

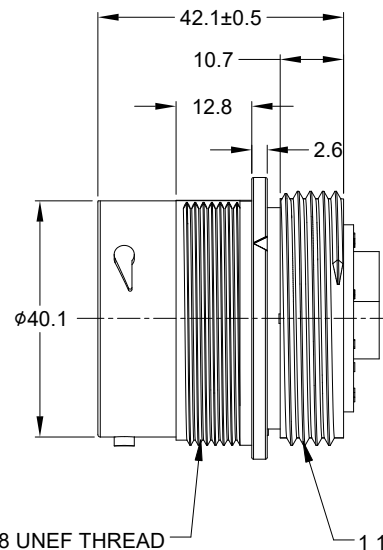


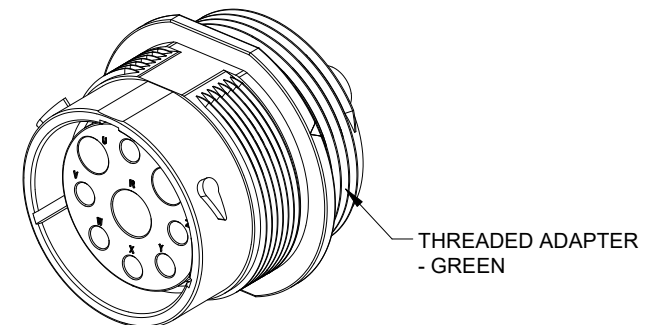
Diagram of a circular connector with 12 contacts. The diagram shows a top-down view of the connector with 12 contact points labeled S, R, T, U, V, W, X, Y, Z, and others. Callouts indicate: 6 SIZE 08 CONTACTS (2 PLACES), 6 SIZE 04 CONTACTS (1 PLACE), and 6 SIZE 12 CONTACTS (6 PLACES). The connector has a 1/16-12 UN THREAD. The text "100MMD D 4HDP04-24-09SN-WTA Amphenol" is visible around the perimeter.

1. MATERIAL:  
HOUSING: THERMOPLASTIC; BLACK  
SEAL: SILICONE RUBBER
2. MODIFICATIONS: THREADED ADAPTER (WTA);  
NORMAL 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:  
IP68(IM OF WATER FOR A PERIOD OF 24 HOURS,MATED  
CONDITION);  
IP69K (MATED CONDITION)
  - 3.5 MATING CYCLE DURABILITY: 100 CYCLES
  - 3.6 RoHS COMPLIANT

5. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

| CONTACT SIZE | MIN. INSUL O.D.      | MAX. INSUL O.D.      | TYPICAL WIRE RANGE                     | CURRENT RATING |
|--------------|----------------------|----------------------|----------------------------------------|----------------|
| 4            | 6.63 mm<br>(.261 in) | 7.42 mm<br>(.292 in) | 6 AWG<br>(16.0-13.0mm <sup>2</sup> )   | 100 AMPS       |
| 8            | 4.83 mm<br>(.190in)  | 6.10 mm<br>(.240 in) | 8-10 AWG<br>(10.0-5.0mm <sup>2</sup> ) | 60 AMPS        |
| 12           | 3.43 mm<br>(.135 in) | 4.32 mm<br>(.170 in) | 10-14 AWG<br>(6.0-2.0mm <sup>2</sup> ) | 25 AMPS        |

RECOMMENDED PANEL THICKNESS:1.6 TO 4.7MM



|                    |             |             |      |
|--------------------|-------------|-------------|------|
| AHPD04-24-09SN-WTA |             |             |      |
| QUANTITY           | PART NUMBER | DESCRIPTION | ITEM |

|                                                                                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                      |                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| <b>UNLESS OTHERWISE SPECIFIED</b><br>1) All dimensions are in metric (mm).<br>2) Tolerances are as follows:<br>1 PL DEC a0.50<br>2 PL DEC a0.15<br>3 PL DEC a0.08<br>Fractions ±1/64<br>Angles ±1°<br>3) Note reference =  |  | <b>SIGNATURES</b><br>DRAWN: LYNCH, P<br>CHECKED: SULLEN, ZHANG<br>ENGINEER:<br>APPROVAL: TOMMY, XIE<br>CUSTOMER:                                                                                                                                                     | <b>DATE</b><br>17/JAN/24<br>18/JAN/24<br>19/JAN/24                     |
| MATERIAL SPECIFICATIONS:<br><br><div style="text-align: center; font-size: 2em; font-weight: bold;">WEIGHT: 54.6g</div>                                                                                                                                                                                         |  | 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. |                                                                        |
| PROCESS SPECIFICATIONS:<br><br>NEXT ASSY:                                                                                                                                                                                                                                                                       |  | <b>SIZE</b><br><div style="font-size: 3em; font-weight: bold;">B</div>                                                                                                                                                                                               | <b>TYPE</b><br><div style="font-size: 3em; font-weight: bold;">C</div> |

# Amphenol

Sine Systems - [www.amphenol-sine.com](http://www.amphenol-sine.com)  
 44724 Morley Drive  
 Clinton Township, MI 48036

|                                                                        |  |                                                                        |                                                                        |                                      |                                                                             |
|------------------------------------------------------------------------|--|------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------|
| RECEPTACLE, 24-09 POS, SOCKET CONTACT<br>NORMAL DIA. SEAL, AHPD SERIES |  | <b>SIZE</b><br><div style="font-size: 3em; font-weight: bold;">B</div> | <b>TYPE</b><br><div style="font-size: 3em; font-weight: bold;">C</div> | <b>DWG NO:</b><br>AHPD04-24-09SN-WTA | <b>REVISION</b><br><div style="font-size: 3em; font-weight: bold;">A1</div> |
| SCALE: NONE                                                            |  | SHEET 1 OF 1                                                           |                                                                        |                                      |                                                                             |

7. RECEPTACLE IS SUPPLIED WITH DUST CAP.