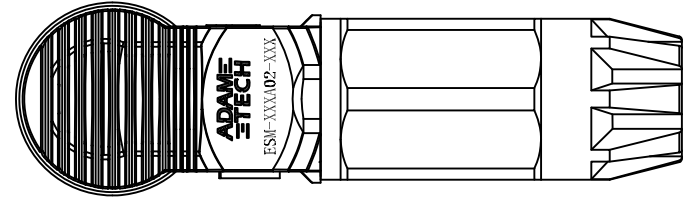
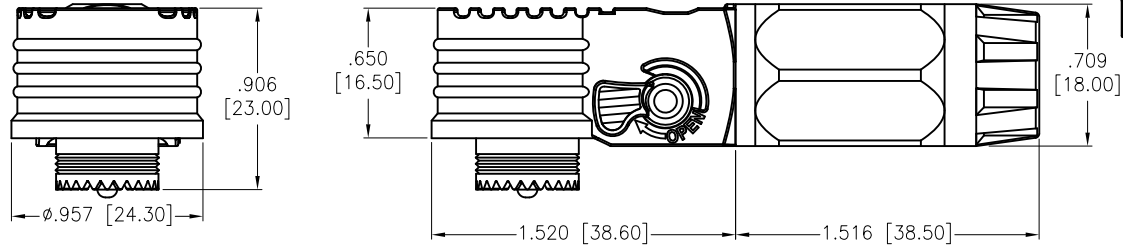


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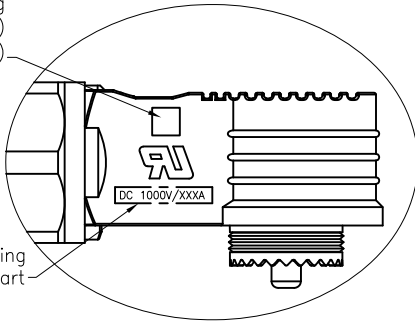
DATE: \_\_\_\_\_ TITLE: \_\_\_\_\_

Rev	AWO #	Description	Date	Appr
-		RELEASED	12/18/23	
A		UPDATE DRAWING	7/26/24	LH/RC
B		UPDATE DRAWING	8/6/24	LH/RC
C		ADDED SPEC.	8/21/24	LH/RL
D		UPDATE DRAWING	12/13/24	LW1/FH
E		UPDATE DRAWING	1/16/25	LW1/MC

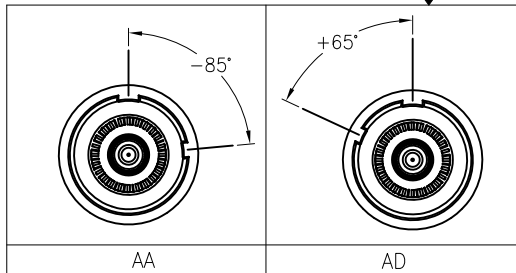


ESM-XXXA02-XXX  
 Universal model: 120A, 090A  
 Key Options  
 Housing Color:  
 O=Orange  
 B=Black

laser marking  
 Orange is positive: (+)  
 black is negative: (-)



laser marking  
 See Chart



Suitable wire gauge

Specification		Universal model
AWG American wire gauge	Wire standard: 4 AWG	120A
	Strand outer diameter: $\phi$ 6.47 Max	
	O.D (Outside Diameter): $\phi$ 9.50 Max	
International Wire Gauge	Wire standard: 25mm <sup>2</sup>	090A
	Strand outer diameter: $\phi$ 7.20 Max	
	O.D (Outside Diameter): $\phi$ 9.80 Max	
AWG American wire gauge	Wire standard: 6 AWG	090A
	Strand outer diameter: $\phi$ 5.20 Max	
	O.D (Outside Diameter): $\phi$ 8.50 Max	
International Wire Gauge	Wire standard: 16mm <sup>2</sup>	090A
	Strand outer diameter: $\phi$ 5.80 Max	
	O.D (Outside Diameter): $\phi$ 8.00 Max	

