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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** ISOBUS 91 Series.



Key Features

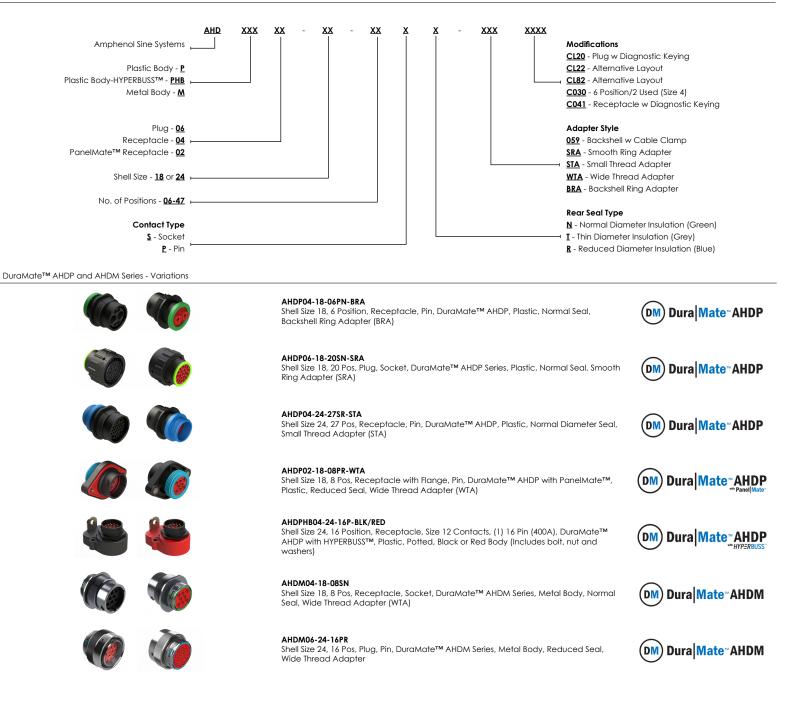
- 3 key-way bayonet design ensures proper mating of connectors
- High density signal and mixed power insert configurations
- Operating temperature range: -55°C to +125°C
- High current configurations incorporating revolutionary RADSOK® contacts
- High strength impact resistant & lightweight thermoplastic 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)







DuraMate[™] AHDP/AHDM Series - Part Numbering Sequence





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DM 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

Amphenol Sine Systems' **DuraMate™ AHDP** 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. Available in the following options: **DuraMate™ AHDP with PanelMate™** and **DuraMate™ AHDP with HYPERBUSS™**.



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)

Beramare Annel specifications (Reference in						
	Size 4 - 100A / Size 4+ - 100A	Housing Material	Thermoplastic			
Current Rating per Contact	Size 8 - 60A / Size 8 RADSOK - 80A Size 12 - 25A Size 16 - 13A Size 20 - 7.5A	Insulation Insert	Thermoplastic			
		Seal	Silicone Rubber			
Operating Temperature		Contact	A Series™ Common System			
Dielectric Withstanding Voltage			ALL materials meet the requirements of			
		RoHS Compliant	the European Directive. (See website for documentation)			
Mating Cycle Durability	100 Cycles					

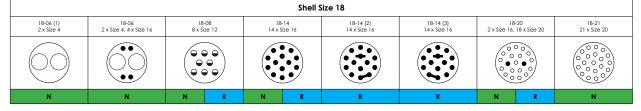
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DuraMateTM AHDP - Insert Arrangements (1) C030 - 6 Pos/2 Used (Size 4); (2) C041 - Recep w Diagnostic Keying; (3) CL20 - Plug w Diagnostic Keying; (4) CL22 - Alternative Layout; (5) CL82 - Alternative Layout



	Shell Size 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 S	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 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		0	۲
				00000000000000000000000000000000000000		000 000 000 000 000 000 000 000 000 00		Size 4 or 4+ 100A	Size 8 60A
R	R	R	т	N	R	R			

Contact Legend (Size/Amp)							
\bigcirc	۲	0	۰	•	o		
Size 4 or 4+ 100A	Size 8 60A	Size 8 RADSOK® 80A	Size 12 25A	Size 16 13A	Size 20 7.5A		

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

Contact Size	Typical Wire Range	(N) Normal Seal	(T) Thin Seal	(R) Reduced Sec	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





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DuraMate™ AHDP - Plug & Receptacle Options (Dimensions in mm)

