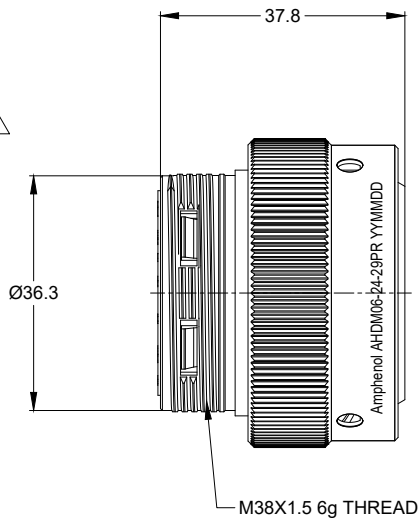
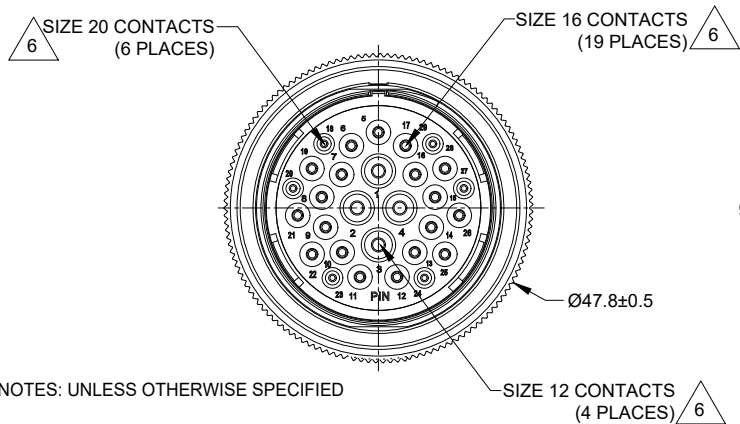




NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL:

SHELL: ZINC ALLOY, NICKEL PLATED  
COUPLING RING: ALUMINUM ALLOY, NICKEL PLATED  
INSERT AND RETAINING RING: THERMOPLASTIC  
SEAL: SILICONE RUBBER

2. MODIFICATIONS: THREADED HOUSING; REDUCED DIA. WIRE SEAL

3. SPECIFICATIONS:

- 3.1 OPERATING TEMPERATURE: -55°C TO +125°C.
- 3.2 DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS CURRENT LEAKAGE @ 1500 VOLTS AC.
- 3.3 INSULATION RESISTANCE: 1000 MEGOHM MIN @ 25°C.
- 3.4 MOISTURE RESISTANCE: IP67&IP69K ( MATED CONDITION ).
- 3.5 MATING CYCLE DURABILITY: 100 CYCLES
- 3.6 RoHS COMPLIANT

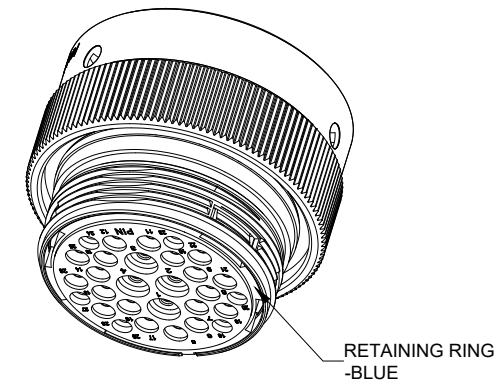
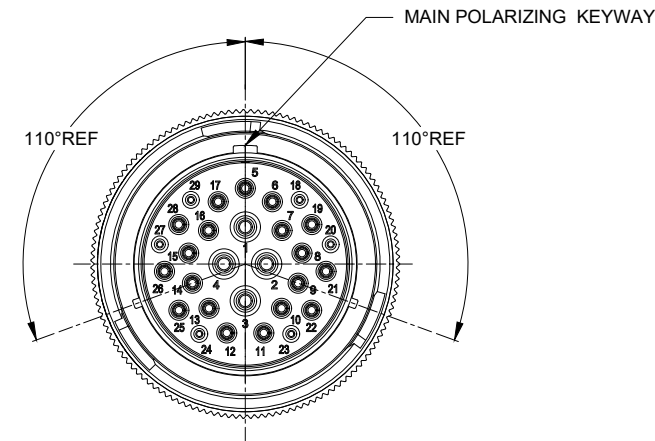
4. MATING PART: AHDM04-24-29S\* ( \* = SEAL TYPE )

5. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

6. CONTACT SIZE AND WIRE RANGE:

| CONTACT SIZE | MIN. INSUL O.D.   | MAX. INSUL O.D.   | TYPICAL WIRE RANGE | CURRENT RATING |
|--------------|-------------------|-------------------|--------------------|----------------|
| 12           | 2.46 mm (.097 in) | 4.01 mm (.158 in) | 10-14 AWG          | 25 AMPS        |
| 16           | 1.35 mm (.053 in) | 2.62 mm (.103 in) | 14-20 AWG          | 13 AMPS        |
| 20           | 1.02 mm (.040 in) | 2.10 mm (.083 in) | 16-22 AWG          | 7.5 AMPS       |

| REVISIONS |     |                         |           |       |       |
|-----------|-----|-------------------------|-----------|-------|-------|
| REV       | ECO | DESCRIPTION             | DATE      | BY    | APPR  |
| A1        | --  | RELEASE NEW DRAWING     | 18/OCT/18 | BROOK | TOMMY |
| A2        | --  | ADD MORE MATERIAL NOTES | 25/OCT/18 | BROOK | TOMMY |



|                                                                                                           |  |                                                                                                                                                                                                                                                                      |  |                        |
|-----------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|
| AHDM06-24-29PR                                                                                            |  | DESCRIPTION                                                                                                                                                                                                                                                          |  | ITEM                   |
| PART NUMBER                                                                                               |  |                                                                                                                                                                                                                                                                      |  |                        |
| MATERIALS LIST                                                                                            |  |                                                                                                                                                                                                                                                                      |  |                        |
| UNLESS OTHERWISE SPECIFIED                                                                                |  | SIGNATURES                                                                                                                                                                                                                                                           |  | DATE                   |
| 1) All dimensions are in metric(mm).                                                                      |  | DRAWN: BROOK                                                                                                                                                                                                                                                         |  | 25/OCT/18              |
| 2) Tolerances are as follows:                                                                             |  | CHECKED: ORION                                                                                                                                                                                                                                                       |  | 25/OCT/18              |
| 1 PL DEC ±0.30                                                                                            |  | ENGINEER:                                                                                                                                                                                                                                                            |  |                        |
| 2 PL DEC ±0.15                                                                                            |  | APPROVAL: TOMMY                                                                                                                                                                                                                                                      |  | 25/OCT/18              |
| 3 PL DEC ±0.08                                                                                            |  | CUSTOMER:                                                                                                                                                                                                                                                            |  |                        |
| 3) Note reference =  |  |                                                                                                                                                                                                                                                                      |  |                        |
| MATERIAL SPECIFICATIONS:                                                                                  |  |                                                                                                                                                                                                                                                                      |  |                        |
| PROCESS SPECIFICATIONS:                                                                                   |  | THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPHENOL CORPORATION. NO RIGHTS OF REPRODUCTION ARE IMPLIED. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS. |  |                        |
| NEXT ASSY:                                                                                                |  | SIZE                                                                                                                                                                                                                                                                 |  | TYPE                   |
|                                                                                                           |  | B C-                                                                                                                                                                                                                                                                 |  | DWG NO: AHDM06-24-29PR |
|                                                                                                           |  | SCALE: NONE                                                                                                                                                                                                                                                          |  | REVISION: A2           |
|                                                                                                           |  | SHEET 1                                                                                                                                                                                                                                                              |  | OF 1                   |

TITLE: PLUG, 24 SZ 29 PIN, RD, WIDE THD  
DWG NO: AHDM06-24-29PR  
REV: A2  
SH: 1  
OF: 1

## ATM Series™ - Contact Size 20 Options

| Machined Contacts, Sockets & Pins |                                        |      |       |          |
|-----------------------------------|----------------------------------------|------|-------|----------|
| Part Number                       | Description                            | Size | AWG   | Type     |
| AT60-010-2031                     | Male Contact - Pin, Gold-plated        | 20   | 16-18 | Machined |
| AT62-005-20141                    | Female Contact - Socket, Gold-plated   | 20   | 16-18 | Machined |
| AT60-010-20141                    | Male Contact - Pin, Nickel-plated      | 20   | 16-18 | Machined |
| AT62-005-2031                     | Female Contact - Socket, Nickel-plated | 20   | 16-18 | Machined |
| AT60-202-2031                     | Male Contact - Pin, Gold-plated        | 20   | 20-22 | Machined |
| AT62-201-2031                     | Female Contact - Socket, Gold-plated   | 20   | 20-22 | Machined |
| AT60-202-20141                    | Male Contact - Pin, Nickel-plated      | 20   | 20-22 | Machined |
| AT62-201-20141                    | Female Contact - Socket, Nickel-plated | 20   | 20-22 | Machined |