**SPECIFICATIONS:**

**Connector:**  
 Housing: PA66, Glass reinforced, rated UL 94V-0  
 Housing color: Orange/Black  
 Cap: PA66, Glass reinforced, rated UL 94V-0  
 Top: PA66, Glass reinforced, rated UL 94V-0  
 Waterproof ring: Silicone  
 Contact: Pure Red Copper, Silver plated Surface  
 Spring: SUS301  
 Electrical:

Voltage rating: 1000V DC  
 Current rating: 90A/120A  
 Contact resistance: 0.5 mohms max  
 Insulation resistance: 5,000 Mohms min  
 Dielectric withstanding voltage: 3,800V DC

Mechanical:  
 Durability: 500 cycles  
 Overvoltage Category/Pollution Degree: CATIII/3  
 Temperature Rating: -40°C to +125°C

Environmental:  
 Waterproof: IP67 (Mating)  
 Lead free, RoHS compliant



Note: Connector packaged in tray  
 Nut and Seal Ring packaged  
 separately in poly bag

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS  
 ARE INCHES [MM]. TOLERANCES: EXCEPT AS NOTED

INCHES		HOLES	
.X	$\pm$ .10	$\phi$ X	$\pm$ .10
.XX	$\pm$ .020	$\phi$ .XX	$\pm$ .015
.XXX	$\pm$ .015	$\phi$ .XXX	$\pm$ .010

DRAWN	WX	12/18/23
CHECKED	CK	12/18/23
APPROVED		

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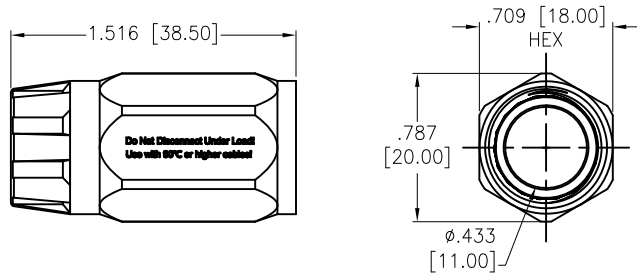


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 Phone: 908-687-5000  
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TITLE			SIZE	PART NO.	REV.
ENERGY STORAGE CONNECTOR, MALE			X	ESM-XXXA02-XXX	E
REF:	S00005C	SCALE:	NTS	SHEET 1 OF 6	

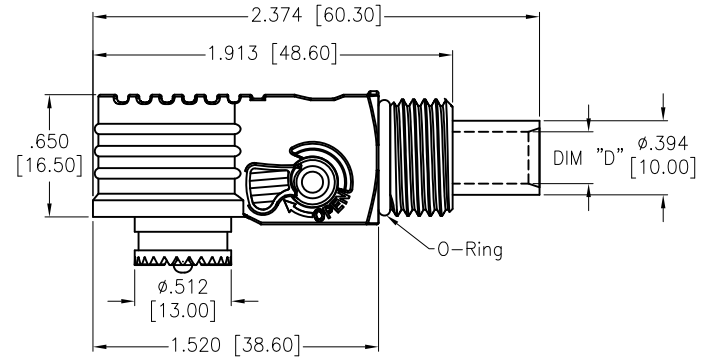
APPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_ TITLE: \_\_\_\_\_



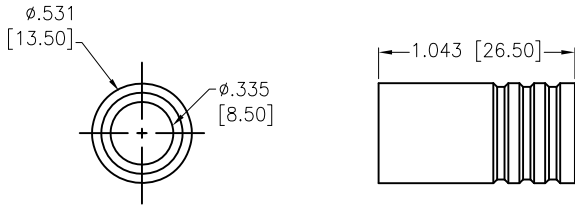
Screw Nut  
(Packaged separately in poly bag)