Shell Size 18 Plug	Shell Size 18 Receptacle	Shell Size 24 Plug	Shell Size 24 Receptacle
Backshell Ring Adapter (BRA)			
Smooth Ring Adapter (SRA)			
-	-	Small Thread Adapter (STA)	Small Thread Adapter (STA)
-	-		
Wide Thread Adapter (WTA)			

	Shell Size 18 Receptacle		Shell Size 24 Receptacle
-	PanelMate™ with Backshell Ring Adapter (BRA)	-	PanelMate™ with Backshell Ring Adapter (BRA)
-		-	
-	PanelMate™ with Smooth Ring Adapter (SRA)	-	PanelMate™ with Smooth Ring Adapter (SRA)
-		-	
-	-	-	PanelMate™ with Wide Thread Adapter (STA)
-	-	-	
-	PanelMate™ with Wide Thread Adapter (WTA)	-	PanelMate™ with Wide Thread Adapter (WTA)
-		-	

DuraMate™ AHDP with HYPERBUSS™ - Receptacle Option (Dimensions in mm)

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



DuraMate™ AHDP - Backshell Options and Accessories

Image	Part Number	Description
	AHDPBS-015-1805	Shell Size 18, Backshell, Conduit, Snap Over, Right Angle 90°, 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 180°, DuraMate™ AHDP Note: For use with Backshell Ring Adapter (BRA)
Contractory of the second	AHDPBS-011-2405	Shell Size 24, Backshell, Conduit, Snap Over, Right Angle 90°, 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 180°, 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 180°, 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 Note: For use with Backshell Ring Adapter (BRA)
1ª line	AHDPBS-010-2405	Shell Size 24, Backshell, Conduit, Snap Over, Straight 180°, 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 Note: 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 Note: For use with Wide Thread Adapter (WTA)
	AHDPBS-0406-001	Shell Size 24, Backshell, Tie Wrap, Wide Thread Adapter (WTA), DuraMate™ AHDP Note: 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 Note: 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 Note: 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 Note: 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 Note: For use with Wide Thread Adapter (WTA)
(Cine)	AHDPBS-18-SM01	Shell Size 18, Backshell, Sealed, Cable Grommet, Duramate™ AHDP Note: For use with Wide Thread Adapter (WTA)
Constant of the second s	AHDPBS-0406-SM01	Shell Size 24, Backshell, Sealed, Cable Grommet, DuraMate™ AHDP Note: 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
and the second s	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



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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
\frown	AT14-002-1886	Shell Size 18, Lock Washer, Wave, DuraMate™ AHDP
\bigcirc	AT14-001-2486	Shell Size 24, Lock Washer, Wave, Duramate™ AHDP
	AHDP-16-04978	Shell Size 18, Rubber Flange Seal, Duramate™ AHDP/ Duramate™ AHDM
\cup	AHDP-16-04477	Shell Size 24, Rubber Flange Seal, Duramate™ AHDP/ Duramate™ AHDM
%	A114019	Contact Size 4, Blank Seal Plug
	A114018	Contact Size 8, Blank Seal Plug
(L)	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
🔍 尾 K	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



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Available in 16 position

Amphenol Sine Systems' **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.

Key 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

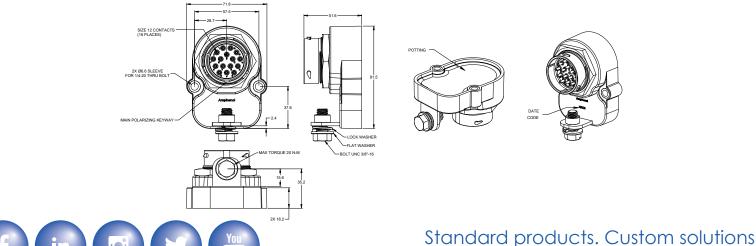


Applications: Heavy Duty, Transportation, Marine, Military, Alternative Energy, Agricultural and other interconnect

DuraMate™ AHDP with HYPERBUSS™ - Specifications (Ref Individual Datasheets)

IP Rating (in mated condition)	IP68 and IP69K	Contact Material	Copper Alloy, Nickel Plated
Contact Size	12	Bracket	Copper Alloy, Nickel Plated
Max. Current (Amperage)	25A Each (400A Max)	Sleeves	Aluminum, Black Annodized
Operating Temperature	-55°C to +125°C	Min. Mating Cycles	>100
Coupling System	Quick-Connect, Circular Bayonet	Delle Compliant	ALL materials meet the requirements of the European Directive. (See website for documentation)
Housing Body	Thermoplastic	Kons Compilani	(See website for documentation)
Contact Types	Machined	Approvals	-

