Inelco Hunter Limited
specialist supplier of electronic components & solutions

INDUSTRIAL@AMPHENOL TRUSTED GLOBALLY

DM Dura|Mate™ Family

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

The Amphenol **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. The ISOBUS 91 Series products specifically meet ISO 11783 standards (for control and communications between tractors, implements and software) for agricultural applications.

Currently available in the following Series:

DM Dura|Mate™ AHDP

DM Dura|Mate™ AHDP ISOBUS 91 Series

DM Dura|Mate™ AHDM

DM Dura|Mate™ AHDM/AHDBM ISOBUS 91 Series

DuraMate™ AHDP (Pgs 3-7): Shell Size 18 with 8 insert arrangements 2, 6, 8, 14(x3), 20 and 21
Shell Size 24 with 14 insert arrangements 7(x2), 9, 14, 16, 18, 19, 21, 23, 27, 29, 31, 35 and 47

DuraMate™ AHDP ISOBUS 91 (Pgs 8-13): Shell Size 24, 9 Position

DuraMate™ AHDM (Pgs 14-17): Shell Size 18 with 6 insert arrangements 2, 6, 8, 14, 20 and 21
Shell Size 24 with 14 insert arrangements 7(x2), 9, 14, 16, 18, 19, 21, 23, 27, 29, 31, 35 and 47

DuraMate™ AHDM/AHDBM ISOBUS 91 (Pgs 18-23): Shell Size 24, 9 Position

Key Features

IP68 IP69K

- 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 IP68/IP69K protection (in mated condition) from ingress of dust, water, mud and other contaminants and is vibration resistent
- 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)

A ASeries™ Family

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DuraMate™ AHDM/AHDP Series - Part Numbering Sequence

AHD X XX - XX - XX X X - XXX XXXX

- Amphenol Sine Systems
- Plastic Body - **P**
  Metal Body - **M**
- Plug - **06**
  Receptacle - **04**
  PanelMate™ Receptacle - **02**
- Shell Size - **18** or **24**
- No. of Positions - **06-47**
- **Contact Type**
  S - Socket
  P - Pin
- **Rear Seal Type**
  N - Normal Diameter Insulation (Green)
  T - Thin Diameter Insulation (Grey)
  R - Reduced Diameter Insulation (Blue)
- **Adapter Style**
  059 - Backshell w Cable Clamp
  SRA - Smooth Ring Adapter
  STA - Small Thread Adapter
  WTA - Wide Thread Adapter
  BRA - Backshell Ring Adapter
- **Modifications**
  C030 - 6 Position/2 Used (Size 4)
  C041 - Receptacle w Diagnostic Keying
  CL20 - Plug w Diagnostic Keying
  CL22 - 7 Position Alt Construction

DuraMate™ AHDP/AHDM Series - Sample Layouts

AHDP04-18-06PN-BRA
Shell Size 18, 6 Position, Receptacle, Pin, DuraMate™ AHDP, Plastic, Normal Seal, Backshell Ring Adapter (BRA)

DuraMate™ AHDP

AHDP06-18-20SN-SRA
Shell Size 18, 20 Pos, Plug, Socket, DuraMate™ AHDP Series, Plastic, Normal Seal, Smooth Ring Adapter (SRA)

DuraMate™ AHDP

AHDP04-24-27SR-STA
Shell Size 24, 27 Pos, Receptacle, Pin, DuraMate™ AHDP, Plastic, Normal Diameter Seal, Small Thread Adapter (STA)

DuraMate™ AHDP

AHDP02-18-08PR-WTA
Shell Size 18, 8 Pos, Receptacle with Flange, Pin, DuraMate™ AHDP with PanelMate™, Plastic, Reduced Seal, Wide Thread Adapter (WTA)

DuraMate™ AHDP

AHDM04-18-08SN
Shell Size 18, 8 Pos, Receptacle, Socket, DuraMate™ AHDM Series, Metal Body, Normal Seal, Wide Thread Adapter (WTA)

DuraMate™ AHDM

AHDM06-24-16PR
Shell Size 18, 16 Pos, Plug, Pin, DuraMate™ AHDM Series, Metal Body, Reduced Seal, Wide Thread Adapter