| Tooling - Machined Contacts                                                       |             |                                                                   |
|-----------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------|
| Part                                                                              | Part Number | Description                                                       |
|  | CA-5D12     | Universal Hand Crimp Tool, Size 12/16/20 (Machined contacts only) |
|  | CA-5E12     | Pneumatic Crimp Tool, Size 12/16/20 (Machined contacts only)      |

| Contact Removal Tools                                                               |               |                                                     |
|-------------------------------------------------------------------------------------|---------------|-----------------------------------------------------|
| Part                                                                                | Part Number   | Description                                         |
|  | ATRT-100      | Used for removal of contacts for A Series™ products |
|  | AT11-240-2005 | Contact Removal Tool, Plastic, Size 20              |
|  | AT13-204-2005 | Sealing Plug, Size 20, White                        |

| Stamped & Formed Contacts, Sockets & Pins |                                        |      |       |                  |
|-------------------------------------------|----------------------------------------|------|-------|------------------|
| Part Number                               | Description                            | Size | AWG   | Type             |
| AT60-20-0144                              | Male Contact - Pin, Gold-plated        | 20   | 16-22 | Stamped & Formed |
| AT62-20-0144                              | Female Contact - Socket, Gold-plated   | 20   | 16-22 | Stamped & Formed |
| AT60-20-0244                              | Male Contact - Socket, Gold-plated     | 20   | 16-22 | Stamped & Formed |
| AT62-20-0244                              | Female Contact - Socket, Gold-plated   | 20   | 16-22 | Stamped & Formed |
| AT60-20-0122                              | Male Contact - Pin, Nickel-plated      | 20   | 16-22 | Stamped & Formed |
| AT62-20-0122                              | Female Contact - Socket, Nickel-plated | 20   | 16-22 | Stamped & Formed |
| AT60-20-0222                              | Male Contact - Socket, Nickel-plated   | 20   | 16-22 | Stamped & Formed |
| AT62-20-0222                              | Female Contact - Socket, Nickel-plated | 20   | 16-22 | Stamped & Formed |
| AT60-20-0277                              | Male Contact - Socket, Tin-plated      | 20   | 16-22 | Stamped & Formed |
| AT62-20-0277                              | Female Contact - Socket, Tin-plated    | 20   | 16-22 | Stamped & Formed |
| AT60-20-0422                              | Male Contact - Socket, Nickel-plated   | 20   | 20-22 | Stamped & Formed |
| AT62-20-0444                              | Female Contact - Socket, Gold-plated   | 20   | 20-22 | Stamped & Formed |

| Tooling - Stamped & Formed Contacts                                                 |             |                                                               |
|-------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------|
| Part                                                                                | Part Number | Description                                                   |
|  | MXF-3974    | Crimp Die - Size 20 (S&F contacts only)                       |
|                                                                                     | MXF-3976    | Crimp Die - Size 20 (S&F contacts only) 20-22AWG -04XX Series |
|                                                                                     | MXF-3978    | Crimp Die - Size 20 (S&F contacts only) 20-22AWG -02XX Series |
|  | ATT-20-00   | Hand Crimp Tool - Size 20, 20AWG (S&F contacts only)          |

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## AT Series™ - Contact Size 16 Options

| Machined Contacts, Sockets & Pins |                                        |      |       |          |
|-----------------------------------|----------------------------------------|------|-------|----------|
| Part Number                       | Description                            | Size | AWG   | Type     |
| AT60-215-1631                     | Male Contact - Pin, Gold-plated        | 16   | 14    | Machined |
| AT62-209-1631                     | Female Contact - Socket, Gold-plated   | 16   | 14    | Machined |
| AT60-215-16141                    | Male Contact - Pin, Nickel-plated      | 16   | 14    | Machined |
| AT62-209-16141                    | Female Contact - Socket, Nickel-plated | 16   | 14    | Machined |
| AT60-202-1631                     | Male Contact - Pin, Gold-plated        | 16   | 16-20 | Machined |
| AT62-201-1631                     | Female Contact - Socket, Gold-plated   | 16   | 16-20 | Machined |
| AT60-202-16141                    | Male Contact - Pin, Nickel-plated      | 16   | 16-20 | Machined |
| AT62-201-16141                    | Female Contact - Socket, Nickel-plated | 16   | 16-20 | Machined |
| AT60-202-1631-22                  | Male Contact - Pin, Gold-plated        | 16   | 22-24 | Machined |
| AT62-201-1631-22                  | Female Contact - Socket, Gold-plated   | 16   | 22-24 | Machined |
| AT60-202-16141-22                 | Male Contact - Pin, Nickel-plated      | 16   | 22-24 | Machined |
| AT62-201-16141-22                 | Female Contact - Socket, Nickel-plated | 16   | 22-24 | Machined |

