



Restrained Plugs And Sockets

PLZA Range

1,100V/425A





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KONNX

1100V 425A PLZA Plug

3 Phase 1 Pilot



Pilot Orientation

Pre-Built To Suit Cable Type



Plug Type To Suit Cable Type and Grub Contact Set								
(mm ²)	*Ref.	Trackless Mining	*Ref.	Type 41	*Ref.	Type 61A	*Ref.	Type 61B
16	(E)	RS3899	(E)	RS3899	(E)	RS3899	-	-
25	(F)	RS3900	(F)	RS3900	(F)	RS3900	-	-
35	(F)	RS3901	-	-	(G)	RS3902	(F)	RS3901
50	(H)	RS3903	-	-	(H)	RS3903	(G)	RS3904
70	(I)	RS3905	-	-	(I)	RS3905	(I)	RS3905
95	-	-	-	-	(K)	RS3907	(J)	RS3906
120	-	-	-	-	(L)	RS3909	(J)	RS3908

*Gland Reference Letter

*For Crimp Contact style refer to page 15

Part Breakdown For Customized Cables; One Of Each Type Required



19 / 25 Style Contact + Insulator Sets		
(mm ²)	ID (mm)	Stock No. Grub
16	6.5	RS3651
25	7.5	RS3652
35	9.0	RS3653
50	10.5	RS3654
70	12.5	RS3655
95	14.0	RS3656
120	16.0	RS3657



② Front Cage
Stock No : RS1914



Compression Gland Type		
*Ref.	Gland ID	Stock No.
(A)	10-15	RS2212
(B)	15-20	RS2213
(C)	20-25	RS2214
(D)	25-30	RS2215
(E)	30-35	RS1618
(F)	35-40	RS1619
(G)	40-45	RS1620
(H)	45-50	RS1621
(I)	50-55	RS1622
(J)	55-60	RS1623
(K)	60-65	RS1624
(L)	65-70	RS1625
(M)	70-75	RS1626
(N)	75-80	RS1627



③ 1100V 425A Plug Body
Stock No : RS3918

*Gland Reference Letter

1100V 425A PLZA Socket

3 Phase 1 Pilot



Pilot Orientation

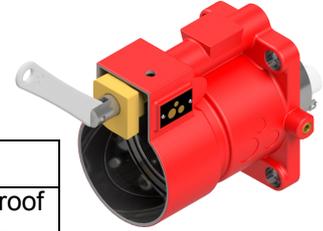


Ratchet Release Style



Quick Release Style

Socket Type to Suit mm ² Cable Tails and Grub Contact Set				
(mm ²)	Jack-In Stock No.	Quick Release Stock No.	Ratchet Release Stock No.	Tamper Proof Stock No.
16	RS3910	RS3910QR	RS3910RR	RS3910TP
25	RS3911	RS3911QR	RS3911RR	RS3911TP
35	RS3912	RS3912QR	RS3912RR	RS3912TP
50	RS3913	RS3913QR	RS3913RR	RS3913TP
70	RS3914	RS3914QR	RS3914RR	RS3914TP
95	RS3915	RS3915QR	RS3915RR	RS3915TP
120	RS3916	RS3916QR	RS3916RR	RS3916TP



Jack-In Style



Tamper Proof Style

*For Crimp Contact style refer to page 14

Part Breakdown For Customized Cables; One Of Each Type Required

1

1100V 425A Socket

Jack-In Style

Stock No. RS3423

Quick Release Style

Stock No. RS3423QR

Ratchet Release Style

Stock No. RS3423RR

Tamper Proof Style

Stock No. RS3423TP

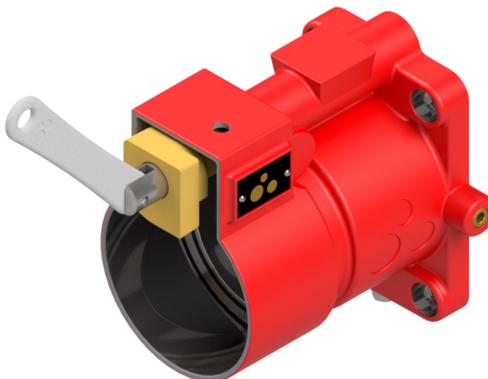
2



3

Socket Cage

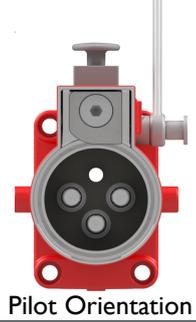
Stock No : RS3560



19 / 78 Style Contact + Insulator Sets		
(mm ²)	ID (mm)	Stock No. Grub
16	6.5	RS3665
25	7.5	RS3666
35	9.0	RS3667
50	10.5	RS3668
70	12.5	RS3669
95	14.0	RS3670
120	16.0	RS3671

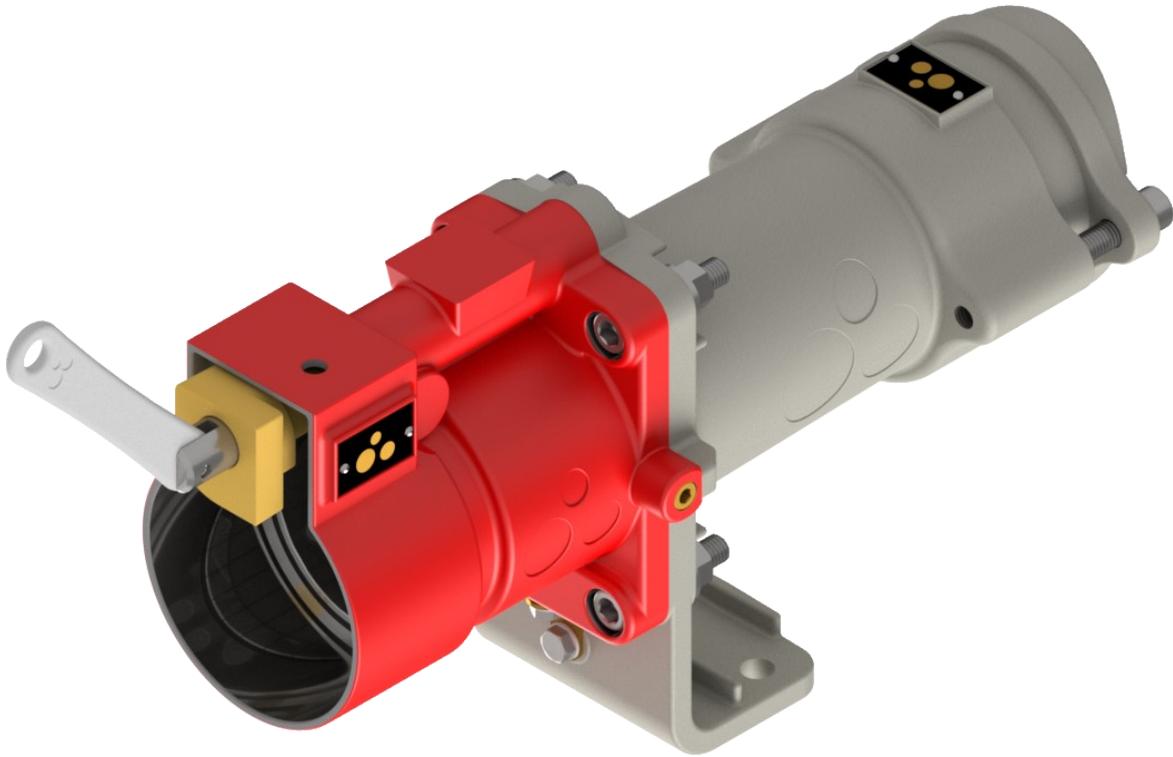
1100V 425A Socket Gland Bracket (SGB)

