



TECHNICAL MANUAL

INTERCONNECT SOLUTIONS



TELEDYNE IMPULSE

TECHNICAL MANUAL



MAKING CONNECTIONS IN HARSH ENVIRONMENTS



TELEDYNE IMPULSE

INTERCONNECT SOLUTIONS

www.teledyneimpulse.com  impulse@teledyne.com  800.327.0971  858.842.3100

PRODUCTS AND SERVICE

We at Teledyne Impulse have set our standards high to meet the needs and requirements of you, our valued customer.

Teledyne Impulse products and services include the following:

- Thermoset Glass Reinforced Epoxy Connectors
- Rubber Molded Connectors
- Rubber Molded Metal Shell Connectors
- Polyurethane Molded Connectors
- Metal Shell Connectors
- Pressure Balanced Oil Filled Connectors
- Magnetically Operated Proximity Switches
- Cable Termination
- Neoprene and Polyurethane Cable Splicing to Connectors
- Custom Breakouts
- Custom Connector Design and Fabrication
- Turnkey Solutions

Quality products, on time delivery, very competitive prices and excellence in CUSTOMER SERVICE are vital differences created at Teledyne Impulse.

At Teledyne Impulse we gear all our efforts to one simple conclusion:

CUSTOMER SATISFACTION

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GENERAL INFORMATION

GENERAL SPECIFICATIONS

CONTACT CURRENT CAPACITY AND DIMENSIONS

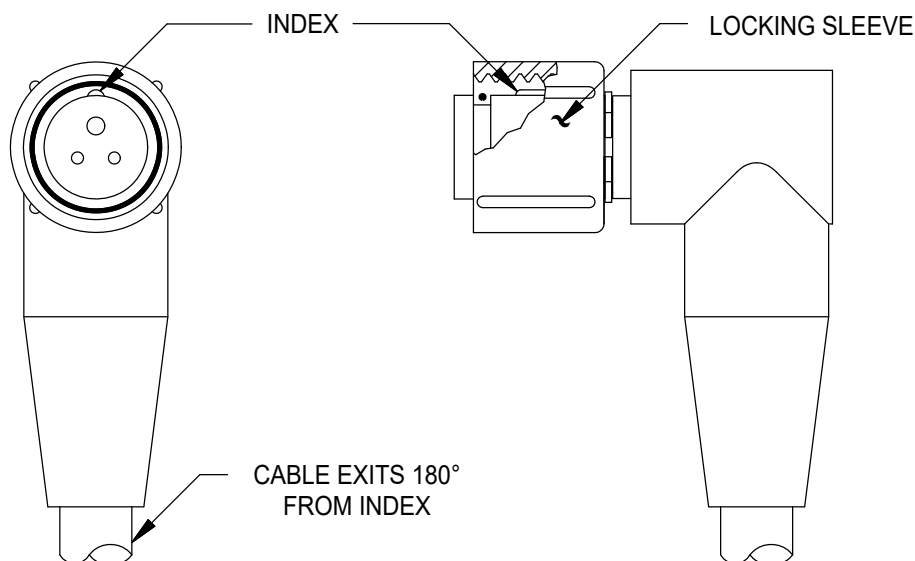
(Current capacities shown are for single contact only and do not reflect connector or cable current capacity.)

AMERICAN WIRE GAUGE (AWG)	AMP/CAPACITY	DIA/INCHES	MM ²
#1/0 AWG	200	.355	65.8
#4 AWG	65	.255	31.7
#6 AWG	55	.218	24.1
#8 AWG	40	.156	12.3
#10 AWG	25	.125	7.9
#12 AWG	20	.110	6.1
#14 AWG	15	.093	4.4
#16 AWG	12	.062	1.9
#20 AWG	3	.038	0.73
#22 AWG	2	.031	0.48

HEX DIMENSIONS

DIMENSION ACROSS FLATS	APPROX OVERALL DIAMETER	DIMENSION ACROSS FLATS	APPROX OVERALL DIAMETER
.37	.43	1.25	1.45
.62	.73	1.375	1.59
.75	.87	1.50	1.73
.875	1.02	1.625	1.88
.90	1.04	1.75	2.02
1.00	1.16	2.00	2.31
1.12	1.30	2.50	2.89

RIGHT ANGLE CONNECTOR INDEXING



TELEDYNE IMPULSE OFFICES

USA

Teledyne Impulse
9855 Carroll Canyon Rd.
San Diego, CA 92131
Tel: +1-858-842-3100
Fax: +1-858-565-1649
E-Mail: impulse@teledyne.com
Web: www.teledyneimpulse.com

Teledyne Interconnect Solutions - Headquarters
9215 Premier Row
Dallas, TX 75247
Tel: +1-214-637-1381
E-mail: tis@teledyne.com
Web: www.teledyneinterconnect.com

EUROPE

Teledyne Impulse-PDM
4-6 Alton Business Centre
Omega Park
Alton, Hampshire GU34 2YU
United Kingdom
Tel: +44(0)1420-85848
Fax: +44(0)1420-84288
E-Mail: pdmsales@teledyne.com
Web: www.teledyneimpulse-pdm.com

TELEDYNE IMPULSE REPRESENTATIVES AND DISTRIBUTORS

NORTH AMERICA

USA

Survey Equipment Services Inc.
1775 Westborough Drive Katy,
TX 77449
Tel: +1-281-829-6481
E-mail: info@ses-services.com
Web: www.ses-services.com

CANADA

TeraMara Technologies Inc
10 Park Rd
Kensington, PEI
Canada C0B 1M0 CANADA
Tel: +1.902.431.9285
Email: sales@teramara
Web: www.terramara.ca

TERMS AND CONDITIONS OF SALE

Teledyne Impulse Terms and Conditions of Sales can be found on our web site.

www.teledyneimpulse.com

BREAKOUTS

DESCRIPTION AND MATERIAL

- Molded neoprene or polyurethane.
- Cable jacket and conductor insulation determines overmold material.
- Number of conductors and cable diameter determines size of mold.
- Custom molds to customer specifications available upon request, contact factory for details.
- Up to 10,000psi.

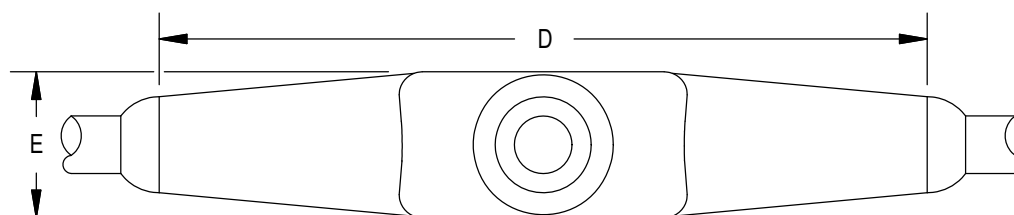
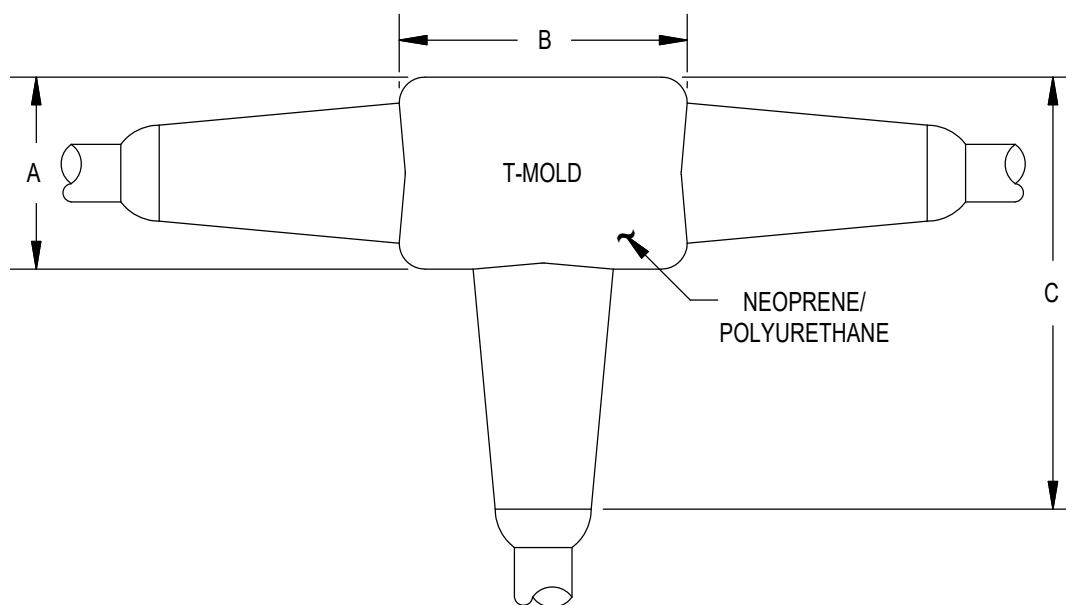
USES

- Splicing cable.
- Breakout to several cables.
- Connect multiple devices to one main line.
- Economic pressure proof junction box.

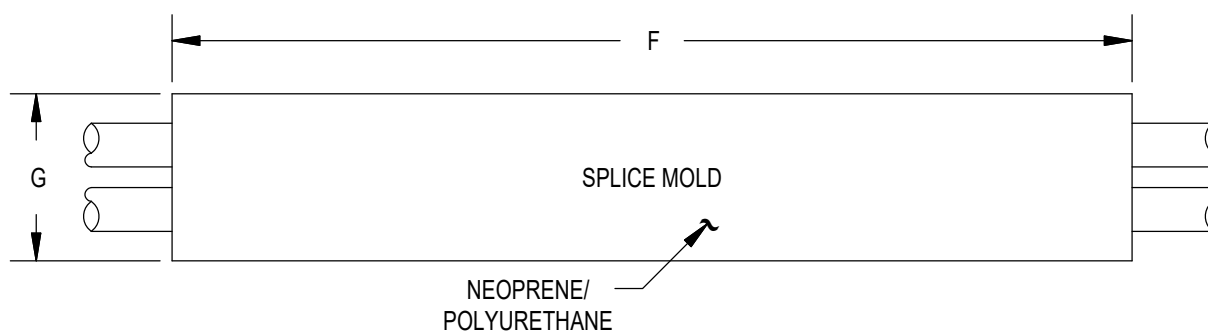
GUIDELINES

- Elastomers can be seriously degraded if exposed to direct sunlight or high ozone levels for extended periods of time.

BREAKOUTS

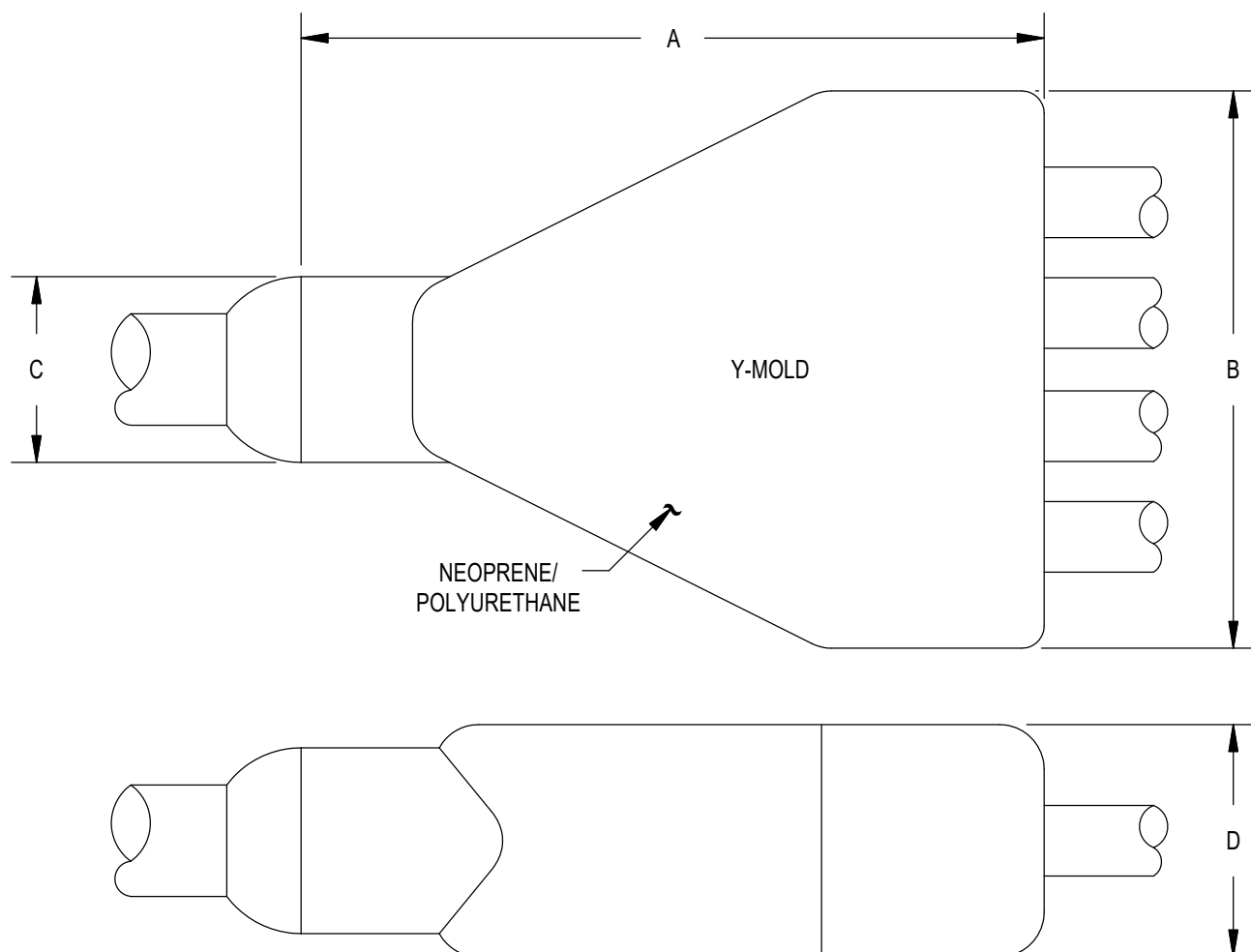


T-MOLDS					
SIZE	A	B	C	D	E
T-15	1.00	1.50	2.25	4.00	.75
T-20	1.50	2.00	3.25	5.45	1.36



SPLICE MOLDS		
SIZE	F	G
SP-20	2.00	Ø .87
SP-30	3.00	Ø 1.50
SP-40	4.00	Ø .87
SP-46	4.60	Ø 1.14

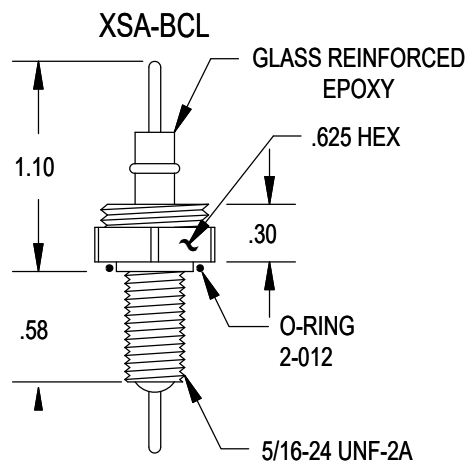
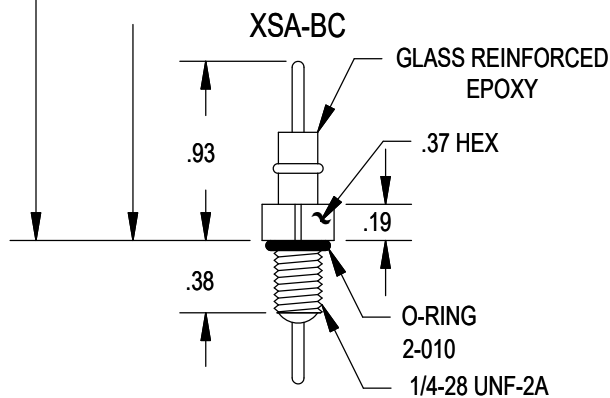
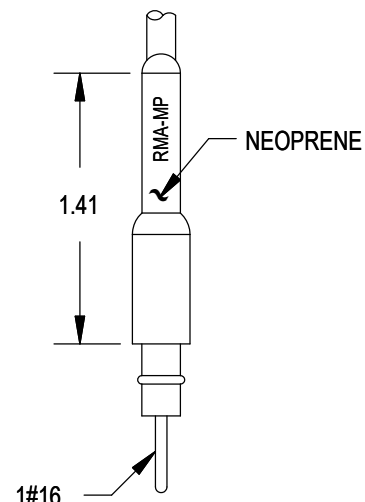
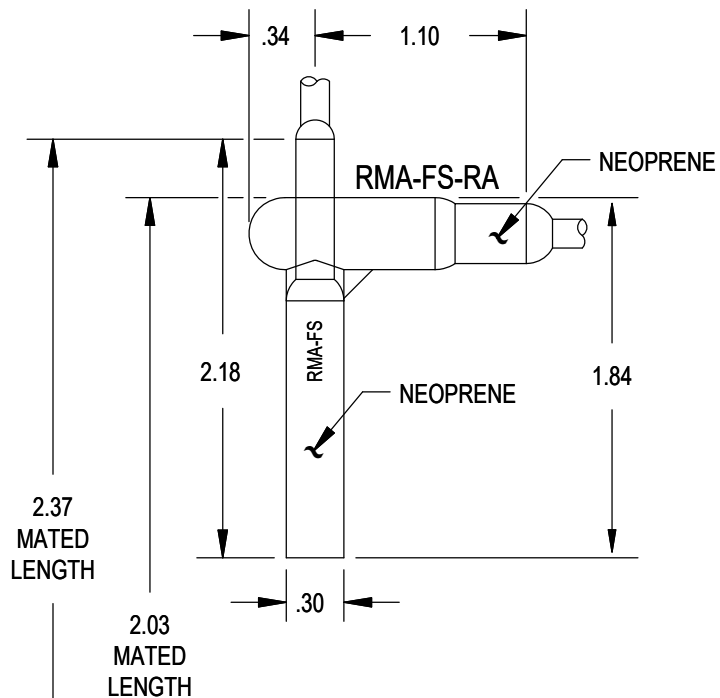
SPLICE MOLDS		
SIZE	F	G
SP-50	5.00	Ø .87
SP-50L	5.00	Ø 1.40
SP-60	6.00	Ø 2.00



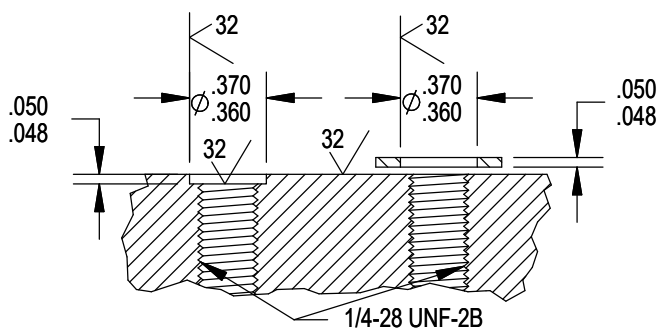
Y-MOLDS				
SIZE	A	B	C	D
Y-20	3.00	2.00	.75	.75
Y-30	4.00	2.80	1.00	1.25
Y-35	4.34	3.50	1.00	1.50
Y-45	5.50	4.40	1.25	1.75
Y-60	6.60	6.00	1.50	2.00

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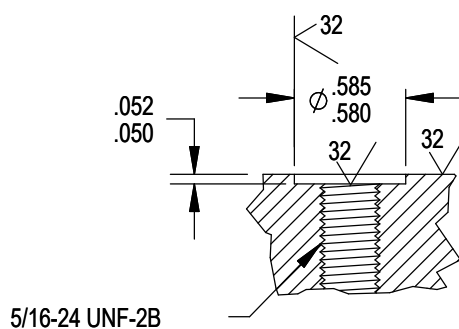
DESCRIPTION AND MATERIAL	• Molded neoprene or polyurethane (for G-size) inline connectors and glass reinforced epoxy bulkhead connectors. • One to twelve contacts. • Up to 600 VDC (For higher voltages, contact factory). • Up to 10,000 PSI in mated condition. • Bulkhead connector design open face pressure rated to 5000 psi. • Contacts gold plated per MIL-G-45204. • Field installable connectors with locking sleeve available. • Field installable connectors have a removable tapered boot for easy access to solder pots during field installation.
CABLE	• Connector's amperage and voltage may be limited by amperage and voltage rating of cable to which connector is molded. • Inline connectors in this series, except field installables, are provided on a standard 24" length of 18 AWG SO cable unless otherwise specified. (Note: RMA provided on 24" length of 20 AWG)
USES	• Light to medium duty applications. • Hazardous environment. • Power transmission. • Signal telemetry. • FIB - Field installable applications.
GUIDELINES	• All mounting surfaces require a 32 finish. • Accomplish mating with minimum twisting and flexing. • Align indexes. • Care must be taken not to damage or bend pins in unplugged conditions. • FS can trap water (suggest flush with alcohol and blow dry). • Lubricate MP mating side with 3M Silicone Lubricant or Dow Corning #111 Valve Lubricant or equivalent. • Lubricate o-rings with Dow Corning #111 Valve Lubricant or equivalent. • Avoid o-ring cuts and nicks. • Replace o-rings when re-using connectors. • Avoid contact with noxious solvents. • Elastomers can be seriously degraded if exposed to direct sunlight or high ozone levels for extended periods of time.



