



# Distribution Box

Total solution with a comprehensive range of cordsets, field installable and accessories

Optimized Design Competitive Price

**Amphenol LTW**<sup>®</sup>  
Unrivaled InterConnects for Harsh Environments

# Distribution Box

## Space and cost saving solution

Amphenol LTW's distribution boxes facilitate efficient cable management, easy installation with pre-wired configuration, and provides a centralized distribution point for M8 and M12 connectors. They support various connectivity options, enhancing system efficiency and productivity with secure data and power transmission.

Our distribution boxes are perfect for industrial environments, catering to automation, robotics, and processing facilities. They provide cost-effective solutions through automated dispensing and streamlined production. With the durability, robust IP67-rated protection, and resistance to vibration and environmental factors, these boxes deliver reliable performance in harsh conditions.

## Key Features

### IP67 Unmated:

Ideal for outdoor environments

### LED Indicators:

Power and function indicator

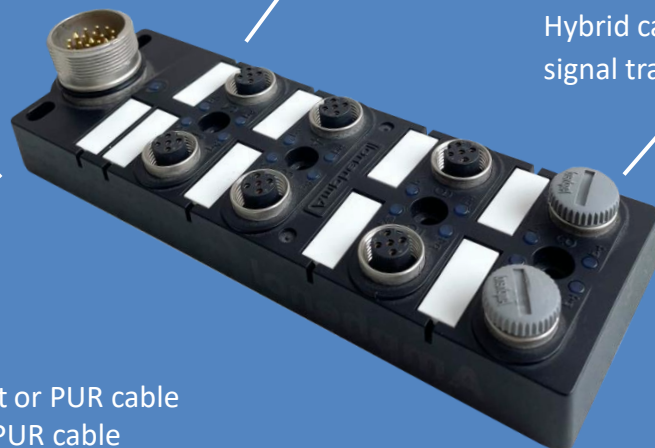


### Power and Signal:

Hybrid cable for power and signal transmission

### Various Options:

- M8 with 4, 6, 8 ports  
M12 with 4, 8 ports
- M8 with M12, M16 output or PUR cable  
M12 with M23 output or PUR cable



# Distribution Box

Total solution with a comprehensive range

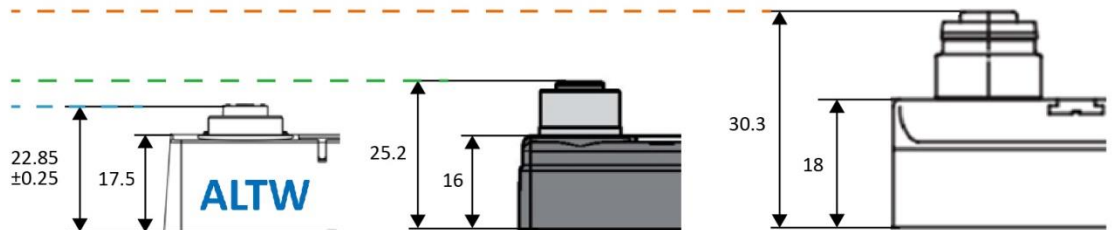


## Your Advantages

- ✓ Cost and space saving solution
- ✓ Oil-Resistant
- ✓ With PUR cable (Abrasion Resistant) or homerun connector
- ✓ Materials are UL compliant
- ✓ LED indicators for power and function visual cue
- ✓ Safety models for M12 inputs and outputs according to IEC61076-2-101
- ✓ Accessories availability - waterproof caps, cordsets, cable assemblies & field installable
- ✓ Customization availability - labels, different coding, pre-wires with high bending cables for constant moving applications
- ✓ ROHS, REACH compliant

Competitor 1

Competitor 2  
Amphenol LTW



Space saving solution

# M8 Distribution Box



- IP67 unmated.
- Oil-Resistant.
- 4, 6 and 8 port single or dual pre-wired PUR cable or M12 or M16 homerun connector.
- LED indicators for power and function.
- Materials UL compliant.
- Customization availability - labels, different coding, pre-wires with high bending cables for constant moving applications.

