





# Environmentally-Sealed, Multi-Pin, Heavy-Duty, Plastic or Metal Circular Connectors

Amphenol Sine Systems' **DuraMate™ Family** of environmentally-sealed, multi-pin, heavy duty, plastic (AHDP) or metal (AHDM/AHDBM) circular connectors provide an economical, quick-connect, bayonet-locking system manufactured to withstand the challenges and complexities of harsh-environment, off-road applications. Our ISOBUS 91 Series products specifically meet ISO 11783 standards (for control and communications between tractors, implements and software) for agricultural applications. Available in the following variations: **DuraMate™ AHDP, DuraMate™ AHDP with PanelMate™**, **DuraMate™ AHDP with HYPERBUSS™**, **DuraMate™ AHDP ISOBUS 91 Series**, **DuraMate™ AHDM** and **DuraMate™ AHDM/AHDBM ISOBUS 91 Series**.













#### **Key Features**

- 3 key-way bayonet design ensures proper mating of connectors
- High density signal and mixed power insert configurations
- Operating temperature range: -55°C to +125°C
- High current configurations incorporating revolutionary RADSOK® contacts
- High strength impact resistant & lightweight thermoplastic or zinc-alloy metal housings
- Low insertion force stamped terminals offer improved manufacturing efficiencies
- Environmentally-sealed and engineered rapid and secure mating system achieves up to IP69K rating (in mated condition) from ingress of dust, water, mud and other contaminants and is vibration resistant
- Sealing features consisting of durable high temperature silicone provide barrier from lubricating oils, hydraulic fluids and fossil fuels
- Wire entry sealing available in three separate ranges for discrete wire applications
- Backshells maintain a compression-fit design to resist maximum pull-out forces and facilitate strain-relief for jacketed cable ranges
- Smooth Ring Adapters (SRA) are designed for use without backshells for a smaller footprint
- Small Thread Adapters (STA) provide an enhanced "step down" threading for use with screw-on or clamshell backshells
- · Wide Thread Adapters (WTA) provide an enhanced threading for use with our wide variety of screw-on or clamshell backshells
- Backshell Ring Adapters (BRA) allow for use with other compatible industry-standard snap-on backshells
- Utilizes A Series™ standard contact system (Stamped & Formed or Machined)

#### IP Ratings

IP67 rated (Dust tight; 1M of Water for 30 Minutes, in mated condition)
IP68 rated (Dust tight; 1M of Water for 24 Hours, in mated condition)
IP69K rated (Dust tight; High-Pressure Waterproof, 4 Points (0°, 30°, 60°, 90°), in mated condition)













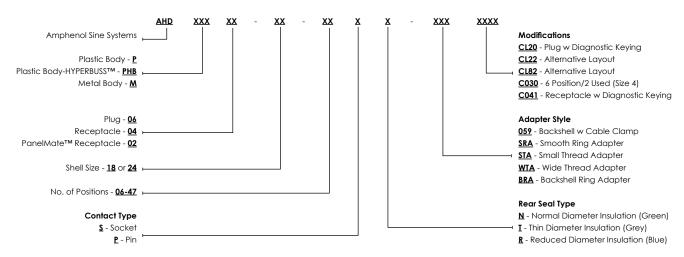


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DuraMate™ AHDP/AHDM Series - Part Numbering Sequence



DuraMate™ AHDP and AHDM Series - Variations



























#### AHDP04-18-06PN-BRA

Shell Size 18, 6 Position, Receptacle, Pin, DuraMate™ AHDP, Plastic, Normal Seal, Backshell Ring Adapter (BRA)



Shell Size 18, 20 Pos, Plug, Socket, DuraMate™ AHDP Series, Plastic, Normal Seal, Smooth Ring Adapter (SRA)

### AHDP04-24-27SR-STA

Shell Size 24, 27 Pos, Receptacle, Pin, DuraMate™ AHDP, Plastic, Normal Diameter Seal, Small Thread Adapter (STA)

### AHDP02-18-08PR-WTA

Shell Size 18, 8 Pos, Receptacle with Flange, Pin, DuraMate $^{\text{TM}}$  AHDP with PanelMate $^{\text{TM}}$ , Plastic, Reduced Seal, Wide Thread Adapter (WTA)

#### AHDPHB04-24-16P-BLK/RED

Shell Size 24, 16 Position, Receptacle, Size 12 Contacts, (1) 16 Pin (400A), DuraMate™ AHDP with HYPERBUSS™, Plastic, Potted, Black or Red Body (Includes bolt, nut and washers)

#### AHDM04-18-08SN

Shell Size 18, 8 Pos, Receptacle, Socket, DuraMate™ AHDM Series, Metal Body, Normal Seal, Wide Thread Adapter (WTA)

#### AHDM06-24-16PR

Shell Size 24, 16 Pos, Plug, Pin, DuraMate™ AHDM Series, Metal Body, Reduced Seal, Wide Thread Adapter



Dura Mate AHDP



















# Environmentally-Sealed, Multi-Pin, Heavy-Duty, Plastic, Circular Connectors

Available in Shell Size 18 with 8 insert arrangements 2, 6, 8, 14(x3), 20 and 21 Available in Shell Size 24 with 16 insert arrangements 7(x2), 9, 14, 16, 18(x2), 19, 21, 23, 27, 29, 31, 33, 35 and 47







#### **Key Features**

- 3 keyway bayonet design ensures proper mating of connectors
- High density signal and mixed power insert configurations
- High current configurations incorporating revolutionary RADSOK® contacts
- Low insertion force stamped terminals offer improved manufacturing efficiencies
- Sealing features consisting of durable high temperature silicone provide barrier from lubricating oils, hydraulic fluids and fossil fuels
- Backshells maintain a compression-fit design to resist maximum pull-out forces and facilitate strain-relief for jacketed cable ranges.
- Wire entry sealing available in four separate ranges for discrete wire applications
- Environmentally-sealed and engineered rapid and secure mating system achieves up to IP69K rating (in mated condition) from ingress of dust, water, mud and other contaminants and is vibration resistant
- Smooth Ring Adapters (SRA) are designed for use without backshells for a smaller footprint
- Small Thread Adapters (STA) provide an enhanced "step down" threading for use with screw-on or clamshell backshells
- Wide Thread Adapters (WTA) provide an enhanced threading for use with our wide variety of screw-on or clamshell backshells
- Backshell Ring Adapters (BRA) allow for use with other compatible industry-standard snap-on backshells
- Utilizes A Series™ standard contact system (Stamped & Formed or Machined)

#### DuraMate™ AHDP - Specifications (Reference Individual Datasheets)

IP Rating (in mated condition)	IP68 and IP69K	
ir kaling (irrinalea conalion)	II do dha ii dak	
Max. Current (Amperage)	Size 4 - 100A / Size 4+ - 100A Size 8 - 60A / Size 8 RADSOK - 80A Size 12 - 25A Size 16 - 13A Size 20 - 7.5A	
Max. Voltage Rating	250V	
Operating Temperature	-55°C to +125°C	
Coupling System	Quick Connect, Circular Bayonet	
Housing Body	Thermoplastic UL94-VO	
Insulation Insert	Thermoplastic UL94-VO	

Contact Types	Stamped & Formed, Machined	
Contact Material	Copper Alloy	
Sealing Material	Silicone Rubber	
Min. Mating Cycles	>100	
Flammability Rating	UL94-VO	
Fluid Resistance	Gas, oil, mineral oil, acid bath, basic bath	
RoHS Compliant	ALL materials meet the requirements of the European Directive. (See website for documentation)	

#### IP Ratings

IP67 rated (Dust tight; 1M of Water for 30 Minutes, in mated condition)
IP68 rated (Dust tight; 1M of Water for 24 Hours, in mated condition)
IP69K rated (Dust tight; High-Pressure Waterproof, 4 Points (0°, 30°, 60°, 90°), in mated condition)















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DuraMate<sup>TM</sup> AHDP - Insert Arrangements (1) C030 - 6 Pos/2 Used (Size 4); (2) C041 - Recep w Diagnostic Keying; (3) CL20 - Plug w Diagnostic Keying; (4) CL22 - Alternative Layout; (5) CL82 - Alternative Layout

			Shell :	Size 18			
18-06 (1) 2 x Size 4	18-06 2 x Size 4, 4 x Size 16	18-08 8 x Size 12	18-14 14 x Size 16	18-14 (2) 14 x Size 16	18-14 (3) 14 x Size 16	18-20 2 x Size 16, 18 x Size 20	18-21 21 x Size 20
							000000
N	N	N R	N R	R	R	N R	N

				Shell S	Size 24				
24-07 1 x Size 8 (RADSOK®) 6 x Size 12	24-07 (4) 3 x Size 4, 4 x Size 16	24-09 1 X Size 4, 2 X Size 8 6 X Size 12	24-14 1 X Size 4, 1 X Size 12 12 X Size 16	24-16 16 x Size 12	24-18 1 X Size 8, 3 X Size 12 14 X Size 16	24-18 (5) 2 X Size 8, 16 X Size 16	24-19 6 X Size 12, 13 X Size 16	24-21 4 X Size 12, 17 X Size 16	24-23 23 X Size 16
						( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (			
N	N	N R	N R	N R	N R	N	N R	N R	N T R

	Shell Size 24					
24-27 4 X Size 12, 23 X Size 16	24-29 4 X Size 12, 19 X Size 16 6 X Size 20		-31 lize 16	24-33 33 x Size 20	24-35 3 X Size 16, 32 X Size 20	24-47 5 X Size 16, 42 X Size 20
				000000000000000000000000000000000000000	00000 000000 000000 000000	00000000000000000000000000000000000000
R	R	R	T	N	R	R

Contact Legend (Size/Amp)					
$\circ$	•	0	•	•	0
Size 4 or 4+ 100A	Size 8 60A	Size 8 RADSOK® 80A	Size 12 25A	Size 16 13A	Size 20 7.5A

DuraMate<sup>™</sup> AHDP - Recommended Wire Insulation Overall Diameter (OD) 4+ contact is only available for 24-07CL22

Contact Size	Typical Wire Range	( <b>N</b> ) Normal Seal	( <b>T</b> ) Thin Seal	( <b>R</b> ) Reduced Se	al (See datasheets)
4+	4AWG (25.0-21.0mm²)	7.9-10.67mm (0.311-0.420")	-	-	-
4	6AWG (16.0-13.0mm²)	6.63-7.41mm (0.261-0.292")	-	6.63-7.41mm (0.261-0.292")	-
8	8-10AWG (10.0-5.0mm²)	4.83-6.10mm (0.190-0.240")	-	3.43-5.59mm (0.135-0.220")	-
12	10-14AWG (6.0 2.0mm²)	3.43-4.32mm (0.1350170")	=	2.46-4.01mm (0.135-0.158")	2.46-4.01mm (0.135-0.158")
16	14-20AWG (2.0-0.5mm²)	2.54-3.40mm (0.100-0.134")	2.23-2.69mm (0.088106")	1.35-3.05mm(0.053-0.120")	1.35-2.62mm (0.053-0.103")
20	16-22AWG (1.5-0.35mm²)	1.02-2.41mm (0.040095")	-	1.02-02.41mm (0.040-0.095")	1.02-2.10mm (0.040-0.083")