DuraMate[™] AHDP with HYPERBUSS[™] - 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 12 11 10 9 8 7	AHDPHB04-24-16P-BLK-CN	Shell Size 24, 16 Position, Receptacle, Size 12 Contacts, (1) 16 Pin (400A), DuraMate™ AHDP with HYPERBUSS™, Plastic, Potted, Black Body (Includes bolt, nut and washers)	12	25A (400A Max)
	-18PA/-18PB	AHDPHB04-24-16P-RED-CN	Shell Size 24, 16 Position, Receptacle, Size 12 Contacts, (1) 16 Pin (400A), DuraMate™ AHDP with HYPERBUSS™, Plastic, Potted, Red Body (Includes bolt, nut and washers)	12	25A (400A Max)



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(DM) Dura Mate[™]AHDP ISOBUS 91 Series

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



Available in Shell Size 24, 9 Position

Amphenol Sine Systems' **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
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- 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[™] standard contact system (Stamped & Formed or Machined)

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

	Size 8, 60A	Housing Material	Thermoplastic
Current Rating per Contact	Size 12, 25A Size 16, 13A	Insulation Insert	Thermoplastic
Operating Temperature	-55°C to +125°C	Seal	Silicone Rubber
Dielectric Withstanding Voltage	Current Leakage -2mA at 1500 VAC	Contact	A Series™ Common System
IP Rating (in mated condition)	IP68 and IP69K	Poll's Compliant	ALL materials meet the requirements of the European Directive. (See website for
Mating Cycle Durability	100 Cycles	Kons Compilant	documentation)







DuraMate[™] AHDP ISOBUS 91 Series - Insert Arrangements

Shell Size 24		Contact Legend (Size/Amp)				
24-91 2 x Size 8, 2 x Size 12, 5 x Size 16	۲	۲	•	•		
N R	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	(N) Normal Seal	(R) Reduced Seal	(R) Reduced Seal for 6AWG/16mm ² (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 (2.0-0.5mm ²)	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





Contact Removal Tools

Wide Thread Adapter (WTA)

Blank Seal Plugs

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



Wide Thread Adapter (WTA)



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	250∨
E	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	250∨
E	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	250∨
	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	250∨
C	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	250∨
	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	250∨
	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/16mm ² Wire Seal Note: Use AT62-203-08141-16 contacts for 6AWG/16mm ² applications	Size 8, 60A Size 12, 25A Size 16, 13A	250∨
	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	250∨
	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/16mm ² Wire Seal Note: Use AT62-203-08141-16 contacts for 6AWG/16mm ² applications	Size 8, 60A Size 12, 25A Size 16, 13A	250∨
	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	250∨
Ć	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	250∨

DuraMate[™] AHDP ISOBUS 91 Series - Receptacles

Image	Part Number	Description	Contact Size/Amp	Voltage
C3	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	250∨
C 3	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	250∨
	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	250∨



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Image	Part Number	Description	Contact Size/Amp	Voltage
C3	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	250∨
	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	250∨
	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	250∨
	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	250∨
	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	250∨
	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 90°, 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
() here (AHDPBS-11L017-2405	Shell Size 24, Backshell, Conduit, Snap-Over, Right Angle 180°, 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 180°, 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
1ª III	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 Note: 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™ AHDP Note: For use with Small Thread Adapter (STA)
(The second	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



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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
0	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
K	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
alle -	AT60-204-08141-16	Contact Size 8, 6AWG/16mm ² 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 ² Wire Range, Contact, Socket, Nickel-plated Note: Refer to Plug/Receptacle datasheets for a complete list of available contacts



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DM Dura **Mate** AHDM

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

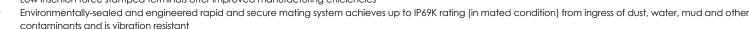
Available in Shell Size 18 with 6 insert arrangements 2, 6, 8, 14, 20 and 21 Available in Shell Size 24 with 15 insert arrangements 7(x2), 9, 14, 16, 18, 19, 21, 23, 27, 29, 31, 33, 35 and 47

Amphenol Sine Systems' **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.