## Part Number:

| Type              |                            |                    | 4 Port             | 6 Port             | 8 Port             |
|-------------------|----------------------------|--------------------|--------------------|--------------------|--------------------|
| PUR Cable (black) | Cable Length <sup>1)</sup> | 1m                 | DB8-3A4CAB-SPS7B01 | DB8-3A6CAB-SPS7B01 | DB8-3A8CAB-SPS7B01 |
|                   |                            | 2m                 | DB8-3A4CAB-SPS7B02 | DB8-3A6CAB-SPS7B02 | DB8-3A8CAB-SPS7B02 |
|                   |                            | 3m                 | DB8-3A4CAB-SPS7B03 | DB8-3A6CAB-SPS7B03 | DB8-3A8CAB-SPS7B03 |
|                   |                            | 4m                 | DB8-3A4CAB-SPS7B04 | DB8-3A6CAB-SPS7B04 | DB8-3A8CAB-SPS7B04 |
|                   |                            | 5m                 | DB8-3A4CAB-SPS7B05 | DB8-3A6CAB-SPS7B05 | DB8-3A8CAB-SPS7B05 |
|                   |                            | 10m                | DB8-3A4CAB-SPS7B10 | DB8-3A6CAB-SPS7B10 | DB8-3A8CAB-SPS7B10 |
| Homerun Connector | M12                        | DB8-3A4M12-SPS7001 | -                  | -                  |                    |
|                   | M16                        | -                  | DB8-3A6M16-SPS7001 | DB8-3A8M16-SPS7001 |                    |

<sup>1)</sup> Standard lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ might be required for non-standard lengths

### Waterproof Cap



(Plastic) CAP-WBBFSMA1

# M8/G8 Over-molded Connector with Cable



## Single Ended Connectors (male connector, male contact)

| Series    | Cable      | Straight           |                       | Right Angle        |                       |
|-----------|------------|--------------------|-----------------------|--------------------|-----------------------|
|           |            | with Strain Relief | without Strain Relief | with Strain Relief | without Strain Relief |
| M8        | PVC, black | 8-03AMMM-SL7AXX    | 8-03BMMM-SL7AXX       | 8-03AMMM-SR7AXX    | 8-03BMMM-SR7AXX       |
|           | PUR, black | 8-03AMMM-SL7BXX    | 8-03BMMM-SL7BXX       | 8-03AMMM-SR7BXX    | 8-03BMMM-SR7BXX       |
| Guided M8 | PVC, black | 8A-03AMMM-SL7AXX   | -                     | 8A-03AMMM-SR7AXX   | -                     |
|           | PUR, black | 8A-03AMMM-SL7BXX   | -                     | 8A-03AMMM-SR7BXX*  | -                     |

<sup>1)</sup> Cable length: XX standard lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ might be required for non-standard lengths

## Double Ended Connectors

| Cable Type | End 1 (left)     | End 2 (right)      | M8               | Guided M8          |
|------------|------------------|--------------------|------------------|--------------------|
| PUR, black | Male straight    | Male straight      | M803ML-8ML-SB ①* | M8A03ML-8AML-SB ①* |
| PUR, black | Male straight    | Male right angle   | M803ML-8MR-SB ①* | M8A03ML-8AMR-SB ①* |
| PUR, black | Male straight    | Female straight    | M803ML-8FL-SB ①* | M8A03ML-8AFL-SB ①* |
| PUR, black | Male straight    | Female right angle | M803ML-8FR-SB ①* | M8A03ML-8AFR-SB ①* |
| PUR, black | Male right angle | Male right angle   | M803MR-8MR-SB ①* | M8A03MR-8AMR-SB ①* |
| PUR, black | Male right angle | Female right angle | M803MR-8FR-SB ①* | M8A03MR-8AFR-SB ①* |
| PUR, black | Female straight  | Male right angle   | M803FL-8MR-SB ①* | M8A03FL-8AMR-SB ①* |
| PVC, black | Male straight    | Male straight      | M803ML-8ML-SD010 | M8A03ML-8AML-SD ①* |
| PVC, black | Male straight    | Male right angle   | M803ML-8MR-SD ①* | M8A03ML-8AMR-SD ①* |
| PVC, black | Male straight    | Female straight    | M803ML-8FL-SD ①* | M8A03ML-8AFL-SD ①* |
| PVC, black | Male straight    | Female right angle | M803ML-8FR-SD ①* | M8A03ML-8AFR-SD ①* |
| PVC, black | Male right angle | Male right angle   | M803MR-8MR-SD ①* | M8A03MR-8AMR-SD ①* |
| PVC, black | Male right angle | Female right angle | M803MR-8FR-SD ①* | M8A03MR-8AFR-SD ①* |
| PVC, black | Female straight  | Male right angle   | M803FL-8MR-SD ①* | M8A03FL-8AMR-SD ①* |