DuraMate™ AHDP - Backshell Options and Accessory Overview



www.amphenol-sine.com

Updated 05-2025



 ${\sf DuraMate^{TM}\ AHDP-Plug\ \&\ Receptacle\ Options\ (Dimensions\ in\ mm)}$ 

Shell Size 18 Plug	Shell Size 18 Receptacle
Backshell Ring Adapter (BRA)	Backshell Ring Adapter (BRA)
50m - 10m -	63.2m
Smooth Ring Adapter (SRA)	Smooth Ring Adapter (SRA)
-	-
-	-
Wide Thread Adapter (WTA)	Wide Thread Adapter (WTA)
23 to 1	

Shell Size 24 Plug	Shell Size 24 Receptacle
Backshell Ring Adapter (BRA)	Backshell Ring Adapter (BRA)
	90. The state of t
Smooth Ring Adapter (SRA)	Smooth Ring Adapter (SRA)
Small Thread Adapter (STA)	Small Thread Adapter (STA)
Wide Thread Adapter (WTA)	Wide Thread Adapter (WTA)

 ${\sf DuraMate^{TM}\ AHDP\ with\ Panel Mate^{TM}\ -\ Receptacle\ Options\ (Dimensions\ in\ mm)}$ 

	Shell Size 18 Receptacle
-	PanelMate™ with Backshell Ring Adapter (BRA)
-	433 mm of 50 mm
-	PanelMate™ with Smooth Ring Adapter (SRA)
-	
-	-
-	-
-	PanelMate™ with Wide Thread Adapter (WTA)
-	

	Shell Size 24 Receptacle
-	PanelMate™ with Backshell Ring Adapter (BRA)
-	900 mm 10 50
-	PanelMate™ with Smooth Ring Adapter (SRA)
-	
-	PanelMate™ with Wide Thread Adapter (STA)
-	as I I
-	PanelMate™ with Wide Thread Adapter (WTA)
-	

DuraMate<sup>™</sup> AHDP with HYPERBUSS<sup>™</sup> - Receptacle Option (Dimensions in mm) \*For more information, refer to HYPERBUSS<sup>™</sup> Family Literature

-	-
-	-

	Shell Size 24 Receptacle	
-	HYPERBUSS™ (Ground/Positive)	
-	11 from	

DuraMate™ AHDP - Backshell Option	ns and Accessories  Part Number	Passining
Image	Part Number	Description  Shall Size 19. Reskehall. Conduit. Span Over Right Angle. Duramate TM A HDP.
	AHDPBS-015-1805	Shell Size 18, Backshell, Conduit, Snap Over, Right Angle, Duramate™ AHDP  Note: For use with Wide Thread Adapter (WTA). May also be used on DuraMate™ AHDM with P/N AHDM-BS-18NUT Adapter
	AHDPBS-15L017-1805	Shell Size 18, Backshell, Conduit, Snap-Over, Right Angle, DuraMate™ AHDP  Note: For use with Backshell Ring Adapter (BRA)
	AHDPBS-011-2405	Shell Size 24, Backshell, Conduit, Snap Over, Right Angle, DuraMate™ AHDP  Note: For use with Wide Thread Adapter (WTA). May also be used on DuraMate™ AHDM with P/N AHDM-BS-24NUT Adapter
	AHDPBS-11L017-2405	Shell Size 24, Backshell, Conduit, Snap-Over, Right Angle, DuraMate™ AHDP  Note: For use with Backshell Ring Adapter (BRA) and Small Thread Adapter (STA)
	AHDPBS-016-1805	Shell Size 18, Backshell, Conduit, Snap Over, Straight, Duramate™ AHDP  Note: For use with Wide Thread Adapter (WTA). May also be used on DuraMate™ AHDM with P/N AHDM-BS-18NUT Adapter
	AHDPBS-16L017-1805	Shell Size 18, Backshell, Conduit, Snap-Over, Straight, DuraMate™ AHDP <b>Note:</b> For use with Backshell Ring Adapter (BRA)
1	AHDPBS-010-2405	Shell Size 24, Backshell, Conduit, Snap Over, Straight, DuraMate™ AHDP  Note: For use with Wide Thread Adapter (WTA). May also be used on DuraMate™ AHDM with P/N AHDM-BS-24NUT Adapter
	AHDPBS-10L017-2405	Shell Size 24, Backshell, Conduit, Snap-Over, Straight, DuraMate™ AHDP <b>Note:</b> For use with Backshell Ring Adapter (BRA) and Small Thread Adapter (STA)
	AHDPBS-18-001	Shell Size 18, Backshell, Tie Wrap, Wide Thread Adapter (WTA), Cable Dia. 14.5mm - 18.0mm, Duramate™ AHDP <b>Note:</b> For use with Wide Thread Adapter (WTA)
	AHDPBS-0406-001	Shell Size 24, Backshell, Tie Wrap, Wide Thread Adapter (WTA), DuraMate™ AHDP <b>Note:</b> For use with Wide Thread Adapter (WTA)
	AHDPBS-18-002	Shell Size 18, Backshell, Wide Thread Adapter (WTA), 2PC, Compression Nut, Cable Dia. 14.5mm-18.0mm, Duramate™ AHDP <b>Note:</b> For use with Wide Thread Adapter (WTA)
	AHDPBS-24L015-005	Shell Size 24, Backshell, Small Thread Adapter (STA), 2 PC, Compression Nut, Cable Dia. 14.5mm - 18.0mm, DuraMate™ AHDP <b>Note:</b> For use with Small Thread Adapter (STA)
	AHDPBS-0406-002	Shell Size 24, Backshell, Wide Thread Adapter (WTA), 2 PC, Compression Nut, Cable Dia. 14.5mm - 18.0mm, DuraMate™ AHDP <b>Note:</b> For use with Wide Thread Adapter (WTA)
	AHDPBS-0406-003	Shell Size 24, Backshell, Wide Thread Adapter (WTA), 2 PC, Compression Nut, Cable Dia. 19.5mm - 24.1mm, DuraMate™ AHDP <b>Note:</b> For use with Wide Thread Adapter (WTA)
	AHDPBS-18-SM01	Shell Size 18, Backshell, Sealed, Cable Grommet, Duramate™ AHDP  Note: For use with Wide Thread Adapter (WTA)
	AHDPBS-0406-SM01	Shell Size 24, Backshell, Sealed, Cable Grommet, DuraMate™ AHDP <b>Note:</b> For use with Wide Thread Adapter (WTA)
	AHDPM18-BT	Shell Size 18, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Grey Color
	AHDPM18-BT-BK	Shell Size 18, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Black Color
	AHDPM24-BT	Shell Size 24, Boot, for DuraMate AHDP (SRA only)& AHDM, PVC, Grey Color
	AHDPM24-BT-BK	Shell Size 24, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Black Color
	AHDPM18-BT-RA	Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Grey Color
	AHDPM18-BT-RA-BK	Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color
	AHDPM24-BT-RA	Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Grey Color
	AHDPM24-BT-RA-BK	Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color
	AHDC06-18	Shell Size 18, Receptacle Cap, Sealed, DuraMate™ AHDP
	AHDC06-24	Shell Size 24, Receptacle Cap, Sealed, DuraMate™ AHDP
	AHDC04-18	Shell Size 18, Plug Cap, Sealed, DuraMate™ AHDP
	AHDC04-24	Shell Size 24, Plug Cap, Sealed, DuraMate™ AHDP
	AHDC04-24-PM	Shell Size 24, Plug Cap, Sealed, Threaded, DuraMate™ AHDP
	AHDC04-24-PMT	Shell Size 24, Plug Cap, w Tether, Threaded, Lock Washer, Sealed, DuraMate™ AHDP

Image	Part Number	Description
	AHDC04-18-T	Shell Size 18, Plug Cap, w Tether, Sealed, DuraMate™ AHDP
	AHDC04-24-T	Shell Size 24, Plug Cap, w Tether, Sealed, DuraMate™ AHDP
	AHDPSCC-24	Shell Size 24, Self-Closing Protective Cap, DuraMate™ AHDP / DuraMate™ AHDP ISOBUS 91 Series, Black
	AHDP18-PN01	Shell Size 18, Panel Nut, DuraMate™ AHDP
0	AHDP24-PN01	Shell Size 24, Panel Nut, Duramate™ AHDP
	AT14-002-1886	Shell Size 18, Lock Washer, Wave, DuraMate™ AHDP
	AT14-001-2486	Shell Size 24, Lock Washer, Wave, Duramate™ AHDP
	AHDP-16-04978	Shell Size 18, Rubber Flange Seal, Duramate™ AHDP/ Duramate™ AHDM
	AHDP-16-04477	Shell Size 24, Rubber Flange Seal, Duramate™ AHDP/ Duramate™ AHDM
•	A114019	Contact Size 4, Blank Seal Plug
<b>(</b>	A114018	Contact Size 8, Blank Seal Plug
4	A114017	Contact Size 12/16, Blank Seal Plug
_	AT13-217-1605	Contact Size 16, Locking Seal Plug
~	AT13-204-2005	Contact Size 20, Blank Seal Plug
	AT11-027-0405	Contact Size 4+, Contact Removal Tool, 4AWG
	AT114009	Contact Size 4, Contact Removal Tool, 6AWG
	AT11-001-3.6M	Contact Size 8, Contact Removal Tool, 7-10AWG
	AT114008	Contact Size 8, Contact Removal Tool, 8-10AWG
	AT11-337-1205	Contact Size 12 , Contact Removal Tool, 12-14AWG
	AT11-310-1605	Contact Size 16, Contact Removal Tool, 16-20AWG
	AT11-240-2005	Contact Size 20, Contact Removal Tool, 20-22AWG







### DuraMate<sup>™</sup> AHDP Bussed Receptacles

#### Available in 16 position

Amphenol Sine Systems¹ DuraMate™ AHDP with HYPERBUSS™ Bussed Receptacles are an environmentally-sealed, multi-pin, heavy duty, plastic, circular connector for use in applications where a common "bussed" electrical pathway is required, such as Bussed Feedback Receptacles used as a Splice Block or Tap Block. IP68 and IP69K rated (in mated condition), the DuraMate™ AHDP with HYPERBUSS™ Bussed Receptacles contain an economical, quick-connect, circular, bayonet locking system to ensure proper mating with standard DuraMate™ AHDP plugs, as well as industry standard connectors,

Buss: a conductor, or a group of conductors, used for collecting electric power from the incoming feeders and distributes them to the outgoing feeders; a type of electrical junction in which all the incoming and outgoing electrical current meets.

