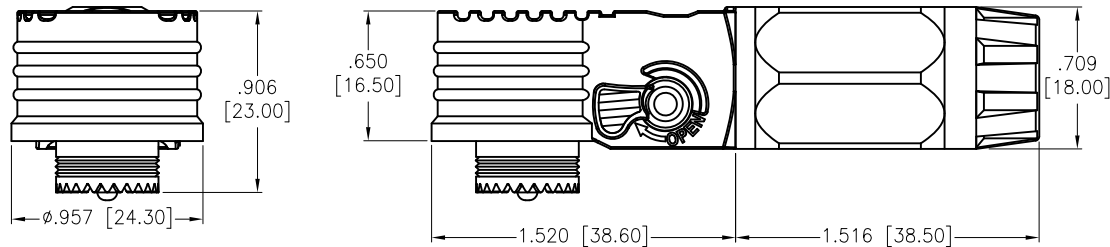


APPROVED: _____

DATE: _____ TITLE: _____



ESM-XXXXA02-XXX

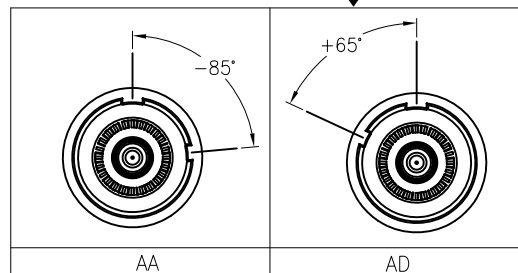
Universal model: 120A, 090A

Key Options

Housing Color:
O=Orange
B=Black

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

laser marking
See Chart



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

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
F		ADDED PAGE 3, 4 (170A SPEC.)	9/24/25	LH/TW
G		REMOVED PAGE 3, 4 (170A SPEC.)	7/23/26	LH/RC



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 ²	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 ²	090A
	Strand outer diameter: $\phi 5.80$ Max	
	O.D (Outside Diameter): $\phi 8.00$ Max	

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

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

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

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TITLE

ENERGY STORAGE CONNECTOR, MALE

SIZE
X

PART NO.

ESM-XXXXA02-XXX

REV.
G

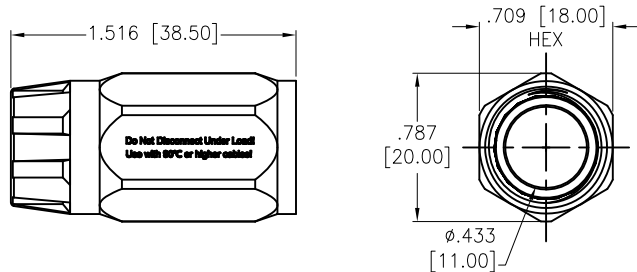
REF: S00005C

SCALE: NTS

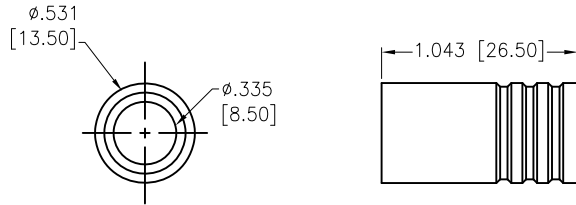
SHEET 1 OF 6

APPROVED: _____

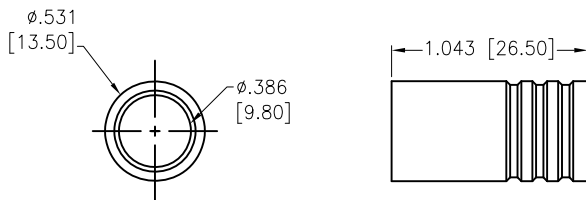
DATE: _____ TITLE: _____



Screw Nut
(Packaged separately in poly bag)

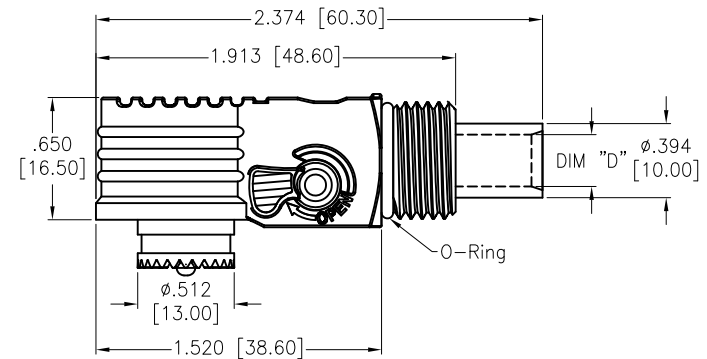


Seal Ring For 6AWG&16mm²
(Packaged separately in poly bag)



Seal Ring For 4AWG&25mm²
(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 ²	90A	.236 [6.00]
4AWG&25mm ²	120A	.276 [7.00]

