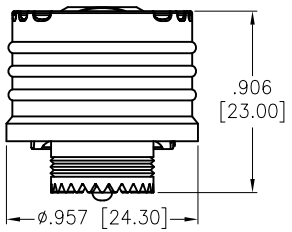
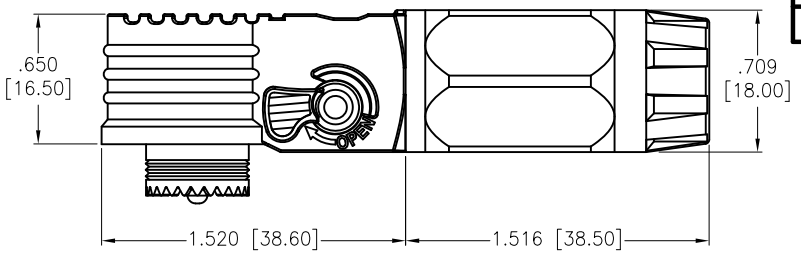
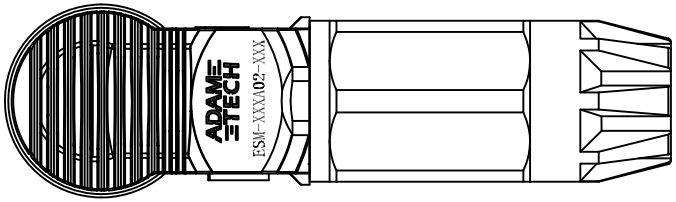
APPROVED: _____

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





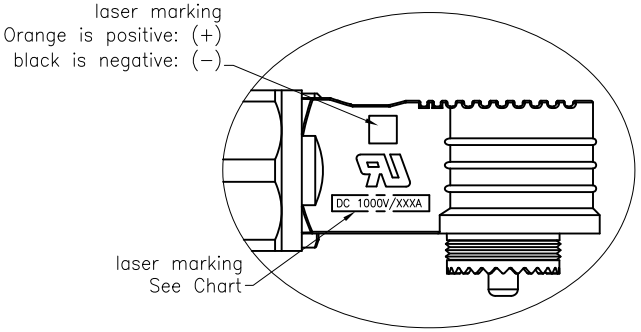


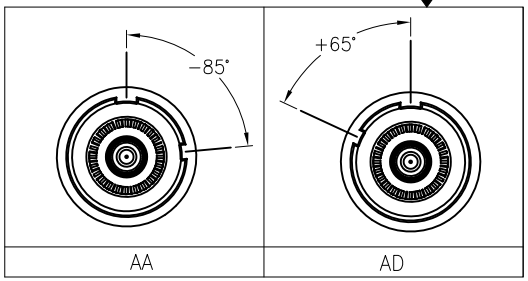
ESM−XXXA02−XXX

Universal model: 120A, 090A

Key Options

Housing Color:
O=Orange
B=Black







Suitable wire gauge

Specification		Universal model
AWG American wire gauge	Wire standard: 4 AWG	120A
	Strand outer diameter: ø6.47 Max	
	O.D (Outside Diameter): ø9.50 Max	
International Wire Gauge	Wire standard: 25mm²	
	Strand outer diameter: ø7.20 Max	
	O.D (Outside Diameter): ø9.80 Max	
AWG American wire gauge	Wire standard: 6 AWG	090A
	Strand outer diameter: ø5.20 Max	
	O.D (Outside Diameter): ø8.50 Max	
International Wire Gauge	Wire standard: 16mm²	
	Strand outer diameter: ø5.80 Max	
	O.D (Outside Diameter): ø8.00 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 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	± .10	Ø.X	±.10
.XX	± .020	Ø.XX	±.015
.XXX	± .015	Ø.XXX	±.010

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

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY AND SHOULD NOT BE USED WITHOUT PRIOR WRITTEN PERMISSION FROM ADAM TECH

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

TITLE: ENERGY STORAGE CONNECTOR, MALE

SIZE	PART NO.	REV.
X	ESM-XXXA02-XXX	E

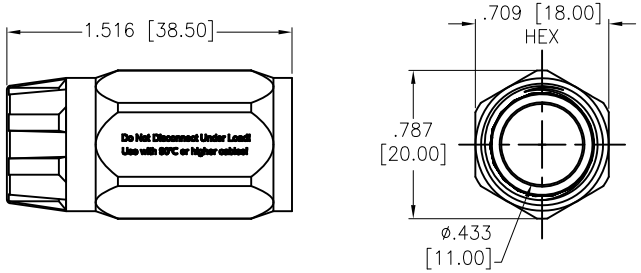
REF: S00005C | SCALE: NTS | SHEET 1 OF 6

Downloaded from Arrow.com.