① Cable length: XX standard lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ might be required for non-standard lengths

\* Upon request.

<sup>2)</sup> High bending cable is upon request.

### Tips:

The Guided M8 (G8) Series is derived from M8 series with alignment key designed to avoid pin damage upon mating. Female G8 is 100% intermateable with Female M8.



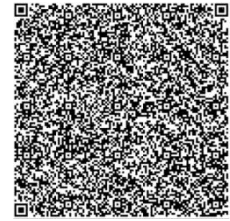
M8



G8



# M12 Distribution Box



- IP67 unmated.
- Oil-Resistant.
- 4 and 8 port single or dual pre-wired PUR cable or M23 homerun connector.
- LED indicators for power and function.
- Safety models for M12 inputs and outputs according to IEC61076-2-101.
- Materials UL compliant.
- Customization availability: labels, different coding, pre-wires with high bending cables for constant moving applications.

## Part Number:

| Type              |                            |     | 4 Port              | 8 Port              |
|-------------------|----------------------------|-----|---------------------|---------------------|
| PUR Cable (black) | Cable Length <sup>1)</sup> | 1m  | DB12-5A4CAB-DPS7B01 | DB12-5A8CAB-DPS7B01 |
|                   |                            | 2m  | DB12-5A4CAB-DPS7B02 | DB12-5A8CAB-DPS7B02 |
|                   |                            | 3m  | DB12-5A4CAB-DPS7B03 | DB12-5A8CAB-DPS7B03 |
|                   |                            | 4m  | DB12-5A4CAB-DPS7B04 | DB12-5A8CAB-DPS7B04 |
|                   |                            | 5m  | DB12-5A4CAB-DPS7B05 | DB12-5A8CAB-DPS7B05 |
|                   |                            | 10m | DB12-5A4CAB-DPS7B10 | DB12-5A8CAB-DPS7B10 |
| Homerun Connector | M23                        |     | DB12-5A4M23-DPS7001 | DB12-5A8M23-DPS7001 |

<sup>1)</sup> Standard lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ might be required for non-standard lengths

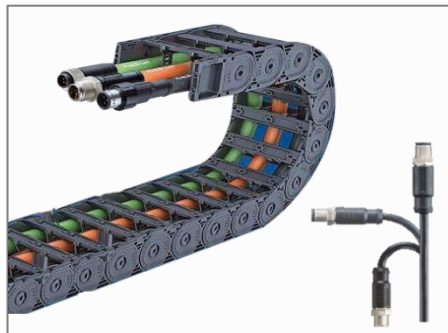
# M12 Single Ended Connectors

| Cable Style | Push Pull | Screw Thread | High Bending | With LED | M12 Straight        | M12 Right Angle     |
|-------------|-----------|--------------|--------------|----------|---------------------|---------------------|
| PUR, black  | ●         |              |              |          | M12A-05BMMM-PL8BXX  | M12A-05BMMM-PR8BXX  |
| PVC, black  | ●         |              |              |          | M12A-05BMMM-PL8DXX  | M12A-05BMMM-PR8DXX  |
| PUR, black  | ●         |              | ●            |          | M12A-05BMMM-PL8NXX  | -                   |
| PVC, yellow |           | ●            |              |          | M12A-05BMMM-SL8AXX  | M12A-05BMMM-SR8AXX  |
| PVC, black  |           | ●            |              |          | M12A-05BMMM-SL8DXX  | M12A-05BMMM-SR8BXX  |
| PUR, black  |           | ●            |              |          | M12A-05BMMM-SL8BXX  | M12A-05BMMM-SR8BXX  |
| PUR, black  |           | ●            | ●            |          | M12A-05BMMM-SL8NXX  | -                   |
| PUR, black  |           | ●            |              | ●        | LM12A-05BMMM-SL8BXX | LM12A-05BMMM-SR8BXX |