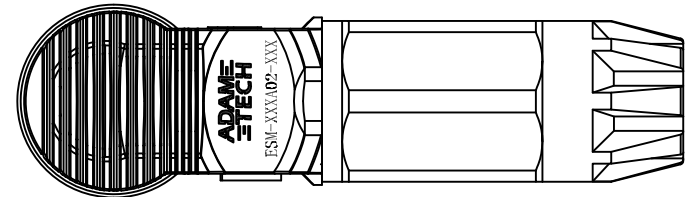
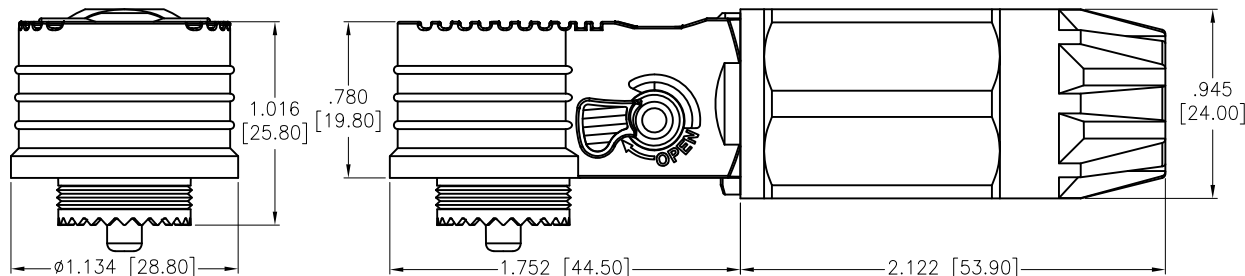
Note: Connector packaged in tray
Nut and Seal Ring packaged poly bag separately

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE INCHES [MM]. TOLERANCES: EXCEPT AS NOTED			ADAM TECH		909 Rahway Avenue, Union, NJ 07083 Phone: 908-687-5000 adam-tech.com	
.X ± .10		HOLES Ø.X ± .10				
INCHES .XX ± .020		HOLES Ø.XX ± .015				
.XXX ± .015		HOLES Ø.XXX ± .010				
DRAWN	WX	12/18/23	TITLE ENERGY STORAGE CONNECTOR, MALE			
CHECKED	CK	12/18/23				
APPROVED						
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			REF: S00005C	SCALE: NTS	SHEET 2 OF 6	

APPROVED: _____

DATE: _____ TITLE: _____

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



ESM-XXXXA02-XXX

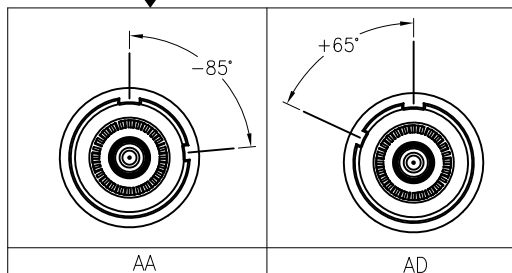
Universal model: 170A, 200A, 250A

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: 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 ²	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 ²	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)

Lead free, RoHS compliant

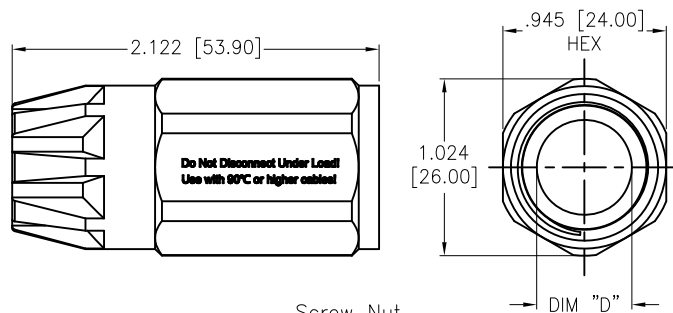


Note: Connector packaged in tray
Nut and Seal Ring packaged
separately in poly bag

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE INCHES [MM]. TOLERANCES: EXCEPT AS NOTED				ADAM TECH 909 Rahway Avenue, Union, NJ 07083 Phone: 908-687-5000 adam-tech.com					
.X INCHES .XX .XXX		± .10 ± .020 ± .015				HOLES Ø.X Ø.XX Ø.XXX		± .10 ± .015 ± .010	
DRAWN		WX				12/18/23			
CHECKED		CK				12/18/23			
APPROVED									
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				SIZE X		PART NO. ESM-XXXXA02-XXX		REV. G	
				REF: S00005C		SCALE: NTS		SHEET 3 OF 6	

APPROVED: _____

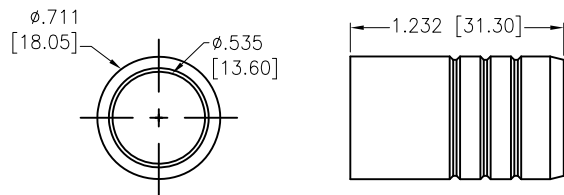
DATE: _____ TITLE: _____



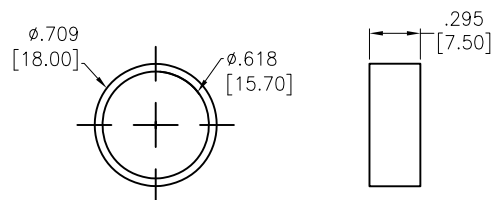
Screw Nut

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

(Packaged separately in poly bag)