Rev	AWO #	Description	Date	Appr
SEE SHT 1 OF 6 FOR REVISION				

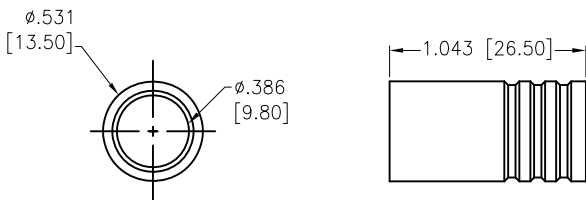


Wire range	Current rating	DIM "D"
6AWG&16mm <sup>2</sup>	90A	.236 [6.00]
4AWG&25mm <sup>2</sup>	120A	.276 [7.00]

Note: Connector packaged in tray  
Nut and Seal Ring packaged poly bag separately



Seal Ring For 6AWG&16mm<sup>2</sup>  
(Packaged separately in poly bag)



Seal Ring For 4AWG&25mm<sup>2</sup>  
(Packaged separately in poly bag)

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE INCHES [MM]. TOLERANCES: EXCEPT AS NOTED

INCHES		HOLES	
.X	± .10	∅.X	± .10
.XX	± .020	∅.XX	± .015
.XXX	± .015	∅.XXX	± .010

DRAWN	WX	12/18/23
CHECKED	CK	12/18/23
APPROVED		

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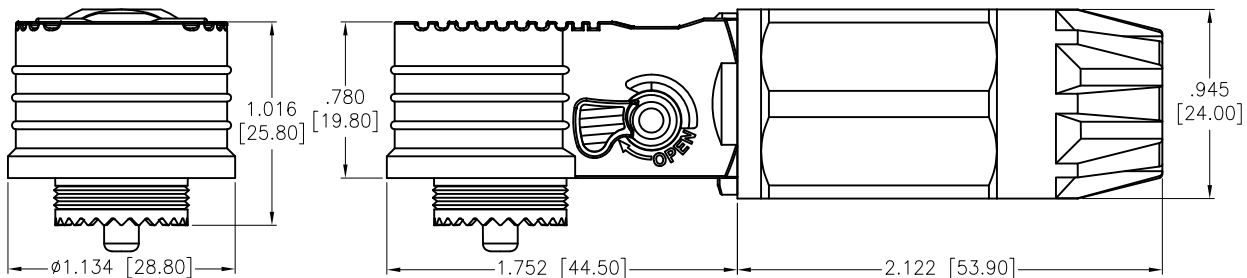
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Union, NJ 07083  
Phone: 908-687-5000  
Fax: 908-687-5710

TITLE ENERGY STORAGE CONNECTOR, MALE		
SIZE X	PART NO. ESM-XXXA02-XXX	REV. E
REF: S00005C	SCALE: NTS	SHEET 2 OF 6

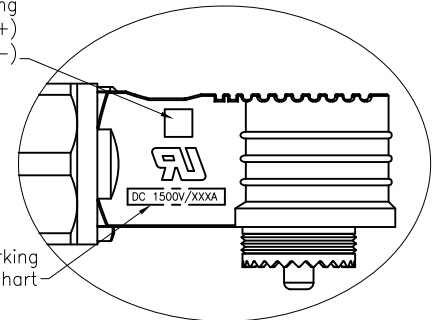
APPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_ TITLE: \_\_\_\_\_

Rev	AWO #	Description	Date	Appr
SEE SHT 1 OF 6 FOR REVISION				

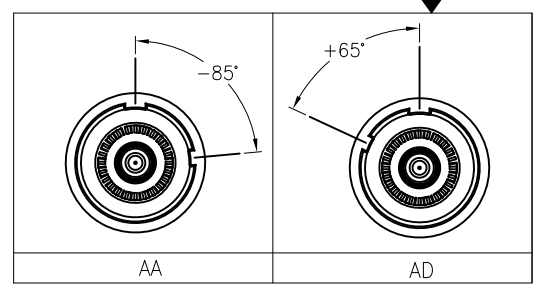


laser marking  
Orange is positive: (+)  
black is negative: (-)



laser marking  
See Chart

ESM-XXXXA02-XXX  
Universal model: 200A, 250A  
KEY Options  
Housing Color:  
O=Orange  
B=Black



