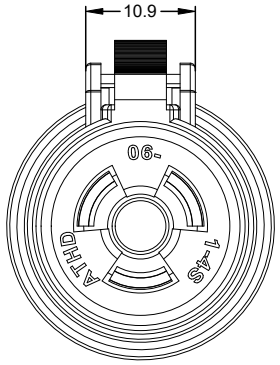
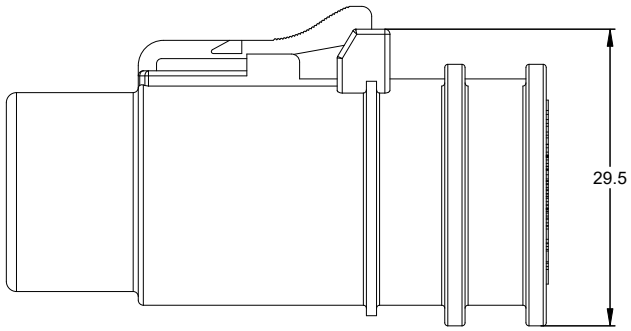
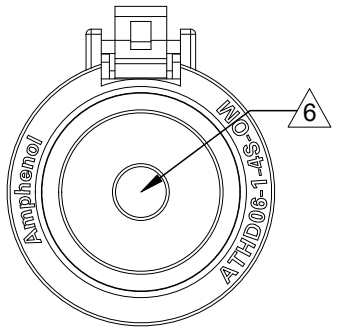
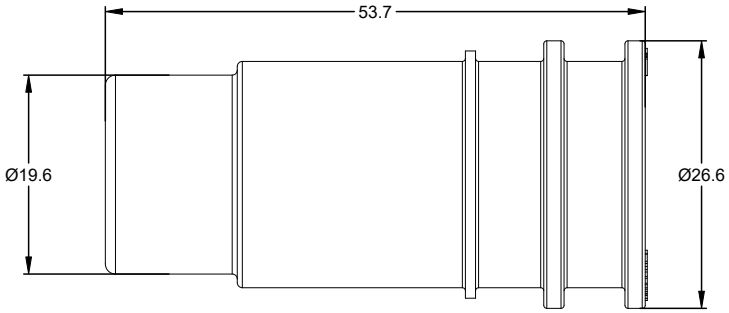
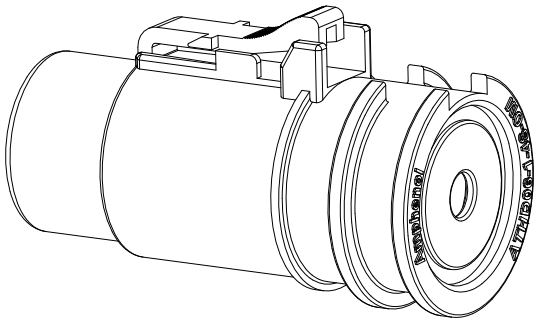
REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE NUMBER	30/AUG/23	HARRIS	TOMMY











NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL:
   HOUSING: THERMOPLASTIC; COLOR: BLACK
   SEAL: SILICONE RUBBER

2. MODIFICATIONS: FOR OVER MOLDING

3. SPECIFICATIONS:
   3.1 CURRENT RATING: 100 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&IP69K (MATED CONDITION)
   3.6 MATING CYCLE DURABILITY: 100 CYCLES
   3.7 RoHS COMPLIANT

4. MATING PART:ATHD04-1-4P* RECEPTACLE
   (* = MODIFICATIONS)

5. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

△6 CONTACT SIZE AND REAR SEAL WIRE RANGE:

CONTACT SIZE	MIN. INSUL O.D.	MAX. INSUL O.D.	TYPICAL WIRE RANGE
04	6.63 mm (.261 in)	7.42 mm (.292 in)	6AWG (16-13 mm²)

	ATHD06-1-4S-OM		
	PART NUMBER	DESCRIPTION	ITEM
QUANTITY	MATERIALS LIST		

UNLESS OTHERWISE SPECIFIED
1) All dimensions are in metric(mm).
2) Tolerances are as follows:
1 PL DEC ±0.30 | Fractions ±1/64
2 PL DEC ±0.15 | Angles ±1°
3 PL DEC ±0.08
3) Note reference = △x

MATERIAL SPECIFICATIONS:

PROCESS SPECIFICATIONS:

NEXT ASS'Y:

SIGNATURES		DATE
DRAWN:	HARRIS	14/AUG/23
CHECKED:	ORION	15/AUG/23
ENGINEER:		
APPROVAL:	TOMMY	16/AUG/23
CUSTOMER:		

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.

Amphenol

Sine Systems - www.amphenol-sine.com
44724 Morley Drive
Clinton Township, MI 48036

1 POS, PLUG, SOCKET, STRUCTURE PLUS™ ATHD, SIZE 4, BLACK

SIZE	TYPE	DWG NO:	REVISION
B	C-	ATHD06-1-4S-OM	A1

SCALE: NONE SHEET 1 OF 1

TITLE: 1 POS, PLUG, SOCKET, STRUCTURE PLUS™ ATHD, SIZE 4, BLACK
DWG NO: ATHD06-1-4S-OM
REV: A1
SH: 1
OF: 1

Downloaded from Arrow.com.

ARB, ATHD and DuraMate™ Series

Size 4 Contact & Tooling Options

Contacts - Machined

Part Number	Type	Style	Contact Size	Amp	Wire Range (AWG)	Wire Range (mm^2)	Insulation OD (mm)	Plating	Reel Size	Packaging
AT60-203-04141-4	Pin	Machined	Size 4	100A	4AWG	-	-	Nickel-Plated	-	-
AT60-203-0431-4	Pin	Machined	Size 4	100A	4AWG	-	-	Gold-Plated	-	-
AT60-204-0490	Pin	Machined	Size 4	100A	6AWG	-	-	Nickel-Plated	-	-
AT62-203-04141	Socket	Machined	Size 4	100A	6AWG	-	-	Nickel-Plated	-	-
AT62-203-04141-4	Socket	Machined	Size 4	100A	4AWG	-	-	Nickel-Plated	-	-
AT62-203-0431-4	Socket	Machined	Size 4	100A	4AWG	-	-	Gold-Plated	-	-

Tooling

Part Number	Tool Name	Style	Contact Size	Wire Range (AWG)	Material	Color
96-978-22	Crimper and Die	Machined	Size 3.6mm-10mm	$10mm^2$-$185mm^2$	n/a	n/a
AT11-027-0405	Contact Extraction Tool	Machined	Size 4	4AWG	Plastic	Black
WA23	Pneumatic Crimp Tool	Machined	-	8-0000AWG	-	-
WA23-138DA	WA23 Die Assembly for Pneumatic Crimp Tool	Machined	Size 4	4AWG	-	Silver
WA23-11	WA23 Locator for Pneumatic Crimp Tool	Machined	Size 4	4AWG	-	Blue

Downloaded from Arrow.com.