| Tooling - Machined Contacts                                                       |             |                                                                   |
|-----------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------|
| Part                                                                              | Part Number | Description                                                       |
|  | CA-5D12     | Universal Hand Crimp Tool, Size 12/16/20 (Machined contacts only) |
|  | CA-5E12     | Pneumatic Crimp Tool, Size 12/16/20 (Machined contacts only)      |

| Contact Removal Tools                                                               |               |                                                     |
|-------------------------------------------------------------------------------------|---------------|-----------------------------------------------------|
| Part                                                                                | Part Number   | Description                                         |
|  | ATRT-100      | Used for removal of contacts for A Series™ products |
|  | AT11-310-1605 | Contact Removal Tool, Plastic, Size 16              |
|  | A114017       | Sealing Plug, Size 16, White                        |

| Stamped & Formed Contacts, Sockets & Pins |                                        |      |       |                  |
|-------------------------------------------|----------------------------------------|------|-------|------------------|
| Part Number                               | Description                            | Size | AWG   | Type             |
| AT60-14-0144                              | Male Contact - Pin, Gold-plated        | 16   | 14-16 | Stamped & Formed |
| AT62-14-0144                              | Female Contact - Socket, Gold-plated   | 16   | 14-16 | Stamped & Formed |
| AT60-14-0122                              | Male Contact - Pin, Nickel-plated      | 16   | 14-16 | Stamped & Formed |
| AT62-14-0122                              | Female Contact - Socket, Nickel-plated | 16   | 14-16 | Stamped & Formed |
| AT60-16-0144                              | Male Contact - Pin, Gold-plated        | 16   | 16-18 | Stamped & Formed |
| AT62-16-0144                              | Female Contact - Socket, Gold-plated   | 16   | 16-18 | Stamped & Formed |
| AT60-16-0122                              | Male Contact - Pin, Nickel-plated      | 16   | 16-18 | Stamped & Formed |
| AT62-16-0122                              | Female Contact - Socket, Nickel-plated | 16   | 16-18 | Stamped & Formed |
| AT60-16-0644                              | Male Contact - Pin, Gold-plated        | 16   | 18-20 | Stamped & Formed |
| AT62-16-0644                              | Female Contact - Socket, Gold-plated   | 16   | 18-20 | Stamped & Formed |
| AT60-16-0622                              | Male Contact - Pin, Nickel-plated      | 16   | 18-20 | Stamped & Formed |
| AT62-16-0622                              | Female Contact - Socket, Nickel-plated | 16   | 18-20 | Stamped & Formed |
| AT60-16-0844                              | Male Contact - Pin, Gold-plated        | 16   | 20-22 | Stamped & Formed |
| AT62-16-0844                              | Female Contact - Socket, Gold-plated   | 16   | 20-22 | Stamped & Formed |
| AT60-16-0822                              | Male Contact - Pin, Nickel-plated      | 16   | 20-22 | Stamped & Formed |
| AT62-16-0822                              | Female Contact - Socket, Nickel-plated | 16   | 20-22 | Stamped & Formed |

| Tooling - Stamped & Formed Contacts                                                   |             |                                                          |
|---------------------------------------------------------------------------------------|-------------|----------------------------------------------------------|
| Part                                                                                  | Part Number | Description                                              |
|   | MFX-3950    | Crimp Die - Size 16, 18-20AWG (\$&F contacts only)       |
|                                                                                       | MFX-3953    | Crimp Die - Size 16, 16-18AWG (\$&F contacts only)       |
|                                                                                       | MFX-3975    | Crimp Die - Size 16, 14-16AWG (\$&F contacts only)       |
|                                                                                       | MFX-3990    | Crimp Die - Size 16, 20-22AWG (\$&F contacts only)       |
|  | ATT-16-00   | Hand Crimp Tool - Size 16, 14-16AWG (\$&F contacts only) |
|                                                                                       | ATT-16-01   | Hand Crimp Tool - Size 16, 18-20AWG (\$&F contacts only) |
|                                                                                       | ATT-1612-03 | Hand Crimp Tool - Size 16, 20-22AWG (\$&F contacts only) |