<sup>1)</sup> Cable length: XX standard lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ might be required for non-standard lengths



**MPronto-12**  
M12 Push Pull Connector



**High Flexibility**  
(> million Cycle)



**M12 Connector with**  
Over-molded LED (tri-color)

MPronto-12 push-pull plugs are the world's first truly backward compatible to all M12\*1.0 threaded socket with worldwide patents. The benefits and advantages are:

- ✓ 100% backward compatible to all standard female M12\*1.0 sockets of any manufacturer
- ✓ Meets IP67, IP68 and IP69K ingress protection
- ✓ Saves more than 80% of installation time
- ✓ Parts and components available for sale enabling you to do your own cable assembly

We provide highly flexible cables for constant moving applications. Ideal for modern automated manufacturing systems.

- ✓ Highly flexible, secure, reliable and robust
- ✓ Recommended connectors series: M8, M12, Ceres
- ✓ Bending standard: TÜV 2 PFG 2577 Class II
- ✓ Flexible test: 6 Million Cycles ( $S \leq 4\text{mm}^2$ )
- ✓ 90° Bending test: 1 Million Cycles
- ✓ Cableveyor test: 5 Million Cycles

Our connectors are provided with three colors – Green, Orange, Orange and can be used in wide applications such as industrial automation, mobile vehicles and automotive industry... etc.

- ✓ Temperature  $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$
- ✓ Long service life  $\geq 1,000$  cycles
- ✓ Protection class IP68
- ✓ Corrosion resistance up to 48h
- ✓ Meets IEC standard & UL certified
- ✓ EN61373 / SAE J2839 shock & vibration approved

# M12 Double Ended Jumper



| Cable Type | Push Pull | Screw Thread | High Bending | End 1 (left)     | End 2 (right)      | Part Number          |
|------------|-----------|--------------|--------------|------------------|--------------------|----------------------|
| PUR, black | ●         |              | ●            | Male straight    | Male straight      | M12A05ML-12AML-PN ①* |
| PUR, black | ●         |              | ●            | Male straight    | Male right angle   | M12A05ML-12AMR-PN ①* |
| PUR, black | ●         |              |              | Male straight    | Male straight      | M12A05ML-12AML-PB ①  |
| PUR, black | ●         |              |              | Male straight    | Male right angle   | M12A05ML-12AMR-PB ①* |
| PVC, black | ●         |              |              | Male straight    | Male straight      | M12A05ML-12AML-PD ①  |
| PVC, black | ●         |              |              | Male straight    | Male right angle   | M12A05ML-12AMR-PD ①* |
| PUR, black |           | ●            | ●            | Male straight    | Male straight      | M12A05ML-12AML-SN ①  |
| PUR, black |           | ●            | ●            | Male straight    | Male right angle   | M12A05ML-12AMR-SN ①* |
| PUR, black |           | ●            | ●            | Male straight    | Female straight    | M12A05ML-12AFL-SN ①* |
| PUR, black |           | ●            | ●            | Male straight    | Female right angle | M12A05ML-12AFR-SN ①* |
| PUR, black |           | ●            | ●            | Male right angle | Female right angle | M12A05ML-12AMR-SN ①  |
| PUR, black |           | ●            | ●            | Male right angle | Female right angle | M12A05MR-12AFR-SN ①* |
| PUR, black |           | ●            | ●            | Female straight  | Male right angle   | M12A05FL-12AMR-SN ①* |
| PUR, black |           | ●            |              | Male straight    | Male straight      | M12A05ML-12AML-SB ①  |
| PUR, black |           | ●            |              | Male straight    | Male right angle   | M12A05ML-12AMR-SB ①  |
| PUR, black |           | ●            |              | Male straight    | Female straight    | M12A05ML-12AFL-SB ①  |
| PUR, black |           | ●            |              | Male straight    | Female right angle | M12A05ML-12AFR-SB ①  |
| PUR, black |           | ●            |              | Male right angle | Male right angle   | M12A05MR-12AMR-SB ①  |
| PUR, black |           | ●            |              | Male right angle | Female right angle | M12A05MR-12AFR-SB ①  |
| PUR, black |           | ●            |              | Female straight  | Male right angle   | M12A05FL-12AMR-SB ①* |
| PVC, black |           | ●            |              | Male straight    | Male straight      | M12A05ML-12AML-SD ①  |
| PVC, black |           | ●            |              | Male straight    | Male right angle   | M12A05ML-12AMR-SD ①  |
| PVC, black |           | ●            |              | Male straight    | Female straight    | M12A05ML-12AFL-SD ①  |
| PVC, black |           | ●            |              | Male straight    | Female right angle | M12A05ML-12AFR-SD ①  |
| PVC, black |           | ●            |              | Male right angle | Male right angle   | M12A05MR-12AMR-SD ①  |
| PVC, black |           | ●            |              | Male right angle | Female right angle | M12A05MR-12AFR-SD ①  |
| PVC, black |           | ●            |              | Female straight  | Male right angle   | M12A05FL-12AMR-SD ①* |