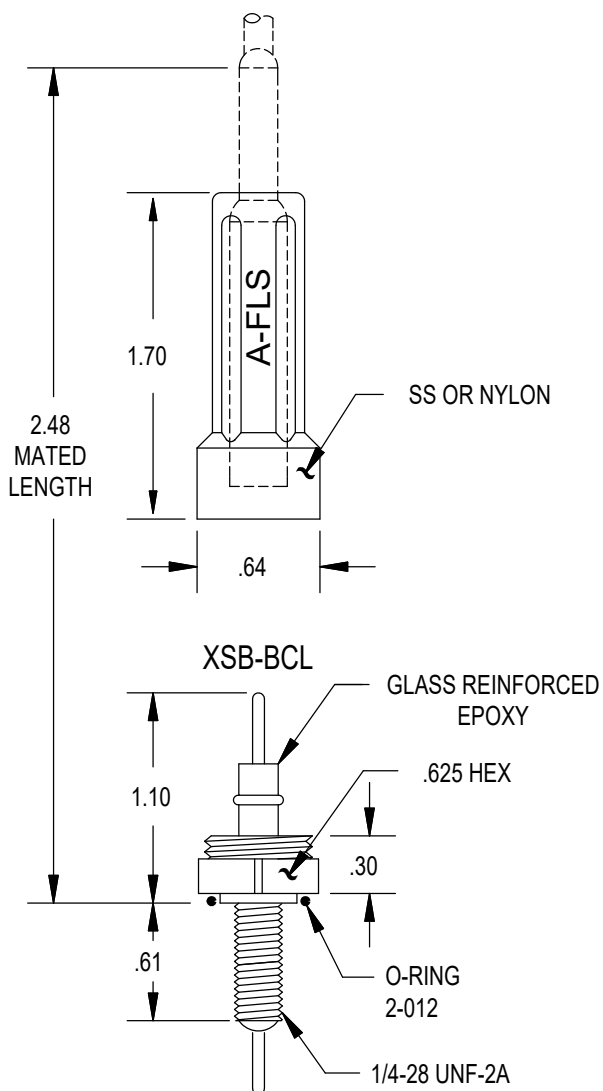
MOUNTING INSTRUCTIONS XSA-BC



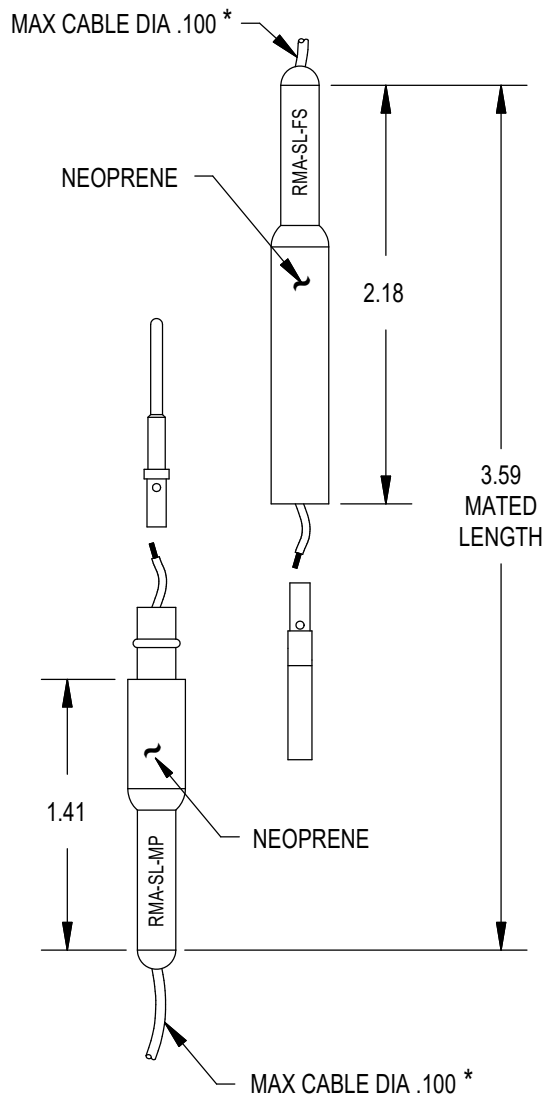
MOUNTING INSTRUCTIONS XSA-BCL



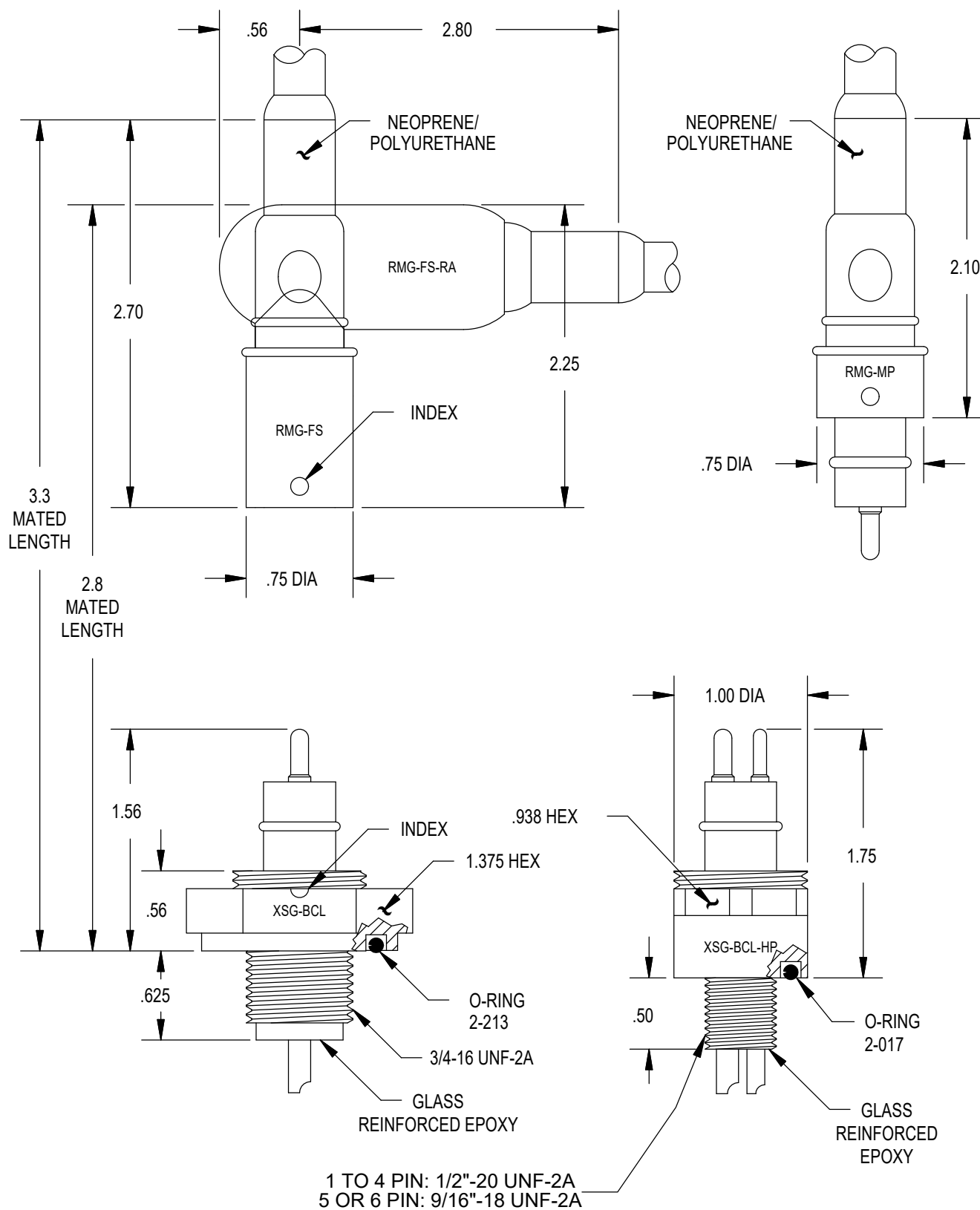
RMA-FS W/LOCKING SLEEVE

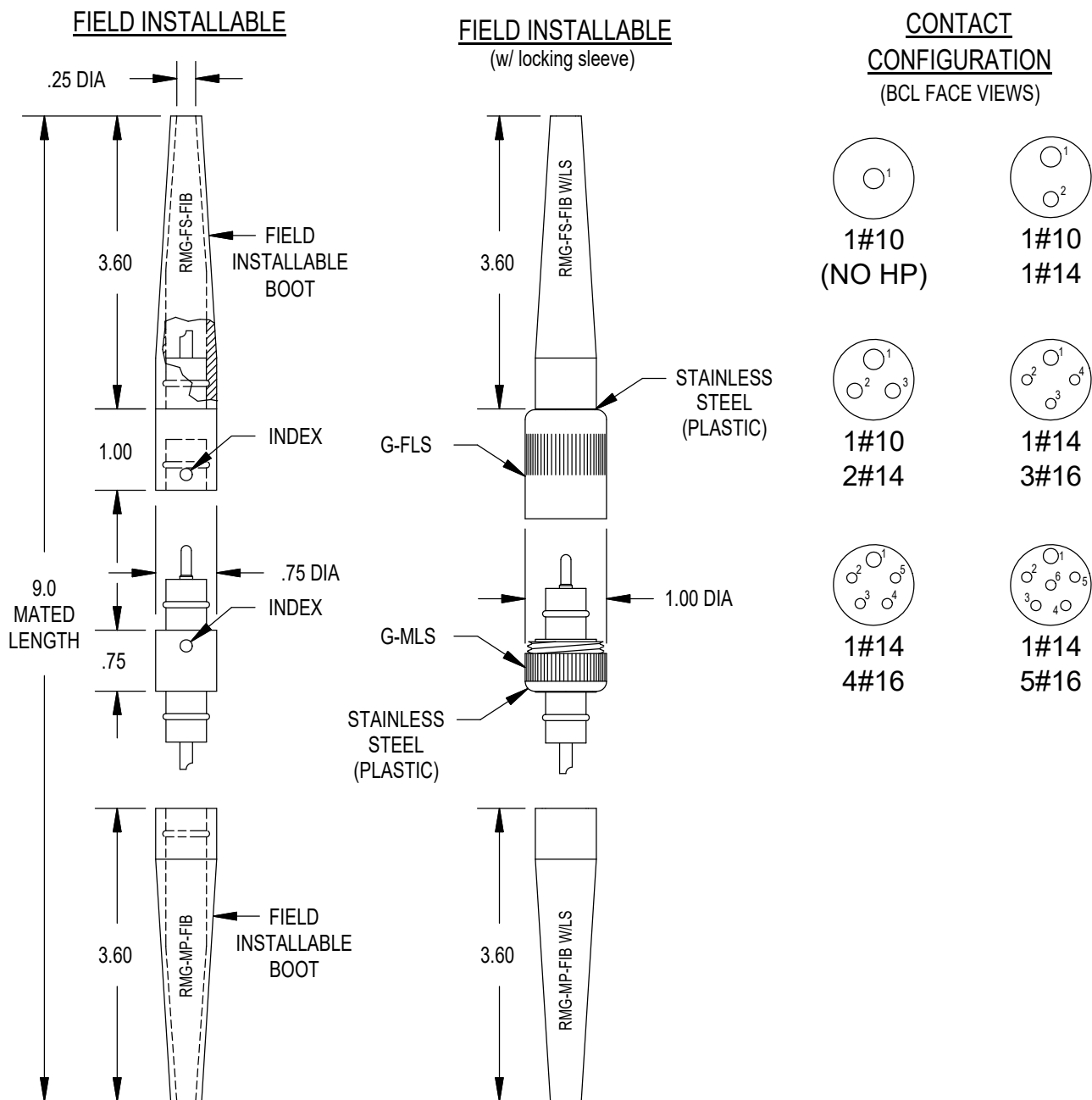


SLIP ON SERIES

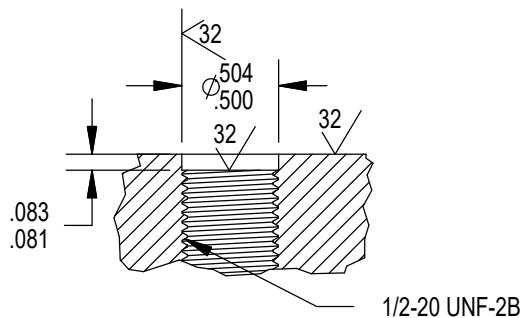
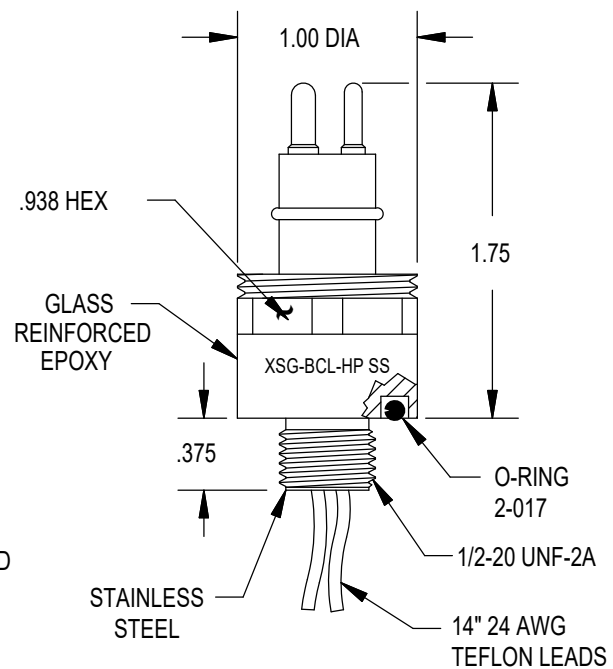
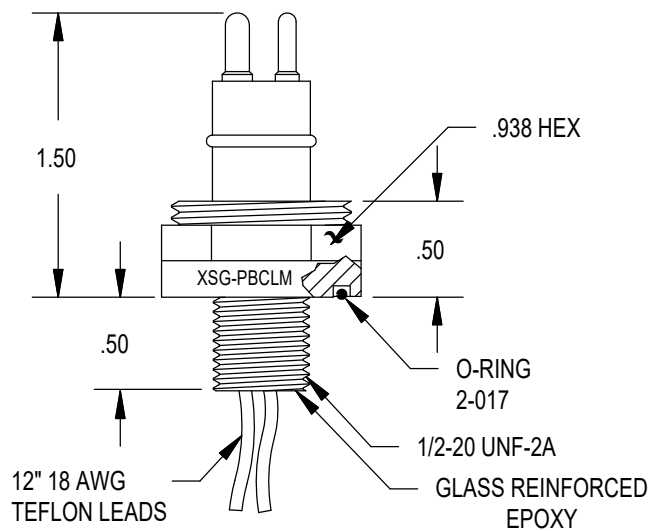
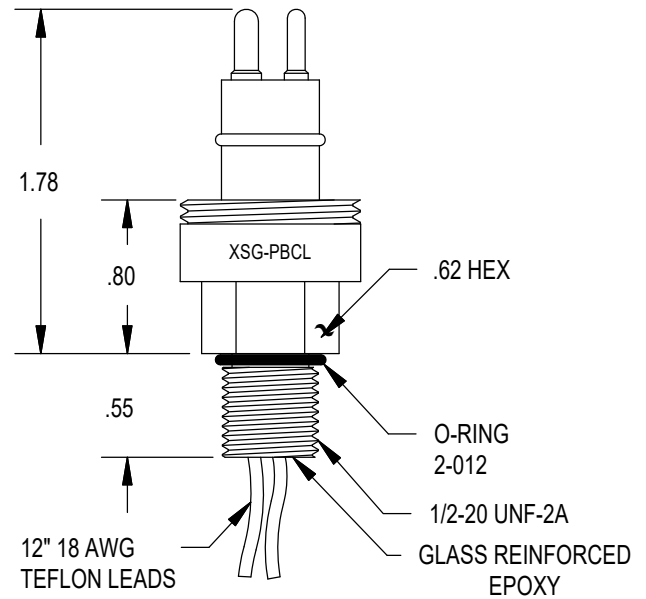
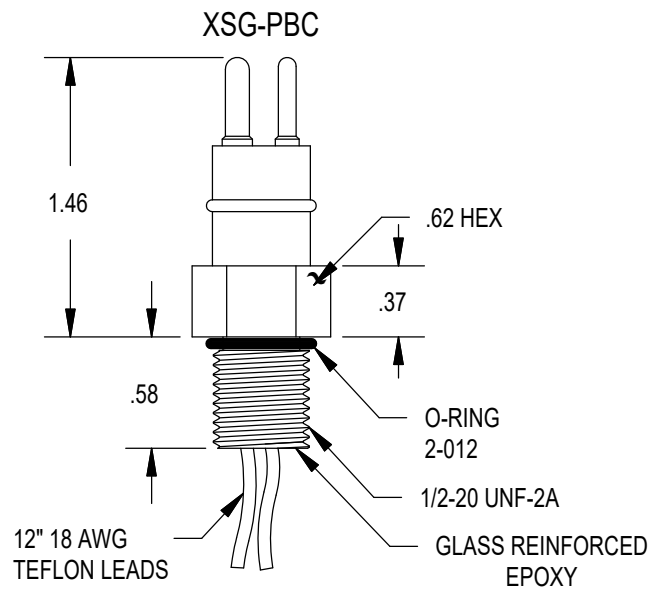


MOUNTING TORQUE FOR XSA-BC, XSB-BCL	not to exceed 6 in lbs	MOUNTING TORQUE FOR XSA-BCL	not to exceed 8 in lbs
		MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR XSA-BC/BCL, XSB-BCL, RMA-MP		DUMMY PLUG FOR RMA-FS	
RMA-FSD LP		LOW PRESSURE < 4,000 psi	RMA-MPD-LP
		HIGH PRESSURE > 4,000 psi	RMA-MPD-HP
NOTE: Locking sleeves available in plastic or stainless steel, see Technical Bulletin 20 40. * Must specify conductor diameter when ordering slip on series.			

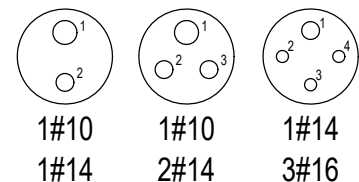




MOUNTING TORQUE FOR XSG-BCL	not to exceed 70 in lbs	MATED PRESSURE RATING (psi) FOR XSG-BCL	10,000
MOUNTING TORQUE FOR XSG-BCL-HP	not to exceed 18 in lbs	MATED PRESSURE RATING (psi) FOR XSG-BCL-HP	10,000
DUMMY PLUG FOR XSG-BCL, RMG-MP		DUMMY PLUG FOR RMG-FS	
RMG-*-FSD		LOW PRESSURE < 4,000 psi	RMG-MPD-LP
		HIGH PRESSURE > 4,000 psi	RMG-*-MPD-HP
NOTE: Locking sleeves available in plastic or stainless steel, see Technical Bulletin 20 40. * Please specify number of contacts.			



CONTACT
CONFIGURATION
(BCL FACE VIEWS)

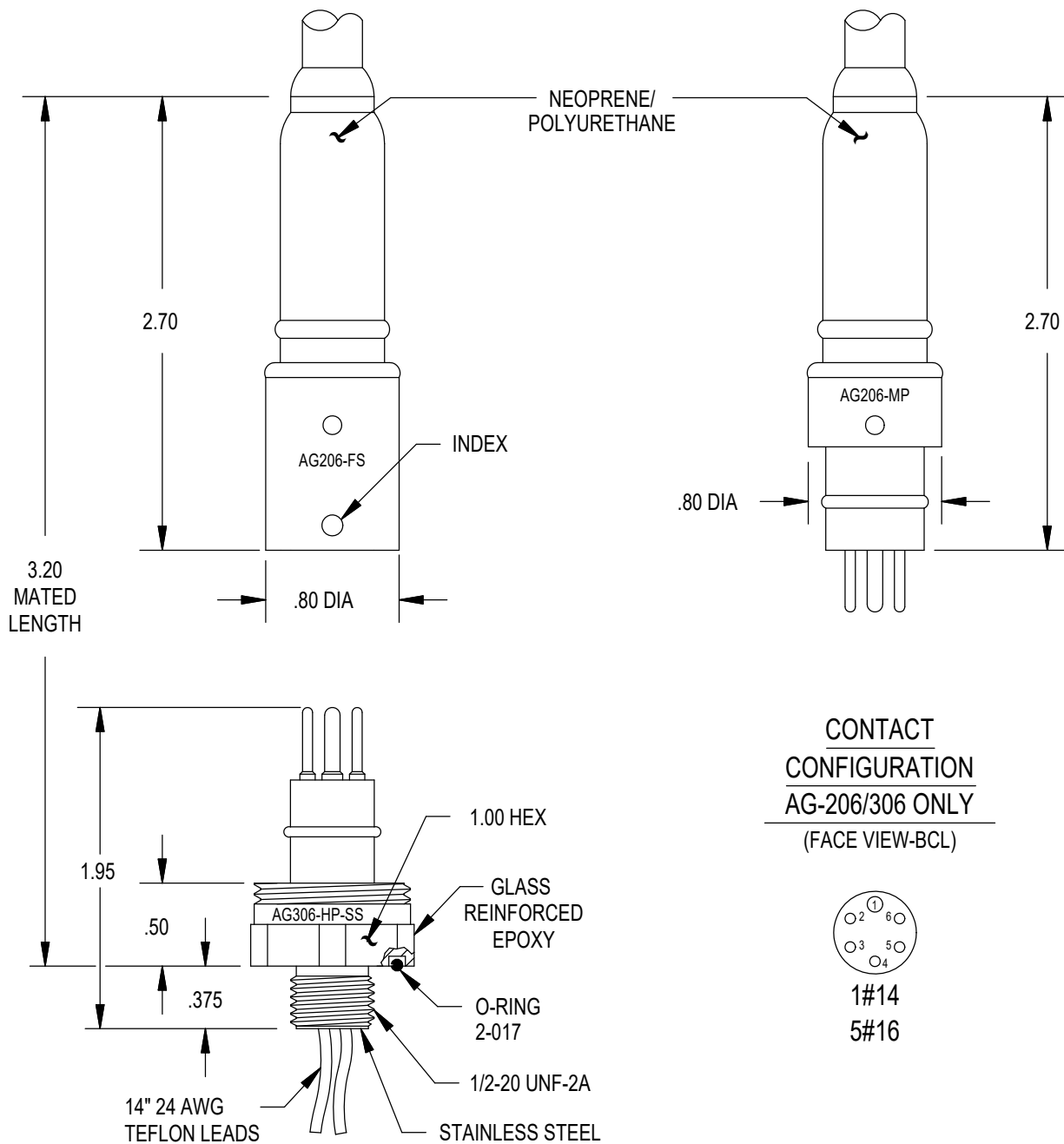


MOUNTING INSTRUCTIONS

MOUNTING TORQUE FOR XSG-PBC/PBCL/PBCLM	not to exceed 15 in lbs	MATED PRESSURE RATING (psi) FOR XSG-PBC/PBCL/PBCLM	10,000
NOTE: See Technical Bulletin 20 21 for dummy specifications.			

