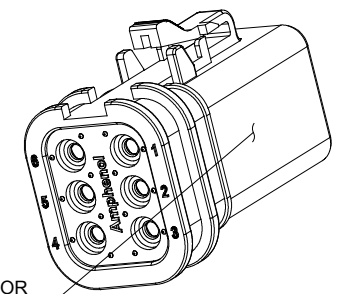
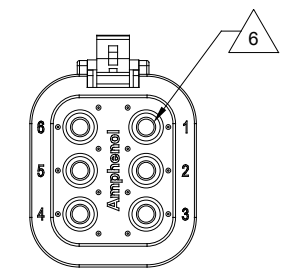
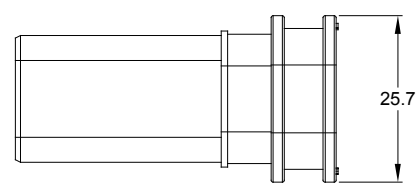
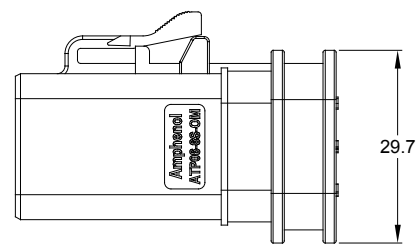
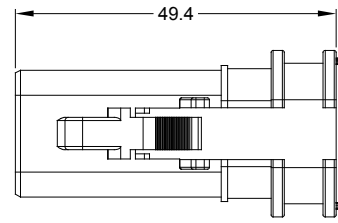
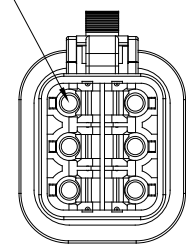


| REVISIONS | | | | | |
|-----------|-----|---------------------|-----------|-------|-------|
| REV | ECO | DESCRIPTION | DATE | BY | APPR |
| 01 | - | PRELIMINARY DRAWING | 24/SEP/19 | PETER | TOMMY |



REQUIRES CONTACT RETENTION WEDGE AWP-6S



NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL:
HOUSING: THERMOPLASTIC
SEAL: SILICONE RUBBER
- MODIFICATIONS: REDUCED DIAMETER WIRE SEAL
- SPECIFICATIONS:
3.1 CURRENT RATING: 25 AMPS
3.2 OPERATING TEMPERATURE: -55°C TO +125°C
3.3 DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS CURRENT LEAKAGE @ 1500 VOLTS AC.
3.4 INSULATION RESISTANCE: 1000 MEGOHMS MIN @ 25°C.
3.5 MOISTURE RESISTANCE: IP67 (MATED CONDITION)
3.6 MATING CYCLE DURABILITY: 100 CYCLES
3.7 RoHS COMPLIANT
- MATING PART: ATP04-6P* RECEPTACLE.
(* = MODIFICATIONS AND COLORS)
- ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

△ CONTACT SIZE AND REAR SEAL WIRE RANGE:

STANDARD SEAL

| CONTACT SIZE | MIN. INSUL O.D. | MAX. INSUL O.D. | TYPICAL WIRE RANGE |
|--------------|-------------------|-------------------|---------------------------------------|
| 12 | 3.40 mm (.134 in) | 4.95 mm (.195 in) | 10 - 14 AWG (6.0-2.0mm ²) |

REDUCED DIAMETER SEAL

| CONTACT SIZE | MIN. INSUL O.D. | MAX. INSUL O.D. | TYPICAL WIRE RANGE |
|--------------|-------------------|-------------------|---------------------------------------|
| 12 | 2.46 mm (.097 in) | 4.01 mm (.158 in) | 12 - 14 AWG (3.0-2.0mm ²) |

