



Distribution Box

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

Optimized Design Competitive Price

Amphenol LTW®
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:

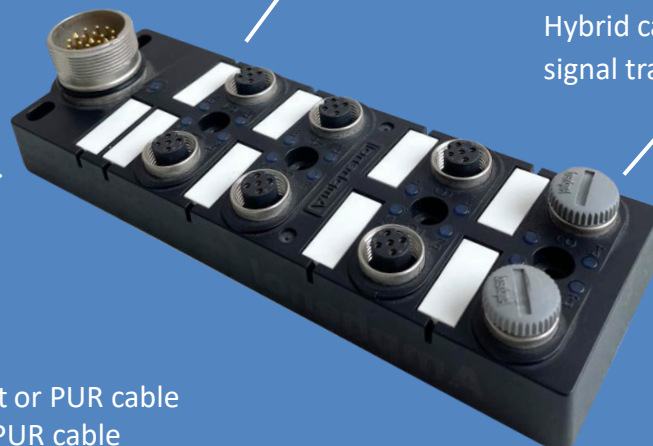
Power and function indicator

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

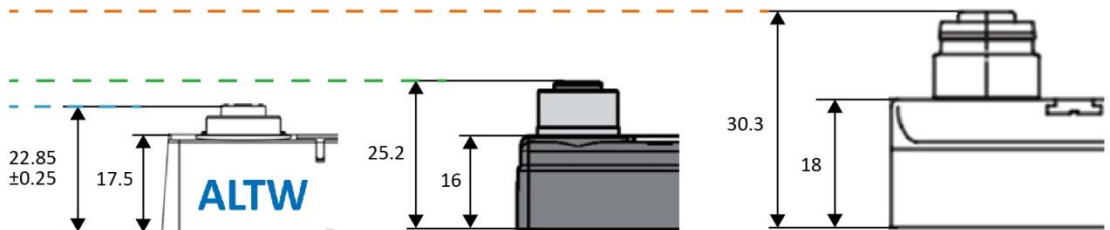
- ✓ Cost and space saving solution
- ✓ Oil-Resistant
- ✓ With PUR cable (Abrasion Resistant) or homerun connector
- ✓ Materials are UL compliant
- ✓ LED indicators for power and function visual cue
- ✓ Safety models for M12 inputs and outputs according to IEC61076-2-101
- ✓ Accessories availability - 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 ¹⁾	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

¹⁾ 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*	-

¹⁾ 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.

²⁾ 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.

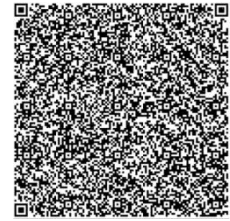


M8



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 ¹⁾	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

¹⁾ 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

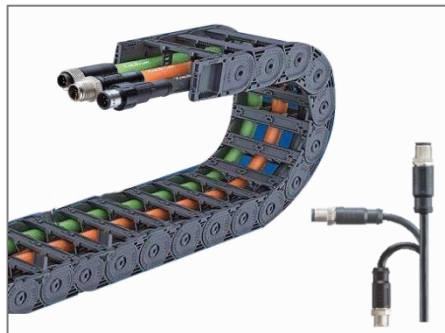
¹⁾ Cable length: XX standard lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ might be required for non-standard lengths



MPronto-12
M12 Push Pull Connector

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



High Flexibility
(> million Cycle)

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



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

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°C ~ 105°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^①0-TSAXX¹⁾
(Y) SS-050000-M00-YSBXX¹⁾

I / T / Y Adaptor



(I) IA-A05M-A05M-0000-01
(T) TA-A05^①-A05^②-A05^③-01
(Y) YA-A05^①-A05^②-A05^③-01

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

^{①②③}: Connector Gender **M** (male) / **F** (female)

¹⁾ 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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