AG206/AG306

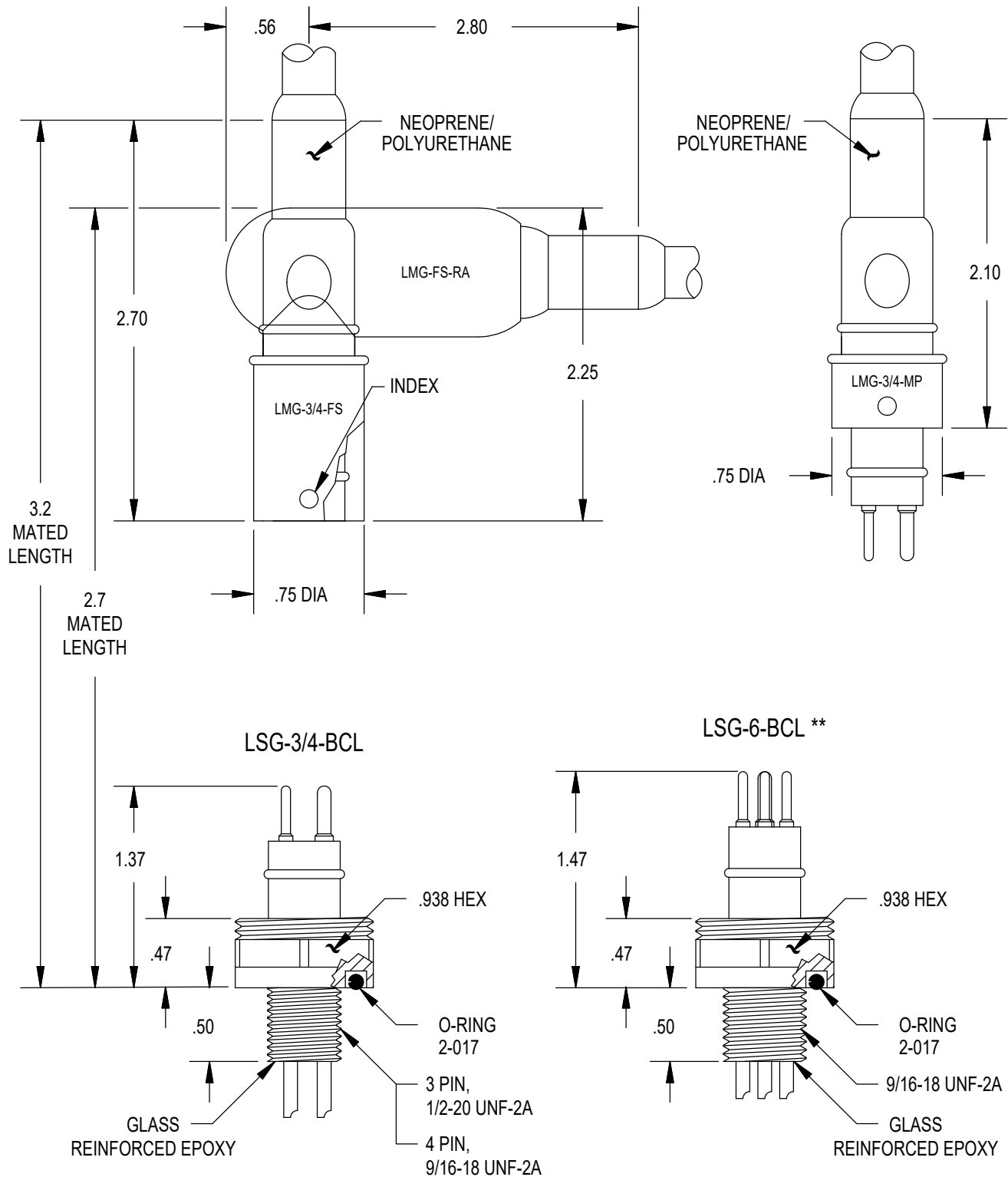
GLASS REINFORCED EPOXY /
RUBBER / POLYURETHANE MOLDED SERIES

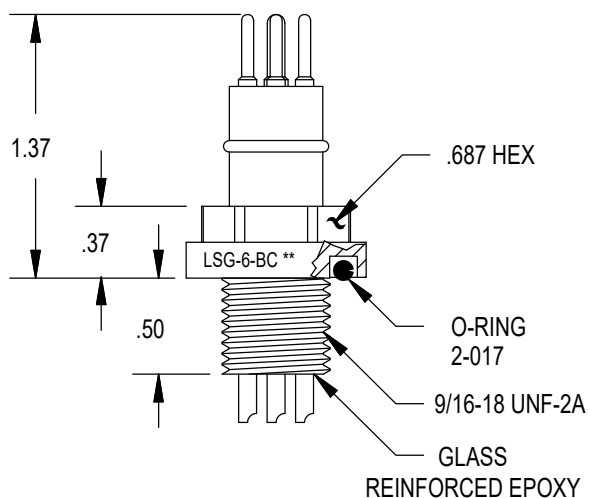
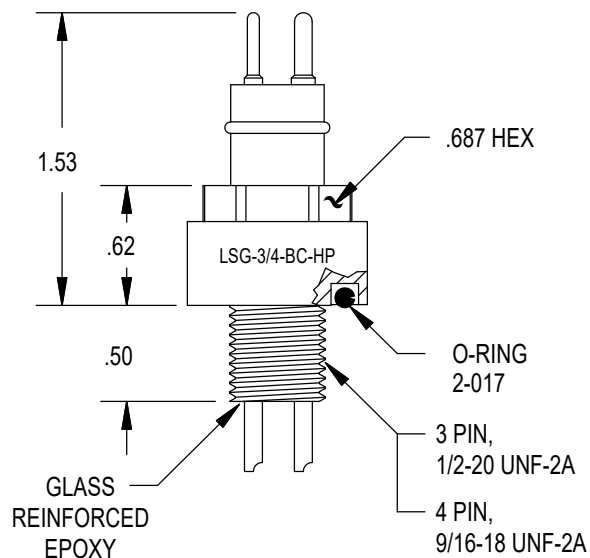
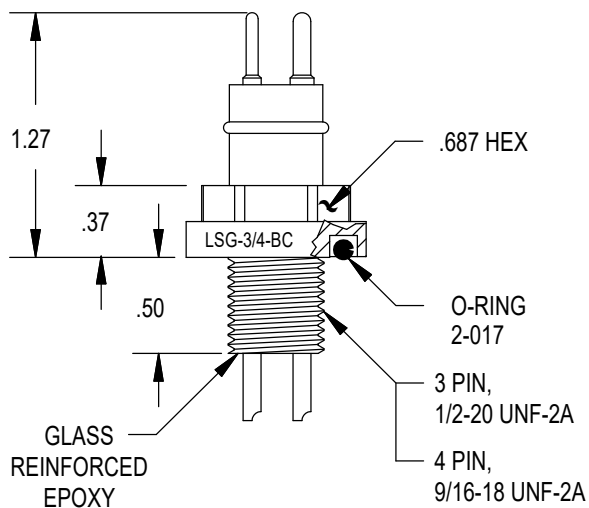


**CONTACT
CONFIGURATION
AG-206/306 ONLY
(FACE VIEW-BCL)**



MOUNTING TORQUE FOR AG-306	not to exceed 15 in lbs	MATED PRESSURE RATING (PSI)	10,000
DUMMY PLUG FOR AG-306		DUMMY PLUG FOR AG-206-FS	
AG-206-FSD		LOW PRESSURE < 4,000 psi	AG-206-MPD-LP
		HIGH PRESSURE > 4,000 psi	AG-206-MPD-HP
NOTE: Locking sleeves available in plastic or stainless steel, see Tech. Bulletin 20 40.			





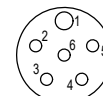
CONTACT CONFIGURATION (BCL FACE VIEWS)



1#14
2#16

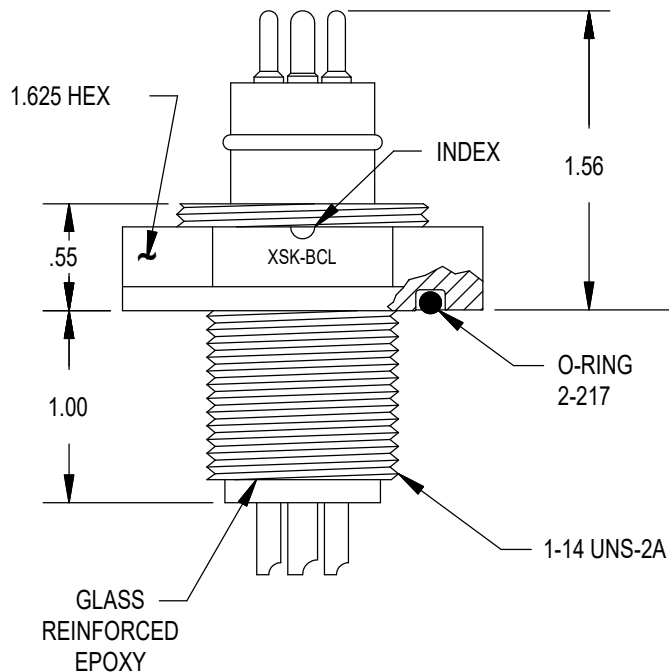
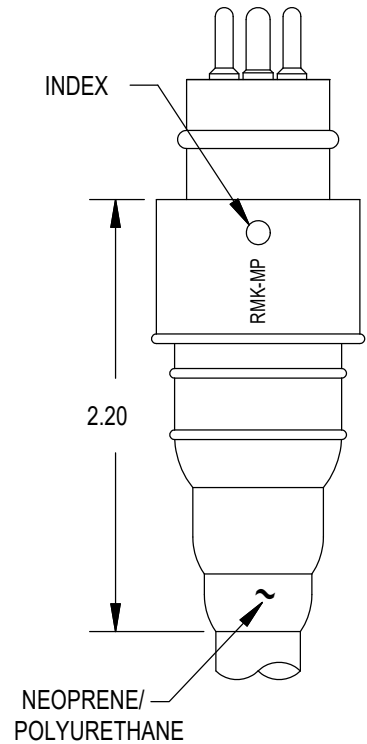
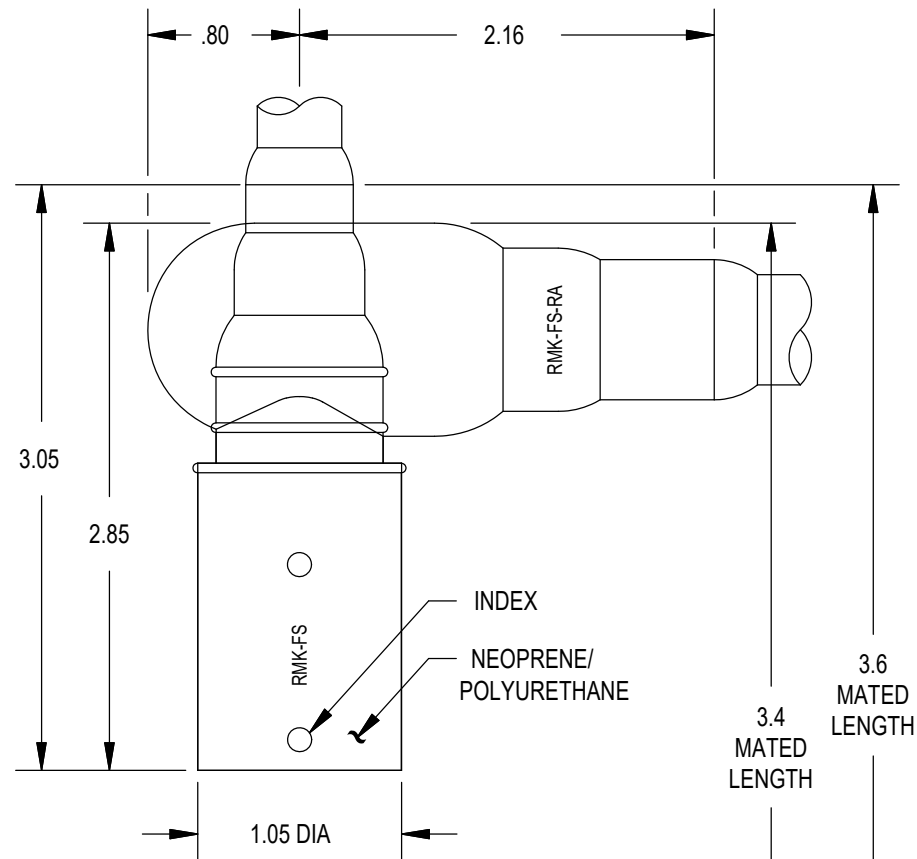


1#14
3#16

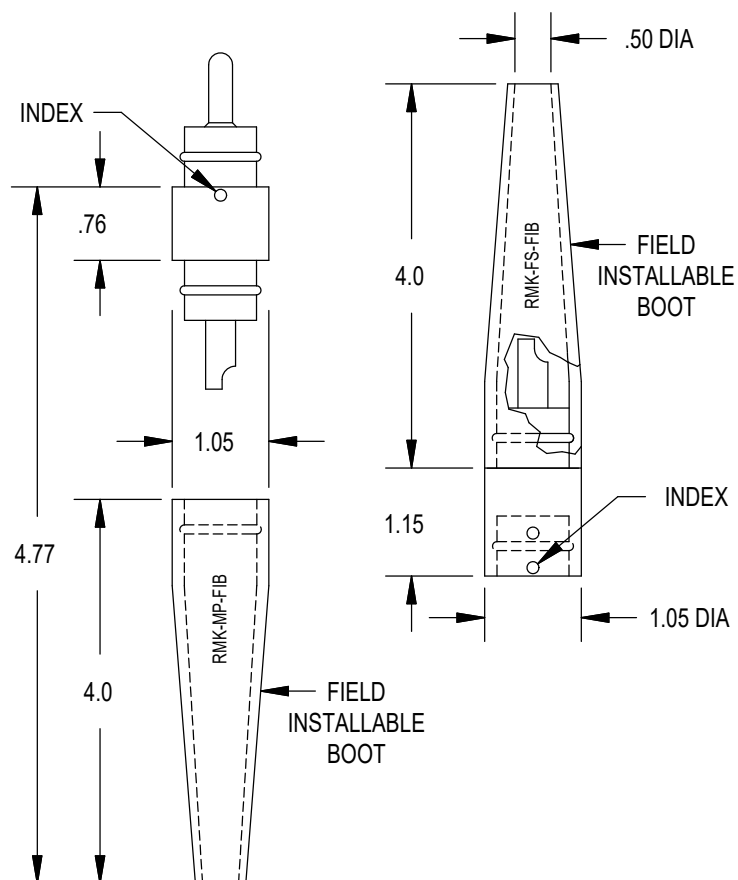


1#14
5#16

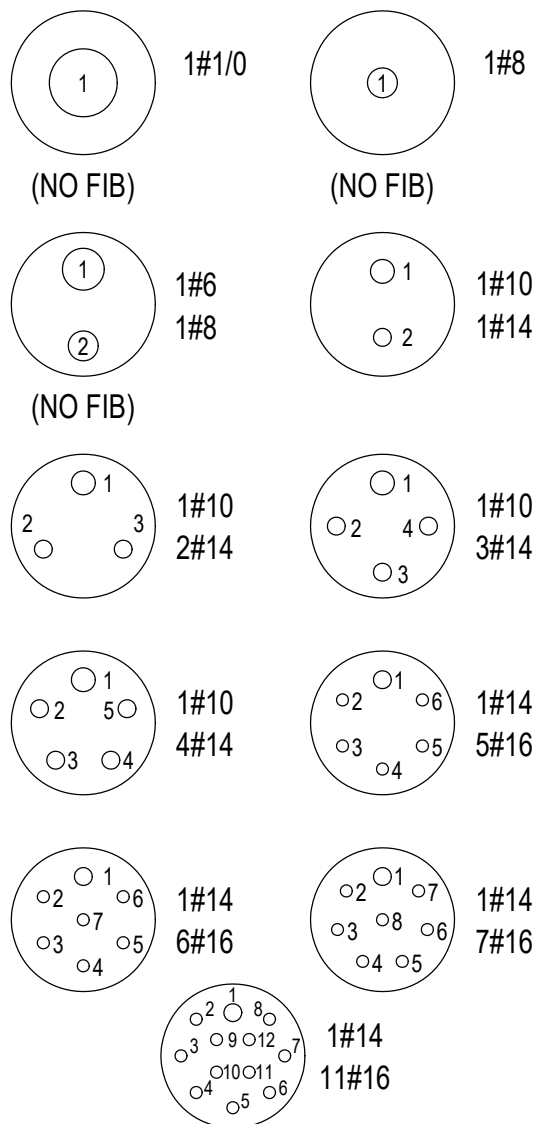
MOUNTING TORQUE FOR LSG-BCL/BC	not to exceed 18 in lbs	MATED PRESSURE RATING (psi) FOR LSG-BCL/BC	3,000
MOUNTING TORQUE FOR LSG-BC-HP	not to exceed 18 in lbs	MATED PRESSURE RATING (psi) FOR LSG-BC-HP	10,000
DUMMY PLUG FOR LSG-BCL/BC/BC-HP, LMG-MP		DUMMY PLUG FOR LMG-FS	
LMG*-FSD		LOW PRESSURE < 4,000 psi	LMG*-MPD-LP
		HIGH PRESSURE > 4,000 psi	LMG*-MPD-HP
NOTE: Locking sleeves available in plastic or stainless steel, see Technical Bulletin 20 40. * Please specify number of contacts (3 or 4).			
** LSG-6 CONNECTORS MATE TO RMG-6-FS. See Technical Bulletin 20 20.			



FIELD INSTALLABLE

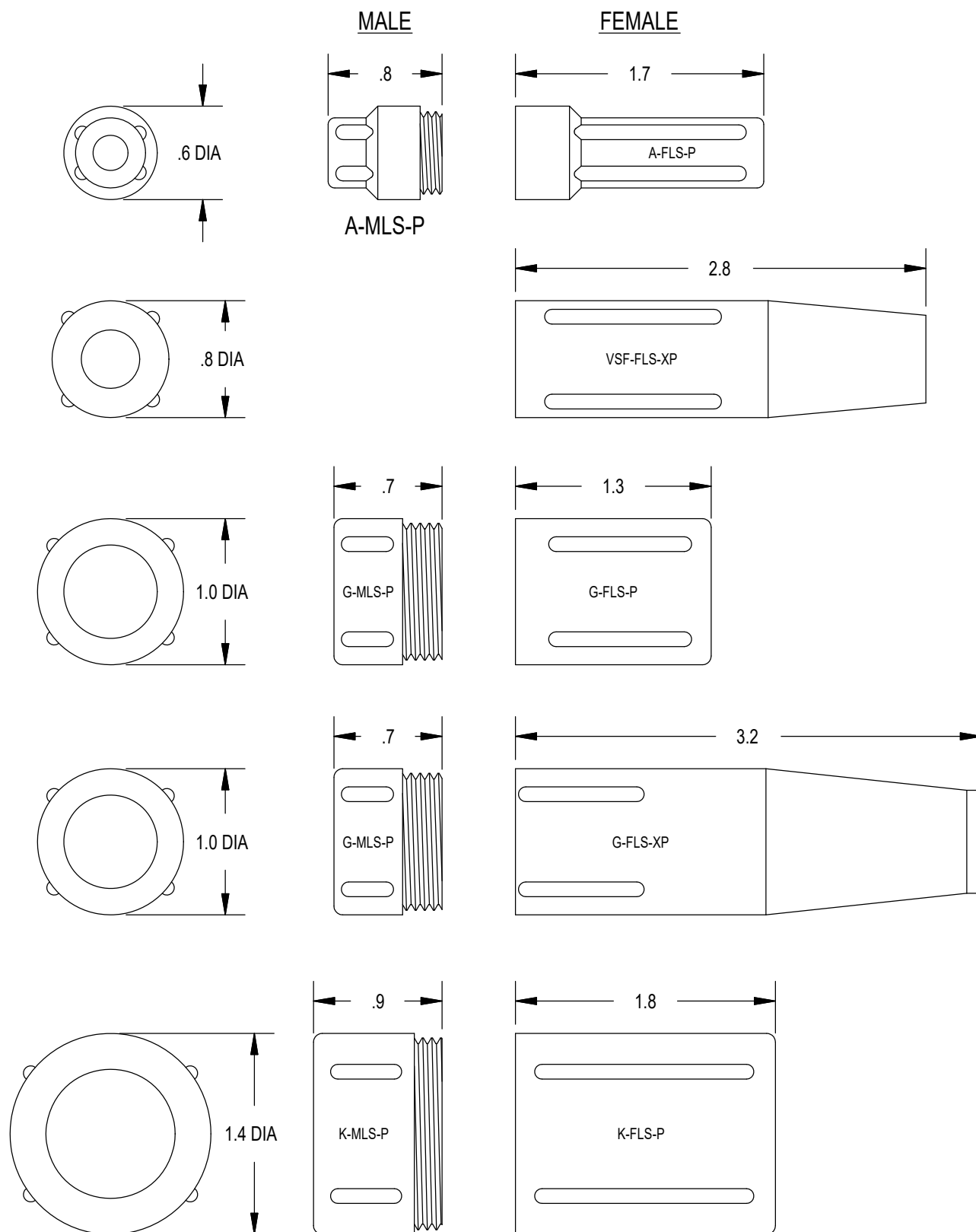


CONTACT CONFIGURATION (BCL FACE VIEWS)

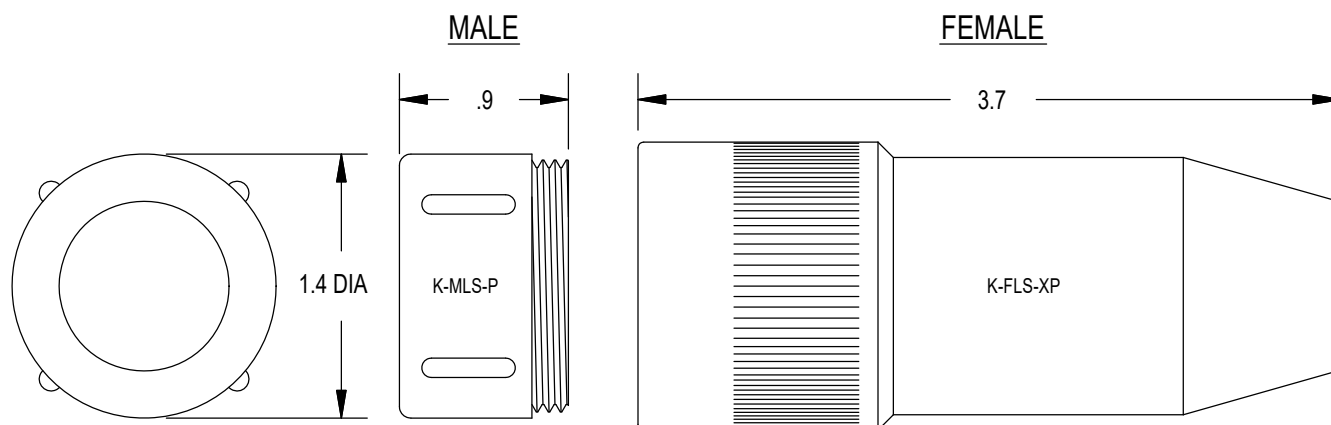


MOUNTING TORQUE FOR XSK-BCL	not to exceed 130 in lbs	MATED PRESSURE RATING (psi) FOR XSK-BCL	10,000
DUMMY PLUG FOR XSK-BCL, RMK-MP		DUMMY PLUG FOR RMK-FS	
RMK*-FSD		LOW PRESSURE < 4,000 psi	RMK-MPD-LP
		HIGH PRESSURE > 4,000 psi	RMK*-MPD-HP
NOTE: Locking sleeves available in plastic or stainless steel, see Technical Bulletin 20 40. * Please specify number of contacts.			

