- ⬡ 8 pole
- ⬡ Solder termination
- ⬡ Metal flex inline body
- ⬡ Mates with flex body and panel mount connectors



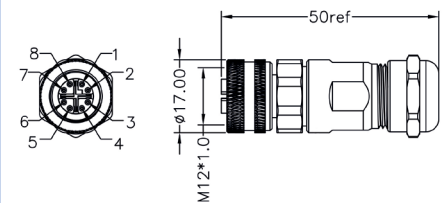
| Part Number         | Poles | Code | Termination     | Mounting Nut                    |
|---------------------|-------|------|-----------------|---------------------------------|
| PXMBNI12FIM08XSCPG9 | 08    | X    | Solder Terminal | PG9 Mounting / Gland Nut Thread |

Nickel Plating M12 X Code Flex Body Female



PXMBNI12FBF08XSCPG9

- ⬡ 8 pole
- ⬡ Solder termination
- ⬡ Metal Flex Body
- ⬡ Mates with Flex Inline Body and panel mount connectors

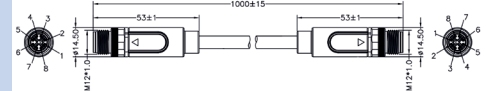


| Part Number         | Poles | Code | Termination     | Mounting Nut                   |
|---------------------|-------|------|-----------------|--------------------------------|
| PXMBNI12FBF08XSCPG9 | 08    | X    | Solder Terminal | PG9 Mounting / Gland Nut Threa |



PXPTPU12FIM08XFI010PU

- ⬡ 8 pole
- ⬡ Choice of cable lengths
- ⬡ TPU flex body overmold
- ⬡ PU jacket cable

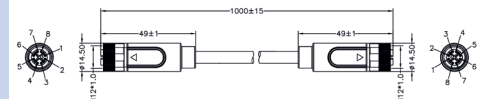


| Part Number           | Poles | Code | Termination    | Lead Length | Cable Material |
|-----------------------|-------|------|----------------|-------------|----------------|
| PXPTPU12FIM08XFI010PU | 08    | X    | Overmold Cable | 1m          | PU             |
| PXPTPU12FIM08XFI020PU | 08    | X    | Overmold Cable | 2m          | PU             |
| PXPTPU12FIM08XFI030PU | 08    | X    | Overmold Cable | 3m          | PU             |
| PXPTPU12FIM08XFI050PU | 08    | X    | Overmold Cable | 5m          | PU             |
| PXPTPU12FIM08XFI100PU | 08    | X    | Overmold Cable | 10m         | PU             |



PXPTPU12FBF08XFB010PU

- ⬡ 8 pole
- ⬡ Choice of cable lengths
- ⬡ TPU flex body overmold
- ⬡ PU jacket cable

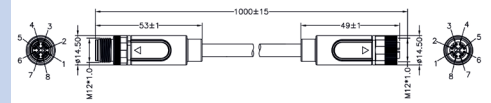


| Part Number           | Poles | Code | Termination    | Lead Length | Cable Material |
|-----------------------|-------|------|----------------|-------------|----------------|
| PXPTPU12FBF08XFB010PU | 08    | X    | Overmold Cable | 1m          | PU             |
| PXPTPU12FBF08XFB020PU | 08    | X    | Overmold Cable | 2m          | PU             |
| PXPTPU12FBF08XFB030PU | 08    | X    | Overmold Cable | 3m          | PU             |
| PXPTPU12FBF08XFB050PU | 08    | X    | Overmold Cable | 5m          | PU             |
| PXPTPU12FBF08XFB100PU | 08    | X    | Overmold Cable | 10m         | PU             |



PXPTPU12FIM08XFB010PU

- 8 pole
- Choice of cable lengths
- TPU flex body overmold
- PU jacket cable

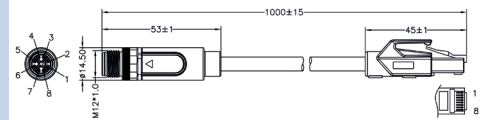


| Part Number           | Poles | Code | Termination    | Lead Length | Cable Material |
|-----------------------|-------|------|----------------|-------------|----------------|
| PXPTPU12FIM08XFB010PU | 08    | X    | Overmold Cable | 1m          | PU             |
| PXPTPU12FIM08XFB020PU | 08    | X    | Overmold Cable | 2m          | PU             |
| PXPTPU12FIM08XFB030PU | 08    | X    | Overmold Cable | 3m          | PU             |
| PXPTPU12FIM08XFB050PU | 08    | X    | Overmold Cable | 5m          | PU             |
| PXPTPU12FIM08XFB100PU | 08    | X    | Overmold Cable | 10m         | PU             |