(DM) Dura Mate 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 zinc-alloy metal housings
- 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.
- Utilizes A Series[™] 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[™] standard contact system (Stamped & Formed or Machined)

DuraMate™ AHDM - Specifications (Reference Individual Datasheets)						
	Size 4 - 100A / Size 4+ - 100A	Housing Material	Zinc-Alloy			
Current Rating per Contact	Size 8 - 60A / Size 8 RADSOK - 80A Size 12 - 25A	Insulation Insert	Thermoplastic			
	Size 16 - 13A Size 20 - 7.5A	Seal	Silicone Rubber			
Operating Temperature		Contact	A Series™ Common System			
Dielectric Withstanding Voltage		RoHS Compliant	ALL materials meet the requirements of the European Directive. (See website for			
IP Rating (in mated condition)	IP68 and IP69K	Kons Compilant	documentation)			
Mating Cycle Durability	100 Cycles					

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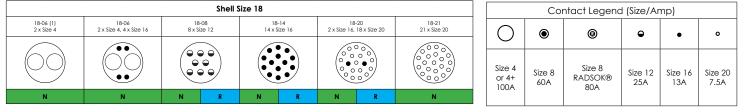






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DuraMate™ AHDM - Insert Arrangements (1) C030 - 6 Position/2 Used (Size 4); (4) CL22 - 7 Position Alt Construction)



				Shell	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		-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
			0000000 000000000000000000000000000000		
R	R	т	N	R	R

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

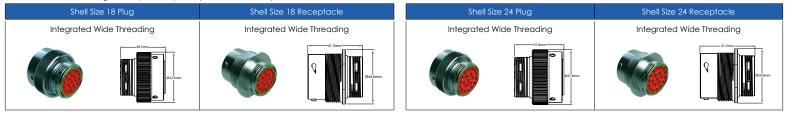
Contact Size	Typical Wire Range	(N) Normal Seal	(T) Thin Seal	(R) Reduced Seal (See datasheets)	
4+	4AWG (25.0-21.0mm²)	7.9-10.67mm (0.311-0.420'')	-	-	-
	6AWG (16.0-13.0mm²)	6.63-7.41mm (0.261-0.292'')	-	6.63-7.41mm (0.261-0.292'')	-
	8-10AWG (10.0-5.0mm²)	4.83-6.10mm (0.190-0.240'')	-	3.43-5.59mm (0.135-0.220'')	-
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





DuraMate™ AHDM - Plug & Receptacle Options (Dimensions in mm)



DuraMate™ AHDM - Backshell Options and Accessories

Image	Part Number	Description
	AHDMBS-24-002	Shell Size 24, Backshell, 2 PC, DuraMate™ AHDM
e.	AHDMBS-18-002	Shell Size 18, Backshell, 2 PC, DuraMate™ AHDM
	AHDMBS-24-001	Shell Size 24, Backshell, Tie Wrap, End Bell, DuraMate™ AHDM
S	AHDMBS-18-001	Shell Size 18, Backshell, Tie Wrap, End Bell, DuraMate™ AHDM
	AHDMBS-24-059	Shell Size 24, Backshell, w Cable Clamp, DuraMate™ AHDM
	AHDMBS-18-059	Shell Size 18, Backshell, w Cable Clamp, DuraMate™ AHDM
	AHDMBS-24-SM01	Shell Size 24, Backshell, Metal, DuraMate™ AHDM
	AHDMBS-18-SM01	Size 18, Backshell, Metal, 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
	AHDM-BS-24NUT	Shell Size 24, Adapter for use with: AHDPBS-010-2405 AHDP Backshell, Conduit, Snap-Over, Straight 180 AHDPBS-011-2405 AHDP Backshell, Conduit, Snap-Over, Right Angle 90
	AHDM-BS-18NUT	Shell Size 18, Adapter for use with: AHDPBS-015-1805 AHDP Backshell, Conduit, Snap-Over, Straight 180 AHDPBS-016-1805 AHDP Backshell, Conduit, Snap-Over, Right Angle 90
	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
	AHDC36-18	Shell Size 18, Protective Cap for Receptacle, DuraMate™ AHDM



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Image	Part Number	Description
\bigcirc	A112264	Shell Size 24, Lockwasher, DuraMate™ AHDM
\cup	A114021	Shell Size 18, Lockwasher, DuraMate™ AHDM
	A112263-90	Shell Size 24, Nut, DuraMate™ AHDM
\cup	A114020-90	Shell Size 18, Nut, DuraMate™ AHDM
$\overline{}$	AHDP-16-04477	Shell Size 24, Rubber Flange Seal, Duramate™ AHDP/ Duramate™ AHDM
\cup	AHDP-16-04978	Shell Size 18, Rubber Flange Seal, Duramate™ AHDP/ Duramate™ AHDM
%	A114019	Contact Size 4, Blank Seal Plug
<u> </u>	A114018	Contact Size 8, Blank Seal Plug
<u> </u>	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