PLASTIC LOCKING SLEEVES

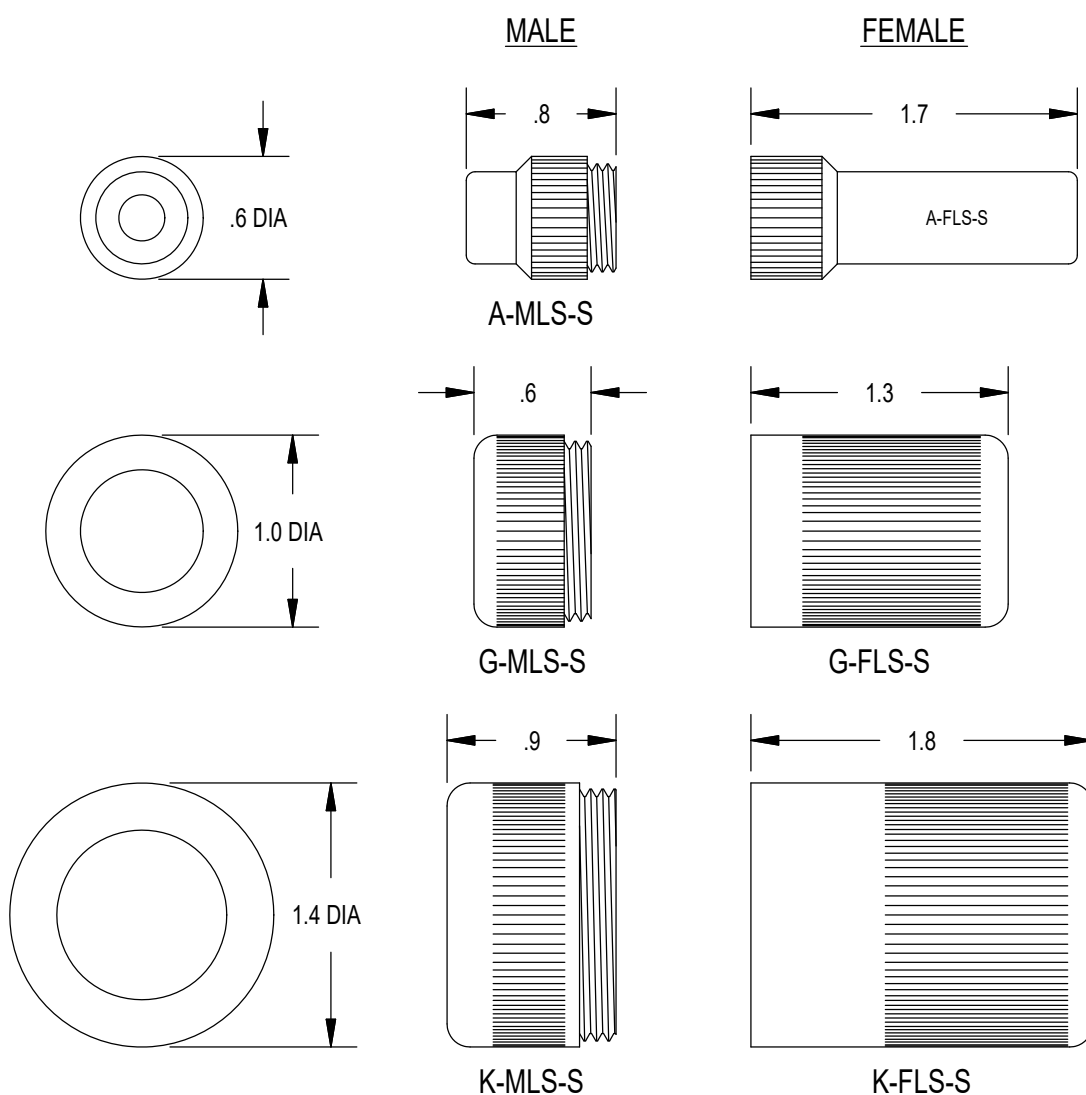


LOCKING SLEEVES



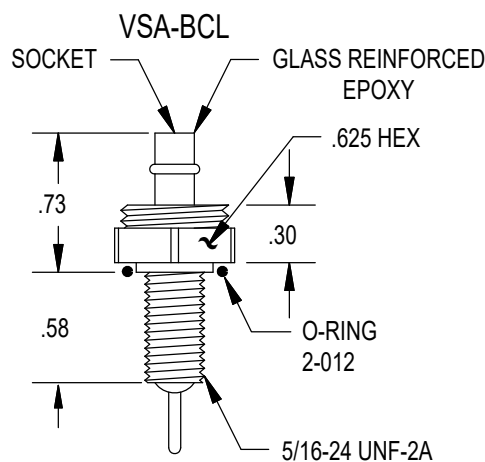
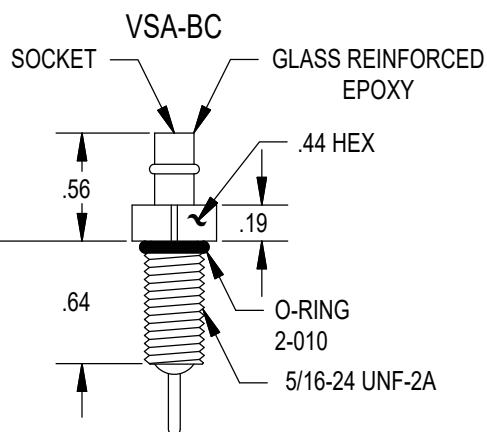
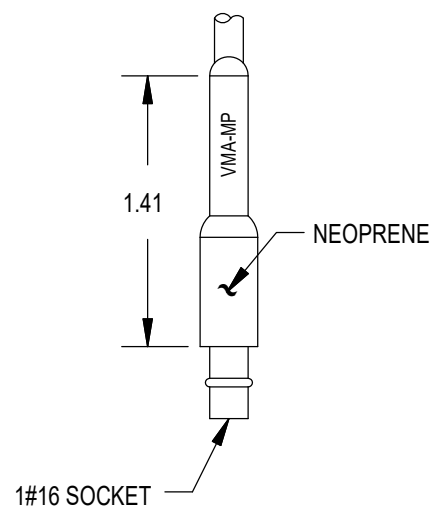
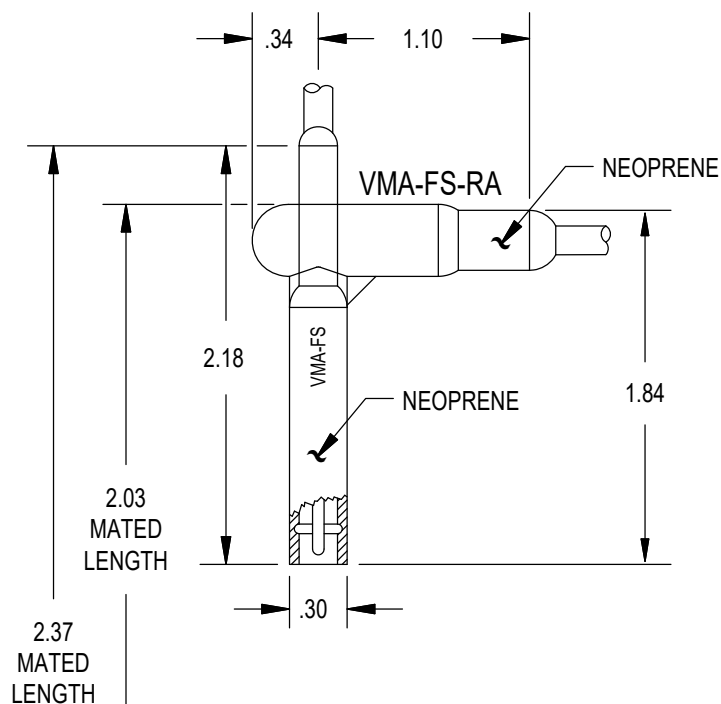
NOTE: XP is recommended to reduce conductor to contact fatigue.

STAINLESS STEEL LOCKING SLEEVES

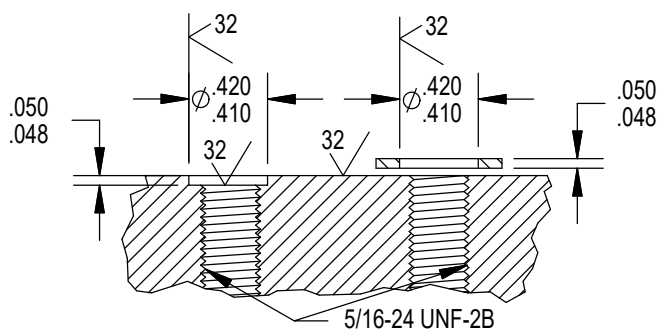


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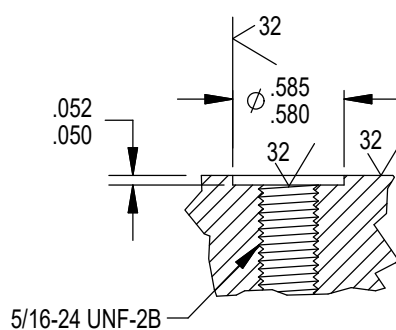
DESCRIPTION AND MATERIAL	• Identical to XS-RM connectors except sockets replace pins. • Molded neoprene or polyurethane (for G-size) inline connectors and glass reinforced epoxy, stainless steel or aluminum bulkhead connectors. • One to twelve contacts. • Up to 600 VDC (For higher voltages, contact factory). • Up to 10,000 PSI in mated condition. • Bulkhead connector design open face pressure rated to 5000 psi. • Contacts gold plated per MIL-G-45204. • Field installable connectors with locking sleeve available. • Field installable connectors have a removable tapered boot for easy access to solder pots during field installation.
CABLE	• Connector's amperage and voltage may be limited by amperage and voltage rating of cable to which connector is molded. • Inline connectors in this series, except field installables, are provided on a standard 24" length of 18 AWG SO cable unless otherwise specified. (Note: VMA provided on 24" length of 20 AWG.)
USES	• Light to medium duty applications. • Hazardous environment. • Power transmission. • Signal telemetry. • FIB - Field installable applications.
GUIDELINES	• All mounting surfaces require a 32 finish. • Accomplish mating with minimum twisting and flexing. • Align indexes. • Because sockets replace pins in this series, there is less damage potential in unplugged conditions. • FS can trap water (suggest flush with alcohol and blow dry). • Lubricate MP mating side with 3M Silicone Lubricant or Dow Corning #111 Valve Lubricant or equivalent. • Lubricate o-rings with Dow Corning #111 Valve Lubricant or equivalent. • Avoid o-ring cuts and nicks. • Replace o-rings when re-using connectors. • Avoid contact with noxious solvents. • Elastomers can be seriously degraded if exposed to direct sunlight or high ozone levels for extended periods of time.



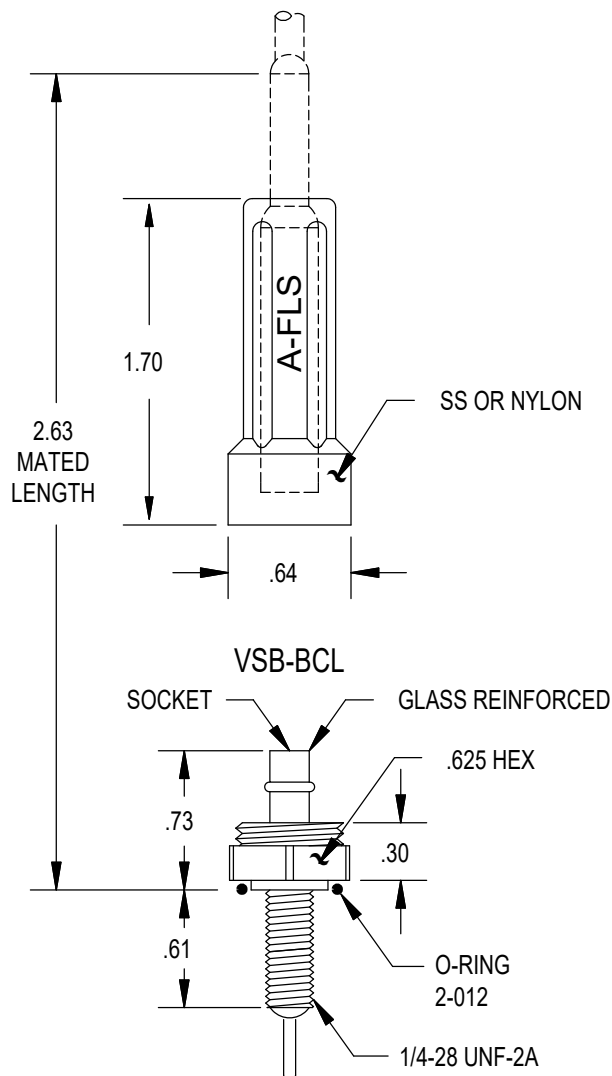
MOUNTING INSTRUCTIONS VSA-BC



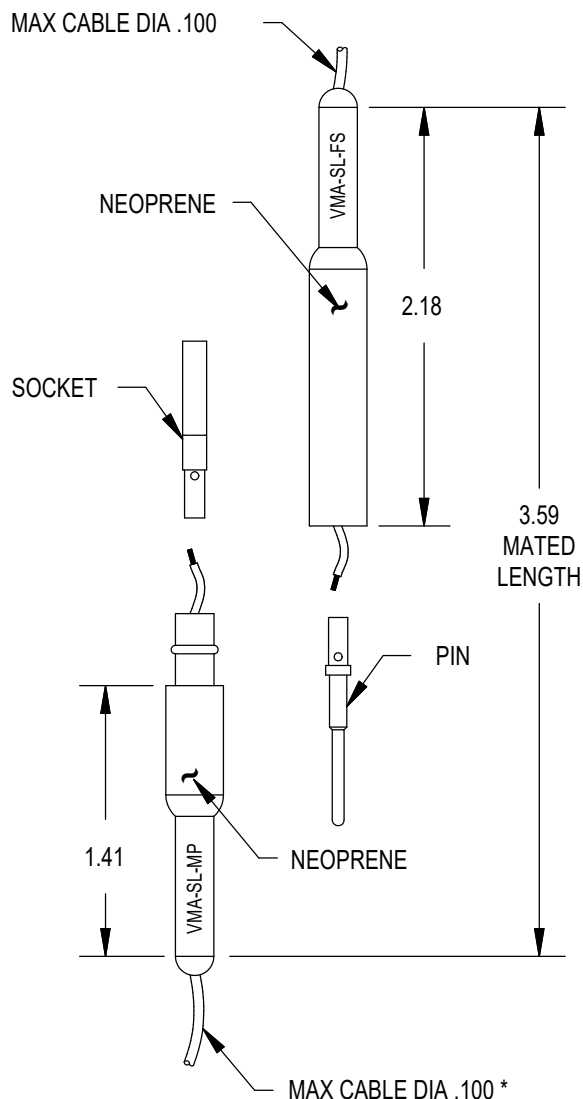
MOUNTING INSTRUCTIONS VSA-BCL



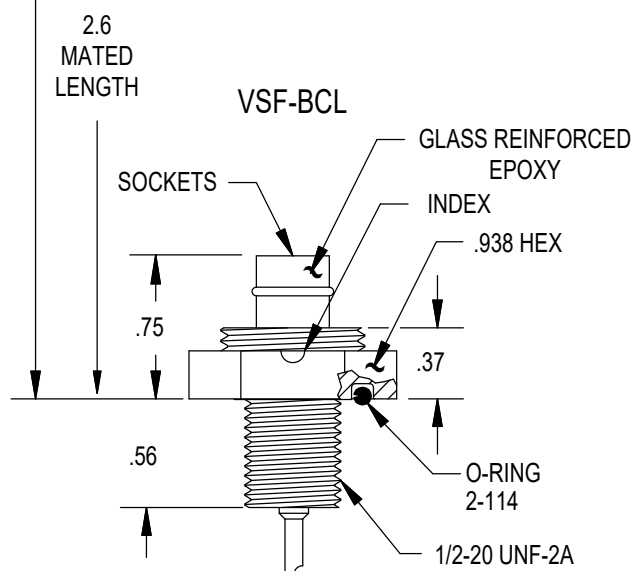
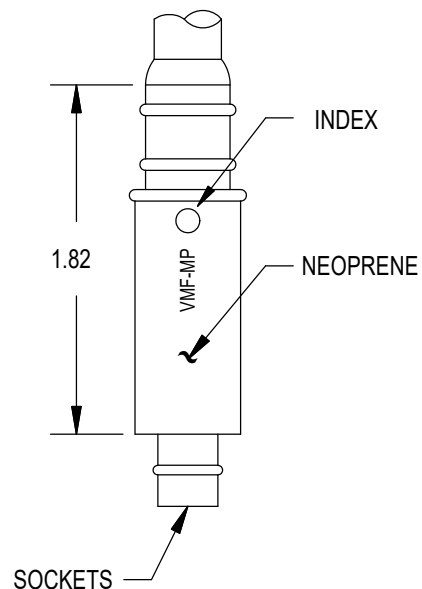
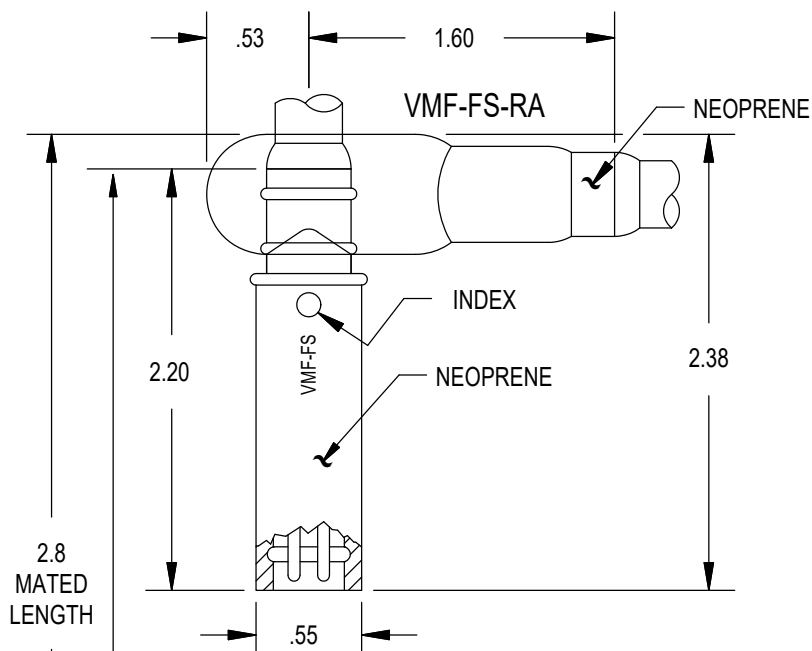
VMA-FS W/LOCKING SLEEVE



SLIP ON SERIES



MOUNTING TORQUE FOR VSA-BC	not to exceed 5 in lbs	MOUNTING TORQUE FOR VSA-BCL	not to exceed 8 in lbs
MOUNTING TORQUE FOR VSB-BCL	not to exceed 6 in lbs	MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR VSA-BC, VSA-BCL, VSB-BCL, VMA-MP		DUMMY PLUG FOR VMA-FS	
LOW PRESSURE < 4,000 psi	VMA-FSD-LP	VMA-MPD	
HIGH PRESSURE > 4,000 psi	VMA-FSD-HP		
NOTE: Locking sleeves available in plastic or stainless steel, see Tech. Bulletin 25 50. * Must specify conductor diameter when ordering slip on series.			



CONTACT CONFIGURATION (BCL FACE VIEWS)