3 Phase 1 Pilot



Pilot Orientation

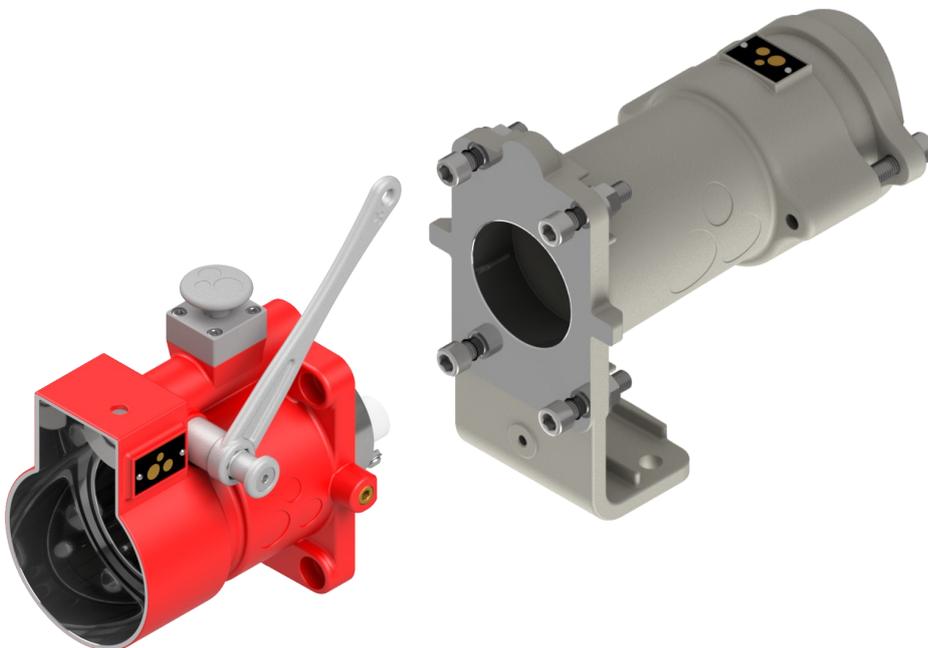
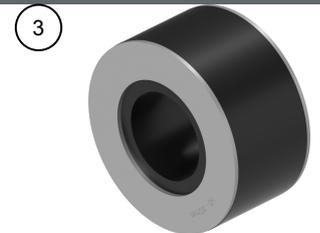
Built To Suit Cable Type



Part Breakdown For Customized Cables; One Of Each Type Required

① 1100V 425A Socket
Stock No: Refer to Socket Page

② Gland Bracket Body Kit
Stock No. RS3516

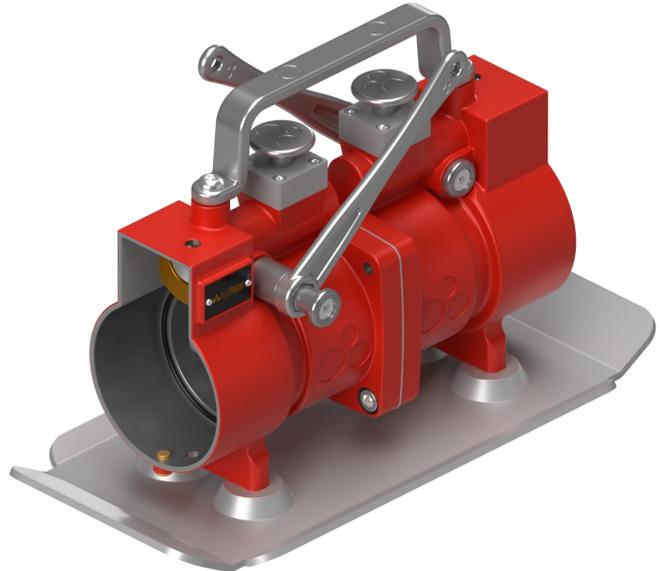
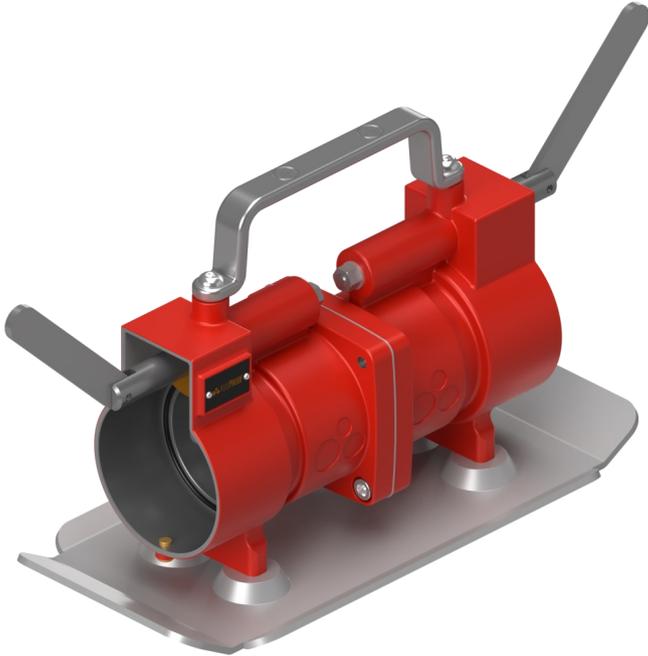


Compression Gland Type		
*Ref.	Gland ID	Stock No.
(A)	10-15	RS2212
(B)	15-20	RS2213
(C)	20-25	RS2214
(D)	25-30	RS2215
(E)	30-35	RS1618
(F)	35-40	RS1619
(G)	40-45	RS1620
(H)	45-50	RS1621
(I)	50-55	RS1622
(J)	55-60	RS1623
(K)	60-65	RS1624
(L)	65-70	RS1625
(M)	70-75	RS1626
(N)	75-80	RS1627

*Gland Reference Letter

1100V 425A Back to Back (B2B)

3 Phase 1 Pilot



Complete Back to Back

Jack-In Stock No.	Quick Release Stock No.	Ratchet Release Stock No.	Tamper Proof Stock No.
RS3870	RS3870QR	RS3870RR	RS3870TP

Part Breakdown For Repairs; One Of Each Type Required

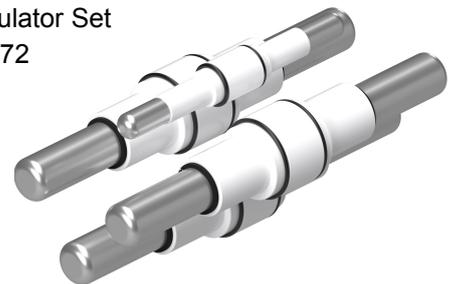
1

1100V 425A Back to Back
Body Kit (Quick Release)
Stock No. RS3871QR



2

PLZA 19 - 25 Back to Back (B2B)
Contact and Insulator Set
Stock No. RS3872



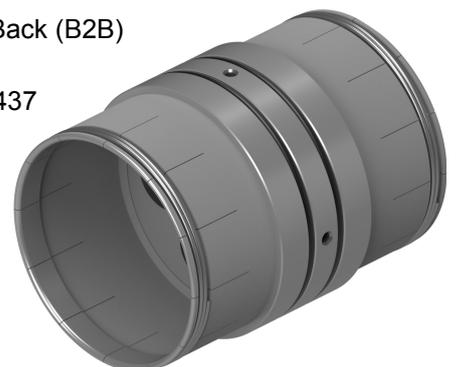
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1100V 425A Back to Back
Body Kit (Jack-In)
Stock No. RS3871