PXPTPU12FIM08XRJ010PU

- 8 pole
- Choice of cable lengths
- TPU flex body overmold
- PU jacket cable

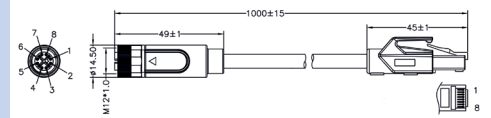


| Part Number           | Poles | Code | Termination    | Lead Length | Cable Material |
|-----------------------|-------|------|----------------|-------------|----------------|
| PXPTPU12FIM08XRJ010PU | 08    | X    | Overmold Cable | 1m          | PU             |
| PXPTPU12FIM08XRJ020PU | 08    | X    | Overmold Cable | 2m          | PU             |
| PXPTPU12FIM08XRJ030PU | 08    | X    | Overmold Cable | 3m          | PU             |
| PXPTPU12FIM08XRJ050PU | 08    | X    | Overmold Cable | 5m          | PU             |
| PXPTPU12FIM08XRJ100PU | 08    | X    | Overmold Cable | 10m         | PU             |

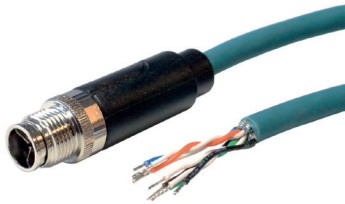


PXPTPU12FBF08XRJ010PU

- 8 pole
- Choice of cable lengths
- TPU flex body overmold
- PU jacket cable

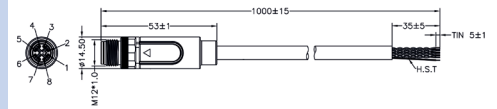


| Part Number           | Poles | Code | Termination    | Lead Length | Cable Material |
|-----------------------|-------|------|----------------|-------------|----------------|
| PXPTPU12FBF08XRJ010PU | 08    | X    | Overmold Cable | 1m          | PU             |
| PXPTPU12FBF08XRJ020PU | 08    | X    | Overmold Cable | 2m          | PU             |
| PXPTPU12FBF08XRJ030PU | 08    | X    | Overmold Cable | 3m          | PU             |
| PXPTPU12FBF08XRJ050PU | 08    | X    | Overmold Cable | 5m          | PU             |
| PXPTPU12FBF08XRJ100PU | 08    | X    | Overmold Cable | 10m         | PU             |

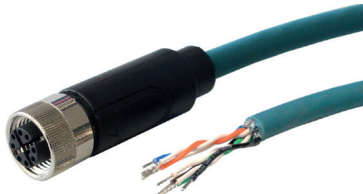


PXPTPU12FIM08XCL010PU

- 8 pole
- Choice of cable lengths
- TPU flex body overmold
- PU jacket cable

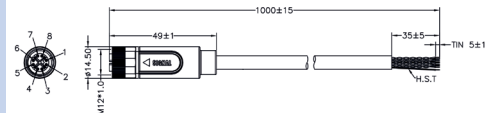


| Part Number           | Poles | Code | Termination    | Lead Length | Cable Material |
|-----------------------|-------|------|----------------|-------------|----------------|
| PXPTPU12FIM08XCL010PU | 08    | X    | Overmold Cable | 1m          | PU             |
| PXPTPU12FIM08XCL020PU | 08    | X    | Overmold Cable | 2m          | PU             |
| PXPTPU12FIM08XCL030PU | 08    | X    | Overmold Cable | 3m          | PU             |
| PXPTPU12FIM08XCL050PU | 08    | X    | Overmold Cable | 5m          | PU             |
| PXPTPU12FIM08XCL100PU | 08    | X    | Overmold Cable | 10m         | PU             |