① Cable length: XX standard lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ might be required for non-standard lengths

\* Upon request.



# M12 Field Installable, Accessories



**Field Installable** (male connector, male contact)

| Assembly Style | Push Pull | Screw Thread | M12 Straight        | M12 Right Angle     |
|----------------|-----------|--------------|---------------------|---------------------|
| Screw-in       | ●         |              | M12A-05BMMB-PL7001* | M12A-05BMMB-PR7001* |
| Crimp          | ●         |              | M12A-05BMMC-PL7001* | M12A-05BMMC-PR7001* |
| IDC            | ●         |              | M12A-05BMMD-PL7001* | M12A-05BMMD-PR7001* |
| Push-in        | ●         |              | M12A-05BMME-PL7001* | -                   |
| Screw-in       |           | ●            | M12A-05BMMB-SL7001  | M12A-05BMMB-SR7001  |
| Crimp          |           | ●            | M12A-05BMMC-SL7001* | M12A-05BMMC-SR7001* |
| IDC            |           | ●            | M12A-05BMMD-SL7001* | M12A-05BMMD-SR7001* |
| Push-in        |           | ●            | M12A-05BMME-SL8001  | -                   |

### Waterproof Cap



(Plastic) CAP-WBDFSMA1  
(Metal) CAP-WBDFSMA2

### T / Y Cable



(T) SS-050500-M<sup>1</sup>0-TSAXX<sup>1)</sup>  
(Y) SS-050000-M00-YSBXX<sup>1)</sup>

### MPronto-12 Kit



**Unrivaled Push-Pull Connector For Self-Assembly**

- ✓ Design your products with the excellent MPronto-12 Kit. You can get all benefits of MPronto-12.
- ✓ With the MPronto-12 kit, you still can use any materials & do your own cable assembly.

APPM-A05MAPAN-AS1

### I / T / Y Adaptor



(I) IA-A05M-A05M-0000-01  
(T) TA-A05<sup>1</sup>-A05<sup>2</sup>-A05<sup>3</sup>-01  
(Y) YA-A05<sup>1</sup>-A05<sup>2</sup>-A05<sup>3</sup>-01

<sup>1</sup><sup>2</sup><sup>3</sup>: Connector Gender **M** (male) / **F** (female)

<sup>1)</sup> Cable length, XX, EX: 01 = 1M. Standard lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ might be required for non-standard lengths .

\* Upon request.

# Best Solution from Amphenol LTW

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## Contact Us

Luc Kan | Sales & Marketing

Email: [luc@ltw-tech.com](mailto:luc@ltw-tech.com)

Customer Service

Email: [sales@ltw-tech.com](mailto:sales@ltw-tech.com)

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