#### **Kev Features**

- Includes Bolt, Nut and Washers
- Available in Power (Red) or Ground (Black)
- Sealed (potted) Intergrated Bussed Feedback Assembly
- IP68 and IP69K rated (in mated condition)
- Quick-connect, circular, bayonet coupling system
- Intermateable with standard DuraMate™ AHDP plugs





Applications: Heavy Duty, Transportation, Marine, Military, Alternative Energy, Agricultural and other interconnect

DuraMate™ AHDP w HYPERBUSS™ - Specifications (Reference Individual Datasheets)

IP Rating (in mated condition)	IP68 and IP69K
Max. Current (Amperage)	25A Each (400A Max)
Max. Voltage Rating	250V
Operating Temperature	-55°C to +125°C
Coupling System	Quick Connect, Circular Bayonet
Housing Body	Thermoplastic UL94-VO
Insulation Insert	Thermoplastic UL94-VO
Contact Types	Machined
Contact Material	Copper Alloy
Bracket	Copper Alloy, Nickel Plated
Sleeves	Aluminum, Black Annodized
Min. Mating Cycles	>100
Flammability Rating	UL94-VO
Fluid Resistance	Gas, oil, mineral oil, acid bath, basic bath
RoHS Compliant	ALL materials meet the requirements of the European Directive. (See website for documentation)

IP67 rated (Dust tight; 1M of Water for 30 Minutes, in mated condition) IP68 rated (Dust tight; 1M of Water for 24 Hours, in mated condition) IP69K rated (Dust tight; High-Pressure Waterproof, 4 Points (0°, 30°, 60°, 90°), in mated condition)









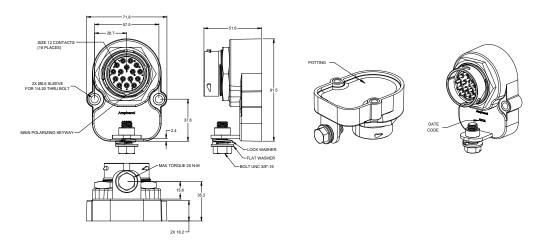






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DuraMate<sup>™</sup> AHDP with HYPERBUSS<sup>™</sup> - 16 Position Bussed Receptacle Dimensions (mm)



DuraMate™ AHDP with HYPERBUSS™ - 16 Position Bussed Receptacles For intermateable DuraMate™ AHDP Series plugs (AHDP06-), refer to our website

Image	Pin Layout/Image	Part Number	Description	Contact Size	Amperage
	6 5 4 3 2 1	AHDPHB04-24-16P-BLK-CN	Shell Size 24, 16 Position, Receptacle, Size 12 Contacts, (1) 16 Pin (400A), DuraMate <sup>TM</sup> AHDP with HYPERBUSS <sup>TM</sup> , Plastic, Potted, Black Body (Includes bolt, nut and washers)	12	25A (400A Max)
	18 17 16 15 14 13 -18PA/-18PB	AHDPHB04-24-16P-RED-CN	Shell Size 24, 16 Position, Receptacle, Size 12 Contacts, (1) 16 Pin (400A), DuraMate <sup>TM</sup> AHDP with HYPERBUSS <sup>TM</sup> , Plastic, Potted, Red Body (Includes bolt, nut and washers)	12	25A (400A Max)





# Environmentally-Sealed, Multi-Pin, Heavy-Duty, Plastic Circular ISOBUS Connectors

#### Available in Shell Size 24, 9 Position

Amphenol Sine Systems¹ **DuraMate™ AHDP ISOBUS 91 Series** connectors are an environmentally-sealed, multi-pin, heavy duty, plastic, circular connector with IP68 and IP69K ratings (in mated condition) that contains an economical, quick-connect, bayonet locking system manufactured to withstand the challenges and complexities of harsh environment, off-road applications. The DuraMate™ AHDP ISOBUS 91 Series is specifically designed to meet ISO 11783 standards (for control and communications between tractors, implements and software) and withstand the challenges and complexities of harsh environment, off-road, agricultural applications.

#### **Key ISOBUS 91 Series Features**

- One-to-one alternative for all HDP20 parts
- Compatible to other industry standard circular bayonet versions
- AHDP 91 Series Plugs have a jumper (bridged contacts) between Pin 4 & 5. (-P064 options have no jumper (bridged contacts) between Pin 4 & 5.)
- + AHDP 91 Series Receptacles do not have a jumper (bridged contact)
- + Options for up to 6AWG/16mm² power wires
- Full range of backshell options

#### Key DuraMate™ Features

- 3 key-way bayonet design ensures proper mating of connectors
- High density signal and mixed power insert configurations
- Operating temperature range: -55°C to +125°C
- High-strength, impact resistant & lightweight thermoplastic housings
- Low-insertion force stamped terminals offer improved manufacturing efficiencies
- Environmentally-sealed and engineered rapid and secure mating system achieves up to IP69K rating (in mated condition) from ingress of dust, water, mud and other
  contaminants and is vibration resistant
- Sealing features consisting of durable high-temperature silicone provide barrier from lubricating oils, hydraulic fluids and fossil fuels
- Backshells maintain a compression-fit design to resist maximum pull-out forces and facilitate strain-relief for jacketed cable ranges
- Wire entry sealing available in four separate ranges for discrete wire applications
- Smooth Ring Adapters (SRA) are designed for use without backshells for a smaller footprint
- Small Thread Adapters (STA) provide an enhanced "step down" threading for use with screw-on or clamshell backshells
- · Wide Thread Adapters (WTA) provide an enhanced threading for use with our wide variety of screw-on or clamshell backshells
- Utilizes A Series<sup>TM</sup> standard contact system (Stamped & Formed or Machined)

DuraMate™ AHDP ISOBUS 91 Series - Specifications (Reference Individual Datasheets)

IP Rating (in mated condition)	IP68 and IP69K
Max. Current (Amperage)	Size 8, 60A Size 12, 25A Size 16, 13A
Max. Voltage Rating	250V
Operating Temperature	-55°C to +125°C
Coupling System	Quick Connect, Circular Bayonet
Housing Body	Thermoplastic UL94-VO
Insulation Insert	Thermoplastic UL94-VO

Contact Types	Stamped & Formed, Machined
Contact Material	Copper Alloy
Sealing Material	Silicone Rubber
Min. Mating Cycles	>100
Flammability Rating	UL94-VO
Fluid Resistance	Gas, oil, mineral oil, acid bath, basic bath
RoHS Compliant	ALL materials meet the requirements of the European Directive. (See website for documentation)

#### **IP Ratings**

IP697 rated (Dust tight; 1M of Water for 30 Minutes, in mated condition)
IP68 rated (Dust tight; 1M of Water for 24 Hours, in mated condition)
IP69K rated (Dust tight; High-Pressure Waterproof, 4 Points (0°, 30°, 60°, 90°), in mated condition)















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#### DuraMate™ AHDP ISOBUS 91 Series - Insert Arrangements

Doraman	, , , , ,	
Shell Si	ze 24	
24-9 2 x Size 8, 2 5 x Size	x Size 12,	
N	R	

Contact Legend (Size/Amp)				
	Contact Legenc	i (size/Amp)		
•	•	•	•	
Size 8 (6AWG) 60A	Size 8 (8-10AWG) 60A	Size 12 25A	Size 16 13A	

#### DuraMate™ AHDP ISOBUS 91 Series - Recommended Wire Insulation Overall Diameter (OD)

Contact Size	Typical Wire Range	( <b>N</b> ) Normal Seal	( <b>R</b> ) Reduced Seal	(R) Reduced Seal for 6AWG/16mm² (Size 8 Contacts Only)
8	6-10AWG (5.0-16.0mm²)	4.83-6.10mm (0.190-0.240'')	3.43-5.59mm (0.135-0.220")	6.50-7.42mm (0.256-0.292")
12	10-14AWG (6.0 2.0mm²)	3.40-4.32mm (0.134-0.170")	2.46-4.01mm (0.135-0.158")	2.46-4.01mm (0.135-0.158")
16	14-20AWG (2.0-0.5mm²)	2.54-3.40mm (0.100-0.134")	1.35-3.05mm (0.053-0.120")	1.35-3.05mm (0.053-0.120")z

DuraMate™ AHDP ISOBUS 91 Series - Backshell Options and Accessory Overview





Lockwashers/Panel Nuts/ Rubber Flange Seals







Wide Variety of Backshell Options

### DuraMate™ AHDP ISOBUS 91 Series - Plug & Receptacle Options (Dimensions in mm)



Shell Size 24 Plug	Shell Size 24 Receptacle	
Small Thread Adapter (STA)	Small Thread Adapter (STA)	
542 3mm	\$40 tem	



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#### DuraMate™ AHDP ISOBUS 91 Series - Plugs

Image	Part Number	Description	Contact Size/Amp	Voltage
	AHDP06-24-91SN-SRA	Shell Size 24, 9 Position, Plug, Socket, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Normal Diameter Seal (Green), Smooth Ring Adapter (SRA)	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDP06-24-91SN-STA	Shell Size 24, 9 Position, Plug, Socket, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Normal Diameter Seal (Green), Small Thread Adapter (STA)	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDP06-24-91SN-WTA	Shell Size 24, 9 Position, Plug, Socket, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Normal Diameter Seal (Green), Wide Thread Adapter (WTA)	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDP06-24-91SR-SRA	Shell Size 24, 9 Position, Plug, Socket, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Reduced Diameter Seal (Blue), Smooth Ring Adapter (SRA)	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDP06-24-91SR-STA	Shell Size 24, 9 Position, Plug, Socket, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Reduced Diameter Seal (Blue), Small Thread Adapter (STA)	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDP06-24-91SR-WTA	Shell Size 24, 9 Position, Plug, Socket, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Reduced Diameter Seal (Blue), Wide Thread Adapter (WTA)	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDP06-24-91SR16-SRA	Shell Size 24, 9 Position, Plug, Socket, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Reduced Diameter Seal (Blue), Smooth Ring Adapter (SRA), Size 8 Contact, 6AWG/16mm² Wire Seal <b>Note</b> : Use AT62-203-08141-16 contacts for 6AWG/16mm² applications	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDP06-24-91SR16-STA	Shell Size 24, 9 Position, Plug, Socket, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Reduced Diameter Seal, Small Thread Adapter STA (Blue), Size 8 Contact, 6AWG/16mm² Wire Seal	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDP06-24-91SR16-WTA	Shell Size 24, 9 Position, Plug, Socket, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Reduced Diameter Seal (Blue), Wide Thread Adapter (WTA), Size 8 Contact, 6AWG/16mm² Wire Seal <b>Note</b> : Use AT62-203-08141-16 contacts for 6AWG/16mm² applications	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDP06-24-91SN-P064	Shell Size 24, 9 Position, Plug, Socket, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Normal Diameter Seal, Smooth Ring Adapter (SRA) (Green)  No Jumper (Bridged Contacts) Between Pin 4 & 5	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDP06-24-91SR-P064	Shell Size 24, 9 Position, Plug, Socket, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Reduced Diameter Seal, Smooth Ring Adapter (SRA) (Green)  No Jumper (Bridged Contacts) Between Pin 4 & 5	Size 8, 60A Size 12, 25A Size 16, 13A	250V

#### DuraMate™ AHDP ISOBUS 91 Series - Receptacles

Image	Part Number	Description	Contact Size/Amp	Voltage
	AHDP04-24-91PN-SRA	Shell Size 24, 9 Position, Receptacle, Pin, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Normal Diameter Seal (Green), Smooth Ring Adapter (SRA)	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDP04-24-91PN-STA	Shell Size 24, 9 Position, Receptacle, Pin, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Normal Diameter Seal, Small Thread Adapter STA (Green)	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDP04-24-91PN-WTA	Shell Size 24, 9 Position, Receptacle, Pin, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Normal Diameter Seal (Green), Wide Thread Adapter (WTA)	Size 8, 60A Size 12, 25A Size 16, 13A	250V