| PART NUMBER CHART | | |
|-------------------|-----------------|------------------|
| COLOR | P/N W/ STD SEAL | P/N W/ RD SEAL |
| GREY | ATP06-6S-OMGRY | ATP06-6S-OMRDGRY |
| BLACK | ATP06-6S-OMBLK | ATP06-6S-OMRDBLK |
| BLUE | ATP06-6S-OMBLU | ATP06-6S-OMRDBLU |
| BROWN | ATP06-6S-OMBRN | ATP06-6S-OMRDBRN |
| GREEN | ATP06-6S-OMGRN | ATP06-6S-OMRDGRN |
| RED | ATP06-6S-OMRED | ATP06-6S-OMRDRED |
| WHITE | ATP06-6S-OMWHT | ATP06-6S-OMRDWHT |
| YELLOW | ATP06-6S-OMYEL | ATP06-6S-OMRDYEL |

REFER TO PART NUMBER CHART FOR AVAILABLE CONNECTOR COLORS

| SEE PART NUMBER CHART | | PART NUMBER | | DESCRIPTION | | ITEM |
|---------------------------------------|--|-------------|---|--|--|------|
| QUANTITY | MATERIALS LIST | | | <p>Amphenol</p> <p>Sine Systems - www.amphenol-sine.com 44724 Morley Drive Clinton Township, MI 48036</p> <p>STRUCTURE+, OVERMOLD-COMPATIBLE PLUG, 6 SOCKET, ATP SERIES</p> | | |
| UNLESS OTHERWISE SPECIFIED | SIGNATURES | DATE | <p>SIZE: B C- DWG NO: ATP06-6S-OMXXX REVISION: 01</p> <p>SCALE: NONE SHEET 1 OF 1</p> | | | |
| 1) All dimensions are in metric (mm). | DRAWN: PETER YANG | 24/SEP/19 | | | | |
| 2) Tolerances are as follows: | CHECKED: ORION LI | 24/SEP/19 | | | | |
| 1 PL DEC ±0.30 Fractions ±1/64 | ENGINEER: | | | | | |
| 2 PL DEC ±0.15 | APPROVAL: TOMMY XIE | 24/SEP/19 | | | | |
| 3 PL DEC ±0.08 Angles ±1° | CUSTOMER: | | | | | |
| 3) Note reference = △ | 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. | | | | | |
| MATERIAL SPECIFICATIONS: | | | | | | |
| PROCESS SPECIFICATIONS: | | | | | | |
| NEXT ASSY: | | | | | | |

TITLE: STRUCTURE+, OVERMOLD-COMPATIBLE PLUG, 6 SOCKET, ATP SERIES
DWG NO: ATP06-6S-OMXXX
REV: 01
SH: 1
OF: 1

A Series™ - Contact Size 12 Options (Works with: AHD-6, ATP, ATHD, DuraMate and PanelMate Series)

| 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 |

*Works with ATP Series only

| 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 Number | Description |
| AUTK-12 | Hand Crimp Tool, Size 12 |
| AUTK-100 | Universal Heavy Duty Contact Crimping Tool Kit, Size 12/16/20 |
| CA-5D12 | Universal Hand Crimp Tool, Size 12/16/20 |
| CA-5E12 | Pneumatic Crimp Tool, Size 12/16/20 |
| M300-25A | Hand Crimp Tool used with Crimp Locator MFX-3966, Size 12, 10AWG |
| MFX-3966 | Contact Locator used with Hand Crimp Tool M300-25A, Size 12, 10AWG |

| Contact Removal Tools (For both Machined or Stamped & Formed Contacts) | |
|--|--|
| Part Number | Description |
| ATRT-100 | Contact and Wedgelock Extraction Tool |
| AT11-337-1205 | Contact Removal Tool, Plastic, Size 12 |

| Sealing Plugs (For both Machined or Stamped & Formed Contacts) | |
|--|------------------------------|
| Part Number | Description |
| 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 Number | Description |
| MFX-3973 | Crimp Die - Size 12 |
| MFX-3985 | Crimp Die - Ssize 12, 10-12AWG -02XX Series |
| ATT-12-00 | Hand Crimp Tool - Size 12, 12AWG |
| ATT-12-01 | Hand Crimp Tool - Size 12, 10AWG |