Suitable wire gauge

Specification		Universal model
AWG American wire gauge	Wire standard: 2/0 AWG	250A
	Strand outer diameter: $\phi$ 11.6 Max	
	O.D (Outside Diameter): $\phi$ 15.1 Max	
International Wire Gauge	Wire standard: 70mm <sup>2</sup>	200A
	Strand outer diameter: $\phi$ 12.2 Max	
	O.D (Outside Diameter): $\phi$ 15.5 Max	
AWG American wire gauge	Wire standard: 1/0 AWG	200A
	Strand outer diameter: $\phi$ 10.3 Max	
	O.D (Outside Diameter): $\phi$ 14.2 Max	
International Wire Gauge	Wire standard: 50mm <sup>2</sup>	200A
	Strand outer diameter: $\phi$ 10.2 Max	
	O.D (Outside Diameter): $\phi$ 13.5 Max	

**SPECIFICATIONS:**

**Connector:**  
Housing: PA66, Glass reinforced, rated UL 94V-0  
Housing color: Orange/Black  
Cap: PA66, Glass reinforced, rated UL 94V-0  
Top: PA66, Glass reinforced, rated UL 94V-0  
Waterproof ring: Silicone  
Contact: Pure Red Copper, Silver plated Surface  
Spring: SUS301  
Electrical:

Voltage rating: 1500V DC  
Current rating: 200A/250A  
Contact resistance: 0.5 mohms max  
Insulation resistance: 5,000 Mohms min  
Dielectric withstanding voltage: 6,800V DC  
Mechanical:  
Durability: 500 cycles  
Overvoltage Category/Pollution Degree: CATIII/3  
Temperature Rating: -40°C to +125°C  
Environmental:

Waterproof: IP67 (Mating)



Note: Connector packaged in tray  
Nut and Seal Ring packaged separately in poly bag

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE INCHES [MM]. TOLERANCES: EXCEPT AS NOTED

INCHES		HOLES	
.X	$\pm .10$	$\phi$ .X	$\pm .10$
.XX	$\pm .020$	$\phi$ .XX	$\pm .015$
.XXX	$\pm .015$	$\phi$ .XXX	$\pm .010$

DRAWN	WX	12/18/23
CHECKED	CK	12/18/23
APPROVED		

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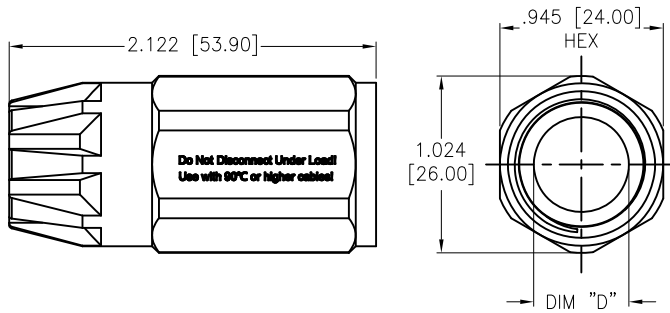
**ADAM TECH** 909 Rahway Avenue,  
Union, NJ 07083  
Phone: 908-687-5000  
Fax: 908-687-5710

TITLE		REV.
ENERGY STORAGE CONNECTOR, MALE		E
SIZE	PART NO.	
X	ESM-XXXXA02-XXX	
REF:	S00005C	SHEET 3 OF 6

APPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_ TITLE: \_\_\_\_\_

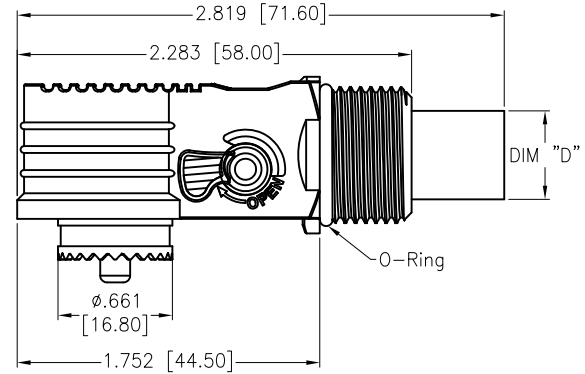
Rev	AWO #	Description	Date	Appr
SEE SHT 1 OF 6 FOR REVISION				