PXPTPU12FBF08XCL010PU

- 8 pole
- Choice of cable lengths
- TPU flex body overmold
- PU jacket cable



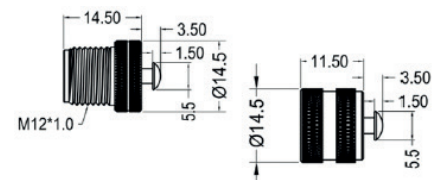
| Part Number           | Poles | Code | Termination    | Lead Length | Cable Material |
|-----------------------|-------|------|----------------|-------------|----------------|
| PXPTPU12FBF08XCL010PU | 08    | X    | Overmold Cable | 1m          | PU             |
| PXPTPU12FBF08XCL020PU | 08    | X    | Overmold Cable | 2m          | PU             |
| PXPTPU12FBF08XCL030PU | 08    | X    | Overmold Cable | 3m          | PU             |
| PXPTPU12FBF08XCL050PU | 08    | X    | Overmold Cable | 5m          | PU             |
| PXPTPU12FBF08XCL100PU | 08    | X    | Overmold Cable | 10m         | PU             |

PA66 M12 Sealing Cap



PXPPAM12

- Sealing caps to maintain IP rating
- Male & Female versions



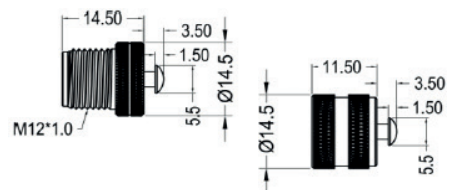
| Part Number | Series | Type   | Material |
|-------------|--------|--------|----------|
| PXPPAM12CAM | M12    | Male   | PA66     |
| PXPPAM12CAF | M12    | Female | PA66     |

Brass - Nickel Plating M12 Sealing Cap



PXMBNI12

- Sealing caps to maintain IP rating
- Male & Female versions



| Part Number | Series | Type   | Material               |
|-------------|--------|--------|------------------------|
| PXMBNI12CAM | M12    | Male   | Brass - Nickel Plating |
| PXMBNI12CAF | M12    | Female | Brass - Nickel Plating |



| Electrical               |               | Mechanical:                          |                      |
|--------------------------|---------------|--------------------------------------|----------------------|
| No. Poles:               | 8             | Locking Mechanism:                   | Screw coupling       |
| Current Rating:          | 0.5A          | Sealing:                             | IP67                 |
| Voltage Rating (ac/dc) : | 48V           | Contact Accomodation:                |                      |
| Contact Resistance:      | <5mΩ          | 8 Pole                               | 26AWG x 4P + AEB     |
| Insulation Resistance:   | >100MΩ        | Cable:                               | 6.2mm Dia            |
| Operating Temp Range:    | -25°C to 85°C | Terminations:                        |                      |
|                          |               | 8                                    | PCB / Solder / Cable |
|                          |               | Mechanical Operation:                | 500 mating cycles    |
|                          |               | Largest diameter over coupling ring: | 20.0mm               |

| Materials:         | Panel Mount:                  | Cable Connectors:             | Flex & Inline Connectors:     |
|--------------------|-------------------------------|-------------------------------|-------------------------------|
| Body:              | Nickel Plated Brass           | TPU                           | Nickel Plated Brass           |
| Coupling Nut:      | Nickel Plated Brass           | Nickel Plated Brass           | Nickel Plated Brass           |
| Colour:            | Grey                          | Black                         | Grey                          |
| Pin Contacts:      | Brass, Gold plating           | Brass, Gold plating           | Brass, Gold plating           |
| Socket Contacts:   | Phosphor Bronze, Gold plating | Phosphor Bronze, Gold plating | Phosphor Bronze, Gold plating |
| O Rings & Gaskets: | Viton                         | Viton                         | Viton                         |
| RoHS:              | Compliant                     | Compliant                     | Compliant                     |

| MX     | XXX                                          | XX          | XX                       | X           | XX           | X    | XX                    |
|--------|----------------------------------------------|-------------|--------------------------|-------------|--------------|------|-----------------------|
| Series | Material                                     | Series Size | Body Style               | Orientation | NO. Contacts | Code | Termination           |
| PXM    | BNI = Brass Nickel<br>TPU = overmold for PUR | 12          | FB = Flex Body           | M           | 08           | X    | PC = PCB              |
| PXP    |                                              |             | FI = Flex Inline Body    | F           |              |      | CL = Cable            |
|        |                                              |             | RP = Rear Panel Mounting |             |              |      | SC = Solder           |
|        |                                              |             | RA = Right Angle         |             |              |      | RJ = RJ45             |
|        |                                              |             |                          |             |              |      | FB = FLEX BODY        |
|        |                                              |             |                          |             |              |      | FI = FLEX INLINE BODY |