1#14



1#16

1#20



2#16

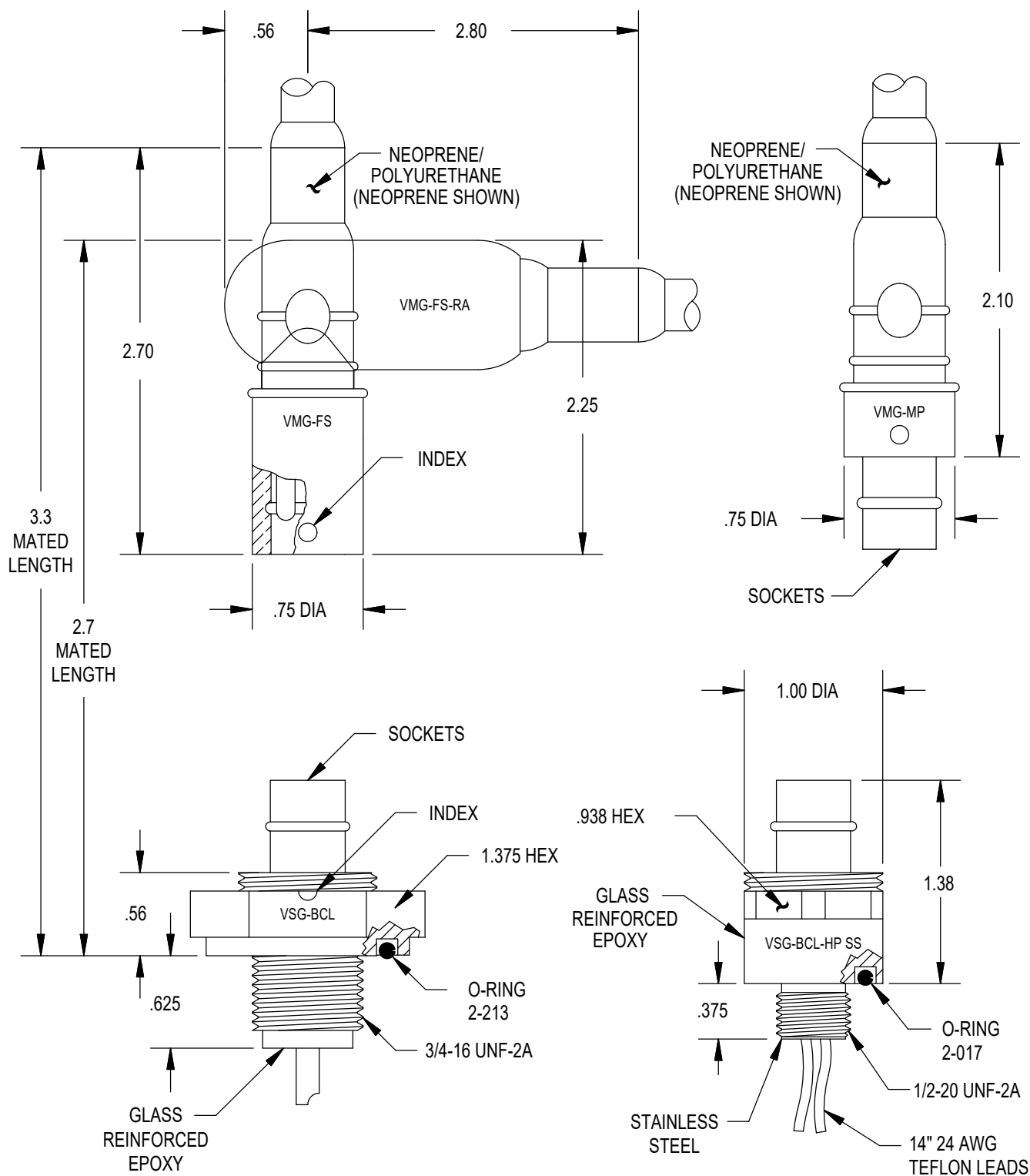


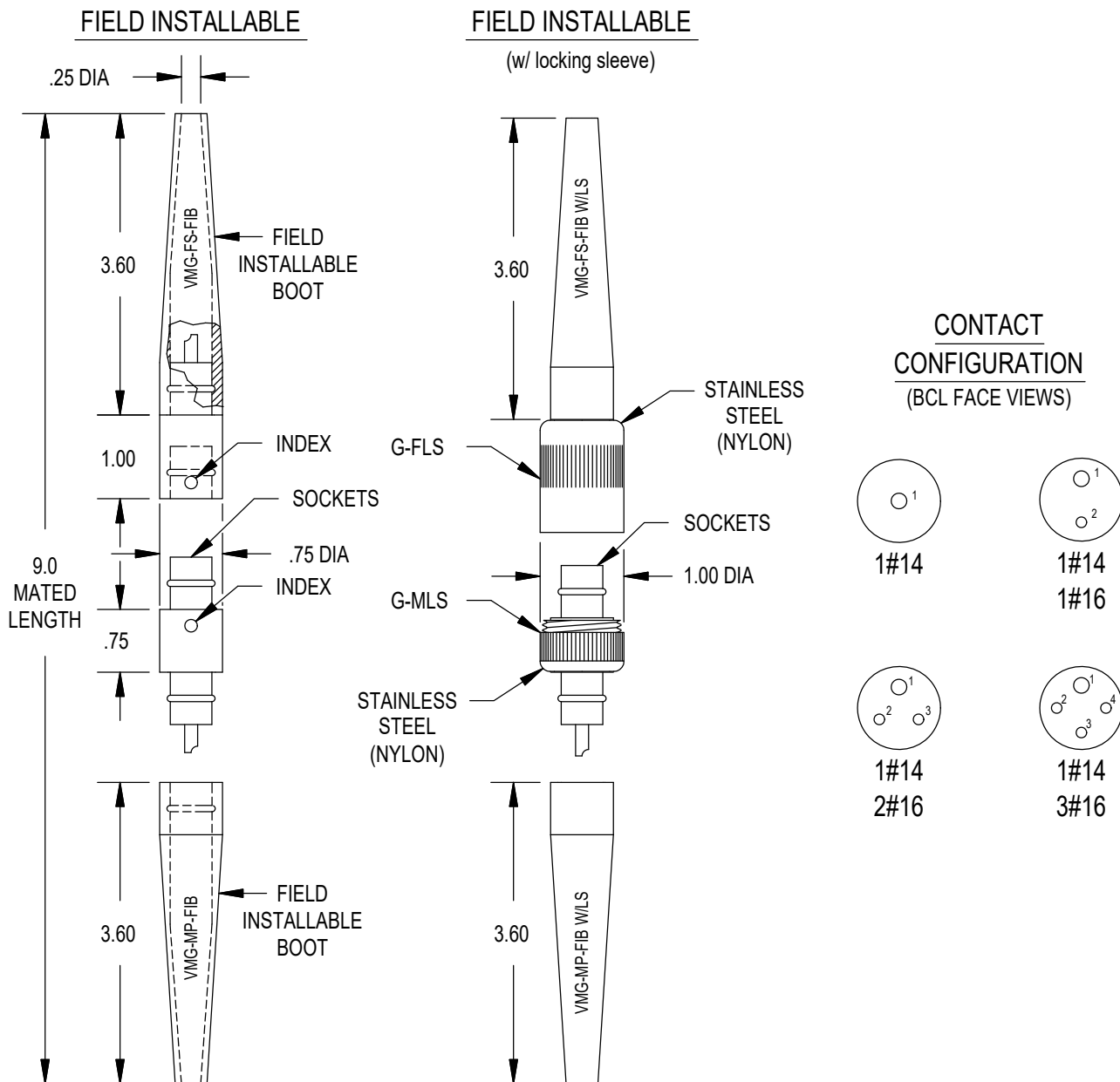
1#16

2#20

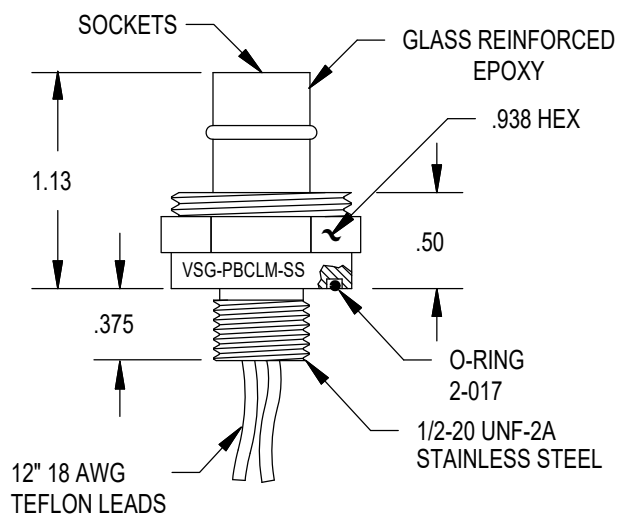
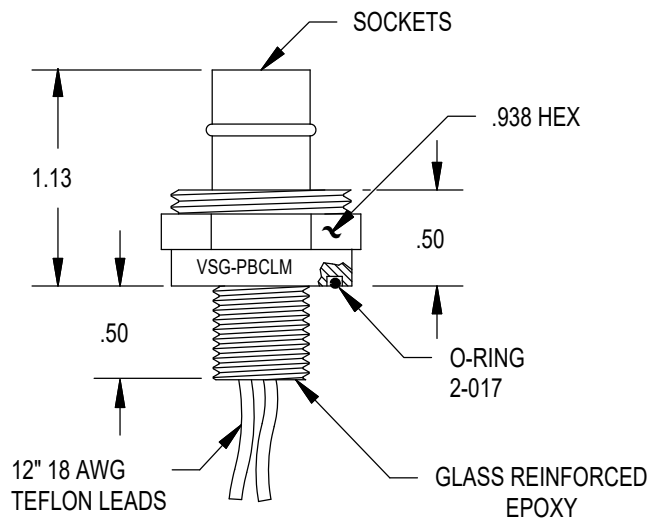
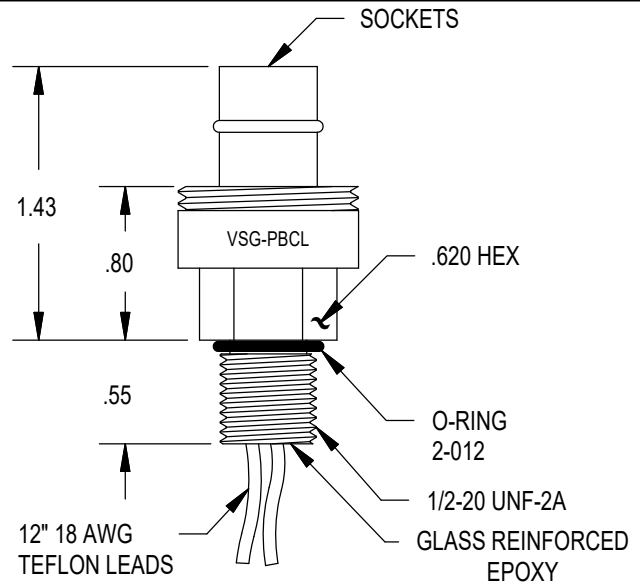
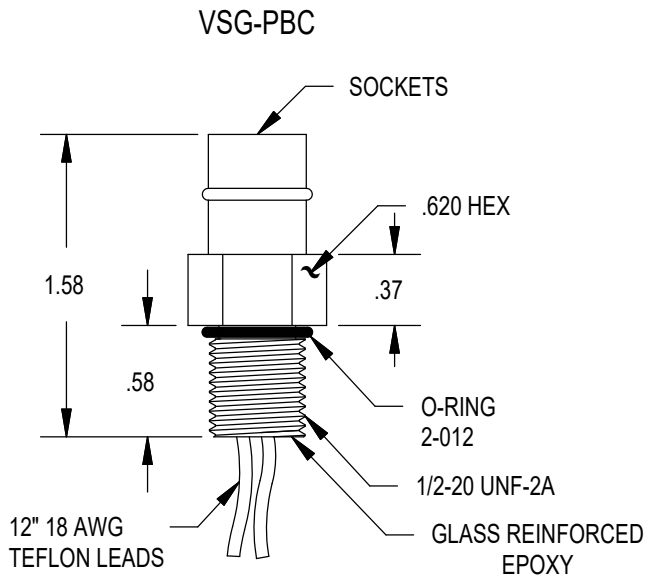
MOUNTING TORQUE FOR BCL	not to exceed 15 in lbs	MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR VSF-BCL, VMF-MP		DUMMY PLUG FOR VMF-FS	
LOW PRESSURE < 4,000 psi	VMF-FSD-LP	VMF-*MPD	
HIGH PRESSURE > 4,000 psi	VMF*-FSD-HP		
NOTE: Locking sleeves available in plastic, see Technical Bulletin 25 50. * Please specify number of contacts.			

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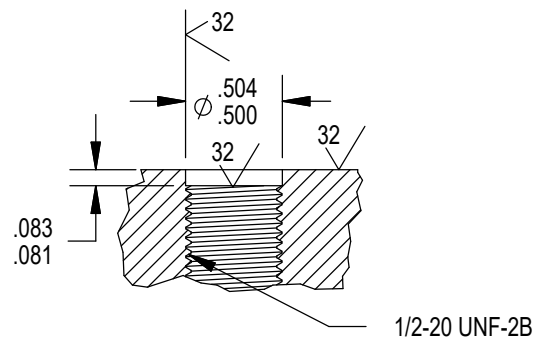




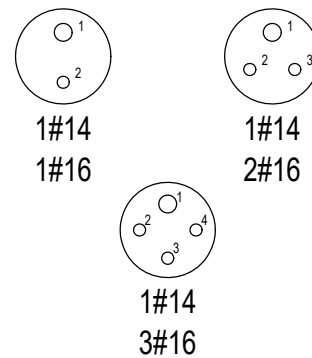
MOUNTING TORQUE FOR VSG-BCL	not to exceed 70 in lbs	MATED PRESSURE RATING (psi) FOR VSG-BCL	10,000
DUMMY PLUG FOR VSG-BCL/BCL HP SS/PBC/PBCL/PBCLM, VMG-MP		DUMMY PLUG FOR VMG-FS	
LOW PRESSURE < 4,000 psi	VMG-FSD-LP	VMG*-MPD	
HIGH PRESSURE > 4,000 psi	VMG* -FSD-HP		
NOTE: Locking sleeves available in plastic or stainless steel, see Technical Bulletin 25 50. * Please specify number of contacts.			



MOUNTING INSTRUCTIONS

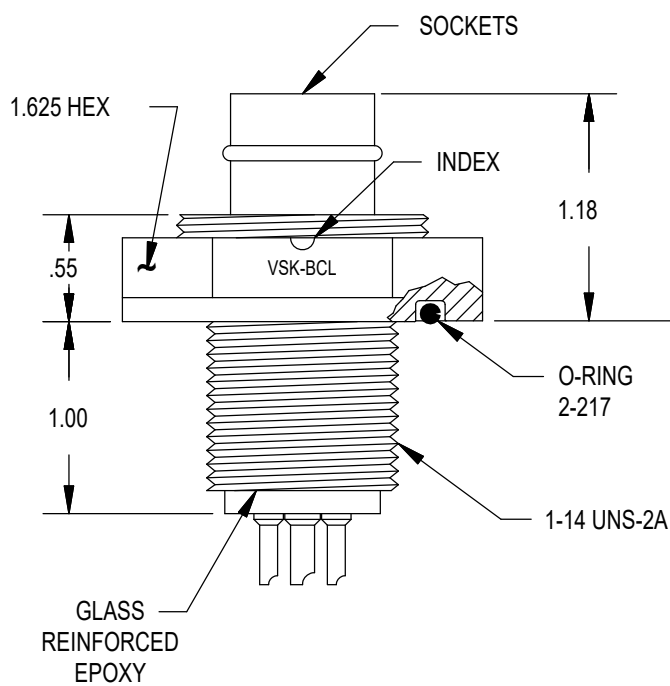
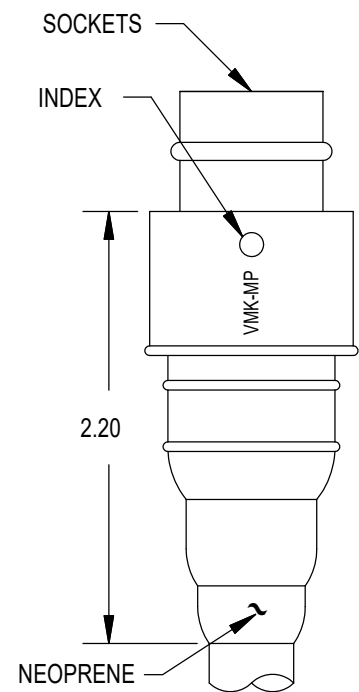
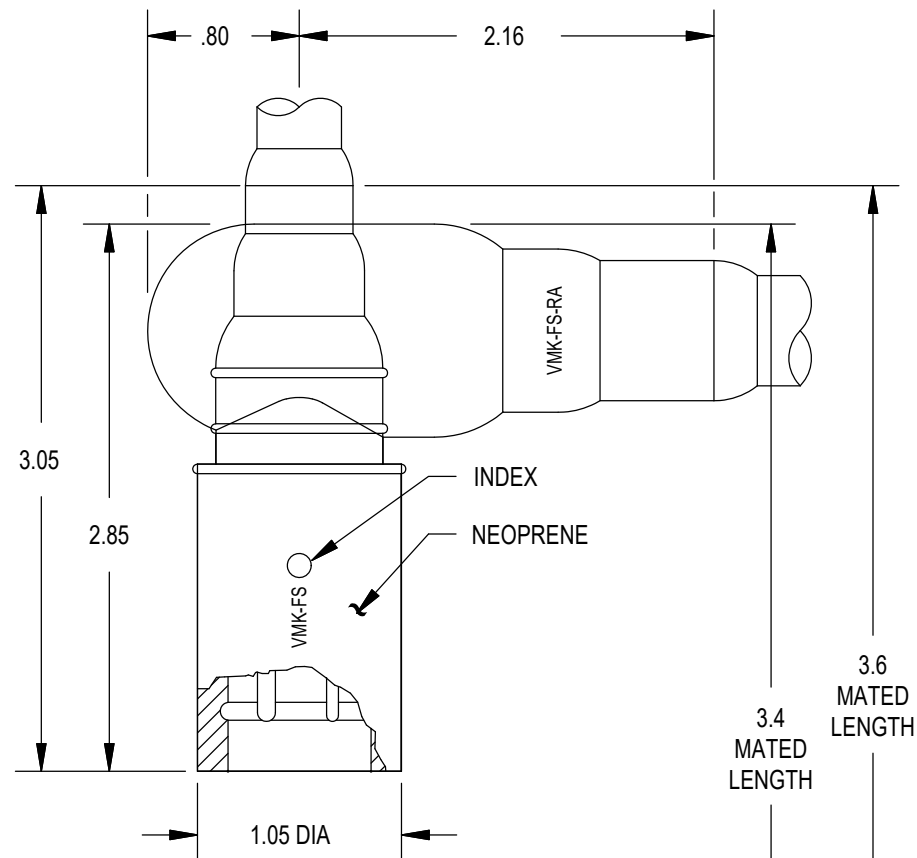


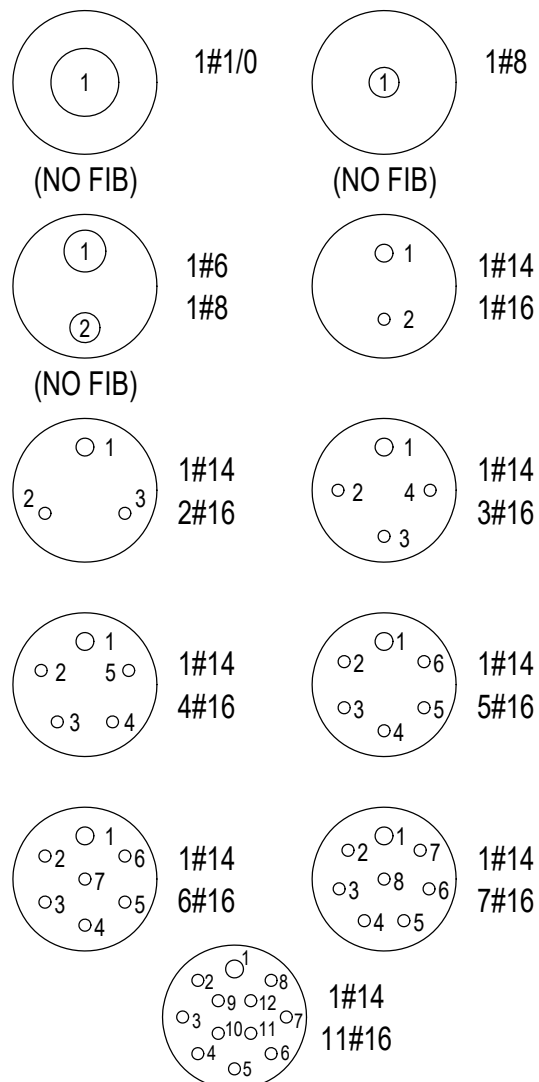
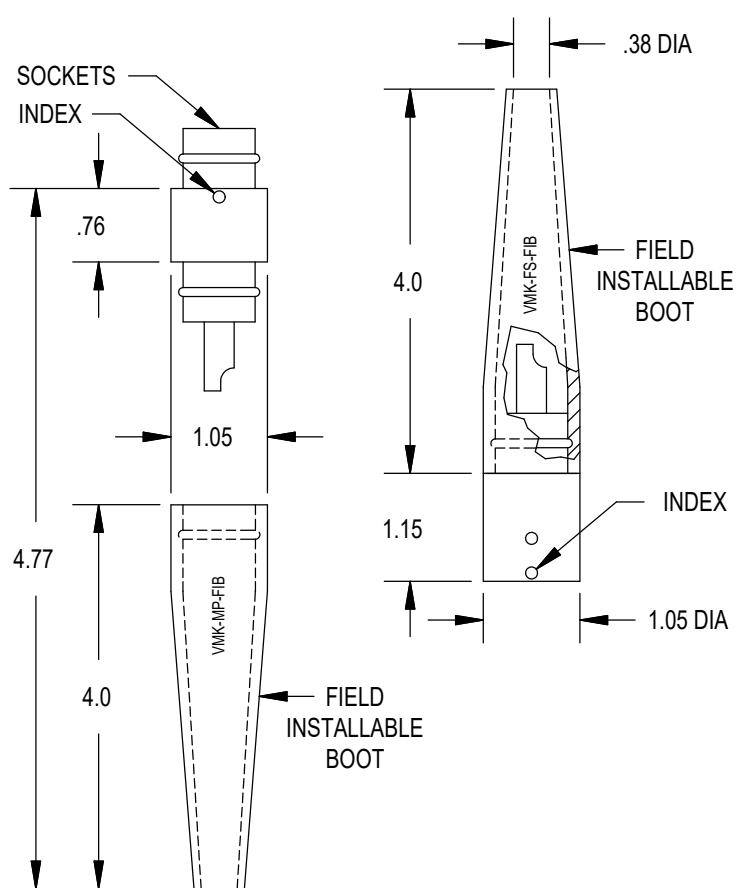
CONTACT CONFIGURATION (BCL FACE VIEWS)



MOUNTING TORQUE FOR VSG-PBC/PBCL/PBCLM	not to exceed 15 in lbs	MATED PRESSURE RATING (psi) FOR VSG-PBC/PBCL/PBCLM	5,000
NOTE: See Technical Bulletin 25 31 for dummy specifications.			

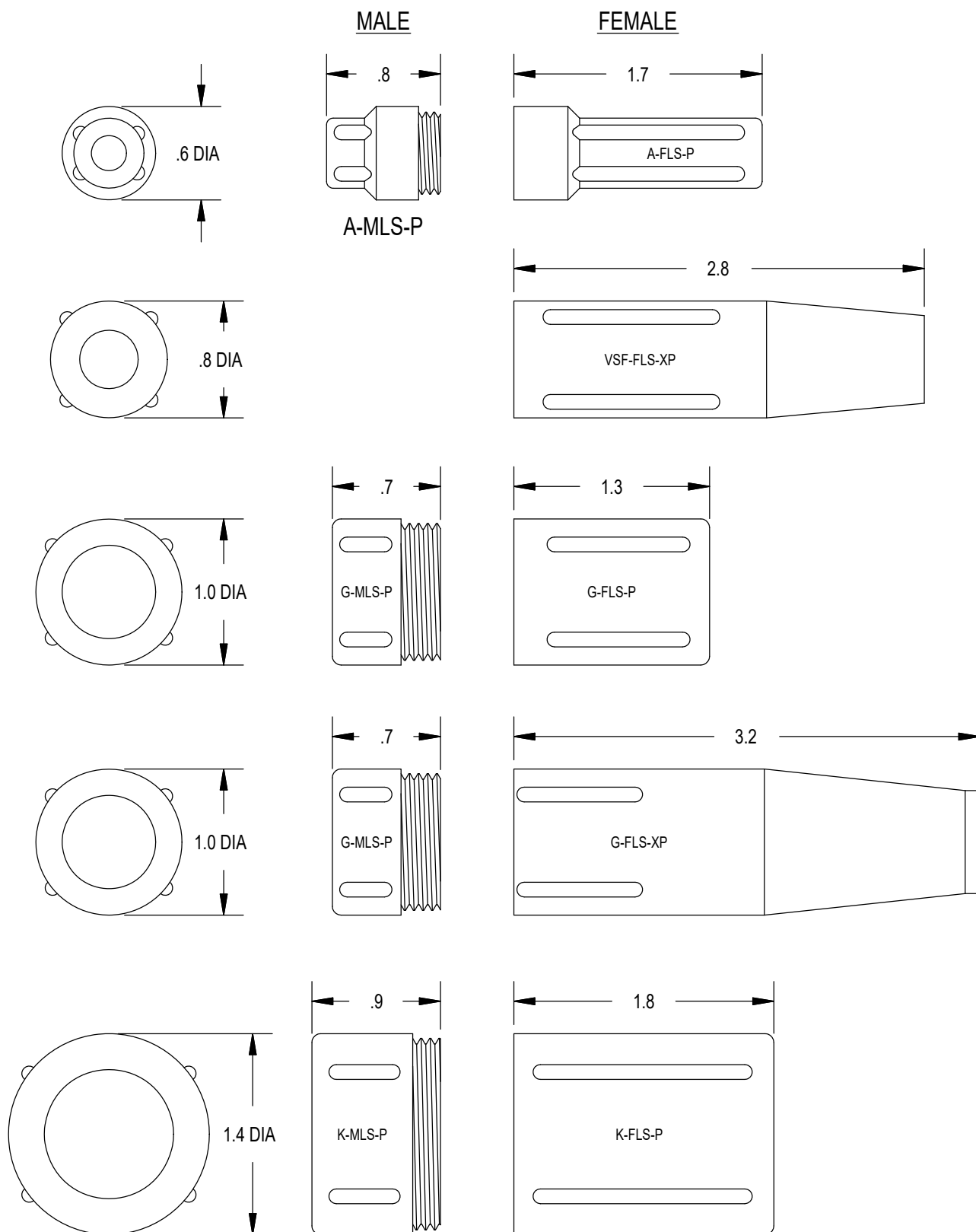
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FIELD INSTALLABLECONTACT
CONFIGURATION
(FACE VIEW-BCL)

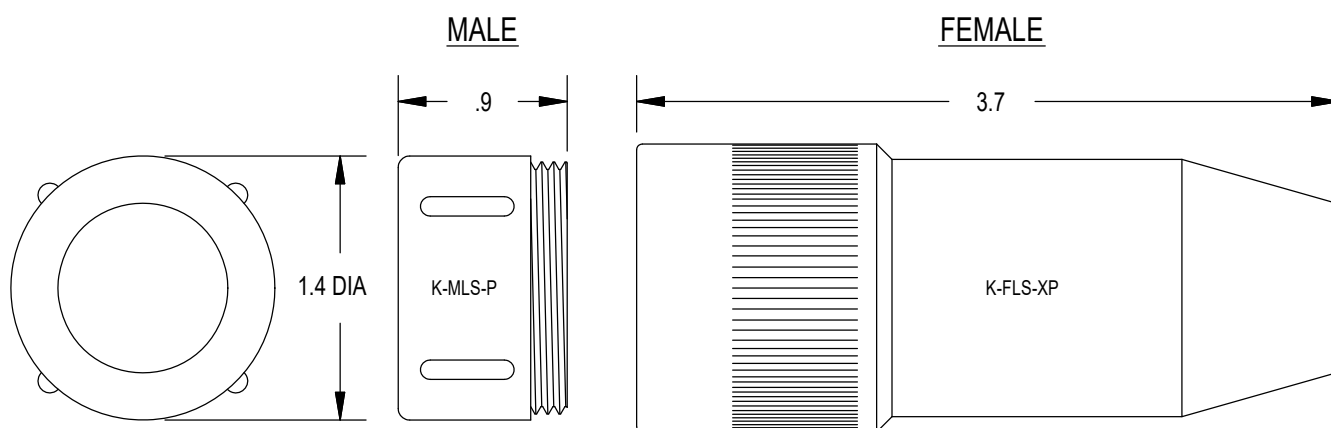
MOUNTING TORQUE FOR VSK-BCL	not to exceed 130 in lbs	MATED PRESSURE RATING (psi) FOR VSK-BCL	10,000
DUMMY PLUG FOR VSK-BCL, VMK-MP		DUMMY PLUG FOR VMK-FS	
LOW PRESSURE < 4,000 psi	VMK-FSD-LP	VMK*-MPD	
HIGH PRESSURE > 4,000 psi	VMK* -FSD-HP		
NOTE: Locking sleeves available in plastic or stainless steel, see Technical Bulletin 25 50. * Please specify number of contacts.			