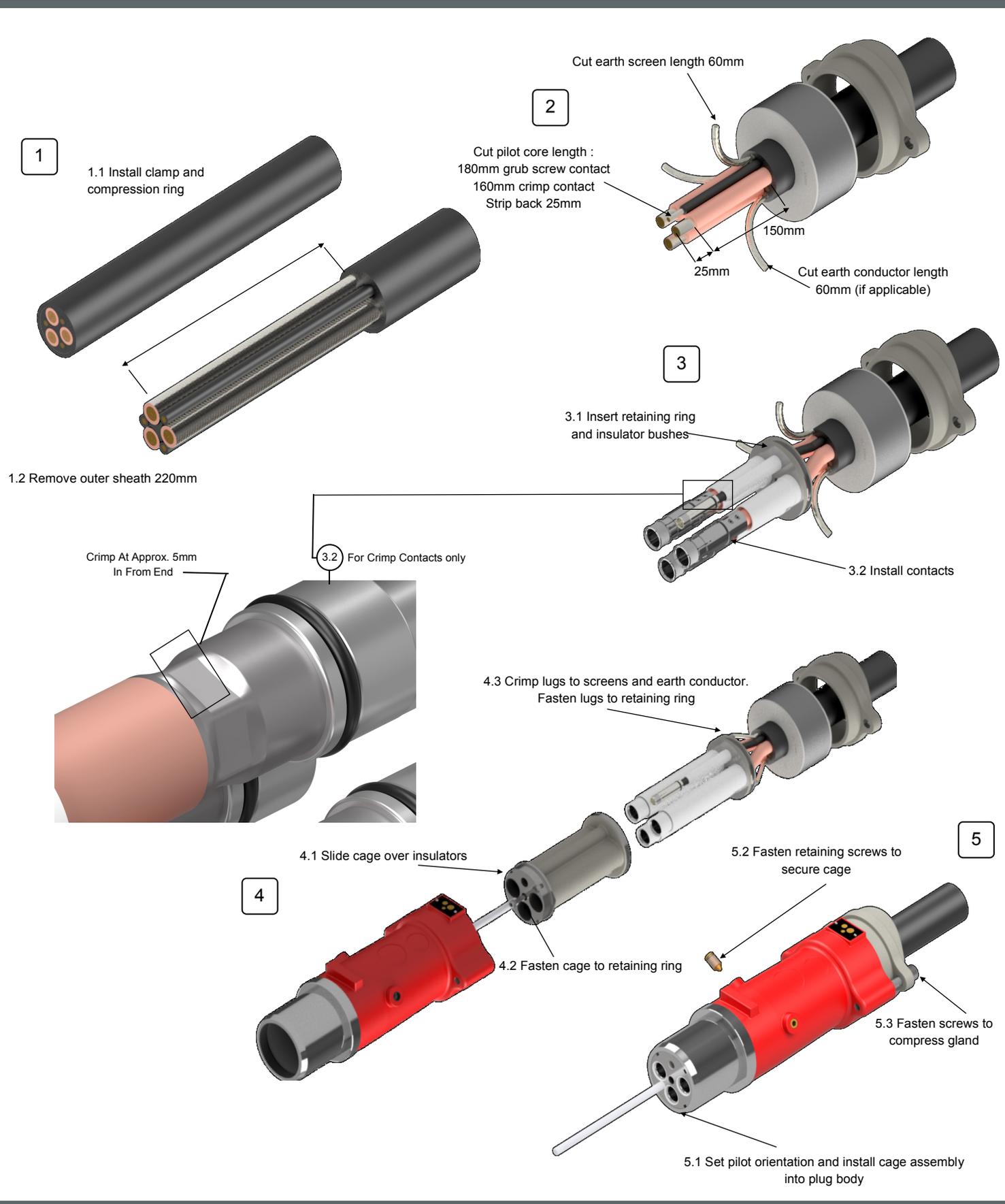
3

PLZA Back to Back (B2B)
Cage Kit
Stock No. RS2437



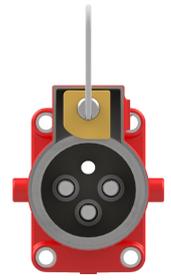
PLZA Range Termination Procedure

1100V 250A Plug; 3 Phase 1 Pilot

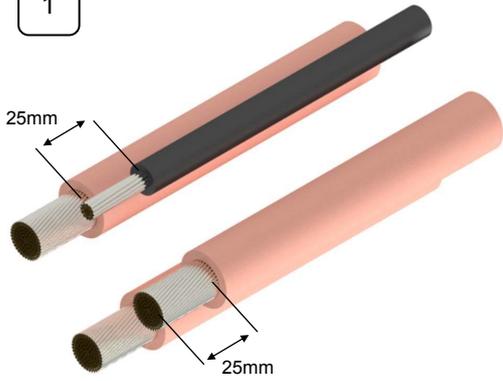


PLZA Range Termination Procedure

1100V 425A Socket; 3 Phase 1 Pilot

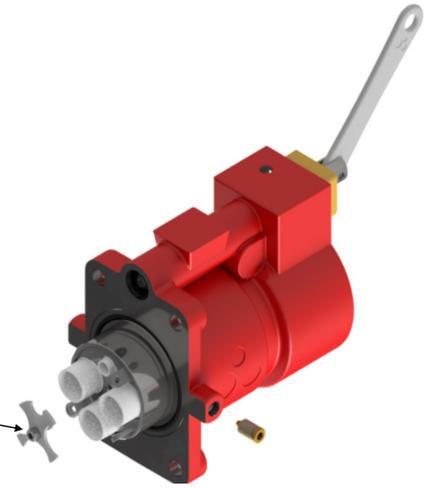


1



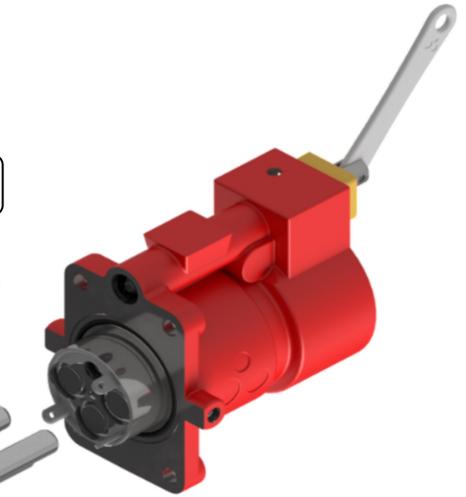
2

2.1 Remove star retaining plate from cage

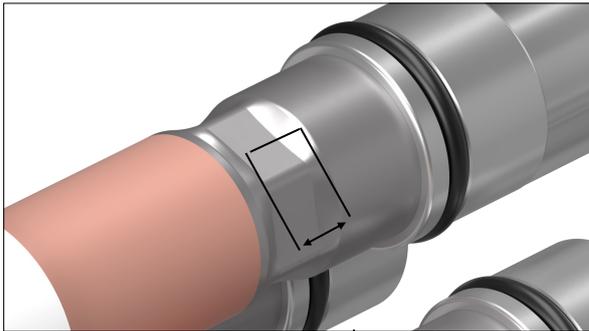


3

3.2 Install contacts



3.1 Fit insulator bushes and retaining plate to cable



Crimp At Approx. 5mm In From End

3.2

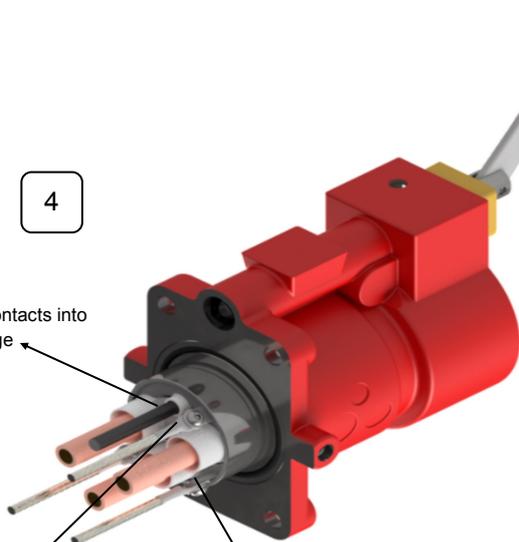
For Crimp Contacts only

4

4.1 Insert contacts into cage

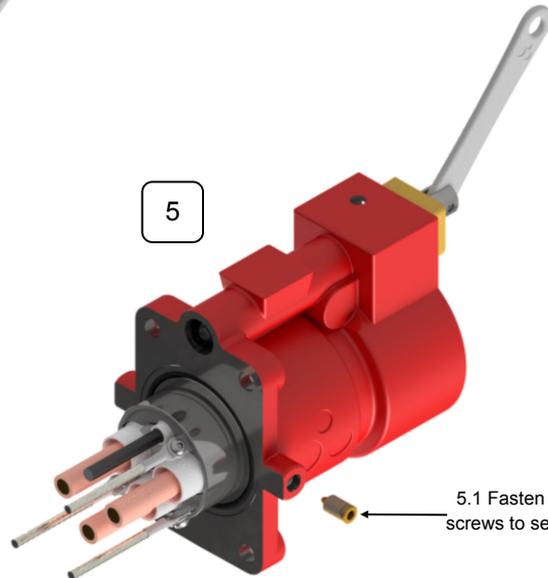
4.2 Fasten retaining plate to cage

4.3 Crimp earth conductors to lugs and fasten to cage



5

5.1 Fasten retaining screws to secure cage



PLZA Range Termination Procedure

1100V 425A Socket Gland Bracket; 3 Phase 1 Pilot

1

1.1 Install gland bracket kit



1.2 Remove outer sheath 220mm



2

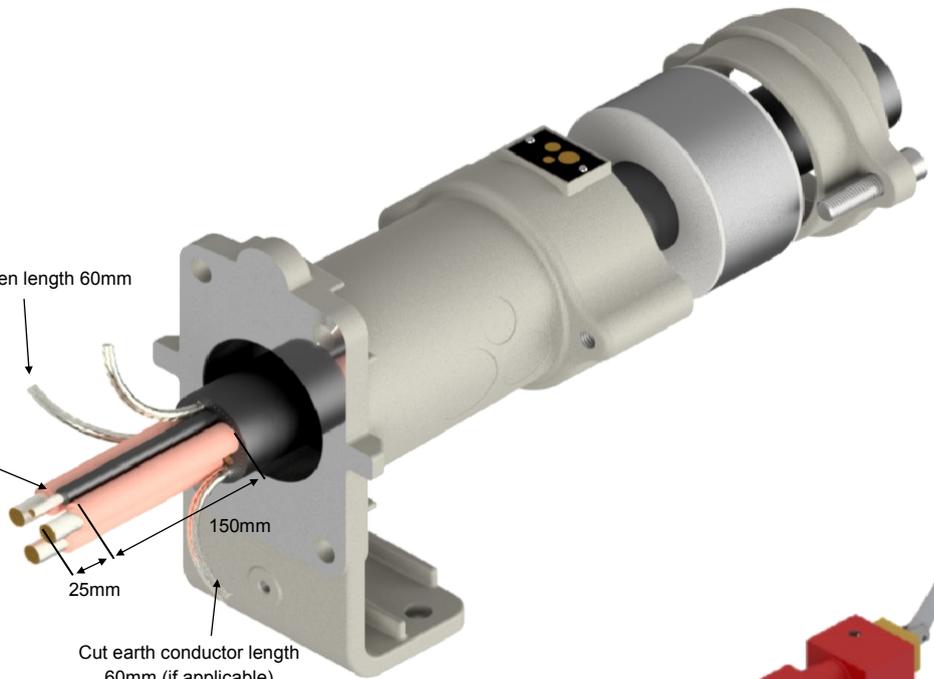
Cut earth screen length 60mm

Cut pilot core length:
180mm grub screw contact
160mm crimp contact
Strip back 25mm

150mm

25mm

Cut earth conductor length
60mm (if applicable)