DuraMate™ AHDM

AHDM06-18-14SR-059
Shell Size 18, 14 Pos, Plug, Socket, DuraMate™ AHDM Series, Metal Body, Reduced Seal, Backshell with -059 Cable Clamp

DuraMate™ AHDM

DM DuraMate™ 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 14 insert arrangements 7(x2), 9, 14, 16, 18, 19, 21, 23, 27, 29, 31, 35 and 47

The **DuraMate™ AHDP** environmentally-sealed, multi-pin, heavy duty, plastic, circular connector series provides an economical quick-connect bayonet locking system manufactured to withstand the challenges and complexities of harsh environment off-road applications.

IP68 IP69K

- 3 keyway bayonet design ensures proper mating of connectors
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- Utilizes A Series™ standard contact system (Stamped & Formed or Machined)

DuraMate™ AHDP - Specifications

Current Rating per Contact	Size 4 - 100A / Size 4+ - 100A Size 8 - 60A / Size 8 RADSOK - 80A Size 12 - 25A Size 16 - 13A Size 20 - 7.5A	Housing Material	Thermoplastic
Operating Temperature	-55°C to +125°C	Insulation Insert	Thermoplastic
Dielectric Withstanding Voltage	Current Leakage -2mA at 1500 VAC	Seal	Silicone Rubber
Degree of Protection	IP68/69K (in mated condition)	Contact	A Series™ Common System
Mating Cycle Durability	100 Cycles	Compliance	RoHS

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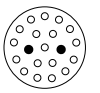
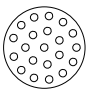
DuraMate™ AHDP - Insert Arrangements (1) C030 - 6 Position/2 Used (Size 4); (2) C041 - Receptacle w Diagnostic Keying; (3) CL20 - Plug w Diagnostic Keying; (4) CL22 - 7 Position Alt Construction)

Shell Size 18

18-06 (1) 2 x Size 4	18-06 2 x Size 4, 4 x Size 16	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
										
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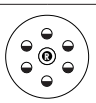
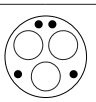
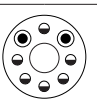
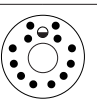
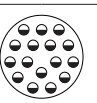
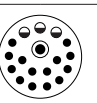
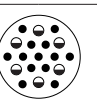
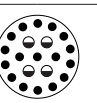
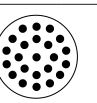
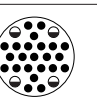
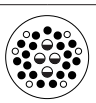
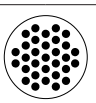
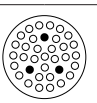
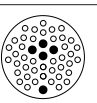
Shell Size 24

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	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 31 X Size 16	24-35 3 X Size 16, 32 X Size 20	24-47 5 X Size 16, 42 X Size 20
			
R	R T	R	R

Contact Legend (Size/Amperage)					
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 Seal (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 (0.1350-.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")	2.23-2.69mm (0.088-.106")	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 (0.040-.095")	-	1.02-02.41mm (0.040-0.095")	1.02-2.10mm (0.040-0.083")

DuraMate™ AHDP - Backshell Options and Accessory Overview

Protective Caps

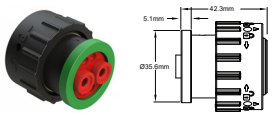
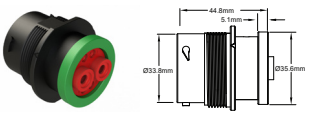
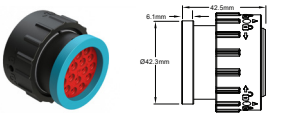
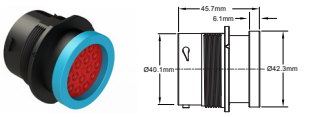
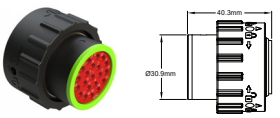
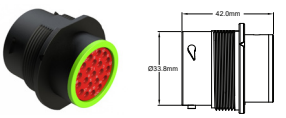
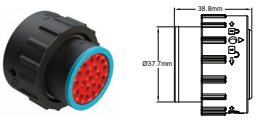
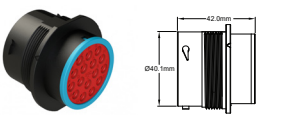
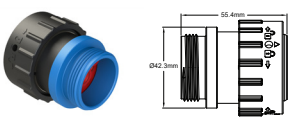
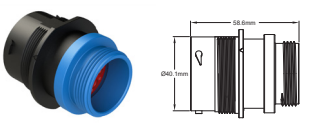
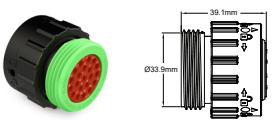
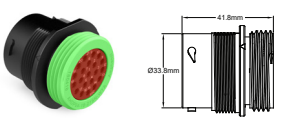
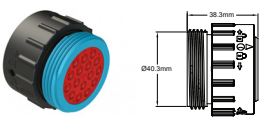
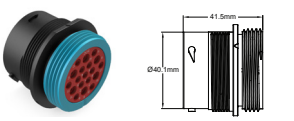
Lockwashers/Panel Nuts/
Rubber Flange Seals