Screw Nut

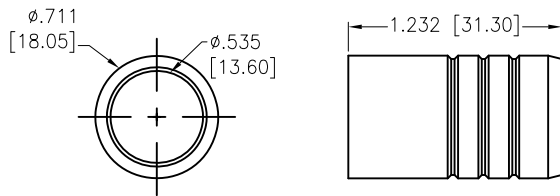
Wire range	Current rating	DIM "D"
1/0AWG/50mm <sup>2</sup>	200A	.551 [14.00]
2/0AWG&70mm <sup>2</sup>	250A	.622 [15.80]

(Packaged separately in poly bag)

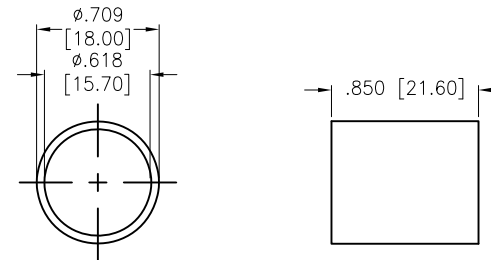


Wire range	Current rating	DIM "D"
1/0AWG/50mm <sup>2</sup>	200A	.531 [13.50]
2/0AWG&70mm <sup>2</sup>	250A	.610 [15.50]

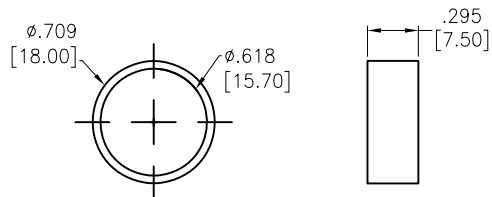
Note: Connector packaged in tray  
Nut and Seal Ring packaged poly bag separately



Seal Ring For 1/0AWG/50mm<sup>2</sup> (200A)  
(Packaged separately in poly bag)



Plug Bushing For 2/0AWG&70mm<sup>2</sup> (250A)  
(Packaged separately in poly bag)



Seal Ring For 2/0AWG&70mm<sup>2</sup> (250A)  
(Packaged separately in poly bag)

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE INCHES [MM]. TOLERANCES: EXCEPT AS NOTED

INCHES		HOLES	
.X	± .10	Ø.X	± .10
.XX	± .020	Ø.XX	± .015
.XXX	± .015	Ø.XXX	± .010

DRAWN	WX	12/18/23
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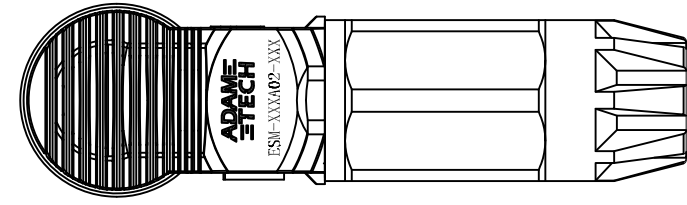
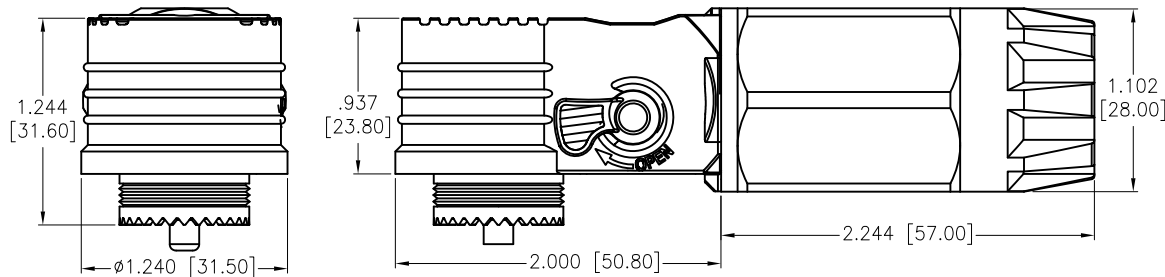
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Fax: 908-687-5710