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Image	Part Number	Description	Contact Size/Amp	Voltage
	AHDP04-24-91PR-SRA	Shell Size 24, 9 Position, Receptacle, Pin, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Reduced Diameter Seal (Blue), Smooth Ring Adapter (SRA)	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDP04-24-91PR-STA	Shell Size 24, 9 Position, Receptacle, Pin, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Reduced Diameter Seal, Small Thread Adapter STA (Blue)	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDP04-24-91PR-WTA	Shell Size 24, 9 Position, Receptacle, Pin, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Reduced Diameter Seal (Blue), Wide Thread Adapter (WTA)	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDP04-24-91PR16-SRA	Shell Size 24, 9 Pos, Receptacle, Pin, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Reduced Diameter Seal (Blue), Smooth Ring Adapter (SRA), Size 8 Contact, 6AWG/16mm² Wire Seal Note: Use AT60-204-08141-16 contacts for 6AWG/16mm² applications	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDP04-24-91PR16-STA	Shell Size 24, 9 Position, Receptacle, Pin, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Reduced Diameter Seal, Small Thread Adapter STA (Blue), Size 8 Contact, 6AWG/16mm² Wire Seal	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDP04-24-91PR16-WTA	Shell Size 24, 9 Position, Receptacle, Pin, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Reduced Diameter Seal (Blue), Wide Thread Adapter (WTA), Size 8 Contact, 6AWG/16mm² Wire Seal Note: Use AT60-204-08141-16 contacts for 6AWG/16mm² applications	Size 8, 60A Size 12, 25A Size 16, 13A	250V

#### DuraMate™ AHDP ISOBUS 91 Series - Backshell Options and Accessories

Image	Part Number	Description
	AHDPBS-011-2405	Shell Size 24, Backshell, Conduit, Snap Over, Right Angle, DuraMate™ AHDP ISOBUS 91 Series  Note: For use with Wide Thread Adapter (WTA). May also be used on DuraMate™ AHDM with P/N AHDM-BS-24NUT Adapter
	AHDPBS-11L017-2405	Shell Size 24, Backshell, Conduit, Snap-Over, Right Angle, DuraMate™ AHDP  Note: For use with Backshell Ring Adapter (BRA) and Small Thread Adapter (STA)
	AHDPBS-010-2405	Shell Size 24, Backshell, Conduit, Snap Over, Straight, DuraMate™ AHDP ISOBUS 91 Series  Note: For use with Wide Thread Adapter (WTA). May also be used on DuraMate™ AHDM with P/N AHDM-BS-24NUT Adapter
li li	AHDPBS-10L017-2405	Shell Size 24, Backshell, Conduit, Snap-Over, Straight, DuraMate™ AHDP  Note: For use with Backshell Ring Adapter (BRA) and Small Thread Adapter (STA)
	AHDPBS-0406-001	Shell Size 24, Backshell, Tie Wrap, Wide Thread Adapter (WTA), DuraMate™ AHDP ISOBUS 91 Series <b>Note:</b> For use with Wide Thread Adapter (WTA).
	AHDPBS-0406-002	Shell Size 24, Backshell, Wide Thread Adapter (WTA), 2 PC, Compression Nut, Cable Dia. Range 14.5mm - 18.0mm, DuraMate™ AHDP ISOBUS 91 Series
	AHDPBS-0406-003	Shell Size 24, Backshell, Wide Thread Adapter (WTA), 2 PC, Compression Nut, Cable Dia. Range 19.5mm - 24.1mm, DuraMate™ AHDP ISOBUS 91 Series
	AHDPBS-24L015-005	Shell Size 24, Backshell, Small Thread Adapter (STA), 2 PC, Compression Nut, Cable Dia. Range 14.5mm - 18.0mm, DuraMate™ AH Note: For use with Small Thread Adapter (STA)
	AHDPBS-0406-SM01	Shell Size 24, Backshell, Sealed, Cable Grommet, DuraMate™ AHDP ISOBUS 91 Series
_	AHDPM18-BT	Shell Size 18, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Grey Color
	AHDPM18-BT-BK	Shell Size 18, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Black Color
	AHDPM24-BT	Shell Size 24, Boot, for DuraMate AHDP (SRA only)& AHDM, PVC, Grey Color
	AHDPM24-BT-BK	Shell Size 24, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Black Color
	AHDPM18-BT-RA	Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Grey Color
	AHDPM18-BT-RA-BK	Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color
	AHDPM24-BT-RA	Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Grey Color
	AHDPM24-BT-RA-BK	Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color
	AHDC06-24	Shell Size 24, Receptacle Cap, Sealed, DuraMate™ AHDP ISOBUS 91 Series

Image	Part Number	Description
	AHDC04-24-PM	Shell Size 24, Plug Cap, Sealed, Threaded, DuraMate™ AHDP ISOBUS 91 Series
	AHDC04-24-PMT	Shell Size 24, Plug Cap, w Tether, Threaded, Lock Washer, Sealed, DuraMate™ AHDP ISOBUS 91 Series
	AHDPSCC-24	Shell Size 24, Self-Closing Protective Cap, DuraMate™ AHDP / DuraMate™ AHDP ISOBUS 91 Series, Black
0	AHDP24-PN01	Shell Size 24, Panel Nut, DuraMate™ AHDP ISOBUS 91 Series
	AT14-001-2486	Shell Size 24, Lock Washer, Wave, DuraMate™ AHDP ISOBUS 91 Series
0	AHDP-16-04477	Shell Size 24, Rubber Flange Seal, Duramate™ AHDP/ Duramate™ AHDM/AHDP ISOBUS 91 Series
	A114018	Contact Size 8, Blank Seal Plug
	A114017	Contact Size 12/16, Blank Seal Plug
	AT13-217-1605	Contact Size 16, Locking Seal Plug
	AT11-310-1605	Contact Size 16, Contact Removal Tool, Light Blue, 16-20AWG
	AT11-337-1205	Contact Size 12 , Contact Removal Tool, Orange, 12-14AWG
	AT11-001-3.6M	Contact Size 8, Contact Removal Tool, Black, 7-10AWG
	AT114008	Contact Size 8, Contact Removal Tool, Green, 8-10AWG
Magar	AT60-204-08141-16	Contact Size 8, 6AWG/16mm² Wire Range, Contact, Pin, Nickel-plated  Note: Refer to Plug/Receptacle datasheets for a complete list of available contacts
	AT62-203-08141-16	Contact Size 8, 6AWG/16mm² Wire Range, Contact, Socket, Nickel-plated  Note: Refer to Plug/Receptacle datasheets for a complete list of available contacts





# Environmentally-Sealed, Multi-Pin, Heavy-Duty, Metal, Circular Connectors

Available in Shell Shell Size 18 with 6 insert arrangements 2, 6, 8, 14, 20 and 21 Available in Shell Shell Size 24 with 15 insert arrangements 7(x2), 9, 14, 16, 18, 19, 21, 23, 27, 29, 31, 33, 35 and 47

Amphenol Sine Systems¹ DuraMate™ AHDM connectors are an environmentally-sealed, multi-pin, heavy duty, metal, circular connector with IP68 and IP69K ratings (in mated condition) that contains an economical, quick-connect, bayonet locking system manufactured to withstand the challenges and complexities of harsh environment off-road applications. Available in the following options: DuraMate™ AHDM/AHDBM ISOBUS 91 Series.



#### **Kev Features**

- 3 key-way bayonet design ensures proper mating of connectors
- High density signal and mixed power insert configurations
- Operating temperature range: -55°C to +125°C
- High current configurations incorporating revolutionary RADSOK® contacts
- High strength impact resistant & lightweight zinc-alloy metal housings
- Low insertion force stamped terminals offer improved manufacturing efficiencies
- Environmentally-sealed and engineered rapid and secure mating system achieves up to IP69K rating (in mated condition) from ingress of dust, water, mud and other contaminants and is vibration resistant
- Sealing features consisting of durable high temperature silicone provide barrier from lubricating oils, hydraulic fluids and fossil fuels
- Backshells maintain a compression-fit design to resist maximum pull-out forces and facilitate strain-relief for jacketed cable ranges.
- Utilizes A Series<sup>™</sup> standard contact system (Stamped & Formed or Machined)
- Wire entry sealing available in three separate ranges for discrete wire applications
- Integrated Wide Threading provides an enhanced threading for use with our wide variety of screw-on or clamshell backshells
- Utilizes A Series<sup>™</sup> standard contact system (Stamped & Formed or Machined)

#### DuraMate<sup>™</sup> AHDM - Specifications (Reference Individual Datasheets)

IP Rating (in mated condition)	IP68 and IP69K
Max. Current (Amperage)	Size 4 - 100A / Size 4+ - 100A Size 8 - 60A / Size 8 RADSOK - 80A Size 12 - 25A Size 16 - 13A Size 20 - 7.5A
Max. Voltage Rating	250V
Operating Temperature	-55°C to +125°C
Coupling System	Quick Connect, Circular Bayonet
Housing Body	Zinc Alloy

Insulation Insert	Thermoplastic UL94-VO
Contact Types	Stamped & Formed, Machined
Contact Material	Copper Alloy
Sealing Material	Silicone Rubber
Min. Mating Cycles	>100
Flammability Rating	UL94-VO
Fluid Resistance	Gas, oil, mineral oil, acid bath, basic bath
RoHS Compliant	ALL materials meet the requirements of the European Directive. (See website for documentation)

IP67 rated (Dust tight; 1M of Water for 30 Minutes, in mated condition) IP68 rated (Dust tight; 1M of Water for 24 Hours, in mated condition) IP69K rated (Dust tight; High-Pressure Waterproof, 4 Points (0°, 30°, 60°, 90°), in mated condition)















Standard products. Custom solutions Customer Service +1 800 394 7732



### DuraMate™ AHDM - Insert Arrangements (1) C030 - 6 Position/2 Used (Size 4); (4) CL22 - 7 Position Alt Construction)

Shell Size 18								
18-06 (1) 2 x Size 4	18-06 2 x Size 4, 4 x Size 16		-08 ze 12		-14 Size 16		-20 18 x Size 20	18-21 21 x Size 20
						0000		00000
N	N	N	R	N	R	N	R	N

Contact Legend (Size/Amp)							
0	•	0	•	•	0		
Size 4 or 4+ 100A	Size 8 60A	Size 8 RADSOK® 80A	Size 12 25A	Size 16 13A	Size 20 7.5A		

				Shell S	Size 24				
24-07 1 X Size 8 (RADSOK®) 6 X Size 12	24-07 (4) 3 x Size 4, 4 x Size 16	24-09 1 X Size 4, 2 X Size 8 6 X Size 12	24-14 1 X Size 4, 1 X Size 12 12 X Size 16	24-16 16 x Size 12	24-18 1 X Size 8, 3 X Size 12 14 X Size 16	24-19 6 X Size 12, 13 X Size 16	24-21 4 X Size 12, 17 X Size 16	24-23 23 X Size 16	24-27 4 X Size 12, 23 X Size 16
N	N	N R	N R	N R	N R	N R	N R	N T R	R