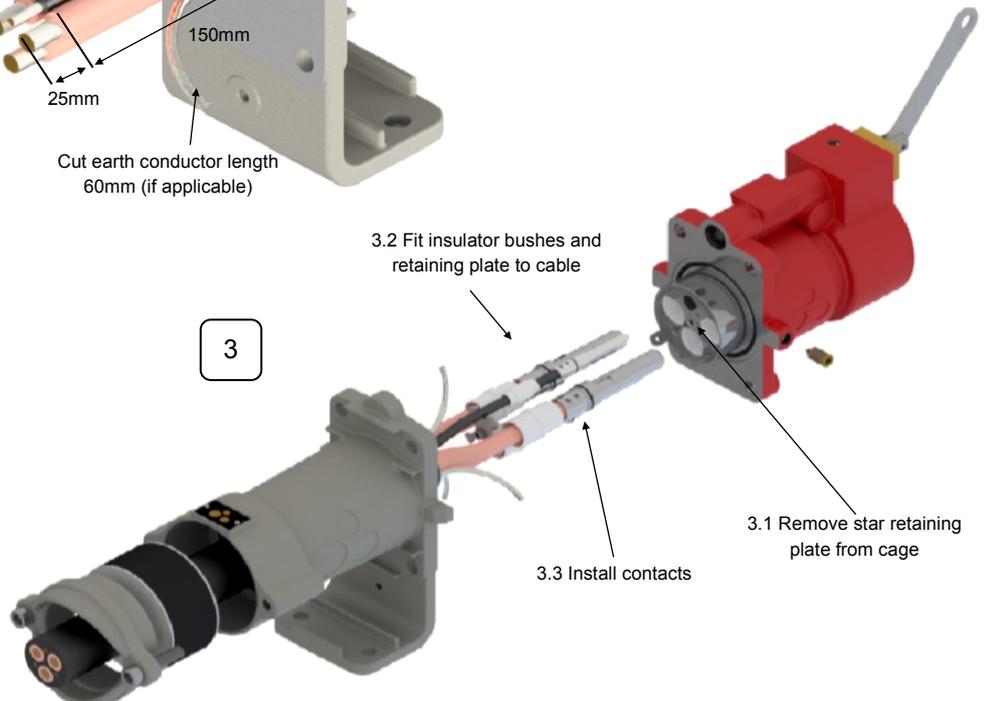


3

3.2 Fit insulator bushes and retaining plate to cable

3.1 Remove star retaining plate from cage

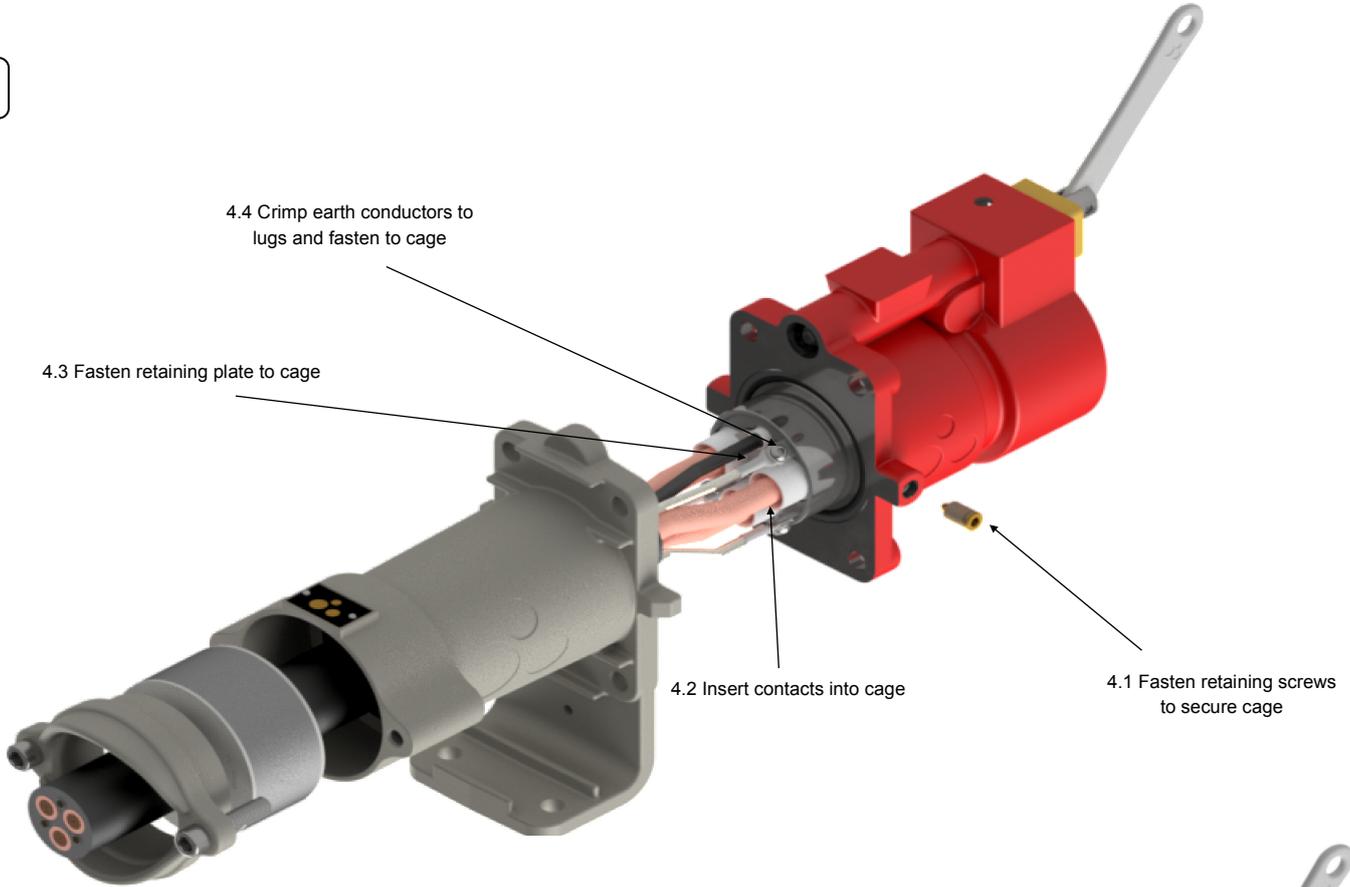
3.3 Install contacts



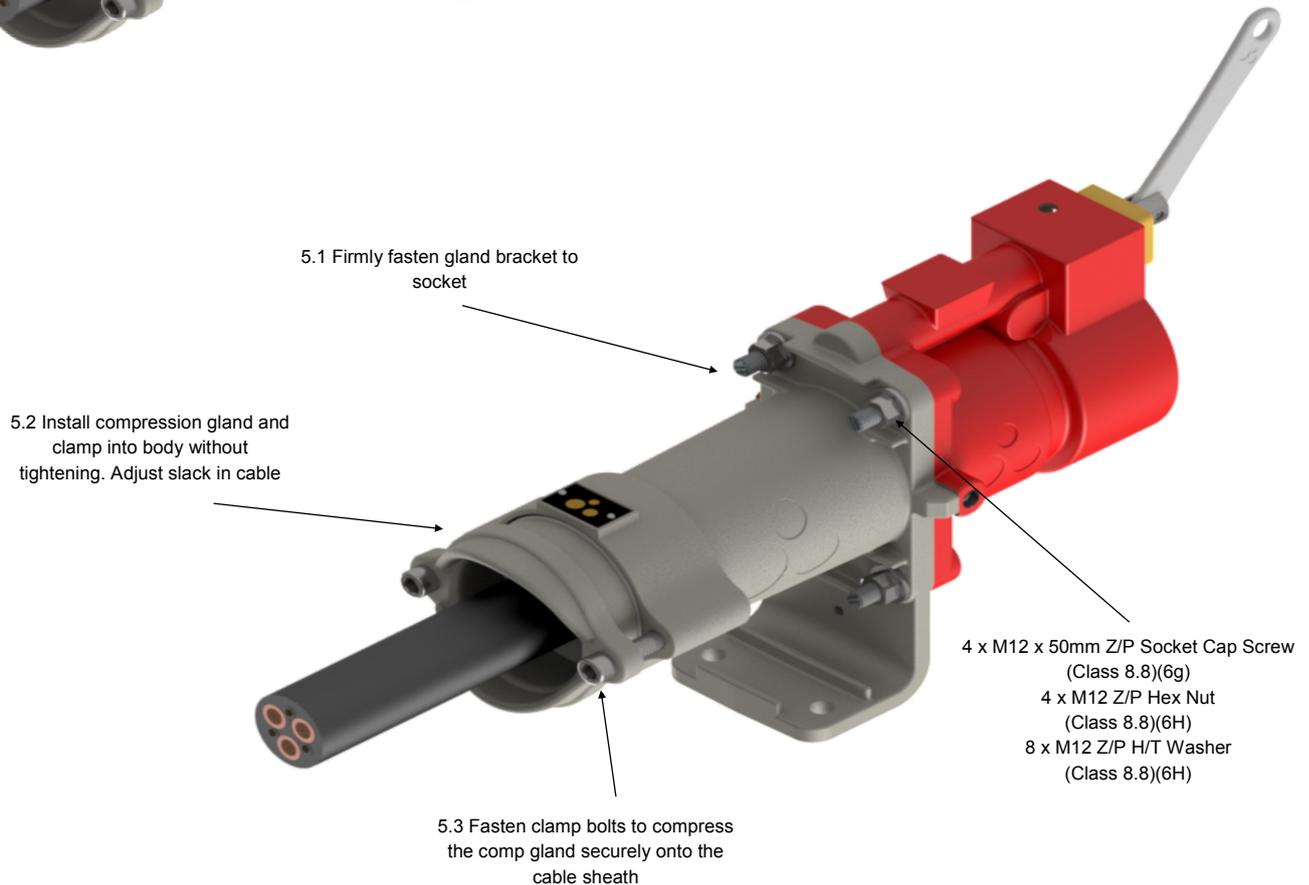
PLZA Range Termination Procedure

1100V 425A Socket Gland Bracket; 3 Phase 1 Pilot

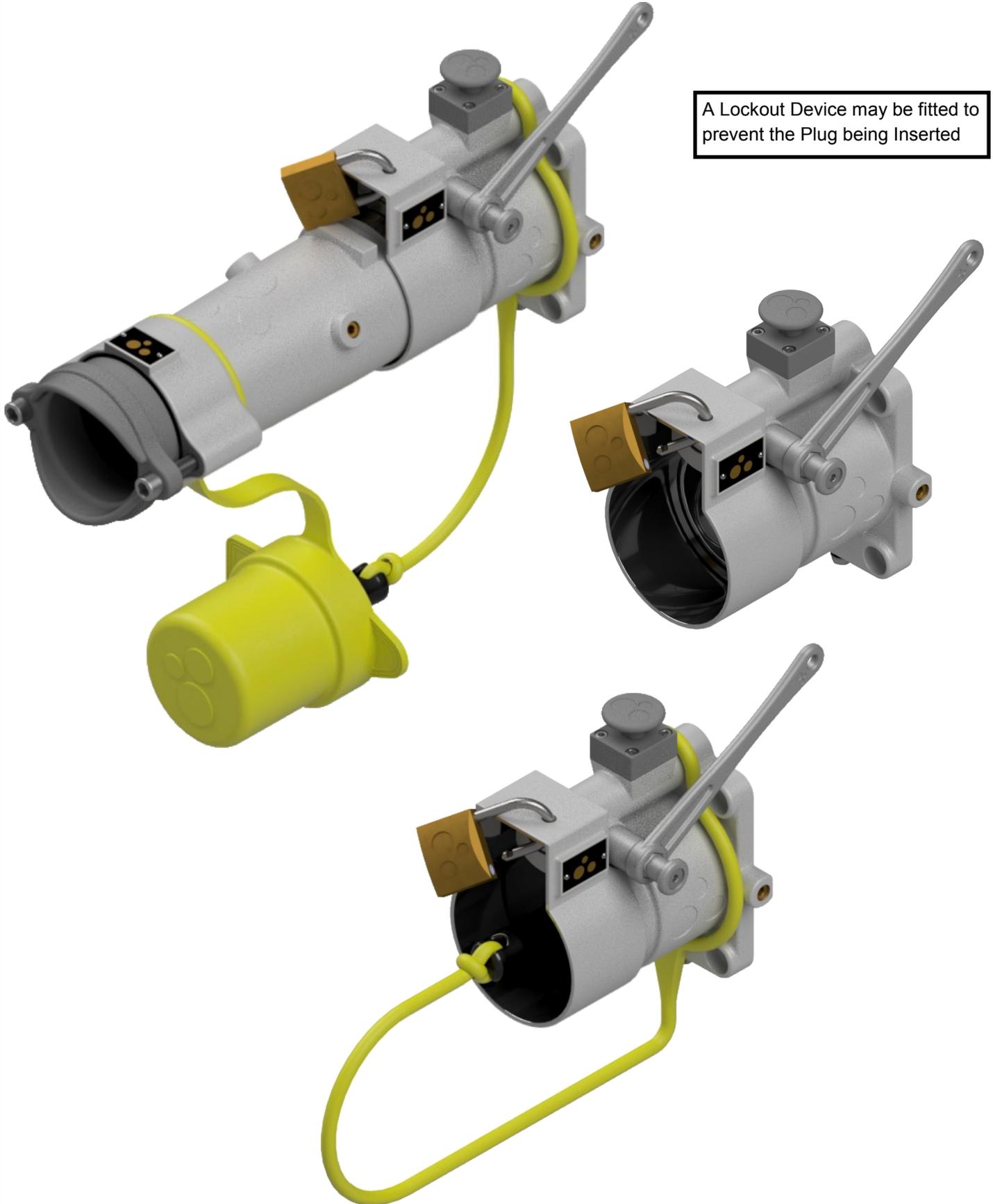
4



5



PLZA Range Lockout Device Location



PLZA Range Plug Accessories



425A
PLZA Plug Cover
Part No. 3202



PLZA OIF Plug Kit
(O-ring, Insulator Fastener Kit)
Stock No: RS3919



Guide Stick
Part No: 1766

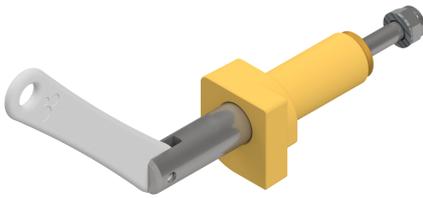


PLZA Socket Protective Bung
Stock No: RS1767



PLZA OIF Socket Kit
(O-ring, Insulator Fastener Kit)