Wide Variety of Backshell Options

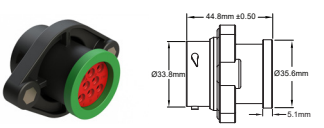
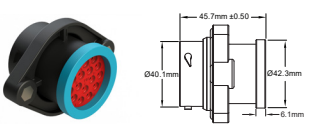
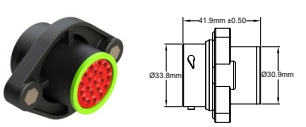
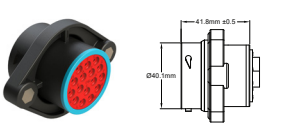
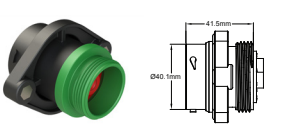
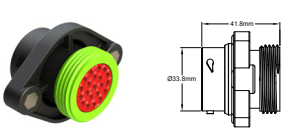
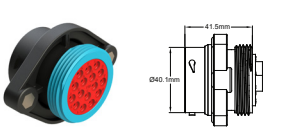
Contact Removal Tools

Blank Seal Plugs

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) 	Backshell Ring Adapter (BRA) 	Backshell Ring Adapter (BRA) 	Backshell Ring Adapter (BRA) 
Smooth Ring Adapter (SRA) 	Smooth Ring Adapter (SRA) 	Smooth Ring Adapter (SRA) 	Smooth Ring Adapter (SRA) 
-	-	Small Thread Adapter (STA) 	Small Thread Adapter (STA) 
Wide Thread Adapter (WTA) 	Wide Thread Adapter (WTA) 	Wide Thread Adapter (WTA) 	Wide Thread Adapter (WTA) 

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

Shell Size 18 Plug	Shell Size 18 Receptacle	Shell Size 24 Plug	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 - 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)
	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)
	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 Diameter Range 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 Diameter Range 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 Diameter Range 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 Diameter Range 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 Diameter Range 19.5mm - 24.1mm, DuraMate™ AHDP **Note:** 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 **Note:** For use with Wide Thread Adapter (WTA)
	AHDPM18-BT	Shell Size 18, Rubber Boot, for DuraMate AHDP (SRA only) & AHDM, Plastisol, Grey Color
	AHDPM18-BT-BK	Shell Size 18, Rubber Boot, for DuraMate AHDP (SRA only) & AHDM, Plastisol, Black Color
	AHDPM24-BT	Shell Size 24, Rubber Boot, for DuraMate AHDP (SRA only)& AHDM, Plastisol, Grey Color
	AHDPM24-BT-BK	Shell Size 24, Rubber Boot, for DuraMate AHDP (SRA only) & AHDM, Plastisol, Black Color
	AHDC06-18	Shell Size 18, Receptacle Cap, Sealed, DuraMate™ AHDP
	AHDC06-24	Shell Size 24, Receptacle Cap, Sealed, DuraMate™ AHDP

DuraMate™ AHDP - Backshell Options and Accessories, cont.