			Shell Size 24		
24-29 4 x Size 12, 19 x Size 16 6 x Size 20	24 31 X 5	-31 Size 16	24-33 33 x Size 20	24-35 3 X Size 16, 32 X Size 20	24-47 5 X Size 16, 42 X Size 20
			000000000000000000000000000000000000000	00000 000000 0000000 000000	000000000000000000000000000000000000000
R	R	T	N	R	R

### DuraMate™ AHDM - Recommended Wire Insulation Overall Diameter (OD) 4+ contact is only available for 24-07CL22

Contact Size	Typical Wire Range	( <b>N</b> ) Normal Seal	( <b>T</b> ) Thin Seal	( <b>R</b> ) Reduced Se	al (See datasheets)
4+	4AWG (25.0-21.0mm²)	7.9-10.67mm (0.311-0.420")	=	=	-
4	6AWG (16.0-13.0mm²)	6.63-7.41mm (0.261-0.292")	-	6.63-7.41mm (0.261-0.292")	-
8	8-10AWG (10.0-5.0mm²)	4.83-6.10mm (0.190-0.240")	-	3.43-5.59mm (0.135-0.220")	-
12	10-14AWG (6.0 2.0mm²)	3.43-4.32mm (0.1350170")	-	2.46-4.01mm (0.135-0.158")	2.46-4.01mm (0.135-0.158")
16	14-20AWG (2.0-0.5mm²)	2.54-3.40mm (0.100-0.134")	2.23-2.69mm (0.088106")	1.35-3.05mm(0.053-0.120")	1.35-2.62mm (0.053-0.103")
20	16-22AWG (1.5-0.35mm²)	1.02-2.41mm (0.040095")	-	1.02-02.41mm (0.040-0.095")	1.02-2.10mm (0.040-0.083")

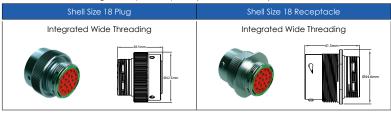
#### DuraMate™ AHDM - Backshell Options and Accessory Overview