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(DM) Dura<mark>|Mate™</mark>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 Breakaway-Ready Receptacle



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
 Plugs (like AHDBM 91 Plugs)
- 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 16mm² 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)







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DuraMate[™] AHDM/AHDBM ISOBUS 91 Series - Specs (Ref. Individual Datasheets)

Current Rating per Contact	Size 8, 60A; Size 12, 25A; Size 16, 13A	Insulation Insert	Thermoplastic
Operating Temperature	-55°C to +125°C	Seal	Silicone Rubber
Dielectric Withstanding Voltage	Current Leakage-2mA at 1500 VAC	Contact	A Series™ Common System
IP Rating (in mated condition)	IP68 and IP69K		ALL materials meet the requirements of
Mating Cycle Durability	100 Cycles	RoHS Compliant	the European Directive. (See website for documentation)
Housing Material	Zinc-alloy/Aluminum-alloy		

DuraMate™ AHDM/AHDBM ISOBUS 91 Series - Insert Arrangements

Size	Size 24		Contact Legend	(Size/Amp)	
24- 2 x Size 8, 2 5 x Siz	2 x Size 12,	۲	۲	•	•
		Size 8 (6AWG) 60A	Size 8 (8-10AWG) 60A	Size 12 25A	Size 16 13A
N	R				

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

Contact Size	Typical Wire Range	(N) Normal Seal	(R) Reduced Seal	(R) Reduced Seal for 6AWG/16mm ² (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	



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	250∨
	AHDM06-24-91SN-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	250∨
	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	250∨
ŶĜ	AHDM06-24-91SR-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	250∨
	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 Note: Use AT62-203-08141-16 contacts for 6AWG/16mm² applications	Size 8, 60A Size 12, 25A Size 16, 13A	250∨
ŶŶĊQ	AHDM06-24-91SR16-059	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 Contact, 6AWG/16mm ² Wire Seal Note: Use AT62-203-08141-16 contacts for 6AWG/16mm ² applications	Size 8, 60A Size 12, 25A Size 16, 13A	250∨

DuraMate™ AHDBM ISOBUS 91 Series - Breakaway Plugs

Image	Part Number	Description	Contact Size/Amp	Voltage
	AHDBM06-24-91SN	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	250∨
	AHDBM06-24-91SN-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	250∨
	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	250∨
	AHDBM06-24-91\$R-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	250∨
	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/16mm ² Wire Seal Note: Use AT62-203-08141-16 contacts for 6AWG/16mm ² applications	Size 8, 60A Size 12, 25A Size 16, 13A	250∨
	AHDBM06-24-91SR16-059	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/16mm ² Wire Seal Note: Use AT62-203-08141-16 contacts for 6AWG/16mm ² 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	250∨
	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	250∨
	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	250∨
N	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	250∨
	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/16mm ² Wire Seal Note: Use AT60-204-08141-16 contacts for 6AWG/16mm ² applications	Size 8, 60A Size 12, 25A Size 16, 13A	250∨
Nico .	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/16mm ² Wire Seal Note: Use AT60-204-08141-16 contacts for 6AWG/16mm ² applications	Size 8, 60A Size 12, 25A Size 16, 13A	250∨

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

Image	Part Number	Description
(Carl	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
(Comp)	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
0	AHDM-BS-24NUT	Shell Size 24, Adapter for use with: AHDPBS-010-2405 AHDP Backshell, Conduit, Snap-Over, Straight 180 AHDPBS-011-2405 AHDP Backshell, Conduit, Snap-Over, Right Angle 90



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
\bigcirc	A112264	Shell Size 24, Lockwasher, DuraMate™ AHDM/AHDBM ISOBUS 91 Series
\bigcirc	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
K	AT11-337-1205	Contact Size 12 , Contact Removal Tool, Orange, 12-14AWG
N.	AT11-001-3.6M	Contact Size 8, Contact Removal Tool, Black, 7-10AWG
	AT114008	Contact Size 8, Contact Removal Tool, Green, 8-10AWG
Aller -	AT60-204-08141-16	Contact Size 8, 6AWG/16mm ² 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 ² Wire Range, Contact, Socket, Nickel-plated Note: Refer to Plug/Receptacle datasheets for a complete list of available contacts

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