PLASTIC LOCKING SLEEVES



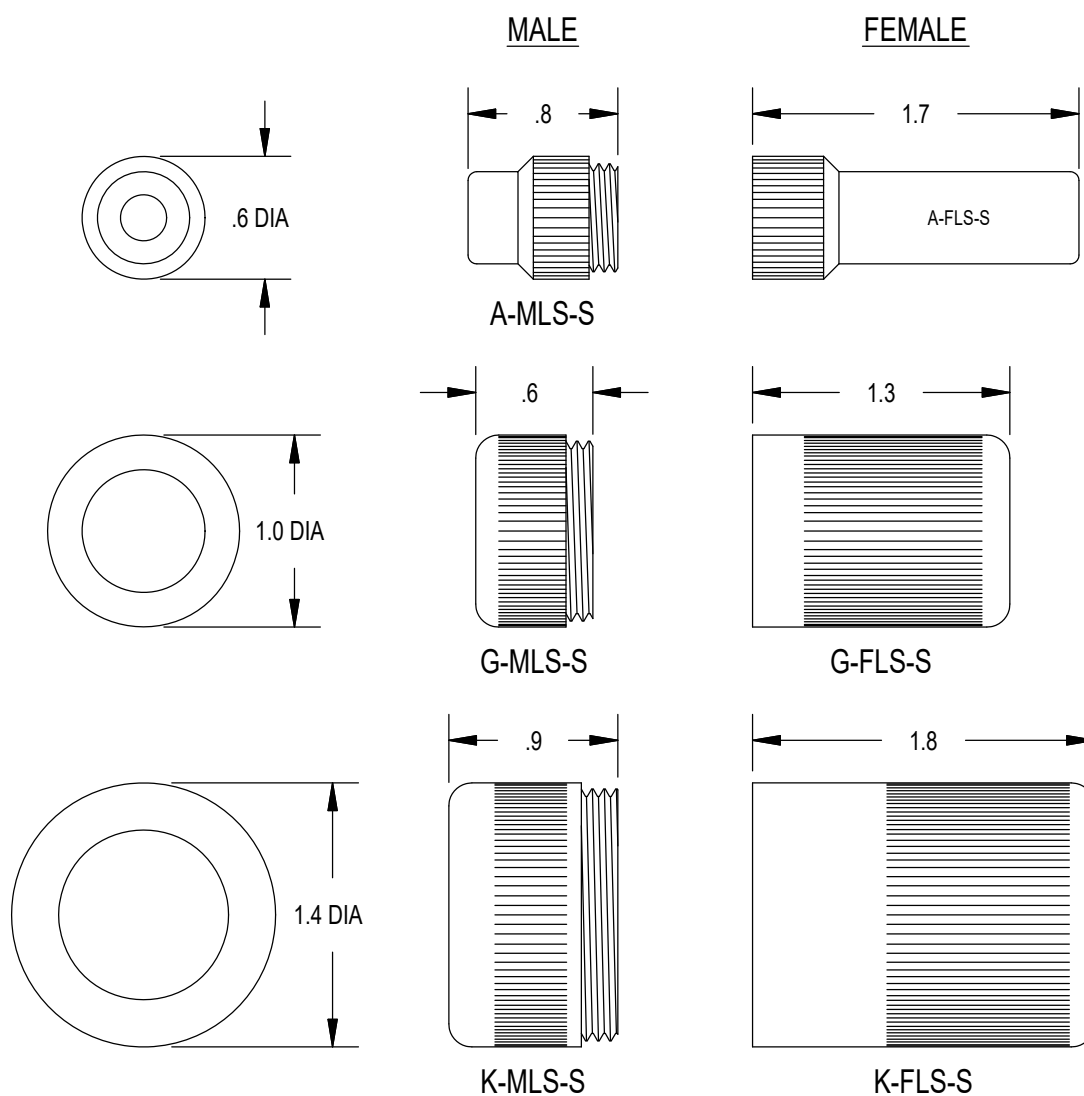
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LOCKING SLEEVES

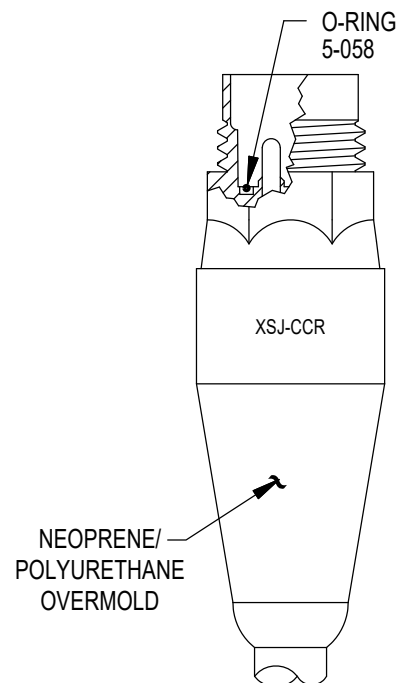
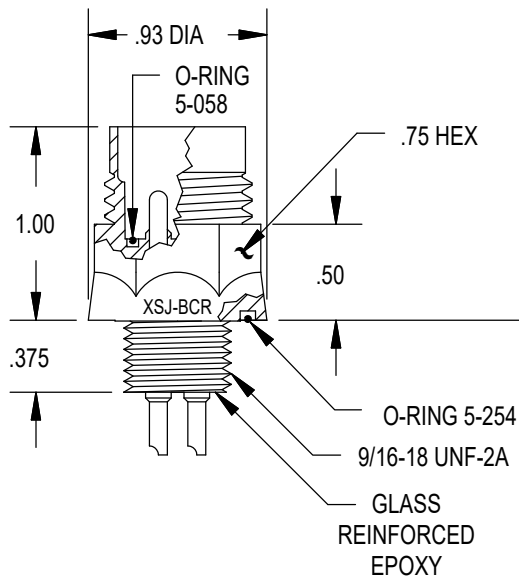
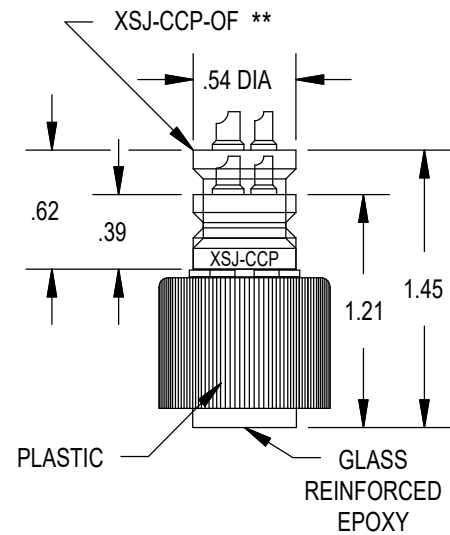
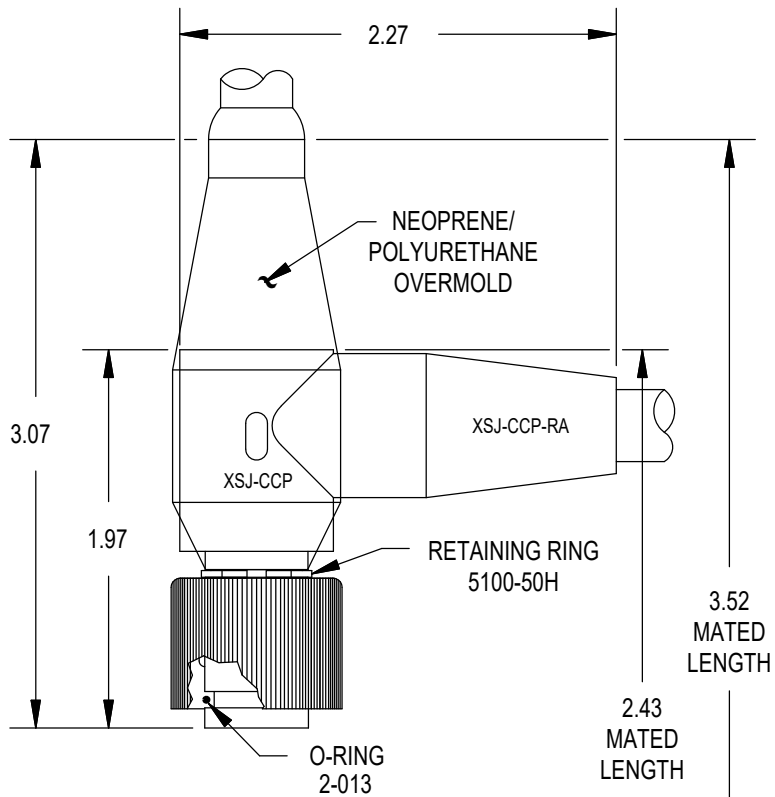


NOTE: XP is recommended to reduce conductor to contact fatigue.

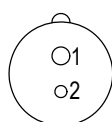
STAINLESS STEEL LOCKING SLEEVES



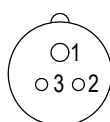
DESCRIPTION AND MATERIAL	• Molded glass reinforced epoxy. • One to 36 contacts. • 200 VDC to 600 VDC (higher voltage ratings available upon request). • Up to 20,000 PSI in mated condition. • Bulkhead connector design open face pressure rated to 5000 psi. • Contacts gold plated per MIL-G-45204. • XS-CCR/CCP connectors can be overmolded with polyurethane or neoprene. • Conductor insulation and jacket material of specified cable determines overmold material.
CABLE	• Connector's amperage and voltage may be limited by amperage and voltage rating of cable to which connector is molded. • This series is not molded to cable unless specified at the time of order.
USES	• Medium duty applications. • Hazardous environment. • Power transmission. • Signal telemetry. • CCR used in a variety of environments where cable to cable connection is necessary.
GUIDELINES	• All mounting surfaces require a 32 finish. • Do not exceed mounting torque specifications. • Align indexes. • Use in areas not subject to high impact to avoid chipping and cracking. • Keep o-ring grooves clean. • Avoid o-ring cuts and nicks. • Lubricate o-rings with Dow Corning #111 Valve Lubricant or equivalent. • Replace o-rings when re-using connectors. • Avoid contact with noxious solvents. • Elastomers can be seriously degraded if exposed to direct sunlight or high ozone levels for extended periods of time.



CONTACT
CONFIGURATION
(BCR FACE VIEWS)



1#14
1#16
600 VDC



1#14
2#16
600 VDC



1#14
3#16
300 VDC



2#16
3#20
300 VDC



1#16
6#20
300 VDC

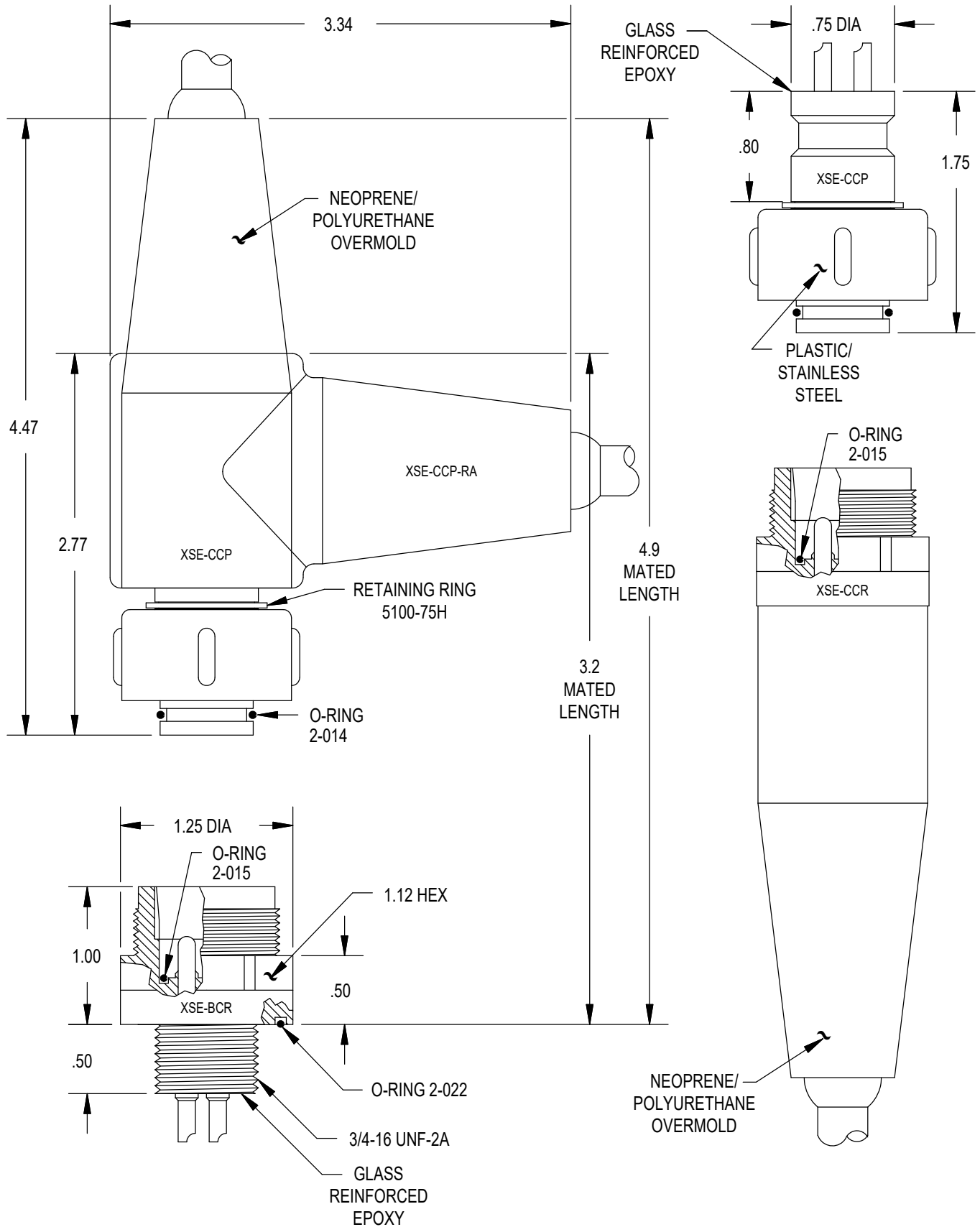


1#14
8#20
300 VDC

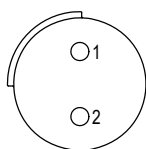


10#20
300 VDC

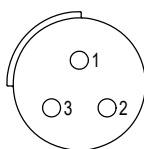
MOUNTING TORQUE FOR XSJ-BCR	not to exceed 20 in lbs	MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR XSJ-BCR/CCR	XSJ*-SCP	DUMMY PLUG FOR XSJ-CCP	XSJ-SCR
NOTE: CCP/CCR are not terminated to cable unless specified. * Please specify number of contacts. ** Extended backshell for Oil Filled assemblies.			



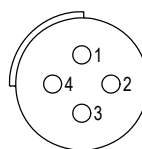
CONTACT
CONFIGURATION
(BCR FACE VIEWS)



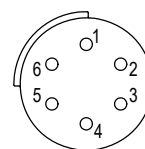
2#14
800 VDC



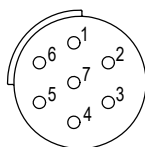
3#14
700 VDC



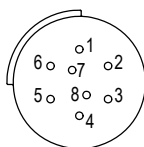
4#14
600 VDC



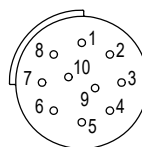
6#16
500 VDC



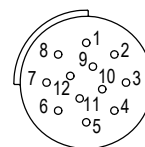
7#16
500 VDC



8#20
400 VDC

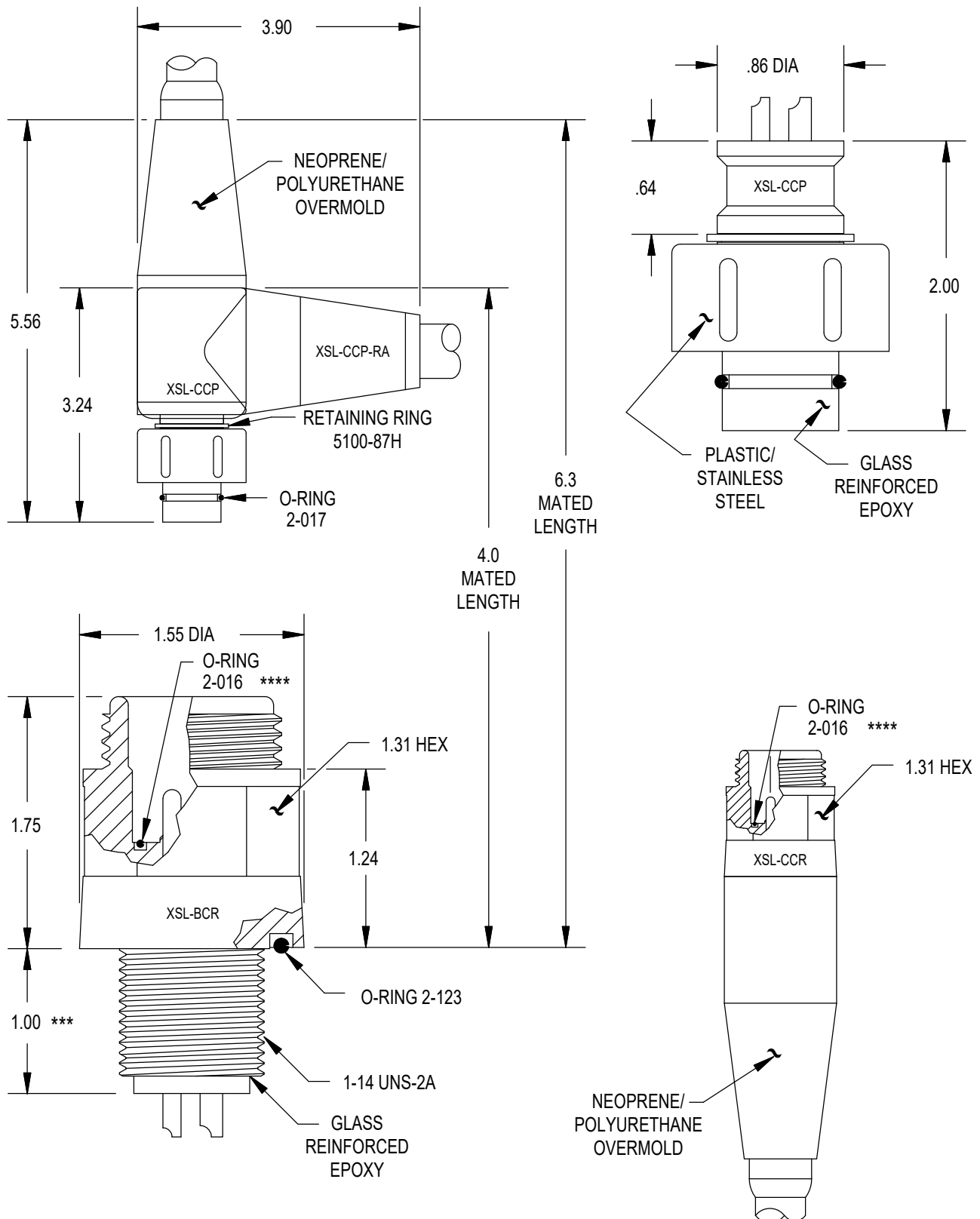


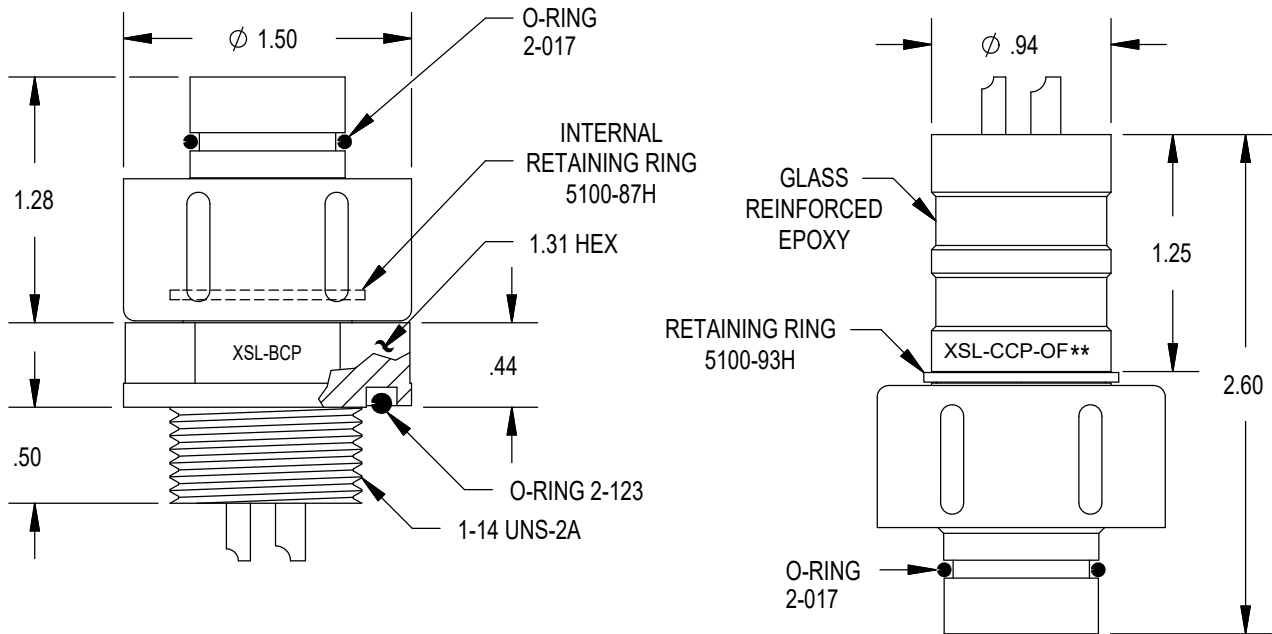
10#20
300 VDC



12#20
250 VDC

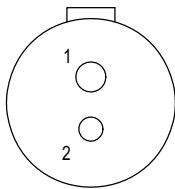
MOUNTING TORQUE FOR XSE-BCR	not to exceed 75 in lbs	MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR XSE-BCR/CCR	XSE*-SCP	DUMMY PLUG FOR XSE-CCP	XSE-SCR
NOTE: CCP/CCR are not terminated to cable unless specified. * Please specify number of contacts.			



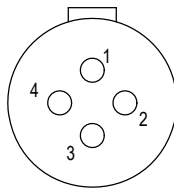


CONTACT CONFIGURATION (BCR FACE VIEWS)

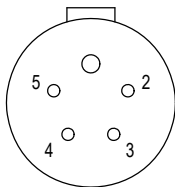
NOTE: Please specify narrow (.125) or wide (.250) key when ordering.



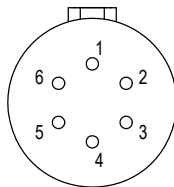
1#8/1#10
600 VDC



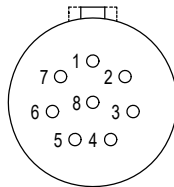
4#10
600 VDC



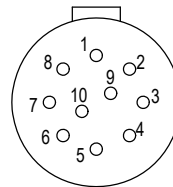
1#14/4#16
500 VDC



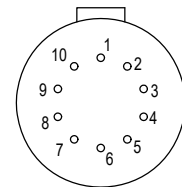
6#16
500 VDC



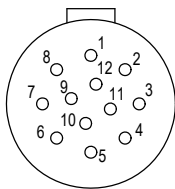
8#16
500 VDC



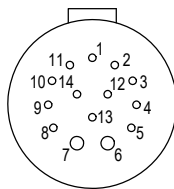
10#16
400 VDC



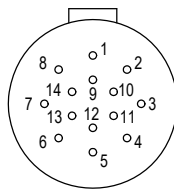
(PBOF)10#20
200 VDC



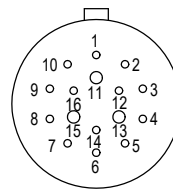
12#16
200 VDC



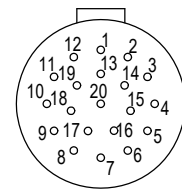
2#6/12#20
600 VDC



14#20
200 VDC



3#16/13#20
200 VDC



20#20
200 VDC

MOUNTING TORQUE FOR XSL-BCR/BCP	not to exceed 130 in lbs	MATED PRESSURE RATING (psi)	20,000
DUMMY PLUG FOR XSL-BCR/CCR	XSL-* -SCP	DUMMY PLUG FOR XSL-CCP/BCP/CCP/CCP-OF	XSL-* -SCR

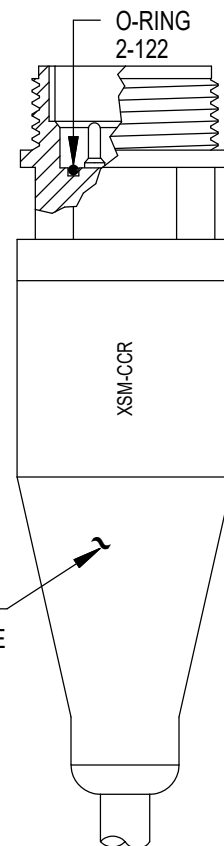
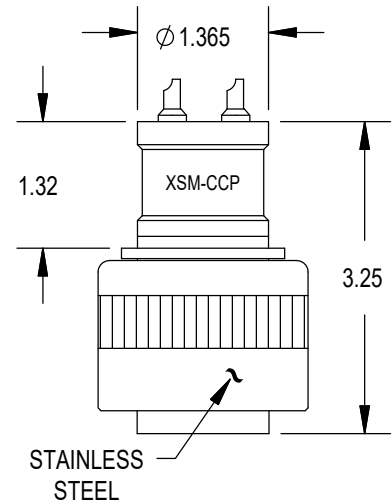
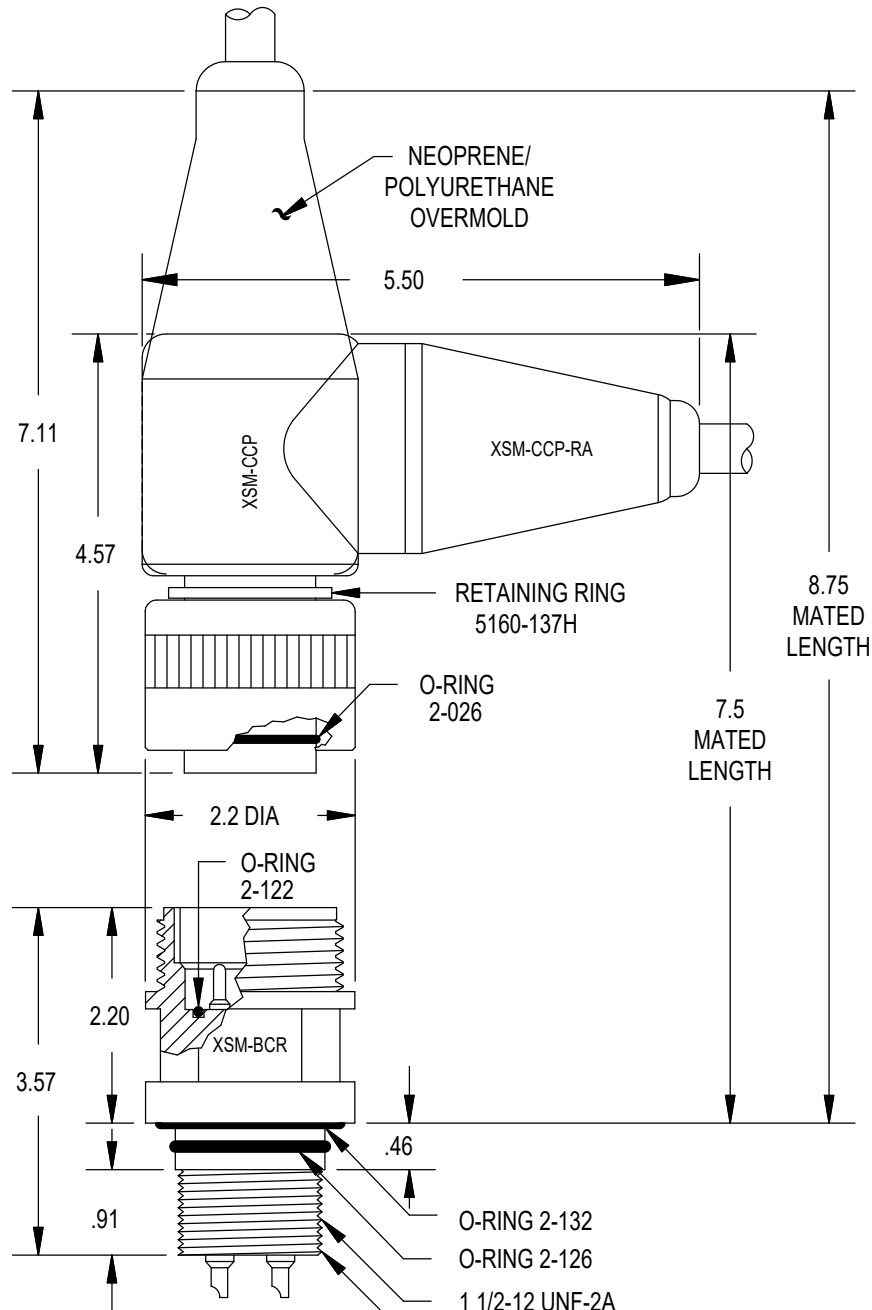
NOTE: CCP/CCR are not terminated to cable unless specified.