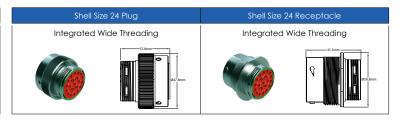


Updated 05-2025



 ${\sf DuraMate^{TM}\ AHDM-Plug\ \&\ Receptacle\ Options\ (Dimensions\ in\ mm)}$ 





#### DuraMate™ AHDM - Backshell Options and Accessories

AFONES-24-002  AFONES-24-001  AFONES-24-009  AFONES-24-000  AFONES	DuraMate™ AHDM - Backshell Option		Description of the second of t
AHDM85-18-002  Shell Size 18, Backshell, Tie Wrap, End Bell, DuraMarle™ AHDM  AHDM85-18-001  Shell Size 18, Backshell, Tie Wrap, End Bell, DuraMarle™ AHDM  AHDM85-18-001  Shell Size 18, Backshell, W Cable Clamp, DuraMarle™ AHDM  AHDM85-18-009  Shell Size 18, Backshell, W Cable Clamp, DuraMarle™ AHDM  AHDM85-18-009  Shell Size 18, Backshell, W Cable Clamp, DuraMarle™ AHDM  AHDM85-18-009  Shell Size 18, Backshell, W Cable Clamp, DuraMarle™ AHDM  AHDM85-18-009  Shell Size 18, Backshell, W Cable Clamp, DuraMarle™ AHDM  AHDM85-18-000  AHDM85-18-000  Shell Size 18, Backshell, Wefol, DuraMarle™ AHDM  AHDM85-18-000  AHDM85-18-000  Shell Size 18, Backshell, Mefol, DuraMarle™ AHDM  AHDM85-18-000  AHDM85-18-000  AHDM85-18-000  Shell Size 18, Backshell, Mefol, DuraMarle™ AHDM, AHDM, PVC, Grey Color  AHDM86-18-000  AH	Image	Part Number	Description
AHDM85-18-001  Shell Size 18, Backshell, Tile Wrap, End Bell, DuraMate <sup>TM</sup> AHDM  AHDM85-18-001  Shell Size 18, Backshell, W Cable Clamp, DuraMate <sup>TM</sup> AHDM  AHDM85-18-059  Shell Size 24, Backshell, w Cable Clamp, DuraMate <sup>TM</sup> AHDM  AHDM85-18-059  Shell Size 18, Backshell, w Cable Clamp, DuraMate <sup>TM</sup> AHDM  AHDM85-18-0401  Shell Size 18, Backshell, Metal, DuraMate <sup>TM</sup> AHDM  AHDM85-18-04001  Shell Size 18, Backshell, Metal, DuraMate <sup>TM</sup> AHDM  AHDM85-18-04001  Shell Size 18, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Grey Color  AHDPM18-81-83  Shell Size 24, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Grey Color  AHDPM24-81-83  Shell Size 24, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Grey Color  AHDPM18-81-84-83  Shell Size 24, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Boot Color  AHDPM18-81-84-83  Shell Size 24, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Grey Color  AHDPM18-81-84-83  Shell Size 24, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Grey Color  AHDPM18-81-84-83  Shell Size 24, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Boot Color  AHDPM24-81-84-83  Shell Size 24, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Grey Color  AHDPM24-81-84-83  Shell Size 24, Roght Angle Boot, DuraMate <sup>TM</sup> AHDP & AHDM, PVC, Grey Color  AHDPM24-81-84-83  Shell Size 24, Roght Angle Boot, DuraMate <sup>TM</sup> AHDP & AHDM, PVC, Boot Color  AHDM85-18-NUT  AHD		AHDMBS-24-002	Shell Size 24, Backshell, 2 PC, DuraMate™ AHDM
AHDM8S-18-001  Shell Size 18, Backshell, Tile Wrop, End Bel, DuraMote™ AHDM  AHDM8S-24-059  Shell Size 24, Backshell, w Cable Clamp, DuraMote™ AHDM  AHDM8S-18-099  Shell Size 18, Backshell, w Cable Clamp, DuraMote™ AHDM  AHDM8S-24-SM01  Shell Size 24, Backshell, w Cable Clamp, DuraMote™ AHDM  AHDM8S-18-SM01  Size 18, Backshell, Metal, DuraMote™ AHDM  AHDM8S-18-SM01  Size 18, Backshell, Metal, DuraMote™ AHDM  AHDM8S-18-SM01  AHDM8S-18-SM01  Size 18, Back for DuraMote AHDP (SRA only) & AHDM, PVC, Grey Color  AHDPM1B-8T Shell Size 18, Back for DuraMote AHDP (SRA only) & AHDM, PVC, Grey Color  AHDPM2B-8T Shell Size 24, Both for DuraMote AHDP (SRA only) & AHDM, PVC, Back Color  AHDPM2B-8T Shell Size 25, Back for DuraMote AHDP (SRA only) & AHDM, PVC, Back Color  AHDPM1B-8T-RA Shell Size 18, Right Angle Boot, DuraMote™ AHDP & AHDM, PVC, Grey Color  AHDPM2B-8T-RA Shell Size 24, Right Angle Boot, DuraMote™ AHDP & AHDM, PVC, Grey Color  AHDPM2B-8T-RA Shell Size 24, Right Angle Boot, DuraMote™ AHDP & AHDM, PVC, Grey Color  AHDPM2B-8T-RA Shell Size 24, Right Angle Boot, DuraMote™ AHDP & AHDM, PVC, Grey Color  AHDPM2B-8T-RA Shell Size 24, Right Angle Boot, DuraMote™ AHDP & AHDM, PVC, Grey Color  AHDPM3B-8T-RA Shell Size 24, Right Angle Boot, DuraMote™ AHDP & AHDM, PVC, Grey Color  AHDM8S-24-NJT AHDR8S 010-2405 AHDP Bockshell Condulis, Snop Over, Stridght AHDR8-010-1005 AHDP Bockshell Condulis, Snop Over, Stridght AHDR8-010-1005 AHDP Bockshell Condulis, Snop Over, Stridght AHDR8-010-1005 AHDP Bockshell Condulis, Snop Over, Right Angle  AHDC34-24  Shell Size 18, Protective Cop for Plug, DuraMote™ AHDM  AHDC36-24  Shell Size 18, Protective Cop for Plug, DuraMote™ AHDM		AHDMBS-18-002	Shell Size 18, Backshell, 2 PC, DuraMate™ AHDM
AHDM8S-24-059  Shell Size 18, Backshell, w Cable Clamp, DuraMate™ AHDM  AHDM8S-18-059  Shell Size 18, Backshell, w Cable Clamp, DuraMate™ AHDM  AHDM8S-18-SM01  Shell Size 24, Backshell, Metal, DuraMate™ AHDM  AHDM8S-18-SM01  Size 18, Backshell, Metal, DuraMate™ AHDM  AHDM8S-18-SM01  Shell Size 18, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Grey Color  AHDPM18-81  AHDPM24-81  Shell Size 24, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Grey Color  AHDPM24-81  Shell Size 24, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Grey Color  AHDPM24-81  AHDM8S-18-NA  Shell Size 24, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Grey Color  AHDPM18-81-RA-84  Shell Size 24, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Grey Color  AHDPM24-81-RA  AHDM8S-18-RA-84  Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Grey Color  AHDPM24-81-RA  Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Grey Color  AHDPM24-81-RA  Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Grey Color  AHDPM24-81-RA  Shell Size 24, AHDPM Bockshelk, Condult, Snap-Over, Straight  AHDM85-18-NUT  AHDP85-01-19-05 AHDP Bockshelk, Condult, Snap-Over, Straight  AHDP85-01-19-05 AHDP Bockshelk, Condult, Snap-Over, Straight  AHDP85-01-18-05 AHDP Bockshelk, Condult, Snap-Over, Straight  AHDP85-01-18-05 AHDP Bockshelk, Condult, Snap-Over, Straight  AHDP85-01-18-05 AHDP Bockshelk, Condult, Snap-Over, Straight  AHDC34-24  Shell Size 24, Protective Cop for Plug, DuraMate™ AHDM  AHDC34-24  Shell Size 24, Protective Cop for Plug, DuraMate™ AHDM		AHDMBS-24-001	Shell Size 24, Backshell, Tie Wrap, End Bell, DuraMate™ AHDM
AHDM8S-18-059  Shell Size 18, Backshell, w Cable Clamp, DuraMate™ AHDM  AHDM8S-24-SM01  Shell Size 24, Backshell, Metal, DuraMate™ AHDM  AHDM8S-18-SM01  Size 18, Backshell, Metal, DuraMate™ AHDM  AHDM8S-18-SM01  Size 18, Boot, for DuraMate AHDP (SRA only) 8, AHDM, PVC, Grey Color  AHDPM18-BT  Shell Size 18, Boot, for DuraMate AHDP (SRA only) 8, AHDM, PVC, Black Color  AHDPM24-BT  AHDPM24-BT  Shell Size 24, Boot, for DuraMate AHDP (SRA only) 8, AHDM, PVC, Black Color  AHDPM24-BT-RA  Shell Size 18, Bight Angle Boot, DuraMate™ AHDP & AHDM, PVC, Grey Color  AHDPM18-BT-RA  Shell Size 18, Bight Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color  AHDPM24-BT-RA  Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color  AHDPM24-BT-RA  Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color  AHDPM24-BT-RA  Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color  AHDPM24-BT-RA  Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color  AHDPM24-BT-RA  Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color  AHDPM24-BT-RA  Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color  AHDPM24-BT-RA  Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color  AHDPM3-BT-RA-BK  Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color  AHDM-85-18NUT  AHDM-85		AHDMBS-18-001	Shell Size 18, Backshell, Tie Wrap, End Bell, DuraMate™ AHDM
AHDM8S-24-SM01 Size 24, Backshell, Metal, DuraMate™ AHDM  AHDM8S-18-SM01 Size 18, Backshell, Metal, DuraMate™ AHDM  AHDPM18-BT Shell Size 18, Boot, for DuraMate AHDP (\$RA only) & AHDM, PVC, Grey Color  AHDPM18-BT-BK Shell Size 18, Boot, for DuraMate AHDP (\$RA only) & AHDM, PVC, Grey Color  AHDPM24-BT Shell Size 18, Boot, for DuraMate AHDP (\$RA only) & AHDM, PVC, Grey Color  AHDPM24-BT-BK Shell Size 24, Boot, for DuraMate AHDP (\$RA only) & AHDM, PVC, Grey Color  AHDPM18-BT-RA Shell Size 24, Boot, for DuraMate™ AHDP (\$RA only) & AHDM, PVC, Black Color  AHDPM18-BT-RA-BK Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color  AHDPM24-BT-RA-BK Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color  AHDPM24-BT-RA-BK Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color  AHDPM24-BT-RA-BK Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color  AHDM-BS-24NUT Shell Size 24, Alagher for use with:  AHDM-BS-18NUT Shell Size 24, Alagher for use with:  AHDM-BS-18NUT AHDPBS-01-3805 AHDP Backshell, Conduit, Snap-Over, Straight Angle  AHDC34-24 Shell Size 24, Protective Cap for Plug, DuraMate™ AHDM  AHDC34-18 Shell Size 24, Protective Cap for Plug, DuraMate™ AHDM  AHDC34-24 Shell Size 18, Protective Cap for Plug, DuraMate™ AHDM  AHDC34-24 Shell Size 24, Protective Cap for Plug, DuraMate™ AHDM		AHDMBS-24-059	Shell Size 24, Backshell, w Cable Clamp, DuraMate™ AHDM
AHDM85-18-SM01  Size 18, Backshell, Metal, DuraMate AHDP (SRA only) & AHDM. PVC, Grey Color  AHDPM18-81-BK  Shell Size 18, Boot, for DuraMate AHDP (SRA only) & AHDM. PVC, Black Color  AHDPM24-81  Shell Size 24, Boot, for DuraMate AHDP (SRA only) & AHDM. PVC, Grey Color  AHDPM24-81-BK  Shell Size 24, Boot, for DuraMate AHDP (SRA only) & AHDM. PVC, Grey Color  AHDPM18-81-RA  Shell Size 18, Right Angle Boot, DuraMate™ AHDP, NVC, Grey Color  AHDPM18-81-RA-BK  Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM. PVC, Grey Color  AHDPM24-81-RA-BK  Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM. PVC, Grey Color  AHDPM24-81-RA-BK  Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM. PVC, Grey Color  AHDPM24-81-RA-BK  Shell Size 24, Adopter for use with:  AHDR8-5-18-NUT  AHDR8-5-18-NUT  AHDR8-5-18-Sol-3-lags Cashell, Conduit, Snap-Over, Right Angle  AHDM-85-18-NUT  AHDRS-01-6-1805 AHDP Backshell, Conduit, Snap-Over, Right Angle  AHDC34-24  Shell Size 24, Protective Cap for Plug, DuraMate™ AHDM  AHDC34-18  Shell Size 18, Protective Cap for Plug, DuraMate™ AHDM  AHDC34-24  Shell Size 18, Protective Cap for Plug, DuraMate™ AHDM  AHDC36-24  Shell Size 24, Protective Cap for Plug, DuraMate™ AHDM		AHDMBS-18-059	Shell Size 18, Backshell, w Cable Clamp, DuraMate™ AHDM
AHDPM18-BT Shell Size 18, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Grey Color  AHDPM18-BT-BK Shell Size 18, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Black Color  AHDPM24-BT Shell Size 24, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Grey Color  AHDPM24-BT-BK Shell Size 24, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Black Color  AHDPM18-BT-RA Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Grey Color  AHDPM18-BT-RA-BK Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color  AHDPM24-BT-RA Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Grey Color  AHDPM24-BT-RA-BK Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color  AHDPM24-BT-RA-BK Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color  AHDPM24-BT-RA-BK Shell Size 24, Adapter for use with:  AHDPBS-010-2405 AHDP Backshell, Conduit, Snap-Over, Right Angle  Shell Size 18, Adapter for use with:  AHDPBS-015-1805 AHDP Backshell, Conduit, Snap-Over, Right Angle  AHDPBS-016-1805 AHDP Backshell, Conduit, Snap-Over, Right Angle  AHDPBS-016-1805 AHDP Backshell, Conduit, Snap-Over, Right Angle  AHDC34-24 Shell Size 24, Protective Cap for Plug, DuraMate™ AHDM  AHDC34-24 Shell Size 18, Protective Cap for Plug, DuraMate™ AHDM		AHDMBS-24-SM01	Shell Size 24, Backshell, Metal, DuraMate™ AHDM
AHDPM18-BT-BK Shell Size 18, Boot, for Duramate AHDP (SRA only) & AHDM, PVC, Black Color AHDPM24-BT Shell Size 24, Boot, for Duramate AHDP (SRA only) & AHDM, PVC, Grey Color AHDPM24-BT-BK Shell Size 24, Boot, for Duramate AHDP (SRA only) & AHDM, PVC, Grey Color AHDPM18-BT-RA Shell Size 18, Right Angle Boot, Duramate™ AHDP, & AHDM, PVC, Black Color AHDPM18-BT-RA-BK Shell Size 24, Right Angle Boot, Duramate™ AHDP & AHDM, PVC, Black Color AHDPM24-BT-RA Shell Size 24, Right Angle Boot, Duramate™ AHDP & AHDM, PVC, Grey Color AHDPM24-BT-RA-BK Shell Size 24, Right Angle Boot, Duramate™ AHDP, & AHDM, PVC, Grey Color Shell Size 24, Right Angle Boot, Duramate™ AHDP, & AHDM, PVC, Black Color Shell Size 24, Adapter for use with: AHDP85-010-2405 AHDP Backshell, Conduit, Snap-Over, Straight AHDP85-011-405 AHDP Backshell, Conduit, Snap-Over, Right Angle  Shell Size 18, Adapter for use with: AHDP85-016-1805 AHDP Backshell, Conduit, Snap-Over, Right Angle  AHDC34-24 Shell Size 24, Protective Cap for Plug, Duramate™ AHDM  AHDC34-18 Shell Size 24, Protective Cap for Receptacle, Duramate™ AHDM		AHDMBS-18-SM01	Size 18, Backshell, Metal, DuraMate™ AHDM
AHDPM24-BT Shell Size 24, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Grey Color AHDPM24-BT-BK Shell Size 24, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Black Color  AHDPM18-BT-RA Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Grey Color  AHDPM18-BT-RA-BK Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color  AHDPM24-BT-RA-BK Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Grey Color  AHDPM24-BT-RA-BK Shell Size 24, Right Angle Boot, DuraMate™ AHDP, & AHDM, PVC, Black Color  AHDPM24-BT-RA-BK Shell Size 24, Right Angle Boot, DuraMate™ AHDP, & AHDM, PVC, Black Color  AHDM-BS-24NUT Shell Size 14, Adapter for use with:  AHDP85-011-2405 AHDP Backshell, Conduit, Snap-Over, Right Angle  AHDM-BS-18NUT AHDP85-015-1805 AHDP Backshell, Conduit, Snap-Over, Right Angle  AHDM-BS-18NUT AHDP85-016-1805 AHDP Backshell, Conduit, Snap-Over, Right Angle  AHDC34-24 Shell Size 18, Protective Cap for Plug, DuraMate™ AHDM  AHDC34-18 Shell Size 18, Protective Cap for Plug, DuraMate™ AHDM  AHDC36-24 Shell Size 24, Protective Cap for Receptacle, DuraMate™ AHDM		AHDPM18-BT	Shell Size 18, Boot, for DuraMate AHDP (\$RA only) & AHDM, PVC, Grey Color
AHDPM24-BT-BK  Shell Size 24, Boot, for DuraMate AHDP (SRA only) & AHDM. PVC, Black Color  AHDPM18-BT-RA  Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Grey Color  AHDPM18-BT-RA-BK  Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color  AHDPM24-BT-RA  Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Grey Color  AHDPM24-BT-RA-BK  Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Grey Color  AHDM-BS-24NUT  AHDPBS-010-2405 AHDP Backshell, Conduit, Snap-Over, Straight AHDPBS-011-2405 AHDP Backshell, Conduit, Snap-Over, Right Angle  Shell Size 18, Adapter for use with:  AHDM-BS-18NUT  AHDPBS-018-1805 AHDP Backshell, Conduit, Snap-Over, Right Angle  AHDPBS-018-1805 AHDP Backshell, Conduit, Snap-Over, Right Angle  Shell Size 24, Protective Cap for Plug, DuraMate™ AHDM  AHDC34-24  Shell Size 24, Protective Cap for Receptacle, DuraMate™ AHDM		AHDPM18-BT-BK	Shell Size 18, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Black Color
AHDPM18-BT-RA  Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Grey Color  AHDPM18-BT-RA-BK  Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color  AHDPM24-BT-RA  Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Grey Color  AHDPM24-BT-RA-BK  Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Grey Color  AHDM-BS-24NUT  Shell Size 24, Adapter for use with:  AHDM-BS-24NUT  AHDM-BS-010-2405 AHDP Backshell, Conduit, Snap-Over, Straight AHDM-BS-18NUT  AHDM-BS-015-1805 AHDP Backshell, Conduit, Snap-Over, Right Angle  Shell Size 18, Adapter for use with:  AHDM-BS-016-1805 AHDP Backshell, Conduit, Snap-Over, Right Angle  AHDC34-24  Shell Size 24, Protective Cap for Plug, DuraMate™ AHDM  AHDC34-18  Shell Size 18, Protective Cap for Plug, DuraMate™ AHDM  AHDC36-24  Shell Size 18, Protective Cap for Receptacle, DuraMate™ AHDM		AHDPM24-BT	Shell Size 24, Boot, for DuraMate AHDP (SRA only)& AHDM, PVC, Grey Color
AHDPM18-BT-RA-BK Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color  AHDPM24-BT-RA Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Grey Color  AHDPM24-BT-RA-BK Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color  Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color  AHDM-BS-24NUT Shell Size 24, Adapter for use with: AHDPBS-010-2405 AHDP Backshell, Conduit, Snap-Over, Straight AHDPBS-011-2405 AHDP Backshell, Conduit, Snap-Over, Right Angle  Shell Size 18, Adapter for use with: AHDPBS-015-1805 AHDP Backshell, Conduit, Snap-Over, Straight AHDPBS-016-1805 AHDP Backshell, Conduit, Snap-Over, Right Angle  AHDC34-24 Shell Size 24, Protective Cap for Plug, DuraMate™ AHDM  AHDC34-18 Shell Size 18, Protective Cap for Plug, DuraMate™ AHDM  AHDC36-24 Shell Size 24, Protective Cap for Receptacle, DuraMate™ AHDM		AHDPM24-BT-BK	Shell Size 24, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Black Color
AHDPM24-BT-RA  Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Grey Color  AHDPM24-BT-RA-BK  Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color  Shell Size 24, Adapter for use with:  AHDPBS-010-2405 AHDP Backshell, Conduit, Snap-Over, Straight AHDPBS-011-2405 AHDP Backshell, Conduit, Snap-Over, Right Angle  Shell Size 18, Adapter for use with:  AHDPBS-015-1805 AHDP Backshell, Conduit, Snap-Over, Right Angle  AHDPBS-016-1805 AHDP Backshell, Conduit, Snap-Over, Right Angle  AHDC34-24  Shell Size 24, Protective Cap for Plug, DuraMate™ AHDM  AHDC34-18  Shell Size 18, Protective Cap for Plug, DuraMate™ AHDM  AHDC36-24  Shell Size 18, Protective Cap for Receptacle, DuraMate™ AHDM		AHDPM18-BT-RA	Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Grey Color
AHDPM24-BT-RA-BK  Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color  Shell Size 24, Adapter for use with: AHDPBS-010-2405 AHDP Backshell, Conduit, Snap-Over, Straight AHDPBS-011-2405 AHDP Backshell, Conduit, Snap-Over, Right Angle  Shell Size 18, Adapter for use with: AHDPBS-015-1805 AHDP Backshell, Conduit, Snap-Over, Right Angle  AHDM-BS-18NUT  AHDPBS-015-1805 AHDP Backshell, Conduit, Snap-Over, Right Angle  AHDC34-24  Shell Size 24, Protective Cap for Plug, DuraMate™ AHDM  AHDC34-18  Shell Size 18, Protective Cap for Plug, DuraMate™ AHDM  AHDC36-24  Shell Size 24, Protective Cap for Receptacle, DuraMate™ AHDM		AHDPM18-BT-RA-BK	Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color
Shell Size 24, Adapter for use with: AHDPBS-010-2405 AHDP Backshell, Conduit, Snap-Over, Straight AHDPBS-011-2405 AHDP Backshell, Conduit, Snap-Over, Right Angle  Shell Size 18, Adapter for use with: AHDPBS-015-1805 AHDP Backshell, Conduit, Snap-Over, Riraight AHDPBS-016-1805 AHDP Backshell, Conduit, Snap-Over, Right Angle  AHDC34-24  Shell Size 24, Protective Cap for Plug, DuraMate™ AHDM  AHDC34-18  Shell Size 18, Protective Cap for Plug, DuraMate™ AHDM  AHDC36-24  Shell Size 24, Protective Cap for Receptacle, DuraMate™ AHDM		AHDPM24-BT-RA	Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Grey Color
AHDM-BS-24NUT  AHDPBS-010-2405 AHDP Backshell, Conduit, Snap-Over, Straight AHDPBS-011-2405 AHDP Backshell, Conduit, Snap-Over, Right Angle  Shell Size 18, Adapter for use with: AHDPBS-015-1805 AHDP Backshell, Conduit, Snap-Over, Straight AHDPBS-016-1805 AHDP Backshell, Conduit, Snap-Over, Right Angle  AHDC34-24  Shell Size 24, Protective Cap for Plug, DuraMate™ AHDM  AHDC34-18  Shell Size 18, Protective Cap for Plug, DuraMate™ AHDM  AHDC36-24  Shell Size 24, Protective Cap for Receptacle, DuraMate™ AHDM		AHDPM24-BT-RA-BK	Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color
AHDC34-24  AHDC34-18  AHDC36-24  AHDC36-24  AHDC35-1805 AHDP Backshell, Conduit, Snap-Over, Straight AHDM  AHDC36-1805 AHDP Backshell, Conduit, Snap-Over, Right Angle  AHDC34-24  Shell Size 24, Protective Cap for Plug, DuraMate™ AHDM  AHDC34-18  Shell Size 18, Protective Cap for Plug, DuraMate™ AHDM  AHDC36-24  Shell Size 24, Protective Cap for Receptacle, DuraMate™ AHDM		AHDM-BS-24NUT	AHDPBS-010-2405 AHDP Backshell, Conduit, Snap-Over, Straight
AHDC34-18  Shell Size 18, Protective Cap for Plug, DuraMate <sup>TM</sup> AHDM  AHDC36-24  Shell Size 24, Protective Cap for Receptacle, DuraMate <sup>TM</sup> AHDM		AHDM-BS-18NUT	AHDPBS-015-1805 AHDP Backshell, Conduit, Snap-Over, Straight
AHDC36-24 Shell Size 24, Protective Cap for Receptacle, DuraMate™ AHDM		AHDC34-24	Shell Size 24, Protective Cap for Plug, DuraMate™ AHDM
		AHDC34-18	Shell Size 18, Protective Cap for Plug, DuraMate™ AHDM
AHDC36-18 Shell Size 18, Protective Cap for Receptacle, DuraMate™ AHDM		AHDC36-24	Shell Size 24, Protective Cap for Receptacle, DuraMate™ AHDM
		AHDC36-18	Shell Size 18, Protective Cap for Receptacle, DuraMate™ AHDM

