



# DM DuraMate™ AHDP

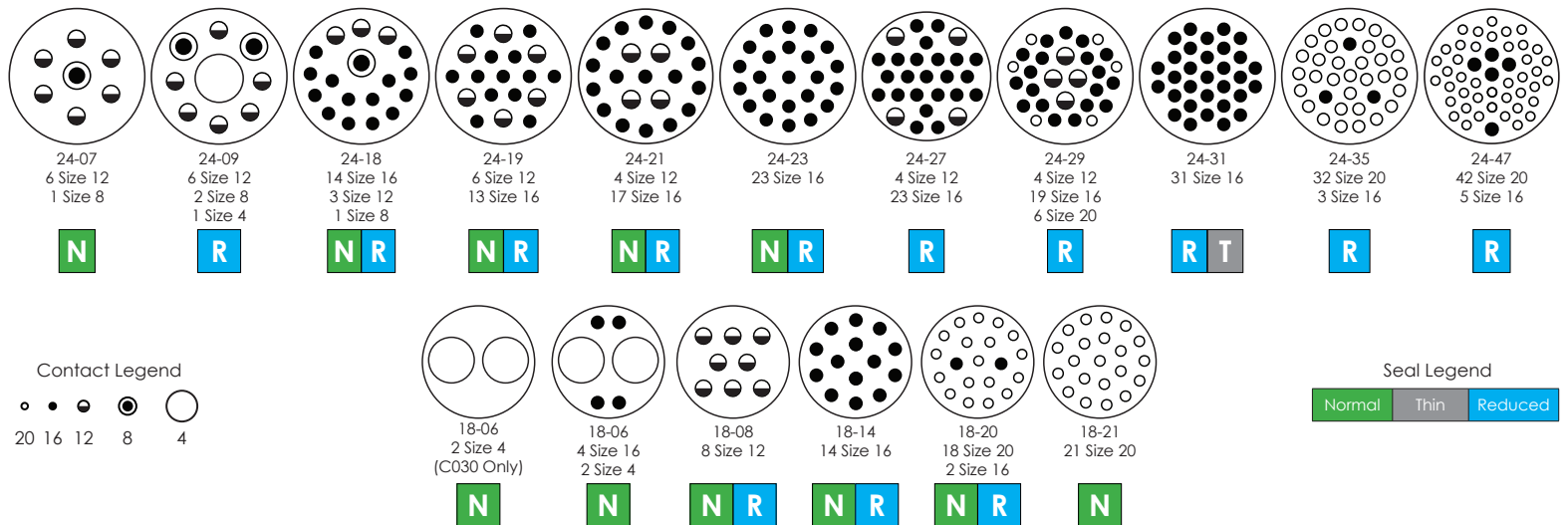
## Plastic Circular Connectors for Heavy Duty Applications



**Available in Size 24 with 11 insert arrangements** (7, 9, 18, 19, 21, 23, 27, 29, 31, 35 and 47)  
**Available in Size 18 with 6 insert arrangements** (2, 6, 8, 14, 20 and 21)

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.

- 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 housings
- Low insertion force stamped terminals offer improved manufacturing efficiencies
- Standard WTA(Wide Thread Adapter) provides maximum access to rear grommet and improved serviceability.
- 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 resistant.
- Sealing features consisting of durable high temperature silicone provide barrier from lubricating oils, hydraulic fluids and fossil fuels
- Back shells 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
- Wire entry sealing available in three separate ranges for discrete wire applications



Contact Legend



Seal Legend

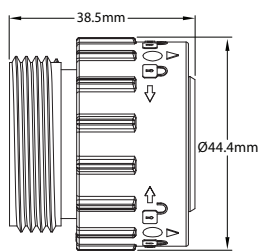


A Series™ Family

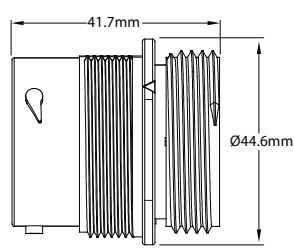


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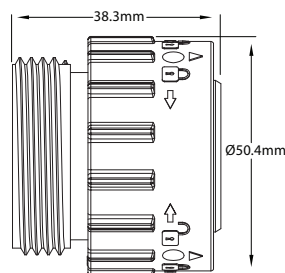
- ① Wide threaded collar ring for increased serviceability and connector access
- ② Highly visible indicators for quick alignment and 100% positive mating
- ③ Enclosed 1-piece threaded backshell with low-cost strain relief
- ④ Optional backshells available
- ⑤ Contact removal tools
- ⑥ RADSOK® contacts
- ⑦ Metal Wave Washer
- ⑧ Plastic Panel Nut
- ⑨ Plastic Caps



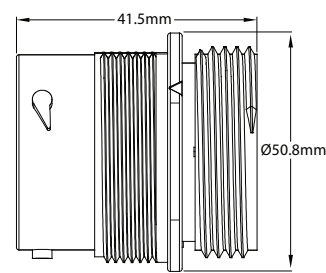
Shell Size 18 Plug



Shell Size 18 Receptacle



Shell Size 24 Plug



Shell Size 24 Receptacle

Material & Performance Specifications

Current Rating per Contact	Size 4, 100A; Size 8, 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 -12mA at 1500 VAC	Seal	Silicone Rubber
Degree of Protection	IP67/69K (in mated condition)	Contact	A Series™ Common System
Mating Cycle Durability	100 Cycles	Compliance	RoHS

Recommended Wire Insulation Overall Diameter (OD)

Contact Size	Normal Seal	Thin Seal	Reduced Seal
20	1.02mm (.040") - 2.10mm (.083")	N/A	1.02mm (.040") - 2.41mm (.095")
16	2.54mm (.100") - 3.40mm (.134")	2.23mm (.088") - 3.40mm (.134")	1.35mm (.053") - 3.05mm (.120")
12	3.43mm (.135") - 4.32mm (.170")	N/A	2.46mm (.097") - 4.01mm (.158")
8	4.83mm (.190") - 6.10mm (.240")	N/A	N/A
4	N/A	N/A	6.63mm (.261") - 7.42mm (.292")

**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)