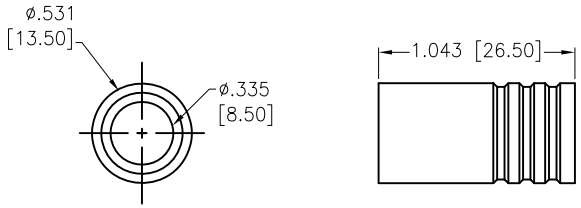
Rev	AWO #	Description	Date	Appr
SEE SHT 1 OF 6 FOR REVISION				

APPROVED: _____

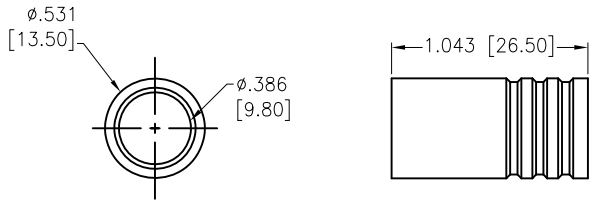
DATE: _____ TITLE: _____



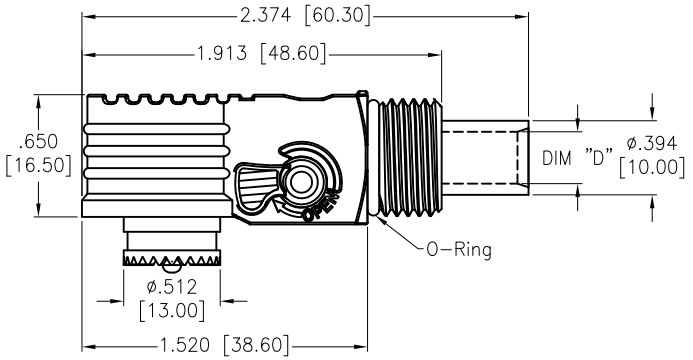
Screw Nut
(Packaged separately in poly bag)



Seal Ring For 6AWG&16mm^2
(Packaged separately in poly bag)



Seal Ring For 4AWG&25mm^2
(Packaged separately in poly bag)



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 seperately

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
CHECKED	CK	12/18/23
APPROVED		

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY AND SHOULD NOT BE USED WITHOUT PRIOR WRITTEN PERMISSION FROM ADAM TECH

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

TITLE: ENERGY STORAGE CONNECTOR, MALE

SIZE	PART NO.	REV.
X	ESM-XXXA02-XXX	E

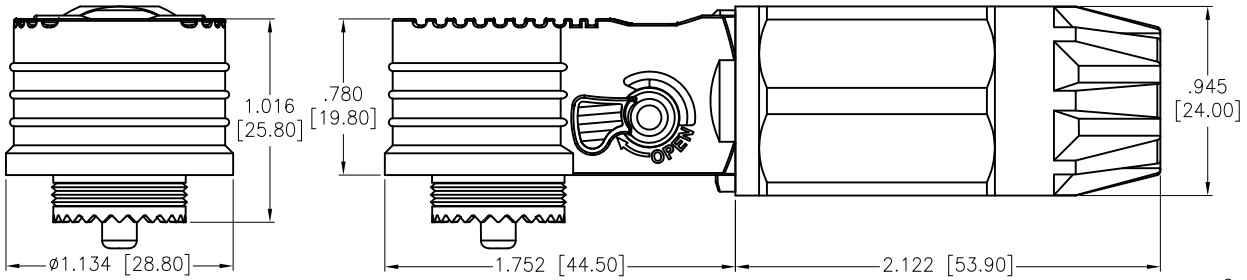
REF: S00005C | SCALE: NTS | SHEET 2 OF 6

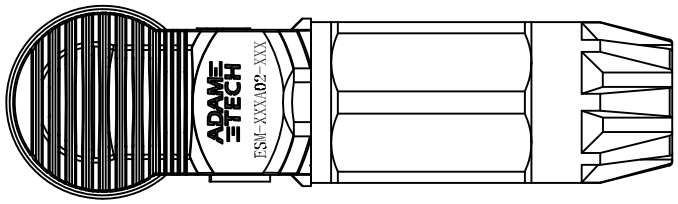
Downloaded from Arrow.com.