Image	Part Number	Description
	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
	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
	AHDP18-PN01	Shell Size 18, Panel Nut, DuraMate™ AHDP
	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
	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 DuraMate™ AHDP ISOBUS 91 Series

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

Available in Shell Size 24, 9 Position

The Amphenol **DuraMate™ AHDP ISOBUS 91 Series** of environmentally-sealed, multi-pin, heavy duty, circular plastic (AHDP) plugs and receptacles provide an economical, quick-connect, circular bayonet locking system **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**

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 IP67/IP69K protection (in mated condition) from ingress of dust, water, mud and other contaminants and is vibration resistent
- 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™ standard contact system (Stamped & Formed or Machined)

DuraMate™ AHDP ISOBUS 91 Series - Specifications

Current Rating per Contact	Size 8, 60A Size 12, 25A Size 16, 13A	Housing Material	Thermoplastic
Operating Temperature	-55°C to +125°C	Insulation Insert	Thermoplastic
Dielectric Withstanding Voltage	Current Leakage -2mA at 1500 VAC	Seal	Silicone Rubber
Degree of Protection	IP68/69K (in mated condition)	Contact	A Series™ Common System
Mating Cycle Durability	100 Cycles	Compliance	RoHS

A ASeries™ Family

Customer Service +44 (0)118 916 6928

DuraMate™ AHDP ISOBUS 91 Series - Insert Arrangements

Shell Size 24
24-09 2 x Size 8, 2 x Size 12, 5 x Size 16
N / R

Contact Legend (Size/Amperage)			
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/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

Protective Caps

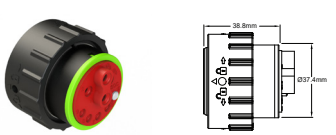
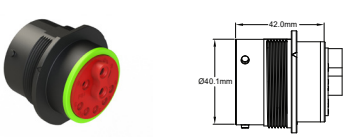
Lockwashers/Panel Nuts/
Rubber Flange Seals

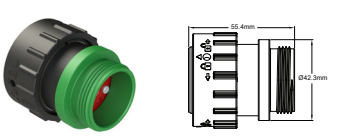
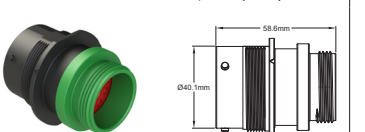
Wide Variety of Backshell Options

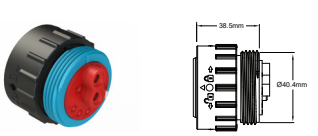
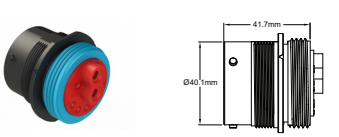
Contact Removal Tools

Blank Seal Plugs

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

Shell Size 24 Plug	Shell Size 24 Receptacle
Smooth Ring Adapter (SRA)	Smooth Ring Adapter (SRA)
	

Shell Size 24 Plug	Shell Size 24 Receptacle
Small Thread Adapter (STA)	Small Thread Adapter (STA)
	

Shell Size 24 Plug	Shell Size 24 Receptacle
Wide Thread Adapter (WTA)	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	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 **Note:** 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 **Note:** 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
	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 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
	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
	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)

DuraMate™ AHDP ISOBUS 91 Series - Backshell Options and Accessories, cont.

Image	Part Number	Description
	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 Diameter 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 Diameter 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 Diameter Range 14.5mm - 18.0mm, DuraMate™ AHDP **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, Rubber Boot, for DuraMate AHDP (SRA only) & AHDM, Plastisol, Grey Color
	AHDPM18-BT-BK	Shell Size 18, Rubber Boot, for DuraMate AHDP (SRA only) & AHDM, Plastisol, Black Color
	AHDPM24-BT	Shell Size 24, Rubber Boot, for DuraMate AHDP (SRA only)& AHDM, Plastisol, Grey Color
	AHDPM24-BT-BK	Shell Size 24, Rubber Boot, for DuraMate AHDP (SRA only) & AHDM, Plastisol, Black Color
	AHDC06-24	Shell Size 24, Receptacle Cap, Sealed, DuraMate™ AHDP ISOBUS 91 Series
	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
	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
	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

DuraMate™ AHDP ISOBUS 91 Series - Backshell Options and Accessories, cont.