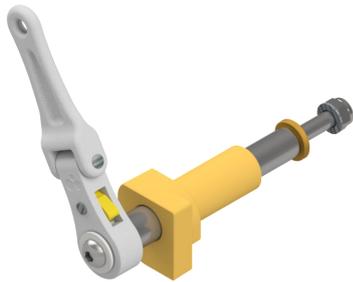
(mm ²)	Stock No.
16-120mm	RS3920
150-185mm	RS3931



PLZA Jack in Repair Kit
Stock No: RS1758



PLZA Quick Release Repair Kit
Stock No: RS1184



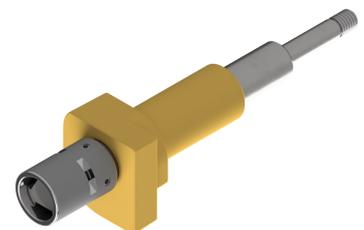
PLZA Ratchet Release Repair Kit
Stock No: RS3760



PLZA Ratchet Release Repair Kit
Stock No: RS2725



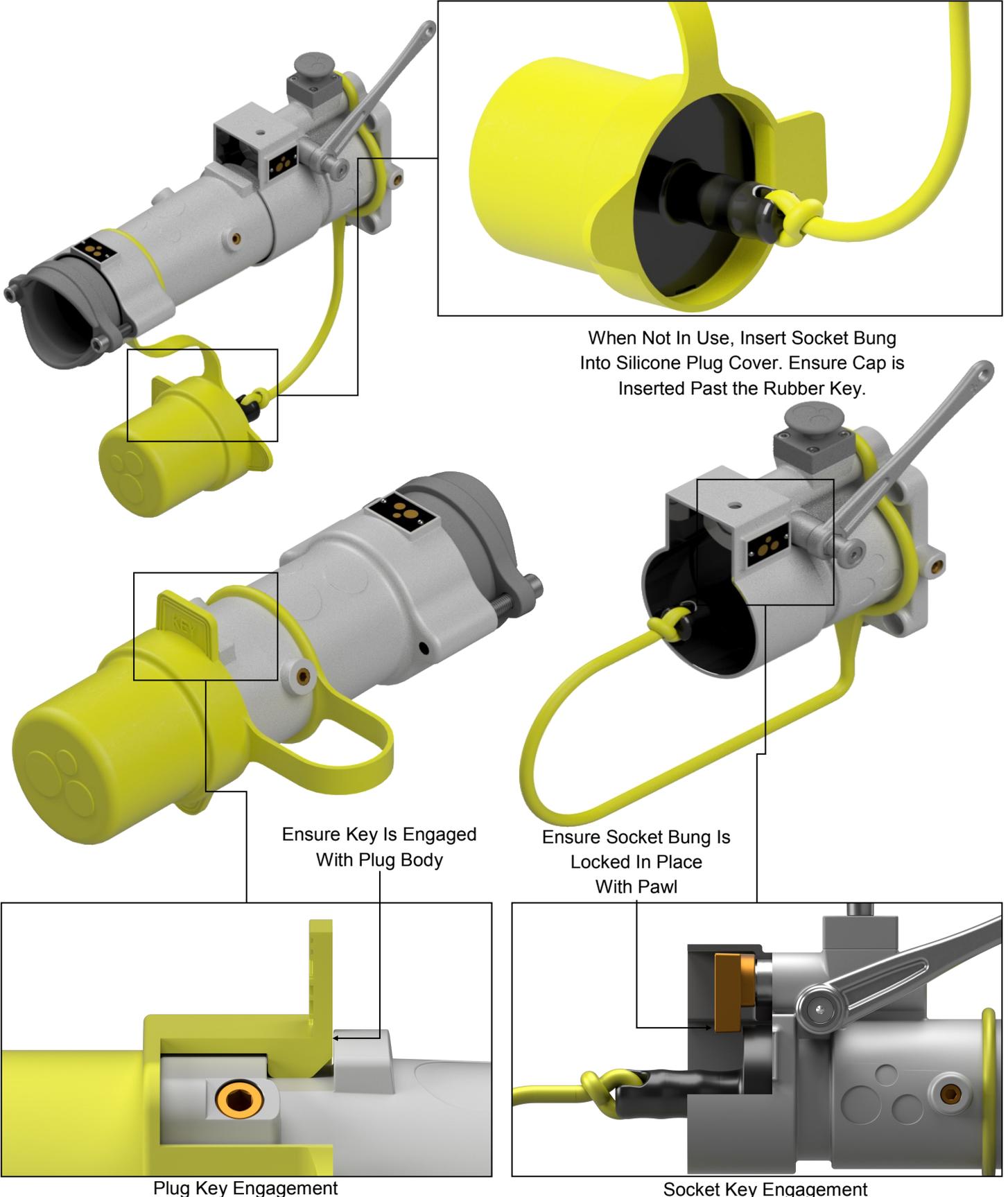
PLZA Socket Tamper Proof Handle
Assembly
Stock No: RS3511



PLZA Tamper Proof Repair Kit
Stock No. RS3921

PLZA Range Product Handling

1100V 425A Plug And Socket



1100V 425A PLZA Socket

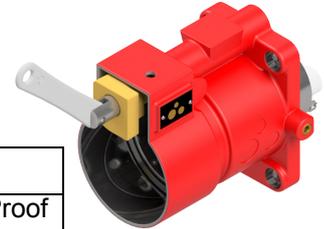
3 Phase 1 Pilot



Pilot Orientation



Ratchet Release Style



Jack-In Style

Socket Type to Suit mm ² Cable Tails and Crimp Contact Set				
(mm ²)	Jack-In Stock No.	Quick Release Stock No.	Ratchet Release Stock No.	Tamper Proof Stock No.
16	RS3501	RS3501QR	RS3501RR	RS3501TP
25	RS3502	RS3502QR	RS3502RR	RS3502TP
35	RS3503	RS3503QR	RS3503RR	RS3503TP
50	RS3504	RS3504QR	RS3504RR	RS3504TP
70	RS3505	RS3505QR	RS3505RR	RS3505TP
95	RS3506	RS3506QR	RS3506RR	RS3506TP
120	RS3507	RS3507QR	RS3507RR	RS3507TP
150	RS3508	RS3508QR	RS3508RR	RS3508TP
185	RS3509	RS3509QR	RS3509RR	RS3509TP



Quick Release Style



Tamper Proof Style

*For Grub Contact style refer to page 3

Part Breakdown For Customized Cables; One Of Each Type Required

① 1100V 425A Socket

Jack-In Styles
Stock No. RS3423

Quick Release Style
Stock No. RS3423QR

Ratchet Release Style
Stock No. RS3423RR

Tamper Proof Style
Stock No. RS3423TP



③ Socket Cage
Stock No : RS3560



19 / 78 Style Contact + Insulator Sets		
(mm ²)	ID (mm)	Stock No. Crimp
16	6.5	RS3922
25	7.5	RS3923
35	9.0	RS3924
50	10.5	RS3925
70	12.5	RS3926
95	14.0	RS3927
120	16.0	RS3928
150	17.7	RS3929
185	19.5	RS3930



Pilot Orientation

Pre-Built To Suit Cable Type



Plug Type To Suit Cable Type and Crimp Contact Set								
(mm ²)	*Ref.	Trackless Mining	*Ref.	Type 41	*Ref.	Type 61A	*Ref.	Type 61B
16	(E)	RS3448	(E)	RS3448	(E)	RS3448	-	-
25	(F)	RS3449	(F)	RS3449	(F)	RS3449	-	-
35	(F)	RS3450	-	-	(G)	RS3451	(F)	RS3450
50	(H)	RS3452	-	-	(H)	RS3452	(G)	RS3453
70	(I)	RS3454	-	-	(I)	RS3454	(I)	RS3454
95	-	-	-	-	(K)	RS3456	(J)	RS3455
120	-	-	-	-	(L)	RS3458	(J)	RS3457
150	-	-	-	-	(M)	RS3460	(K)	RS3459

*Gland Reference Letter

*For Grub Contact style refer to page 2

Part Breakdown For Customized Cables; One Of Each Type Required



19 / 25 Style Contact + Insulator Sets		
(mm ²)	ID (mm)	Stock No. Crimp
16	6.5	RS1932
25	7.5	RS1931
35	9.0	RS1930
50	10.5	RS1929
70	12.5	RS1928
95	14.0	RS1927
120	16.0	RS1926
150	17.7	RS1925
185	19.5	RS1924