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

APPROVED: _____

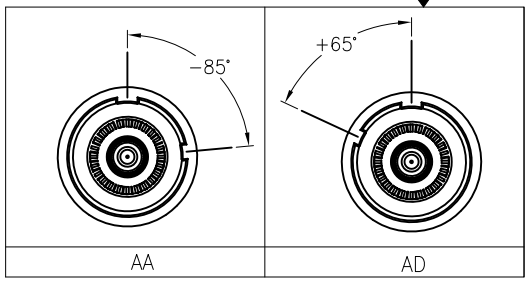
DATE: _____ TITLE: _____

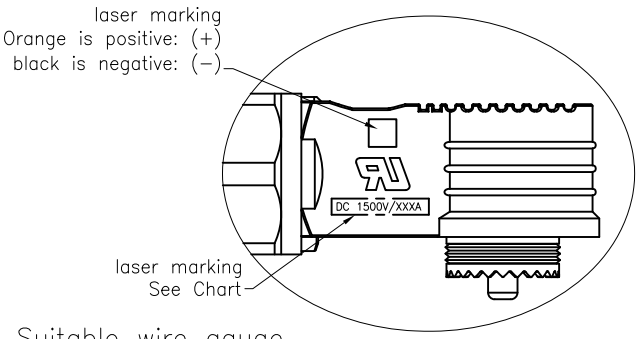




ESM-XXXA02-XXX

- 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: ø11.6 Max	
	O.D (Outside Diameter): ø15.1 Max	
International Wire Gauge	Wire standard: 70mm²	
	Strand outer diameter: ø12.2 Max	
	O.D (Outside Diameter): ø15.5 Max	
AWG American wire gauge	Wire standard: 1/0 AWG	200A
	Strand outer diameter: ø10.3 Max	
	O.D (Outside Diameter): ø14.2 Max	
International Wire Gauge	Wire standard: 50mm²	
	Strand outer diameter: ø10.2 Max	
	O.D (Outside Diameter): ø13.5 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 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	± .10	Ø.X	±.10
.XX	± .020	Ø.XX	±.015
.XXX	± .015	Ø.XXX	±.010

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

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY AND SHOULD NOT BE USED WITHOUT PRIOR WRITTEN PERMISSION FROM ADAM TECH

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

TITLE: ENERGY STORAGE CONNECTOR, MALE

SIZE	PART NO.	REV.
X	ESM-XXXA02-XXX	E

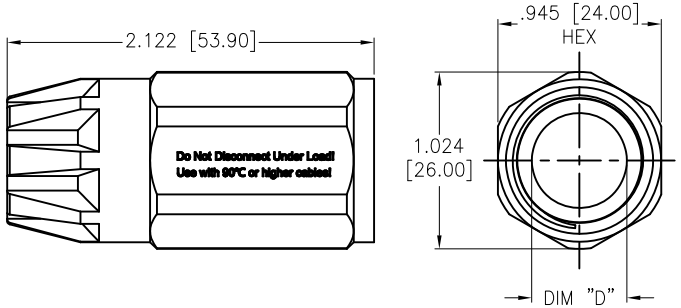
REF: S00005C | SCALE: NTS | SHEET 3 OF 6

Downloaded from Arrow.com.

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

APPROVED: _____

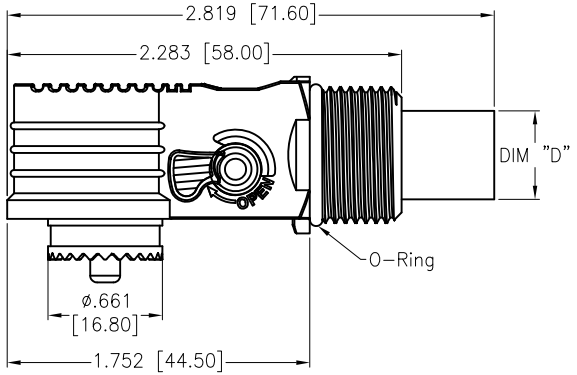
DATE: _____ TITLE: _____



Screw Nut

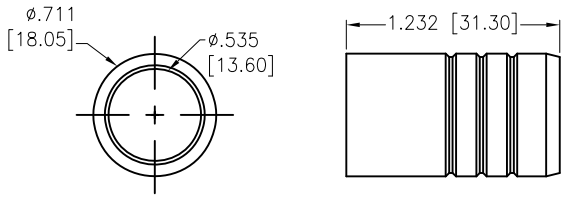
Wire range	Current rating	DIM "D"
1/0AWG/50mm^2	200A	.551 [14.00]
2/0AWG&70mm^2	250A	.622 [15.80]

(Packaged separately in poly bag)