Image	Part Number	Description
	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
	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

DM DuraMate™ AHDM

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 14 insert arrangements 7(x2), 9, 14, 16, 18, 19, 21, 23, 27, 29, 31, 35 and 47

The **DuraMate™ AHDM** environmentally-sealed, multi-pin, heavy duty, metal, circular connector series provides an economical quick-connect bayonet locking system manufactured to withstand the challenges and complexities of harsh environment off-road applications.

- 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 IP68/IP69K protection (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™ 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

DuraMate™ AHDM - Specifications

Current Rating per Contact	Size 4 - 100A / Size 4+ - 100A Size 8 - 60A / Size 8 RADSOK - 80A Size 12 - 25A Size 16 - 13A Size 20 - 7.5A	Housing Material	Zinc-Alloy
Operating Temperature	-55°C to +125°C	Insulation Insert	Thermoplastic
Dielectric Withstanding Voltage	Current Leakage -2mA at 1500 VAC	Seal	Silicone Rubber
Degree of Protection	IP68/69K (in mated condition)	Contact	A Series™ Common System
Mating Cycle Durability	100 Cycles	Compliance	RoHS

A ASeries™ Family

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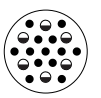
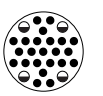
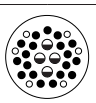
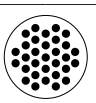
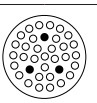
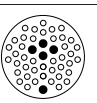
DuraMate™ AHDM - Insert Arrangements (1) C030 - 6 Position/2 Used (Size 4); (4) CL22 - 7 Position Alt Construction)

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

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

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	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 31 X Size 16	24-35 3 X Size 16, 32 X Size 20	24-47 5 X Size 16, 42 X Size 20
			
R	R / T	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")	-	-	-
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 (0.1350-.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")	2.23-2.69mm (0.088-.106")	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 (0.040-.095")	-	1.02-02.41mm (0.040-0.095")	1.02-2.10mm (0.040-0.083")

DuraMate™ AHDM - Backshell Options and Accessory Overview

Protective Caps

Lockwashers/Panel Nuts/
Rubber Flange Seals

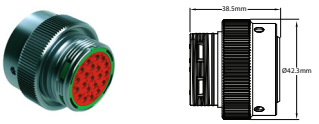
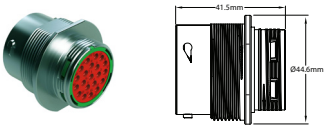
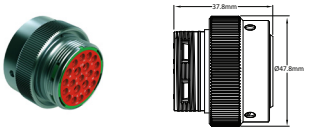
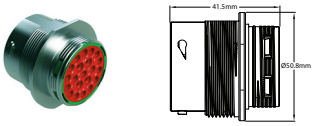
Blank Seal Plugs

Adapter for Conduit,
Snap-Over, Backshell
90°/180°

Contact Removal Tools

Wide Variety of Backshell Options

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

Shell Size 18 Plug	Shell Size 18 Receptacle	Shell Size 24 Plug	Shell Size 24 Receptacle
Integrated Wide Threading	Integrated Wide Threading	Integrated Wide Threading	Integrated Wide Threading
			

DuraMate™ AHDM - Backshell Options and Accessories

Image	Part Number	Description
	AHDMBS-24-002	Shell Size 24, Backshell, 2 PC, DuraMate™ AHDM
	AHDMBS-18-002	Shell Size 18, Backshell, 2 PC, DuraMate™ AHDM
	AHDMBS-24-001	Shell Size 24, Backshell, Tie Wrap, End Bell, DuraMate™ AHDM
	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, Rubber Boot, for DuraMate AHDP (SRA only) & AHDM, Plastisol, Grey Color
	AHDPM18-BT-BK	Shell Size 18, Rubber Boot, for DuraMate AHDP (SRA only) & AHDM, Plastisol, Black Color
	AHDPM24-BT	Shell Size 24, Rubber Boot, for DuraMate AHDP (SRA only)& AHDM, Plastisol, Grey Color
	AHDPM24-BT-BK	Shell Size 24, Rubber Boot, for DuraMate AHDP (SRA only) & AHDM, Plastisol, 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

DuraMate™ AHDM - Backshell Options and Accessories, cont.