TITLE ENERGY STORAGE CONNECTOR, MALE		
SIZE X	PART NO. ESM-XXXXA02-XXX	REV. E
REF: S00005C	SCALE: NTS	SHEET 4 OF 6

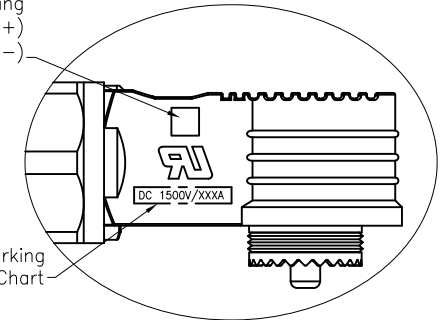
APPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_ TITLE: \_\_\_\_\_

Rev	AWO #	Description	Date	Appr
SEE SHT 1 OF 6 FOR REVISION				

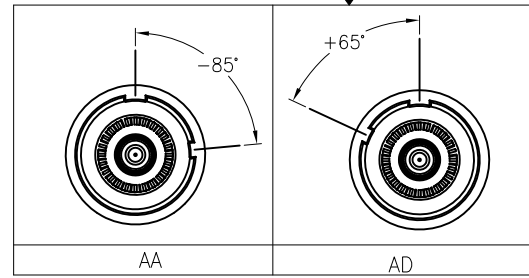


laser marking  
Orange is positive: (+)  
black is negative: (-)



laser marking  
See Chart

ESM-XXXXA02-XXX  
Universal model: 350A, 300A  
Key Options  
Housing Color:  
O=Orange  
B=Black



Suitable wire gauge

Specification		Universal model
AWG American wire gauge	Wire standard: 4/0 AWG	350A
	Strand outer diameter: $\phi 14.7$ Max	
	O.D (Outside Diameter): $\phi 18.5$ Max	
International Wire Gauge	Wire standard: 95mm <sup>2</sup>	300A
	Strand outer diameter: $\phi 14.2$ Max	
	O.D (Outside Diameter): $\phi 17.6$ Max	

**SPECIFICATIONS:**

**Connector:**  
Housing: PA66, Glass reinforced, rated UL 94V-0  
Housing color: Orange/Black  
Cap: PA66, Glass reinforced, rated UL 94V-0  
Top: PA66, Glass reinforced, rated UL 94V-0  
Waterproof ring: Silicone  
Contact: Pure Red Copper, Silver plated Surface  
Spring: SUS301  
Electrical:  
Voltage rating: 1500V DC  
Current rating: 300A/350A  
Contact resistance: 0.5 mohms max  
Insulation resistance: 5,000 Mohms min  
Dielectric withstanding voltage: 6,800V DC  
Mechanical:  
Durability: 500 cycles  
Overvoltage Category/Pollution Degree: CATIII/3  
Temperature Rating: -40°C to +125°C  
Environmental:  
Waterproof: IP67 (Mating)  
Lead free, RoHS compliant



Note: Connector packaged in tray  
Nut and Seal Ring packaged separately in poly bag



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE INCHES [MM]. TOLERANCES: EXCEPT AS NOTED

INCHES		HOLES	
.X	$\pm .10$	$\phi X$	$\pm .10$
.XX	$\pm .020$	$\phi XX$	$\pm .015$
.XXX	$\pm .015$	$\phi XXX$	$\pm .010$

DRAWN	WX	12/18/23
CHECKED	CK	12/18/23
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TITLE		ENERGY STORAGE CONNECTOR, MALE	
SIZE	PART NO.	REV.	
X	ESM-XXXXA02-XXX	E	
REF:	S00005C	SCALE:	NTS
		SHEET 5 OF 6	