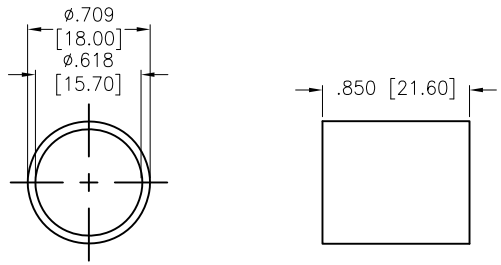


Wire range	Current rating	DIM "D"
1/0AWG/50mm^2	200A	.531 [13.50]
2/0AWG&70mm^2	250A	.610 [15.50]

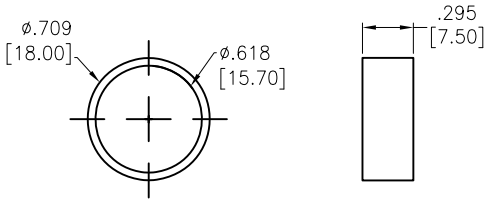
Note: Connector packaged in tray
Nut and Seal Ring packaged poly bag seperately



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



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



Seal Ring For 2/0AWG&70mm^2 (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
CHECKED	CK	12/18/23
APPROVED		

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY AND SHOULD NOT BE USED WITHOUT PRIOR WRITTEN PERMISSION FROM ADAM TECH

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

TITLE: ENERGY STORAGE CONNECTOR, MALE

SIZE	PART NO.	REV.
X	ESM-XXXA02-XXX	E

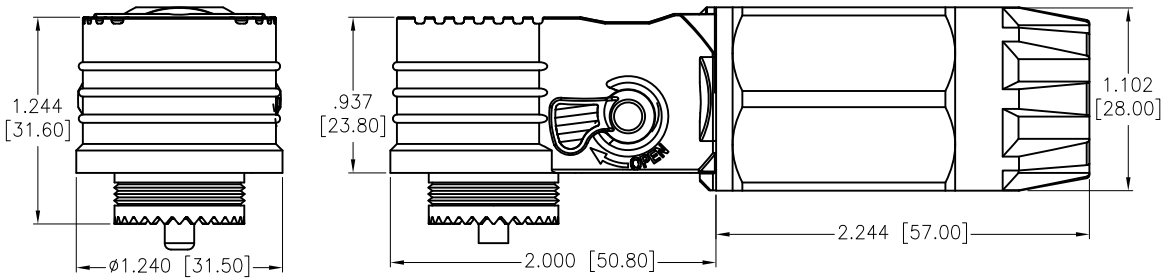
REF: S00005C | SCALE: NTS | SHEET 4 OF 6

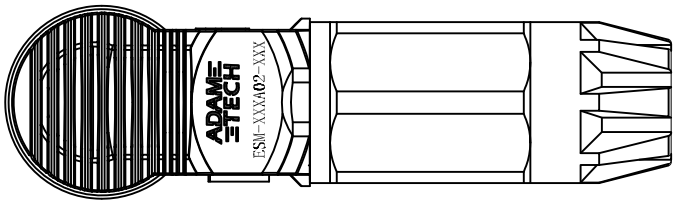
Downloaded from Arrow.com.

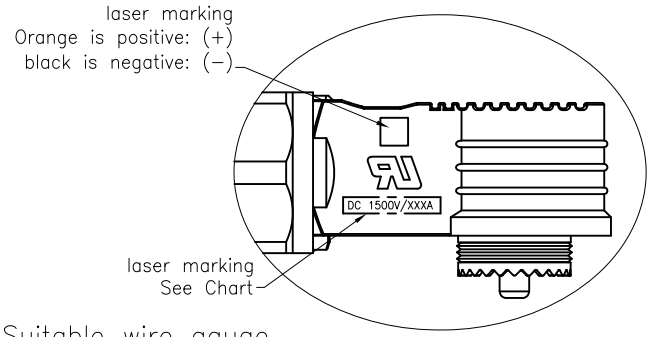
Rev	AWO #	Description	Date	Appr
SEE SHT 1 OF 6 FOR REVISION				

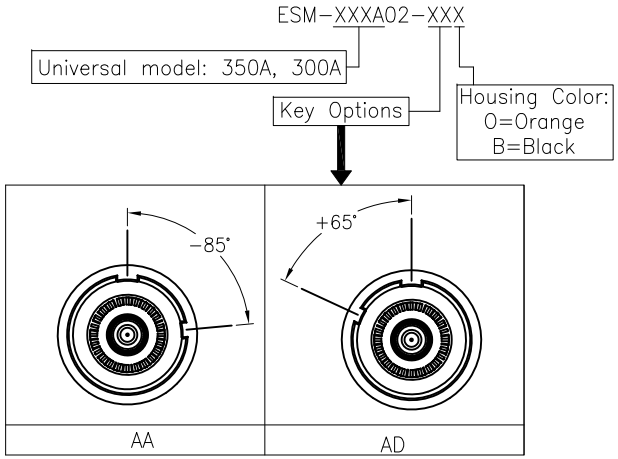
APPROVED: _____

DATE: _____ TITLE: _____









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

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	
International Wire Gauge	Wire standard: 95mm²	300A
	Strand outer diameter: ø14.2 Max	
	O.D (Outside Diameter): ø17.6 Max	