* Please specify number of contacts.

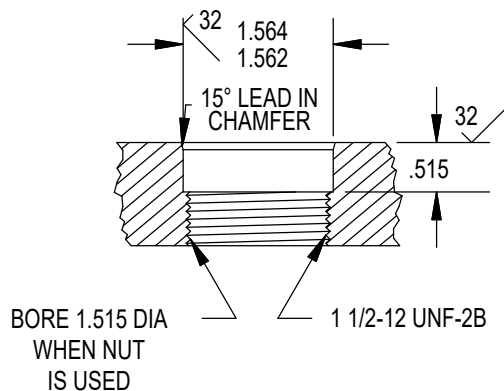
** Extended backshell for Oil Filled assemblies.

*** Also available in .50 thread length, 5-12 contacts only.

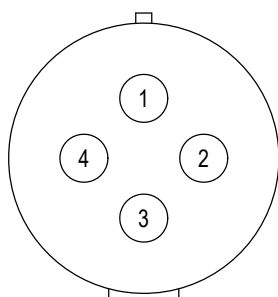
**** XSL-20-BCR, XSL-20-CCR and XSL-20-SCR use o-ring 5-254.



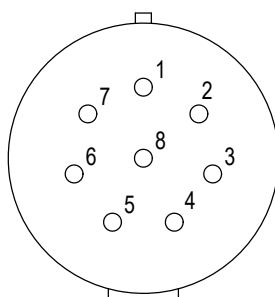
MOUNTING DETAIL



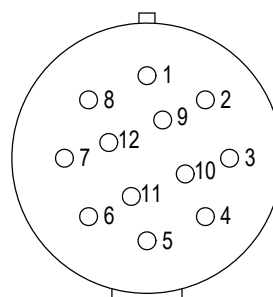
CONTACT
CONFIGURATION
 (BCR FACE VIEWS)



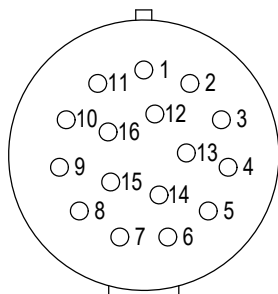
4#6
600 VDC



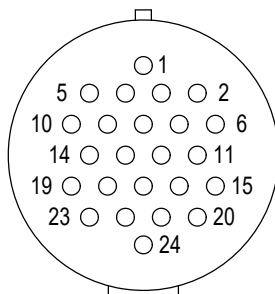
8#14
600 VDC



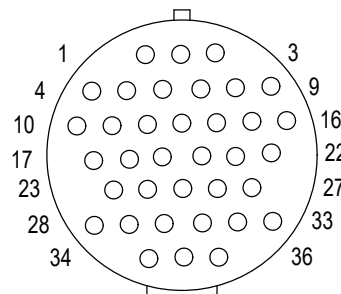
12#14
600 VDC



16#14
600 VDC



24#16
400 VDC

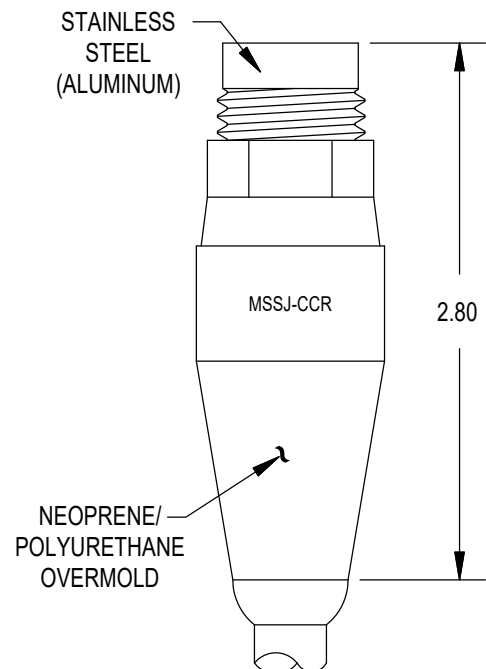
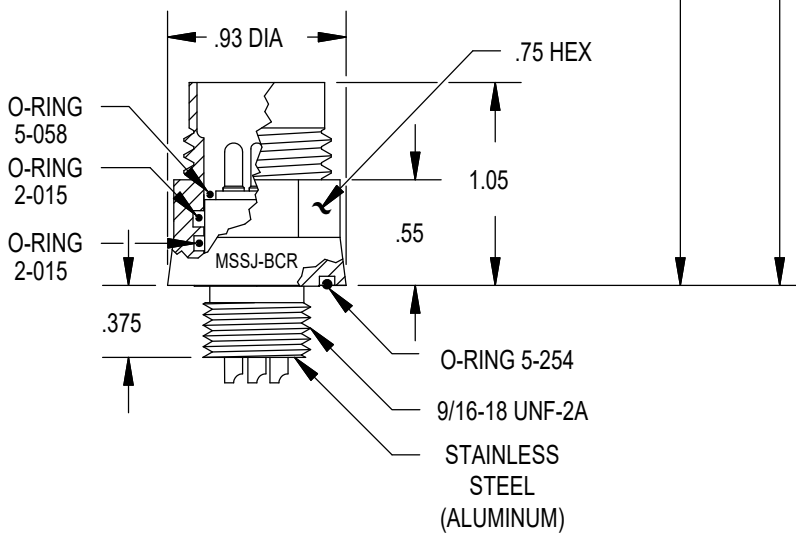
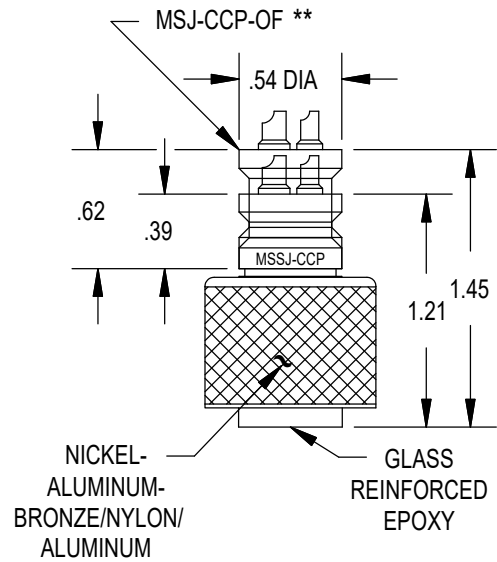
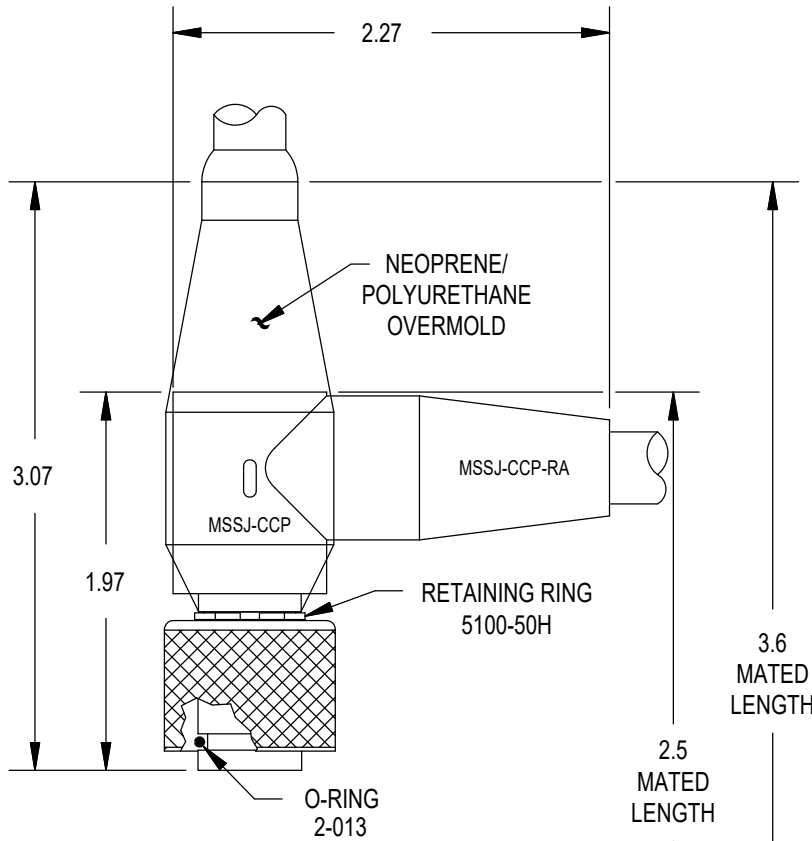


36#16
400 VDC

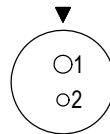
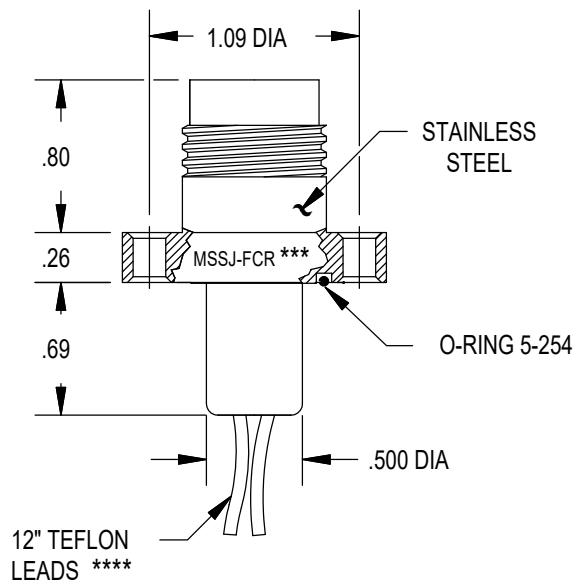
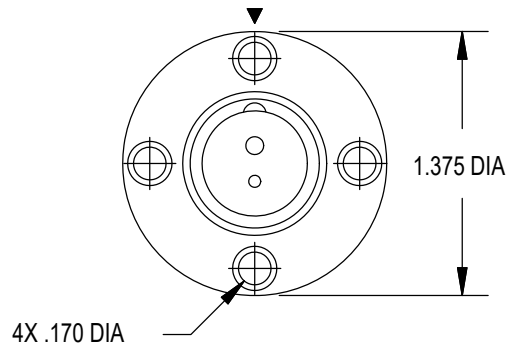
MOUNTING TORQUE FOR BCR	not to exceed 200 in lbs	MATED PRESSURE RATING (psi)	10,000
DUMMY CAP FOR BCR/CCR	XSM-SCP	DUMMY CAP FOR CCP	XSM-SCR
NOTE: CCP/CCR are not terminated to cable unless specified. * Please specify number of contacts.			

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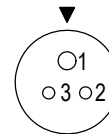
DESCRIPTION AND MATERIAL	• 316 stainless steel passivated per QQ-P-35 Type VI with naval bronze engaging nut. • Optional material is (MSA) 6061-T6 Aluminum, hard anodized per MIL-A-8625, Type III, Class 2. • Special alloys are available upon request (contact factory). • Contains a removable glass reinforced epoxy insert (with the exception of the MSSJ/MSAJ). • One to 96 contacts. • Up to 600 VDC. Up to 5000 VDC using high voltage insert. • From 10,000 PSI to 20,000 PSI in mated condition (higher pressure rating available using special alloy metal shell; please contact factory). • Bulkhead connector design open face pressure rated to 5000 psi. • MSS-CCR/CCP connectors can be overmolded with polyurethane or neoprene. • Conductor insulation and jacket material of specified cable determines overmold material. • Contacts are gold plated per MIL-G-45204.
CABLE MATERIAL	• Connector's amperage and voltage may be limited by the amperage and voltage ratings of the cable to which the connector is molded. • This series is not molded to cable unless specified at the time of order.
USES MATERIAL	• Heavy duty applications. • Hazardous, rugged environment. • Power transmission. • Signal telemetry. • FCR is mounted by use of six equally spaced bolts around the flange surface. • FCR is used in place of the BCR when the use of a bulkhead nut and washer is impractical. • For all open face pressures above 5,000 PSI the BCR, FCR must be back potted (please contact the factory). • The CCR is used in a variety of rugged environments where cable to cable termination is necessary.
GUIDELINES MATERIAL	• Mounting torque should not exceed 200 in lbs. for this series. • All mounting surfaces require a 32 finish. • Align indexes. • Keep o-ring grooves clean. • Avoid o-ring cuts and nicks. • Lubricate o-rings with Dow Corning #111 Valve Lubricant or equivalent. • Replace o-rings when re-using connectors. • Avoid contact with noxious solvents. • Elastomers can be seriously degraded if exposed to direct sunlight or high ozone levels for extended periods of time.



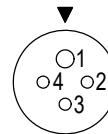
CONTACT CONFIGURATION (BCR FACE VIEWS)



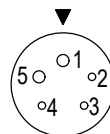
1#14
1#16
600VDC



1#14
2#16
600VDC



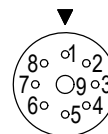
1#14
3#16
300VDC



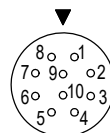
2#16
3#20
300VDC



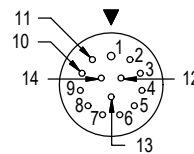
1#16
6#20
300VDC



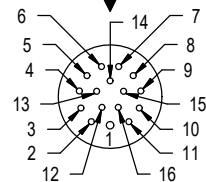
1#14
8#20
300VDC



10#20
300VDC



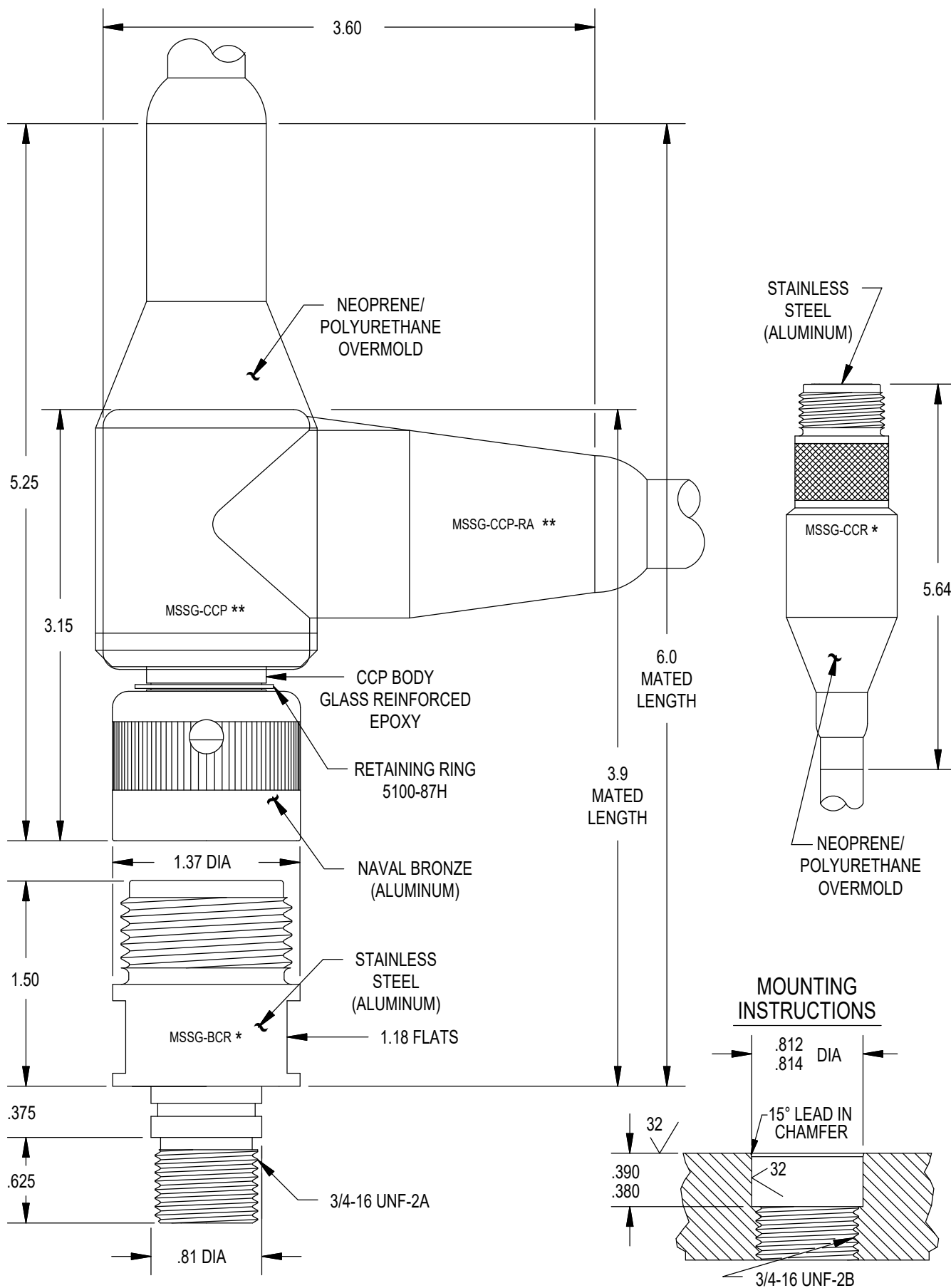
1#20
13#22
300VDC

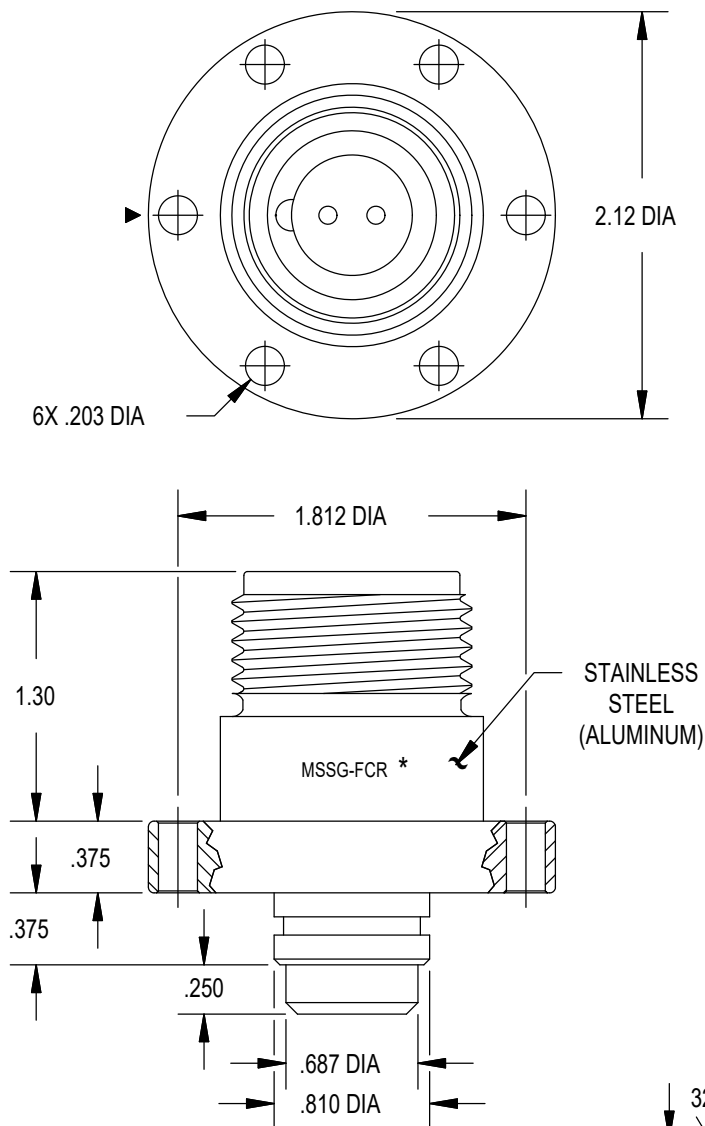


1#20
15#22
300VDC

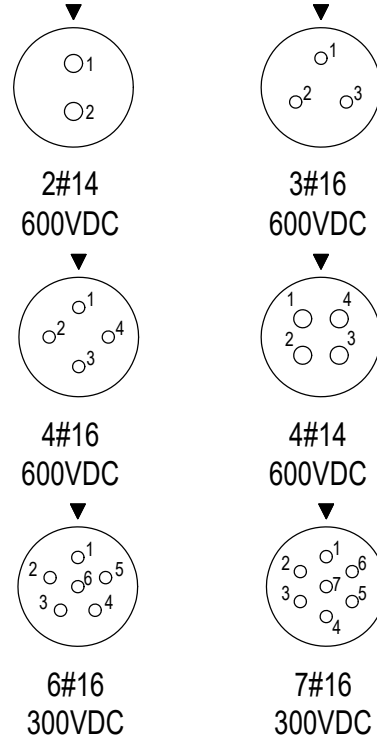
NOTE: Not available in OF.