6

5

4

3

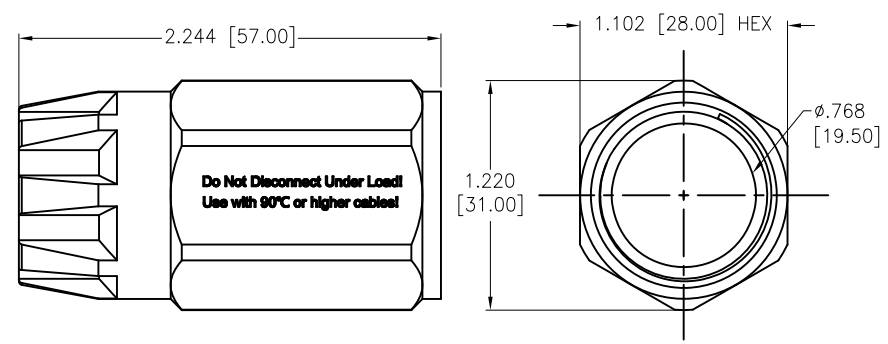
2

1

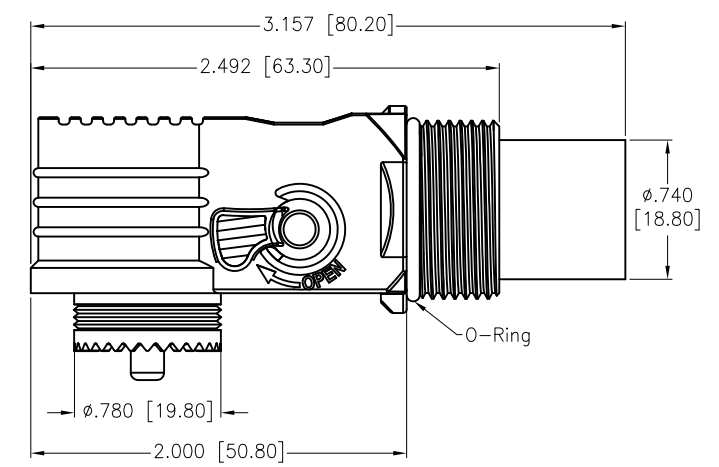
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DATE: \_\_\_\_\_ TITLE: \_\_\_\_\_

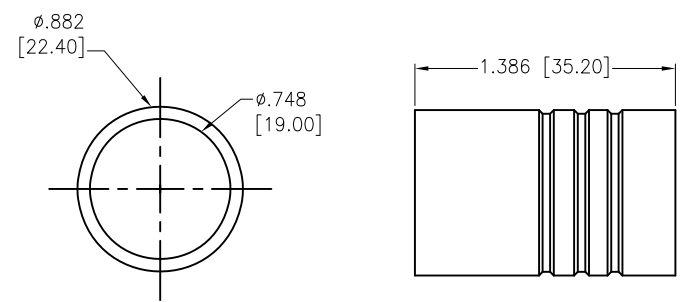
Rev	AWO #	Description	Date	Appr
SEE SHT 1 OF 6 FOR REVISION				



Screw Nut For 4/0AWG (350A)&95mm<sup>2</sup> (300A)  
(Packaged separately in poly bag)



Note: Connector packaged in tray  
Nut and Seal Ring packaged poly bag separately



Seal Ring For 4/0AWG (350A)&95mm<sup>2</sup> (300A)  
(Packaged separately in poly bag)

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE INCHES [MM]. TOLERANCES: EXCEPT AS NOTED

INCHES		HOLES	
.X	± .10	∅X	±.10
.XX	± .020	∅XX	±.015
.XXX	± .015	∅XXX	±.010

DRAWN	WX	12/18/23
CHECKED	CK	12/18/23
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TITLE ENERGY STORAGE CONNECTOR, MALE		
SIZE X	PART NO. ESM-XXXXA02-XXX	REV. E
REF: S00005C	SCALE: NTS	SHEET 6 OF 6

6

5

4

3

2

1