Image	Part Number	Description
	A112264	Shell Size 24, Lockwasher, DuraMate™ AHDM
	A114021	Shell Size 18, Lockwasher, DuraMate™ AHDM
	A112263-90	Shell Size 24, Nut, DuraMate™ AHDM
	A114020-90	Shell Size 18, Nut, DuraMate™ AHDM
	AHDP-16-04477	Shell Size 24, Rubber Flange Seal, Duramate™ AHDP/ Duramate™ AHDM
	AHDP-16-04978	Shell Size 18, Rubber Flange Seal, Duramate™ AHDP/ Duramate™ AHDM
•	A114019	Contact Size 4, Blank Seal Plug
	A114018	Contact Size 8, Blank Seal Plug
-	A114017	Contact Size 12/16, Blank Seal Plug
	AT13-217-1605	Contact Size 16, Locking Seal Plug
~	AT13-204-2005	Contact Size 20, Blank Seal Plug
	AT11-027-0405	Contact Size 4+, Contact Removal Tool, 4AWG
	AT114009	Contact Size 4, Contact Removal Tool, 6AWG
	AT11-001-3.6M	Contact Size 8, Contact Removal Tool, 7-10AWG
	AT114008	Contact Size 8, Contact Removal Tool, 8-10AWG
	AT11-337-1205	Contact Size 12, Contact Removal Tool, 12-14AWG
	AT11-310-1605	Contact Size 16, Contact Removal Tool, 16-20AWG
	AT11-240-2005	Contact Size 20, Contact Removal Tool, 20-22AWG



# DM) Dura Mate™AHDM/AHDBM ISOBUS 91 Series

### Environmentally-Sealed, Multi-Pin, Heavy-Duty, Metal Circular ISOBUS Connectors

#### Available in Shell Size 24, 9 Position

Amphenol Sine Systems' DuraMate™ AHDM/AHDBM ISOBUS 91 Series connectors are an environmentally-sealed, multi-pin, heavy duty, metal, circular connector with IP68 and IP69K ratings (in mated condition) that contains an economical, quick-connect, bayonet locking system manufactured to withstand the challenges and complexities of harsh environment, off-road applications. The DuraMate™ AHDM/AHDBM ISOBUS 91 Series is specifically designed to meet ISO 11783 standards (for control and communications between tractors, implements and software) and withstand the challenges and complexities of harsh environment, off-road, agricultural applications.



AHDBM Circular Bayonet

AHDM Circular Bayonet Standard Plug

AHDBM Circular Bayonet Breakaway Plug

#### Important

- AHDBM 91 Series Plugs are intermateable to other industry standard versions and allow full breakaway functionality if used with suitable breakaway-ready Receptacles (like AHDBM 91 Receptacles)
- AHDM 91 Series Plugs are intermateable to other industry standard versions but do not retain breakaway functionality
- AHDBM 91 Series Receptacles (Circular Bayonet) are intermateable to other industry standard plugs and allow breakaway functionality when used with a breakaway
- Available upon request and not shown on this flyer: AHDM 91 Series Receptacles (Drop Shaped Bayonet) are not intermateable to all industry standard versions and do not retain breakaway functionality

#### **Key ISOBUS 91 Series Features**

- One-to-one alternative for all HD30/HDB36 parts
- Compatible to other industry standard (Circular Bayonet) versions while retaining full breakaway functionality
- AHDM 91 Series Plugs have a jumper (bridged contacts) between Pin 4 & 5
- AHDM/AHDBM 91 Series Receptacles don't have a jumper (bridged contact)
- Options for up to 16mm<sup>2</sup> power wires
- Full range of backshell options

#### DuraMate™ Features

- 3 key-way bayonet design ensures proper mating of connectors
- High density signal and mixed power insert configurations
- Operating temperature range: -55°C to +125°C
- High-strength, impact resistant & lightweight zinc-alloy metal housings
- Low-insertion force stamped terminals offer improved manufacturing efficiencies
- Environmentally-sealed and engineered rapid and secure mating system achieves up to IP69K rating (in mated condition) from ingress of dust, water, mud and other contaminants and is vibration resistant
- Sealing features consisting of durable high-temperature silicone provide barrier from lubricating oils, hydraulic fluids and fossil fuels
- Backshells maintain a compression-fit design to resist maximum pull-out forces and facilitate strain-relief for jacketed cable ranges
- Wire entry sealing available in four separate ranges for discrete wire applications
- Integrated Wide Threading provides an enhanced threading for use with our wide variety of screw-on or clamshell backshells
- Utilizes A Series™ standard contact system (Stamped & Formed or Machined)

IP67 rated (Dust tight; 1M of Water for 30 Minutes, in mated condition) IP68 rated (Dust tight; 1M of Water for 24 Hours, in mated condition) IP69K rated (Dust tight; High-Pressure Waterproof, 4 Points (0°, 30°, 60°, 90°), in mated condition)















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### DuraMate<sup>™</sup> AHDM/AHDBM ISOBUS 91 Series - Specifications (Reference Individual Datasheets)

IP Rating (in mated condition)	IP68 and IP69K
Max. Current (Amperage)	Size 8, 60A; Size 12, 25A; Size 16, 13A
Max. Voltage Rating	250V
Operating Temperature	-55°C to +125°C
Coupling System	Quick Connect, Circular Bayonet
Housing Body	Zinc Alloy
Insulation Insert	Thermoplastic UL94-VO
Contact Types	Stamped & Formed, Machined

Contact Material	Copper Alloy
Sealing Material	Silicone Rubber
Min. Mating Cycles	>100
Flammability Rating	UL94-VO
Fluid Resistance	Gas, oil, mineral oil, acid bath, basic bath
RoHS Compliant	ALL materials meet the requirements of the European Directive. (See website for documentation)

#### DuraMate™ AHDM/AHDBM ISOBUS 91 Series - Insert Arrangements

Size	24
24- 2 x Size 8, 2 5 x Siz	2 x Size 12,
N	R

Contact Legend (Size/Amp)				
•	•	•	•	
Size 8 (6AWG) 60A	Size 8 (8-10AWG) 60A	Size 12 25A	Size 16 13A	