2 Front Cage
Stock No : RS1914



Compression Gland Type		
*Ref.	Gland ID	Stock No.
(A)	10-15	RS2212
(B)	15-20	RS2213
(C)	20-25	RS2214
(D)	25-30	RS2215
(E)	30-35	RS1618
(F)	35-40	RS1619
(G)	40-45	RS1620
(H)	45-50	RS1621
(I)	50-55	RS1622
(J)	55-60	RS1623
(K)	60-65	RS1624
(L)	65-70	RS1625
(M)	70-75	RS1626
(N)	75-80	RS1627



3 1100V 425A Plug Body
Stock No : RS3918

*Gland Reference Letter

Flamepath Detail

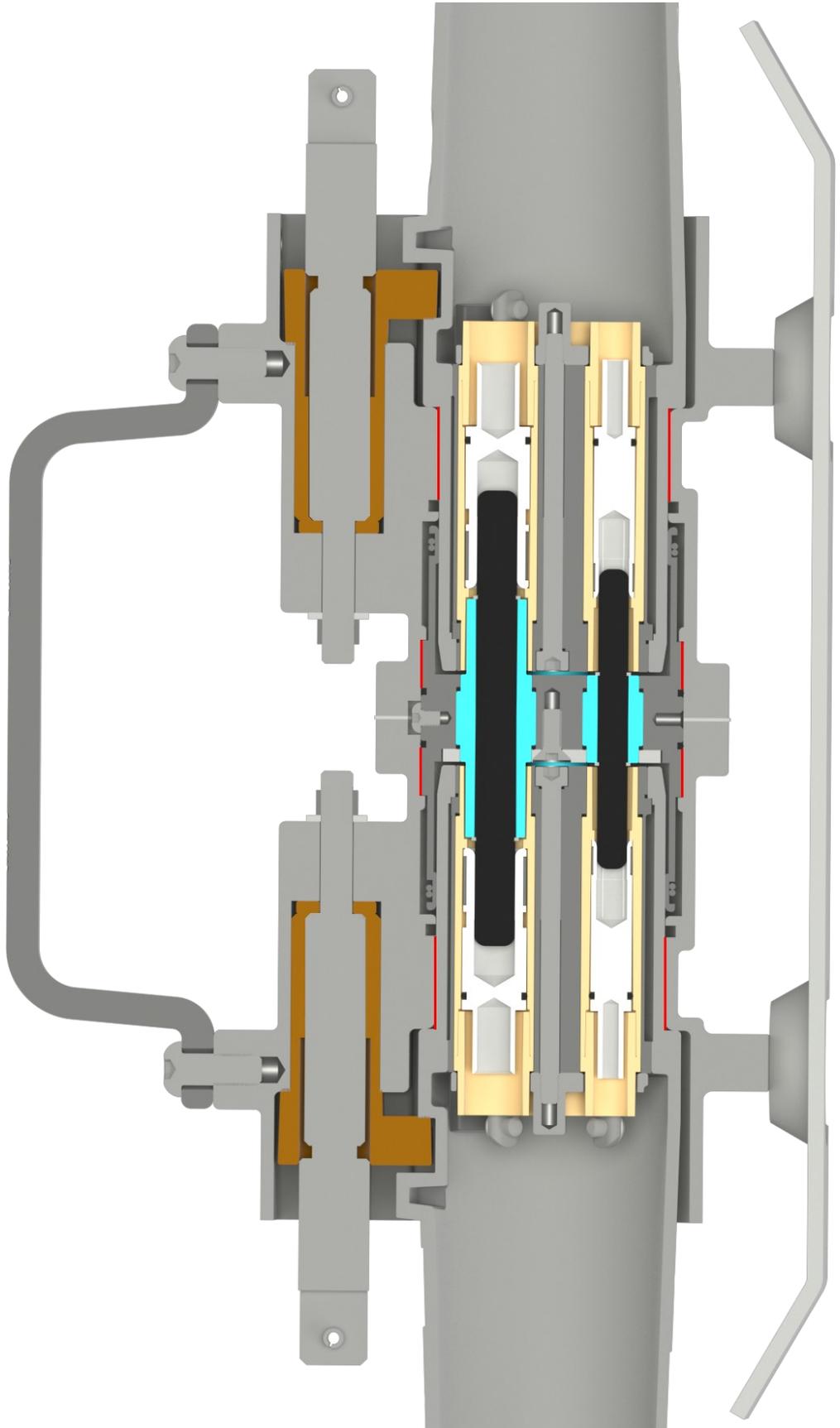
1100V 425A PLZA Back to Back

Legend	
	Flamepath
	Plug Insulators
	Sockets Insulators
	Plug Contacts
	Receptacle Contacts
	Plug and Socket Housing
	Plug and Socket Cage

Flamepaths are not intended to be repaired. For further specifications on Flamepath joints, contact manufacturer for dimensions and tolerances.

Plug and Socket
Disengagement Order
Pilot/Auxiliary – Phase
Contacts – Scraping Earth –
Flameproof Path.

Pilot disengages first providing electrical isolation of phase during disconnection sequence.