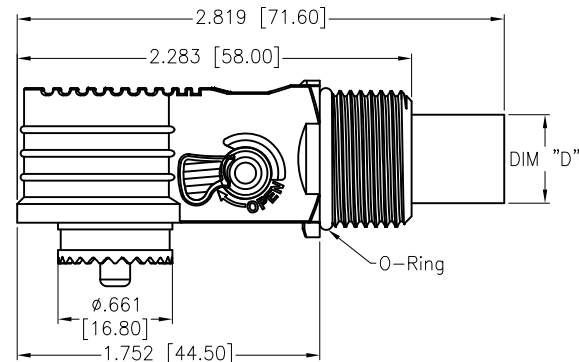


Seal Ring For 1/0AWG/50mm² (200A)
(Packaged separately in poly bag)



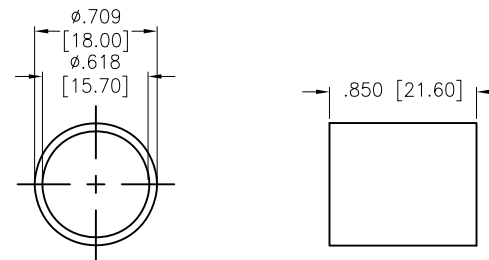
Seal Ring For 2/0AWG&70mm² (250A)
(Packaged separately in poly bag)

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



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

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



Plug Bushing For 2/0AWG&70mm² (250A)
(Packaged separately in poly bag)

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

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

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

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TITLE

ENERGY STORAGE CONNECTOR, MALE

SIZE
X

PART NO.

ESM-XXXXA02-XXX

REV.
G

REF: S00005C

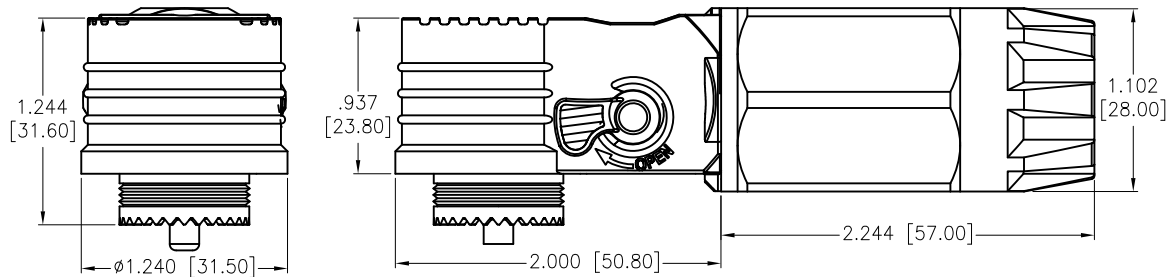
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SHEET 4 OF 6

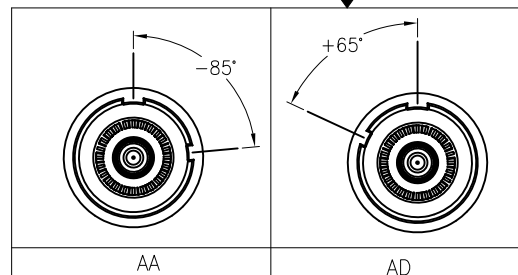
APPROVED: _____

DATE: _____ TITLE: _____

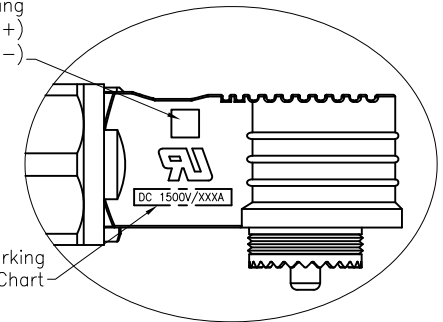
Rev	AWO #	Description	Date	Appr
SEE SHT 1 OF 6 FOR REVISION				



ESM-XXXXA02-XXX
Universal model: 350A, 300A
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: 4/0 AWG	350A
	Strand outer diameter: Ø14.7 Max	
	O.D (Outside Diameter): Ø18.5 Max	
		300A
International Wire Gauge	Wire standard: 95mm ²	
	Strand outer diameter: Ø14.2 Max	
	O.D (Outside Diameter): Ø17.6 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 $+125^\circ\text{C}$

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					
.X	$\pm .10$	HOLE $\phi .X$	$\pm .10$		
INCHES .XX	$\pm .020$	HOLE $\phi .XX$	$\pm .015$		
.XXX	$\pm .015$	HOLE $\phi .XXX$	$\pm .010$		
DRAWN	WX	12/18/23			
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TITLE
ENERGY STORAGE CONNECTOR, MALE

SIZE X	PART NO. ESM-XXXXA02-XXX	REV. G
REF: S00005C	SCALE: NTS	SHEET 5 OF 6

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[M40B](#) [NLS-N-W-C240-M40B](#) [NPS-3-BL-T6](#) [C148 10A005 000 9](#) [2-1589900-8](#) [9300480317](#) [19000005132](#) [AN0024202](#) [AN0264023](#) [279-](#)
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