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## ATP Series™ - Contact Size 12 Options

| Machined Contacts, Sockets & Pins |                                        |      |       |          |
|-----------------------------------|----------------------------------------|------|-------|----------|
| Part Number                       | Description                            | Size | AWG   | Type     |
| AT60-204-12141-10                 | Male Contact - Pin, Nickel-plated      | 12   | 10-12 | Machined |
| AT62-203-12141-10                 | Female Contact - Socket, Nickel-plated | 12   | 10-12 | Machined |
| AT60-220-1231                     | Male Contact - Pin, Gold-plated        | 12   | 12-14 | Machined |
| AT62-210-1231                     | Female Contact - Socket, Gold-plated   | 12   | 12-14 | Machined |
| AT60-204-12141                    | Male Contact - Pin, Nickel-plated      | 12   | 12-14 | Machined |
| AT62-203-12141                    | Female Contact - Socket, Nickel-plated | 12   | 12-14 | Machined |

| DiagnosticGrade™ Machined Contacts, Sockets & Pins                                                 |                                                        |      |     |          |
|----------------------------------------------------------------------------------------------------|--------------------------------------------------------|------|-----|----------|
| • Smaller AWG for Diagnostic Applications • Gold-plated • Increased Mating Cycles • Cost-effective |                                                        |      |     |          |
| Part Number                                                                                        | Description                                            | Size | AWG | Type     |
| 65-54749                                                                                           | Male Contact - DiagnosticGrade™, Pin, Gold-plated      | 12   | 20  | Machined |
| AT62-210-1231-1820                                                                                 | Female Contact - DiagnosticGrade™, Socket, Gold-plated | 12   | 20  | Machined |

| Tooling - Machined Contacts                                                       |             |                                                                   |
|-----------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------|
| Part                                                                              | Part Number | Description                                                       |
|  | CA-5D12     | Universal Hand Crimp Tool, Size 12/16/20 (Machined contacts only) |
|  | CA-5E12     | Pneumatic Crimp Tool, Size 12/16/20 (Machined contacts only)      |

| Contact Removal Tools                                                               |               |                                                     |
|-------------------------------------------------------------------------------------|---------------|-----------------------------------------------------|
| Part                                                                                | Part Number   | Description                                         |
|  | ATRT-100      | Used for removal of contacts for A Series™ products |
|  | AT11-337-1205 | Contact Removal Tool, Plastic, Size 12              |
|  | A114017       | Sealing Plug, Size 12, White                        |

| Stamped & Formed Contacts, Sockets & Pins |                                        |      |       |                  |
|-------------------------------------------|----------------------------------------|------|-------|------------------|
| Part Number                               | Description                            | Size | AWG   | Type             |
| AT60-12-0244                              | Male Contact - Pin, Gold-plated        | 12   | 10-12 | Stamped & Formed |
| AT62-12-0244                              | Female Contact - Socket, Gold-plated   | 12   | 10-12 | Stamped & Formed |
| AT60-12-0222                              | Male Contact - Pin, Nickel-plated      | 12   | 10-12 | Stamped & Formed |
| AT62-12-0222                              | Female Contact - Socket, Nickel-plated | 12   | 10-12 | Stamped & Formed |
| AT60-12-0144                              | Male Contact - Pin, Gold-plated        | 12   | 12-14 | Stamped & Formed |
| AT62-12-0144                              | Female Contact - Socket, Gold-plated   | 12   | 12-14 | Stamped & Formed |
| AT60-12-0166                              | Male Contact - Pin, Nickel-plated      | 12   | 12-14 | Stamped & Formed |
| AT62-12-0166                              | Female Contact - Socket, Nickel-plated | 12   | 12-14 | Stamped & Formed |

| Tooling - Stamped & Formed Contacts                                                 |             |                                                               |
|-------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------|
| Part                                                                                | Part Number | Description                                                   |
|  | MX-3973     | Crimp Die - Size 12 (S&F contacts only)                       |
|                                                                                     | MX-3985     | Crimp Die - Size 12 (S&F contacts only) 10-12AWG -02XX Series |
|  | ATT-12-00   | Hand Crimp Tool - Size 12, 12AWG (S&F contacts only)          |

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