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 DuraMate™ AHDM/AHDBM ISOBUS 91 Series

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

AHDBM Circular Bayonet Breakaway-Ready Receptacle

AHDM Circular Bayonet Standard Plug

AHDBM Circular Bayonet Breakaway Plug

Available in Shell Size 24, 9 Position

The Amphenol **DuraMate™ AHDM/AHDBM ISOBUS 91 Series** of environmentally-sealed, multi-pin, heavy-duty, circular metal plugs (AHDM) and breakaway metal (AHDBM) plugs & receptacles provide an economical, quick-connect, bayonet locking system **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.

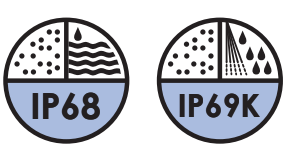
Key ISOBUS 91 Series Features

+ **One-to-one alternative for all 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**

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

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 IP67/IP69K protection (in mated condition) from ingress of dust, water, mud and other contaminants and is vibration resistent
- 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)

A ASeries™ Family

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DuraMate™ AHDM/AHDBM ISOBUS 91 Series - Specifications

Current Rating per Contact	Size 8, 60A; Size 12, 25A; Size 16, 13A	Housing Material	Zinc-alloy/Aluminum-alloy
Operating Temperature	-55°C to +125°C	Insulation Insert	Thermoplastic
Dielectric Withstanding Voltage	Current Leakage-2mA at 1500 VAC	Seal	Silicone Rubber
Degree of Protection	IP68/69K (in mated condition)	Contact	A Series™ Common System
Mating Cycle Durability	100 Cycles	Compliance	RoHS

DuraMate™ AHDM/AHDBM ISOBUS 91 Series - Insert Arrangements

Size 24
24-09 2 x Size 8, 2 x Size 12, 5 x Size 16
N / R

Contact Legend (Size/Amperage)			
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	(N) Normal Seal	(R) 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

Protective Caps

Lockwashers/Panel Nuts/
Rubber Flange Seals

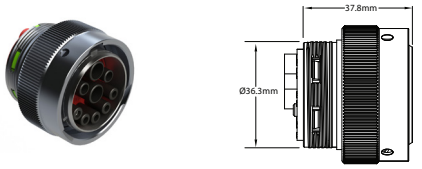
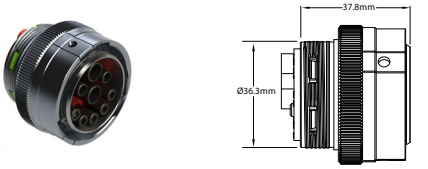
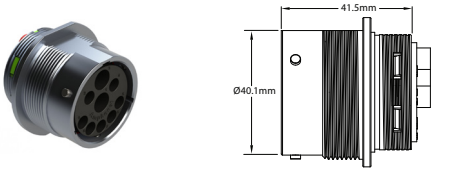
Blank Seal Plugs

Adapter for Conduit,
Snap-Over, Backshell
90°/180°

Contact Removal Tools

Wide Variety of Backshell Options

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	250V
	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	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
	AHDM06-24-91SR-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	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 **Note:** 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™ 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
	AHDBM06-24-91SN	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	250V
	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	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

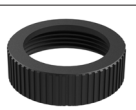
DuraMate™ AHDBM ISOBUS 91 Series - Breakaway Plugs, cont.

Image	Part Number	Description	Contact Size/Amp	Voltage
	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
	AHDBM06-24-91SR16-059	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/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-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
	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, Rubber Boot, for DuraMate AHDP (SRA only) & AHDM, Plastisol, Grey Color
	AHDPM18-BT-BK	Shell Size 18, Rubber Boot, for DuraMate AHDP (SRA only) & AHDM, Plastisol, Black Color
	AHDPM24-BT	Shell Size 24, Rubber Boot, for DuraMate AHDP (SRA only)& AHDM, Plastisol, Grey Color
	AHDPM24-BT-BK	Shell Size 24, Rubber Boot, for DuraMate AHDP (SRA only) & AHDM, Plastisol, 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
	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
	AHDP-16-04477	Shell Size 24, Rubber Flange Seal, Duramate™ AHDP/ Duramate™ AHDM

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

Image	Part Number	Description
	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
	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

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