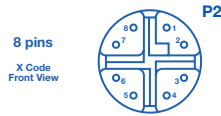
| XXX                         | XXX         | XXX            |
|-----------------------------|-------------|----------------|
| Mounting / Gland Nut Thread | Lead Length | Cable Material |
| PG9                         | 010         | PU             |
| M16                         | 020         |                |
|                             | 030         |                |
|                             | 050         |                |
|                             | 100         |                |

Contact Diagrams:

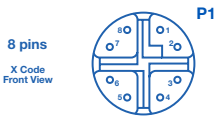
PXMBNI12RPM08XPCM16  
PXMBNI12FIM08XSCPG9



PXMBNI12RPF08XPCM16  
PXMBNI12FBF08XSCPG9



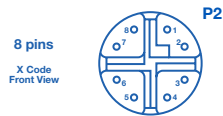
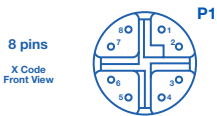
PXMBNI12RAF08XRJM16  
PXMBNI12RPM08XRJM16



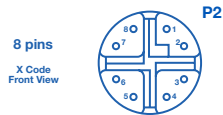
PXPTPU12FIM08XFI010PU



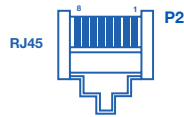
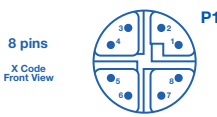
PXPTPU12FBF08XFB010PU



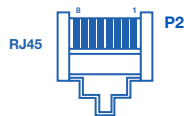
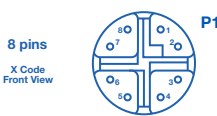
PXPTPU12FIM08XFB010PU



PXPTPU12FIM08XRJ010PU



PXPTPU12FBF08XRJ010PU



PXPTPU12FIM08XCL010PU



P2  
TINNED  
WIRES

PXPTPU12FBF08XCL010PU



P2  
TINNED  
WIRES

| P1 | PAIR                                                                              | WIRE COLOUR    | P2 |
|----|-----------------------------------------------------------------------------------|----------------|----|
| 1  |  | WHITE / ORANGE | 1  |
| 2  |                                                                                   |                | 2  |
| 3  |  | WHITE / GREEN  | 3  |
| 4  |                                                                                   |                | 4  |
| 5  |  | WHITE / BLUE   | 5  |
| 6  |                                                                                   |                | 6  |
| 7  |  | WHITE / BROWN  | 7  |
| 8  |                                                                                   |                | 8  |

| P1    | PAIR                                                                                | WIRE COLOUR    | P2    |
|-------|-------------------------------------------------------------------------------------|----------------|-------|
| 1     |   | WHITE / ORANGE | 1     |
| 2     |                                                                                     |                | 2     |
| 3     |  | WHITE / GREEN  | 3     |
| 4     |                                                                                     |                | 4     |
| 5     |  | WHITE / BLUE   | 5     |
| 6     |                                                                                     |                | 6     |
| 7     |  | WHITE / BROWN  | 7     |
| 8     |                                                                                     |                | 8     |
| SHELL |  |                | SHELL |

| P1    | PAIR                                                                                | WIRE COLOUR    | P2    |
|-------|-------------------------------------------------------------------------------------|----------------|-------|
| 1     |  | WHITE / ORANGE | 1     |
| 2     |                                                                                     |                | 2     |
| 3     |  | WHITE / GREEN  | 3     |
| 4     |                                                                                     |                | 4     |
| 5     |  | WHITE / BLUE   | 5     |
| 6     |                                                                                     |                | 6     |
| 7     |  | WHITE / BROWN  | 7     |
| 8     |                                                                                     |                | 8     |
| SHELL |  | BRAID          | SHELL |

| P1    | PAIR                                                                                | WIRE COLOUR    | P2   |  |
|-------|-------------------------------------------------------------------------------------|----------------|------|--|
| 1     |  | WHITE / ORANGE | OPEN |  |
| 2     |                                                                                     |                |      |  |
| 3     |  | WHITE / GREEN  |      |  |
| 4     |                                                                                     |                |      |  |
| 5     |  | WHITE / BLUE   |      |  |
| 6     |                                                                                     |                |      |  |
| 7     |  | WHITE / BROWN  |      |  |
| 8     |                                                                                     |                |      |  |
| SHELL |  | BRAID          |      |  |