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
CHECKED	CK	12/18/23
APPROVED		

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY AND SHOULD NOT BE USED WITHOUT PRIOR WRITTEN PERMISSION FROM ADAM TECH

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

TITLE: ENERGY STORAGE CONNECTOR, MALE

SIZE	PART NO.	REV.
X	ESM-XXXA02-XXX	E

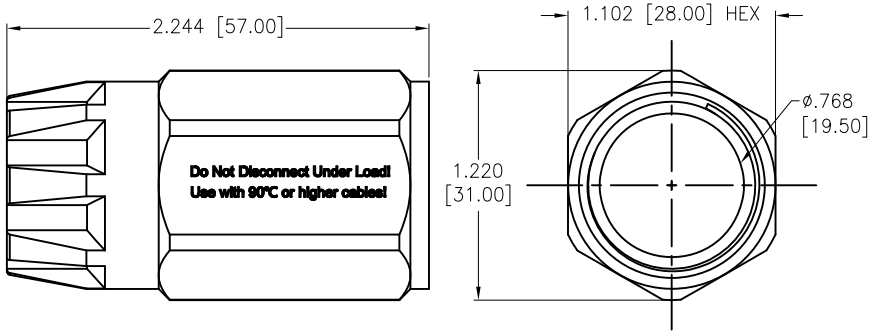
REF: S00005C | SCALE: NTS | SHEET 5 OF 6

Downloaded from Arrow.com.

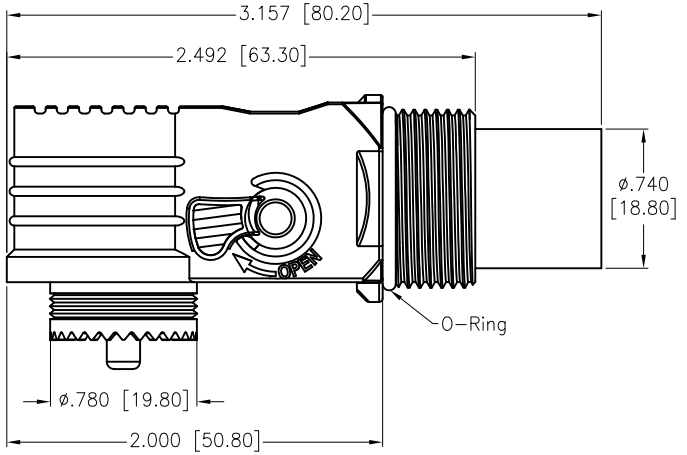
Rev	AWO #	Description	Date	Appr
SEE SHT 1 OF 6 FOR REVISION				

APPROVED: _____

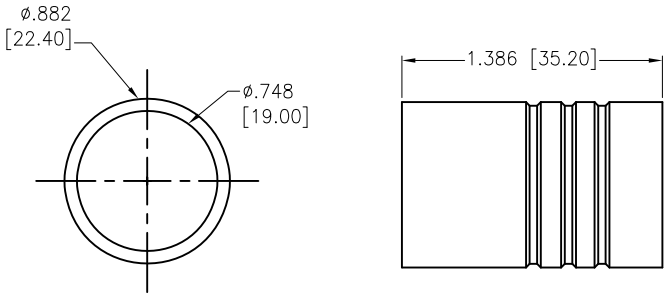
DATE: _____ TITLE: _____



Screw Nut For 4/0AWG (350A)&95mm² (300A)
(Packaged separately in poly bag)



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



Seal Ring For 4/0AWG (350A)&95mm² (300A)
(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
CHECKED	CK	12/18/23
APPROVED		

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY AND SHOULD NOT BE USED WITHOUT PRIOR WRITTEN PERMISSION FROM ADAM TECH

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

TITLE: ENERGY STORAGE CONNECTOR, MALE

SIZE	PART NO.	REV.
X	ESM-XXXA02-XXX	E

REF: S00005C | SCALE: NTS | SHEET 6 OF 6

Downloaded from Arrow.com.