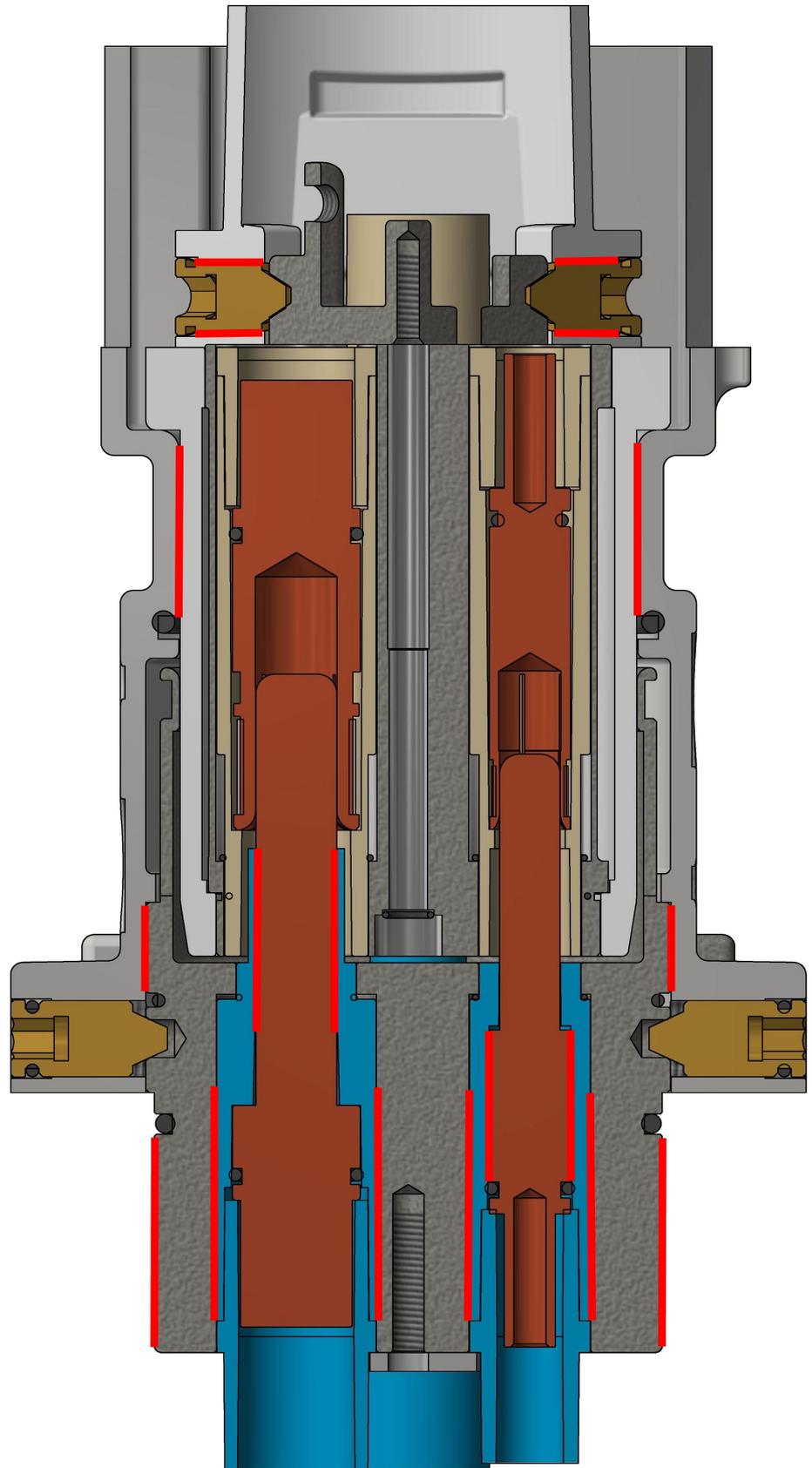
Flamepath Detail

1100V 425A PLZA Plug And Socket

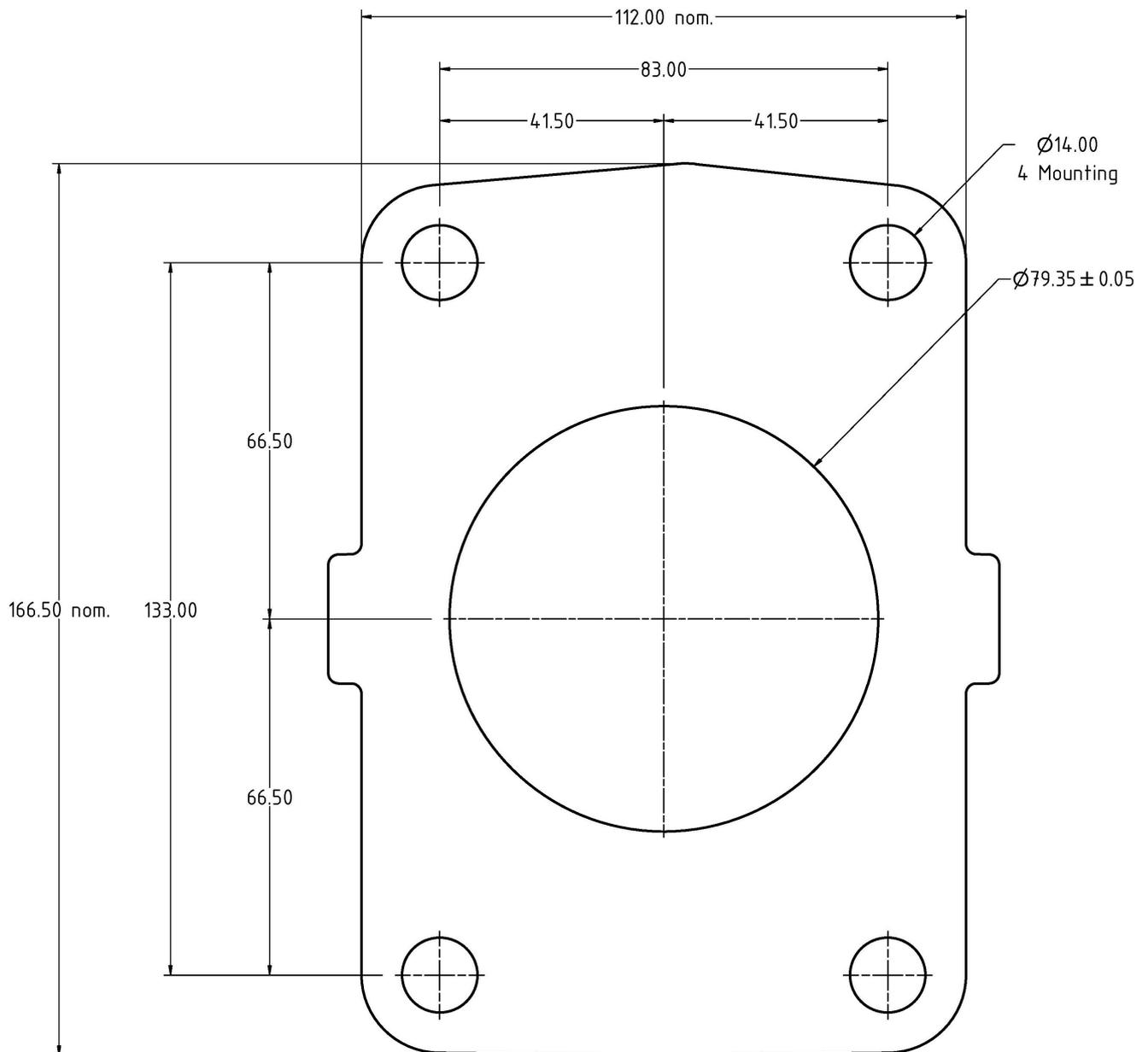
Legend	
	Flamepath
	Plug Insulators
	Socket Insulators
	Plug Contacts
	Socket Contact
	Cage/Barrel
	Cage Locking Screw

Flamepaths are not intended to be repaired. For further specifications on Flamepath joints, contact manufacturer for dimensions and tolerances.

Plug and Socket
Disengagement Order
Pilot/Auxiliary – Phase
Contacts – Scraping Earth –
Flameproof Path.
Pilot disengages first providing electrical isolation of phase during disconnection sequence.



PLZA Socket Enclosure Profile For Mounting of 1100V 425A Socket



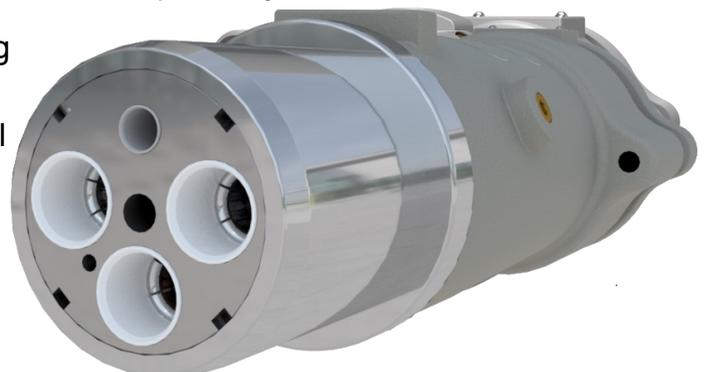
In Accordance with SANS 1489-2

Maintenance And Safety

Plug and Socket System

To ensure the safe operation of the plug and socket, personnel should be aware of minimal ongoing care and maintenance.

- When cables are not in use, ensure that protective covers have been fitted to provide adequate sealing against moisture and dust.
- The plugs and sockets should never be used as a towing or anchor point.
- Inspect plug and socket to ensure no parts are missing, if parts are missing it is deemed unsafe for use.
- Inspect insertion end of plug and entry of socket to ensure there is no damage, as damage could compromise the flame path protection.
- Before connection inspect sealing ring in socket to ensure they are located correctly into groove.
- Before connection of plug and socket ensure connecting pins are not bent from previous misuse or incorrect assembly.
- Ensure plug has been inserted fully into socket before energizing.
- If witness marks are used, make sure they are brightly painted on the sheath, located where the cable enters the gland. This needs to be routinely inspected to check if a gap appears between the end of the gland and the witness mark. A gap may indicate that the cable has been under tension and that the termination in the coupler may have moved.
- The maximum surface temperature the plug will achieve when operating at full rated current at an ambient of 40 Deg Celsius will not exceed 85 Deg Celsius, which is therefore suitable for safe use in underground mines as it is less than 150 Deg Celsius.





Identification Labels

For 425A Plug Product



RATING: (Volts) (Amps)

IA No:

CoC: IECEX

REF: ID (Model) - Ex db I Mb Type A

S/N:



**WARNING - DO NOT SEPARATE
WHEN ENERGIZED**

- Standards Applied: SANS 1489:2016, AS/NZS 1299:2099, AS/NZS 60079.0:2019, AS/NZS 60079.1:2015
- In accordance with clause 11.3 of AS/NZS 60079-1:2015, the following fastener property class shall apply;
 - ◆ Fixing Gland Bracket to Socket: Property Class \geq 4.6
 - ◆ Fixing Compression Clamp: Property Class \geq 12.9
 - ◆ Fixing Socket to Ex d Enclosure: Property Class \geq 4.6*

**Note: Specified Fastener Property Class to be \geq the Fastener Property Class specified for the Ex enclosure.*
- Flameproof Joints Are Not Intended to Be Repaired: For Further Specifications On Flamepath Joints Contact The Original Manufacturer For Information On The Dimensions Of The Flameproof Joints
- Ensure Socket is Earthed to Ensure Induced Voltages Are Not Developed
- Plug and Socket Are Not To Be Separated When Energised



5 Brighton Road

Bramley View

South Africa, 2090

Phone: +27 11 496 2431

Email: sales@konnx.co.za

Website: <https://konnx.co.za>