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REVISES		DATE	DWN	APVD
P	LTR			
B		28 JUN 11	CAS	MKS

The drawing shows a circular plug assembly with the following features and dimensions:

- Views:** Front view (left), side view (top right), cross-sectional view (middle right), and backshell view (far right).
- Dimensions:**
 - Overall diameter: $\phi .355 \pm .010$
 - Inner diameter: $\phi .215$
 - Threaded section length: $.525$
 - Backshell length: $.30 \pm .02$
 - Backshell diameter: $.375$
 - Backshell thickness: $.30$
 - Wire diameter: $\phi .245$
 - Wire length: WIRE LENGTH SPECIFIED IN NANONICS PART NUMBER
- Angles:**
 - $R1 (0^\circ)$, $R2 (45^\circ)$, $R3 (90^\circ)$, $R4 (135^\circ)$, $R5 (180^\circ)$, $R6 (225^\circ)$, $R7 (270^\circ)$, $R8 (315^\circ)$
 - 45° TYP
- Labels:** KEYWAY, O-RING SEAL, COUPLING NUT, POSITION 1, POSITION 4, POSITION 8, POSITION 13, POSITION 17.

- CONNECTOR BODY, COUPLING NUT & BACKSHELL MATERIAL: 6061-T6 ALUMINUM, ELECTROLESS NICKEL PLATE PER SAE-AMS-C-26074 OR AMS 2404E
 LOCKING RING MATERIAL: BERYLLIUM COPPER, ELECTROLESS NICKEL PLATE PER SAE-AMS-C-26074 OR AMS 2404E
 INSULATOR MATERIAL: LIQUID CRYSTAL POLYMER (LCP) PER ASTM D5138 OR POLYPHENYLENE SULFIDE (PPS) PER ASTM D4067
 O-RING MATERIAL: FLUOROSILICONE
- WIRE TERMINATION: 28AWG SOLID, 30AWG STRANDED WIRE OR SMALLER.
- BONDING RESISTANCE BETWEEN CONNECTOR BODY AND BACKSHELL TO BE 25 MILLIOHMS MAXIMUM. BACKSHELL TO BE BONDED TO PLUG SHELL WITH CONDUCTIVE EPOXY.
- LUBRICATE O-RING WITH PARKER SUPER-O-LUBE PRIOR TO INSTALLATION
- BACKSHELL MAY BE ORIENTED IN THE EIGHT DIRECTIONS SHOWN (R1 THRU R8). POSITION R5 IS CONSIDERED STANDARD. THE BACKSHELL CODE AT THE END OF THE NANONICS PART NUMBER SHALL INDICATE BACKSHELL ORIENTATION.
- THIS DRAWING ALSO IDENTIFIED AS NANONICS 303-0138

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	23OCT08	
		CHK	23OCT08	
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME
		0 PLC	$\pm -$	PRODUCT SPEC
		1 PLC	$\pm -$	APPLICATION SPEC
		2 PLC	$\pm .010$	
		3 PLC	$\pm .005$	
		4 PLC	$\pm -$	
		ANGLES	$\pm 10^\circ$	
MATERIAL	SEE NOTES	FINISH	SEE NOTES	WEIGHT
				SCALE
				SHEET
				REV

D. MORALES
 M. STORRY
 PLUG ASSEMBLY, CIRCULAR, THREADED COUPLING, METAL, 19 POSITION W/ 90 DEGREE BACKSHELL
 A2 OPJN9 C=1925030
 SCALE 5:1 SHEET 1 of 1 REV B

1471-9 (3/11)

1925030

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