#### DuraMate™ AHDM/AHDBM ISOBUS 91 Series - Recommended Wire Insulation Overall Diameter (OD)

Contact Size	Typical Wire Range	( <b>N</b> ) Normal Seal	( <b>R</b> ) Reduced Seal	(R) Reduced Seal for 6AWG/16mm² (Size 8 Contacts Only)
8	6-10AWG (5.0-16.0mm²)	4.83-6.10mm (0.190-0.240'')	3.43-5.59mm (0.135-0.220")	6.50-7.42mm (0.256-0.292")
12	10-14AWG (6.0 2.0mm²)	3.40-4.32mm (0.134-0.170")	2.46-4.01mm (0.135-0.158")	2.46-4.01mm (0.135-0.158")
16	14-20AWG (2.0-0.5mm²)	2.54-3.40mm (0.100-0.134")	1.35-3.05mm (0.053-0.120")	1.35-3.05mm (0.053-0.120")

DuraMate™ AHDM/AHDBM ISOBUS 91 Series - Backshell Options and Accessory Overview



DuraMate™ AHDM/AHDBM ISOBUS 91 Series - Plug & Receptacle Options (Dimensions in mm)

Shell Size 24 AHDM Plug		Shell Size 24 AHDBM Breakaway Plug		Shell Size 24 AHDBM Breakaway Receptacle	
Integrated Wide Threading		Integrated Wide Threading		Integrated Wide Threading	
	37. ženo.		37 Jann		04d.1mm

#### DuraMate™ AHDM ISOBUS 91 Series - Plugs

Image	Part Number	Description	Contact Size/Amp	Voltage
	AHDM06-24-91SN	Shell Size 24, 9 Position, Plug, Socket, DuraMate™ AHDM ISOBUS 91 Series, Metal, Normal Diameter Seal (Green), Integrated Wide Threading	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDM06-24-91\$N-059	Shell Size 24, 9 Position, Kit, Plug, Socket, DuraMate™ AHDM ISOBUS 91 Series, Metal, Normal Diameter Seal (Green), Integrated Wide Threading, Cable Clamp Backshell	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDM06-24-91SR	Shell Size 24, 9 Position, Plug, Socket, DuraMate™ AHDM ISOBUS 91 Series, Metal, Reduced Diameter Seal (Blue), Integrated Wide Threading	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDM06-24-91\$R-059	Shell Size 24, 9 Position, Kit, Plug, Socket, DuraMate™ AHDM ISOBUS 91 Series, Metal, Reduced Diameter Seal (Blue), Integrated Wide Threading, Cable Clamp Backshell	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDM06-24-91SR16	Shell Size 24, 9 Position, Plug, Socket, DuraMate™ AHDM ISOBUS 91 Series, Metal, Reduced Diameter Seal (Blue), Integrated Wide Threading, Size 8 Contact, 6AWG/16mm² Wire Seal <b>Note</b> : Use AT62-203-08141-16 contacts for 6AWG/16mm² applications	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDM06-24-91SR16-059	Shell Size 24, 9 Position, Kit, Plug, Socket, DuraMate <sup>™</sup> AHDM ISOBUS 91 Series, Metal, Reduced Diameter Seal (Blue), Integrated Wide Threading, Cable Clamp Backshell, Size 8 Contact, 6AWG/16mm² Wire Seal  Note: Use AT62-203-08141-16 contacts for 6AWG/16mm² applications	Size 8, 60A Size 12, 25A Size 16, 13A	250V

#### DuraMate™ AHDBM ISOBUS 91 Series - Breakaway Plugs

Image	Part Number	Description	Contact Size/Amp	Voltage
	AHDBM06-24-91\$N	Shell Size 24, 9 Position, Plug, Socket, Shell DuraMate™ AHDBM ISOBUS 91 Series, Metal, Normal Diameter Seal (Green), Integrated Wide Threading, Breakway-Ready	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDBM06-24-91\$N-059	Shell Size 24, 9 Position, Kit, Plug, Socket, Shell DuraMate™ AHDBM ISOBUS 91 Series, Metal, Normal Diameter Seal (Green), Integrated Wide Threading, Cable Clamp Backshell, Breakway-Ready	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDBM06-24-91SR	Shell Size 24, 9 Position, Plug, Socket, Shell DuraMate™ AHDBM ISOBUS 91 Series, Metal, Reduced Diameter Seal (Blue), Integrated Wide Threading, Breakway-Ready	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDBM06-24-91SR-059	Shell Size 24, 9 Position, Kit, Plug, Socket, DuraMate™ AHDBM ISOBUS 91 Series, Metal, Reduced Diameter Seal (Blue), Integrated Wide Threading, Cable Clamp Backshell, Breakway-Ready	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDBM06-24-91SR16	Shell Size 24, 9 Position, Kit, Plug, Socket, DuraMate™ AHDBM ISOBUS 91 Series, Metal, Reduced Diameter Seal (Blue), Integrated Wide Threading, Cable Clamp Backshell, Breakaway, Size 8 Contact, 6AWG/16mm² Wire Seal  Note: Use AT62-203-08141-16 contacts for 6AWG/16mm² applications	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDBM06-24-91\$R16-059	Shell Size 24, 9 Position, Plug, Socket, DuraMate™ AHDBM ISOBUS 91 Series, Metal, Reduced Diameter Seal (Blue), Integrated Wide Threading, Breakaway, Size 8 Contact, 6AWG/16mm² Wire Seal  Note: Use AT62-203-08141-16 contacts for 6AWG/16mm² applications	Size 8, 60A Size 12, 25A Size 16, 13A	250∨

DuraMate™ AHDBM ISOBUS 91 Series - Breakaway-Ready Receptacles

Image	Part Number	Description	Contact Size/Amp	Voltage
	AHDBM04-24-91PN	Shell Size 24, 9 Position, Receptacle, Pin, DuraMate™ AHDBM ISOBUS 91 Series, Metal, Normal Diameter Seal (Green), Integrated Wide Threading, Breakway-Ready	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDBM04-24-91PN-059	Shell Size 24, 9 Position, Kit, Receptacle, Pin, DuraMate™ AHDBM ISOBUS 91 Series, Metal, Normal Diameter Seal (Green), Integrated Wide Threading, Cable Clamp Backshell, Breakway-Ready	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDBM04-24-91PR	Shell Size 24, 9 Position, Receptacle, Pin, DuraMate™ AHDBM ISOBUS 91 Series, Metal, Reduced Diameter Seal (Blue), Integrated Wide Threading, Breakway-Ready	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDBM04-24-91PR-059	Shell Size 24, 9 Position, Kit, Receptacle, Pin, DuraMate™ AHDBM ISOBUS 91 Series, Metal, Reduced Diameter Seal (Blue), Integrated Wide Threading, Cable Clamp Backshell, Breakway-Ready	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDBM04-24-91PR16	Shell Size 24, 9 Position, Receptacle, Pin, DuraMate™ AHDBM ISOBUS 91 Series, Metal, Reduced Diameter Seal (Blue), Integrated Wide Threading, Breakway-Ready, Size 8 Contact, 6AWG/16mm² Wire Seal  Note: Use AT60-204-08141-16 contacts for 6AWG/16mm² applications	Size 8, 60A Size 12, 25A Size 16, 13A	250V
	AHDBM04-24-91PR16-059	Shell Size 24, 9 Position, Kit, Receptacle, Pin, DuraMate™ AHDBM ISOBUS 91 Series, Metal, Reduced Diameter Seal (Blue), Integrated Wide Threading, Cable Clamp Backshell, Breakway-Ready, Size 8 Contact, 6AWG/16mm² Wire Seal  Note: Use AT60-204-08141-16 contacts for 6AWG/16mm² applications	Size 8, 60A Size 12, 25A Size 16, 13A	250V

DuraMate™ AHDM/AHDBM ISOBUS 91 Series - Backshell Options and Accessories			
Image	Part Number	Description	
Q.	AHDMBS-24-002	Shell Size 24, Backshell, 2 PC, DuraMate™ AHDM/AHDBM ISOBUS 91 Series	
	AHDMBS-24-001	Shell Size 24, Backshell, Tie Wrap, End Bell, DuraMate™ AHDM/AHDBM ISOBUS 91 Series	
	AHDMBS-24-059	Shell Size 24, Backshell, w Cable Clamp, DuraMate™ AHDM/AHDBM ISOBUS 91 Series	
	AHDMBS-24-SM01	Shell Size 24, Backshell, Metal, DuraMate™ AHDM/AHDBM ISOBUS 91 Series	
	AHDPM18-BT	Shell Size 18, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Grey Color	
	AHDPM18-BT-BK	Shell Size 18, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Black Color	
	AHDPM24-BT	Shell Size 24, Boot, for DuraMate AHDP (SRA only)& AHDM, PVC, Grey Color	
	AHDPM24-BT-BK	Shell Size 24, Boot, for DuraMate AHDP (SRA only) & AHDM, PVC, Black Color	
	AHDPM18-BT-RA	Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Grey Color	
	AHDPM18-BT-RA-BK	Shell Size 18, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color	
	AHDPM24-BT-RA	Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Grey Color	
	AHDPM24-BT-RA-BK	Shell Size 24, Right Angle Boot, DuraMate™ AHDP & AHDM, PVC, Black Color	
	AHDM-BS-24NUT	Shell Size 24, Adapter for use with: AHDPBS-010-2405 AHDP Backshell, Conduit, Snap-Over, Straight AHDPBS-011-2405 AHDP Backshell, Conduit, Snap-Over, Right Angle	



Image	Part Number	Description
60	AHDC34-24	Shell Size 24, Protective Cap for Plug, DuraMate™ AHDM/AHDBM ISOBUS 91 Series
	AHDC36-24	Shell Size 24, Protective Cap for Receptacle, DuraMate™ AHDM/AHDBM ISOBUS 91 Series
	A112264	Shell Size 24, Lockwasher, DuraMate™ AHDM/AHDBM ISOBUS 91 Series
	A112263-90	Shell Size 24, Nut, DuraMate™ AHDM/AHDBM ISOBUS 91 Series
0	AHDP-16-04477	Shell Size 24, Rubber Flange Seal, Duramate™ AHDP/ Duramate™ AHDM
	A114017	Contact Size 12/16, Blank Seal Plug
	AT13-217-1605	Contact Size 16, Locking Seal Plug
	AT11-310-1605	Contact Size 16, Contact Removal Tool, Light Blue, 16-20AWG
	AT11-337-1205	Contact Size 12 , Contact Removal Tool, Orange, 12-14AWG
	AT11-001-3.6M	Contact Size 8, Contact Removal Tool, Black, 7-10AWG
	AT114008	Contact Size 8, Contact Removal Tool, Green, 8-10AWG
Mar	AT60-204-08141-16	Contact Size 8, 6AWG/16mm <sup>2</sup> Wire Range, Contact, Pin, Nickel-plated  Note: Refer to Plug/Receptacle datasheets for a complete list of available contacts
	AT62-203-08141-16	Contact Size 8, 6AWG/16mm <sup>2</sup> Wire Range, Contact, Socket, Nickel-plated  Note: Refer to Plug/Receptacle datasheets for a complete list of available contacts

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