MOUNTING TORQUE FOR MSSJ, MSAJ-BCR	not to exceed 100 in lbs	MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR MSSJ-BCR/FCR/CCR	MSSJ-*-SCP	DUMMY PLUG FOR MSSJ-CCP, MSAJ-CCP	MSJ-SCR (Epoxy)
DUMMY PLUG FOR MSAJ-BCR/CCR	MSAJ-*-SCP		
NOTE: CCP is not terminated to cable unless specified.			
* Please specify number of contacts. ** Extended backshell for Oil Filled assemblies. *** Internal assembly same as MSSJ/MSAJ-BCR (facing page). **** Solder cup version available.			

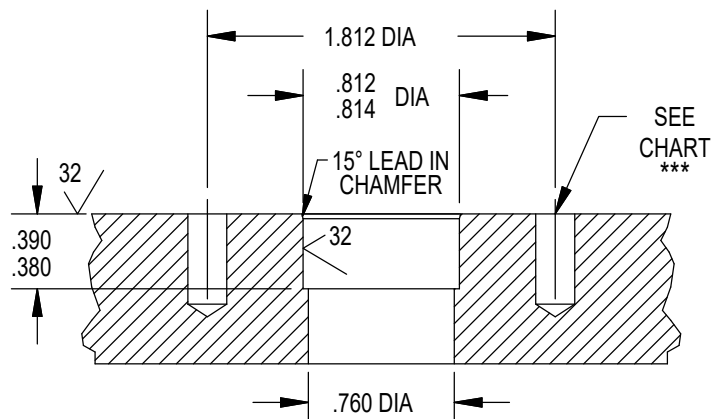




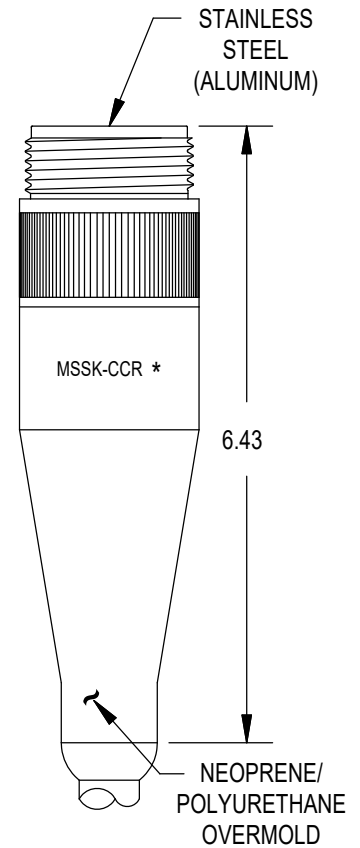
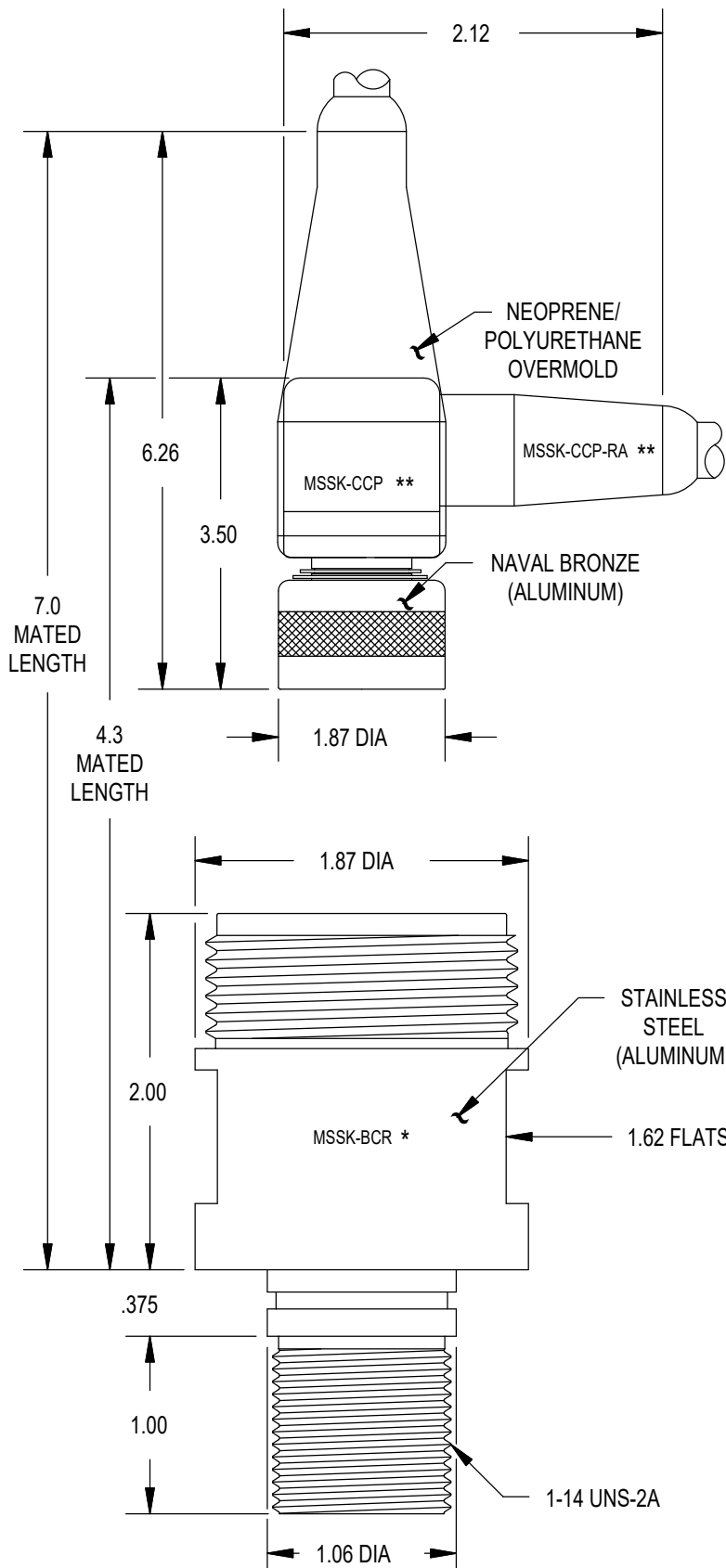
CONTACT CONFIGURATION (BCR FACE VIEWS)



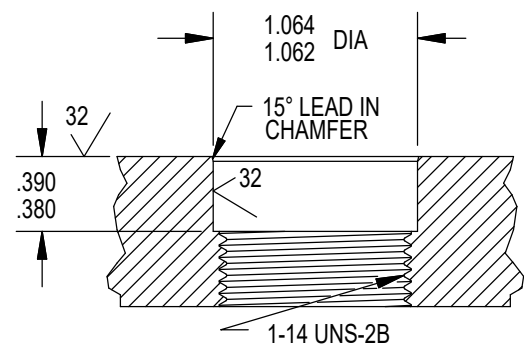
MOUNTING INSTRUCTIONS

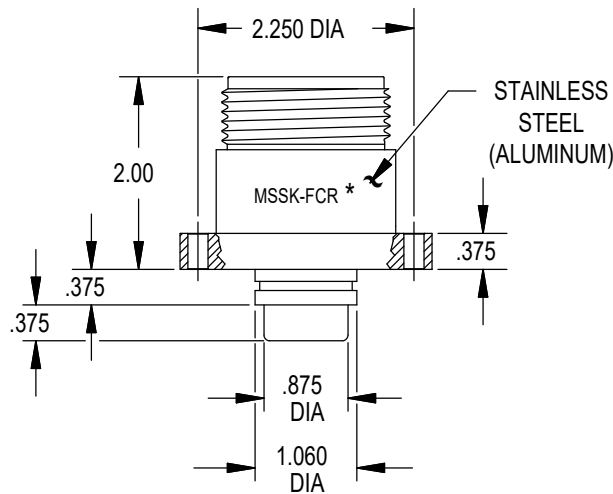
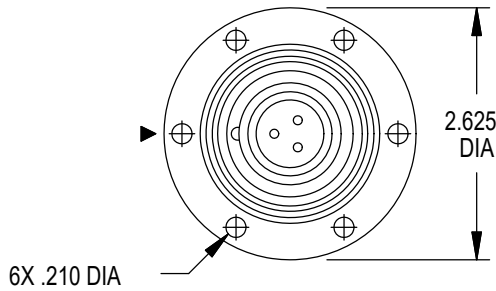


MOUNTING TORQUE FOR MSSG, MSAG-BCR	not to exceed 200 in lbs	MATED PRESSURE RATING (psi)	20,000
DUMMY PLUG FOR MSSG-BCR/FCR/CCR	MSSG-SCP	DUMMY PLUG FOR MSSG-CCP	MSSG-SCR
DUMMY PLUG FOR MSAG-BCR/FCR/CCR	MSAG-SCP	DUMMY PLUG FOR MSAG-CCP	MSAG-SCR
NOTE: Delrin protective caps available upon request. * See Technical Bulletin 45 71 for internal assembly and hardware specifications. ** See Technical Bulletin 45 72 for internal assembly and hardware specifications. *** Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter.			

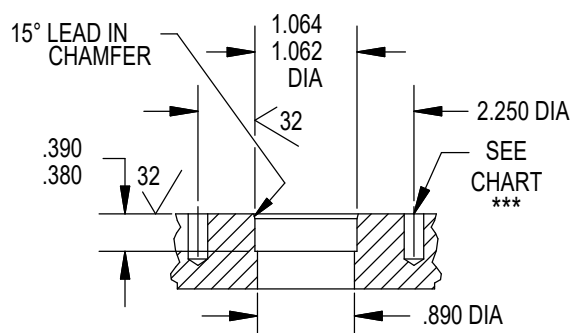


MOUNTING INSTRUCTIONS

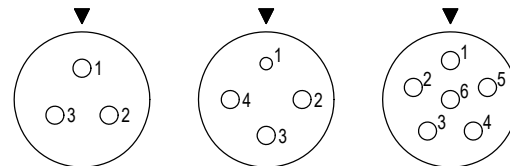




MOUNTING INSTRUCTIONS



CONTACT CONFIGURATION (BCR FACE VIEWS)



3#14

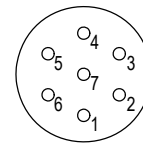
1#16

6#14

600VDC

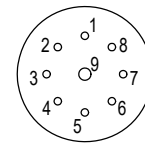
600VDC

600VDC



7#16

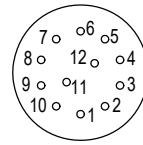
600VDC



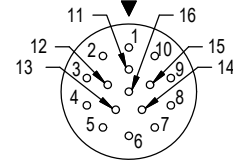
1#16

8#20

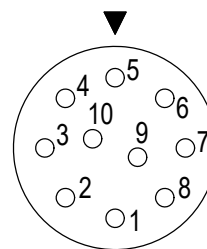
600VDC



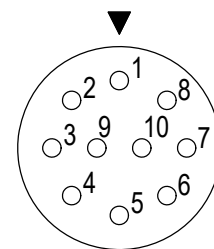
12#20
600VDC



16#20
600VDC



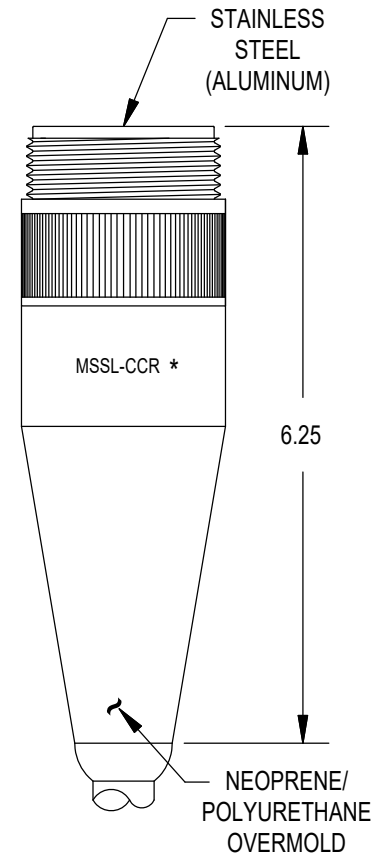
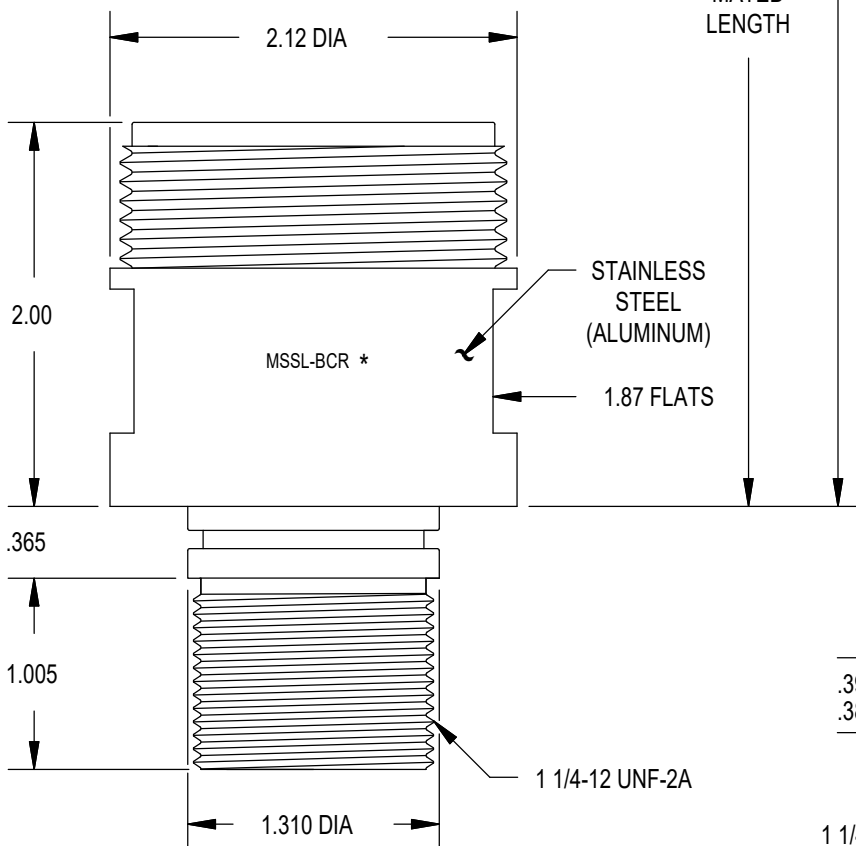
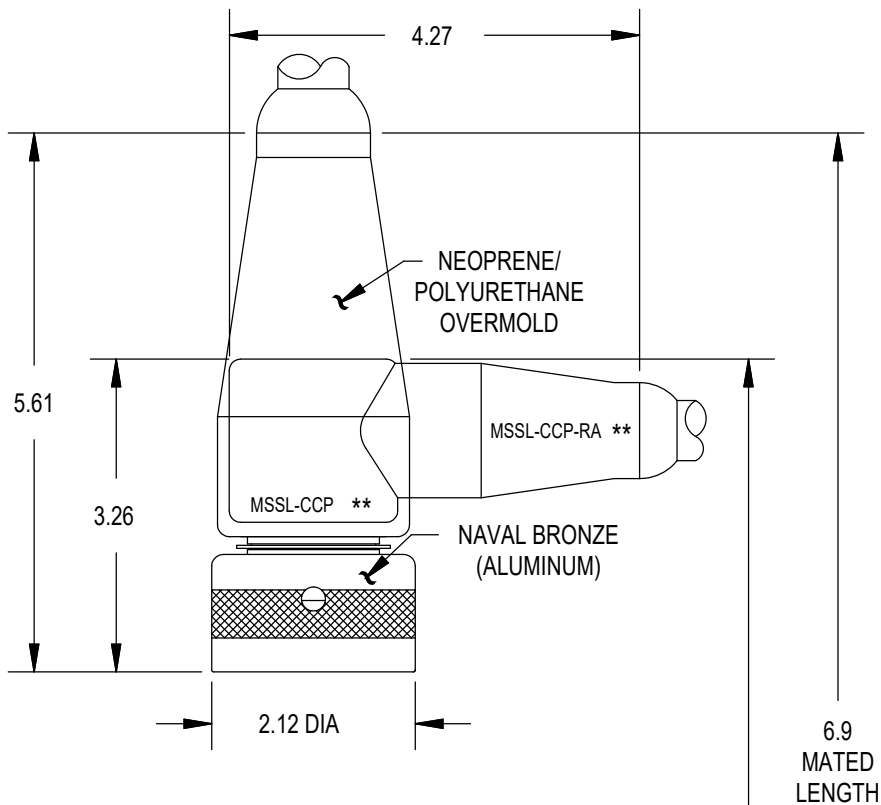
10#16 IE
600VDC



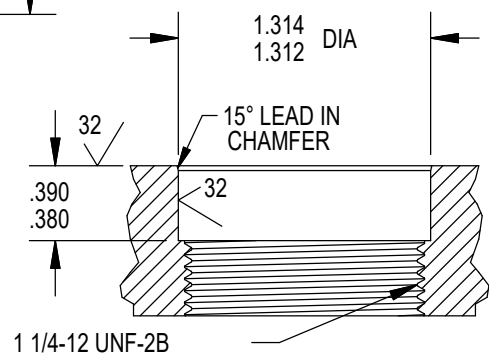
10#16 NAVY
600VDC

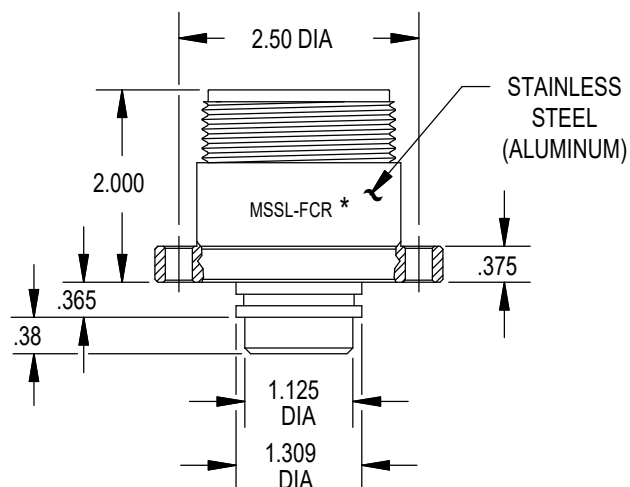
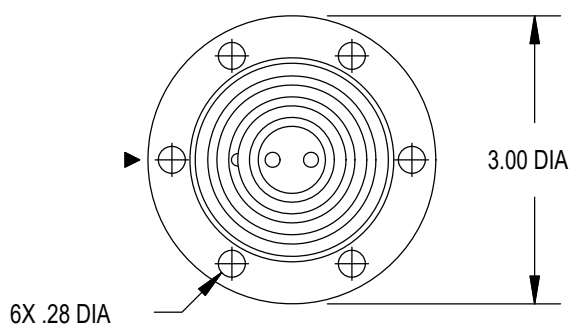
NOTE: Please specify Navy or IE pin configuration when ordering.

MOUNTING TORQUE FOR MSSK, MSAK-BCR	not to exceed 200 in lbs	MATED PRESSURE RATING (psi)	20,000
DUMMY PLUG FOR MSSK-BCR/FCR/CCR	MSSK-SCP	DUMMY PLUG FOR MSSK-CCP	MSSK-SCR
DUMMY PLUG FOR MSAK-BCR/FCR/CCR	MSAK-SCP	DUMMY PLUG FOR MSAK-CCP	MSAK-SCR
NOTE: Delrin protective caps available upon request. * See Technical Bulletin 45 71 for internal assembly and hardware specifications. ** See Technical Bulletin 45 72 for internal assembly and hardware specifications. *** Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter.			

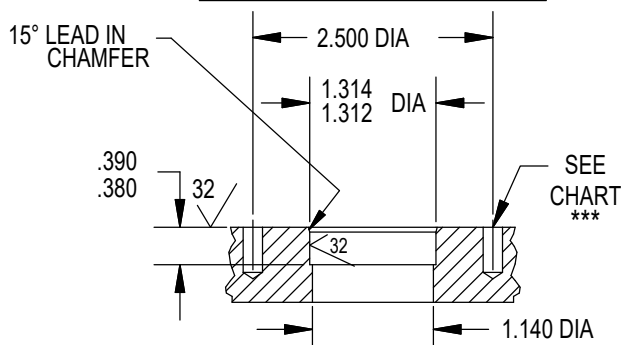


MOUNTING INSTRUCTIONS





MOUNTING INSTRUCTIONS



MOUNTING TORQUE FOR MSSSL, MSAL-BCR	not to exceed 200 in lbs	MATED PRESSURE RATING (psi)	20,000
DUMMY PLUG FOR MSSL-BCR/FCR/CCR	MSSL-SCP	DUMMY PLUG FOR MSSL-CCP	MSSL-SCR
DUMMY PLUG FOR MSAL-BCR/FCR/CCR	MSAL-SCP	DUMMY PLUG FOR MSAL-CCP	MSAL-SCR

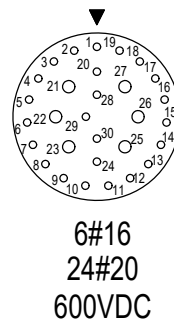
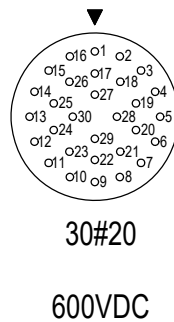
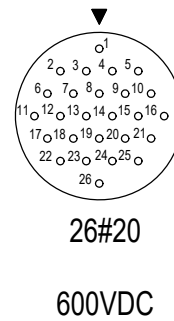
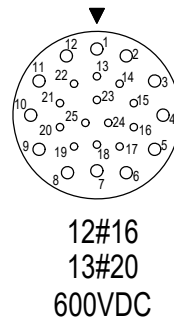
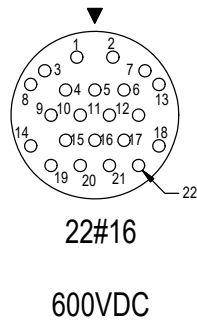
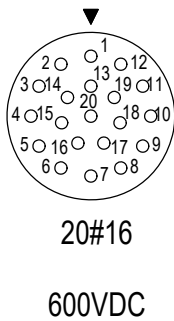
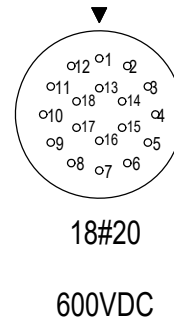
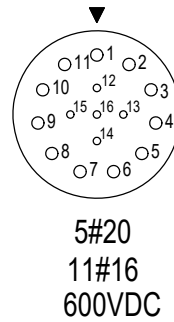
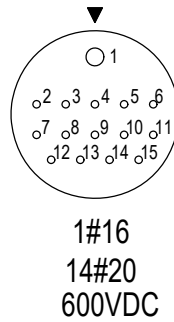
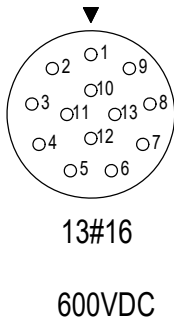
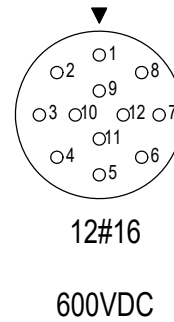
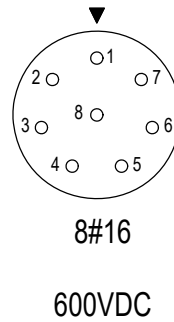
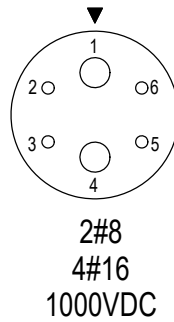
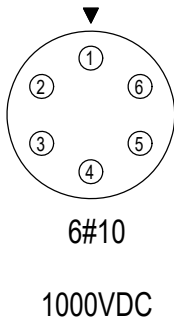
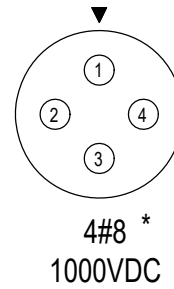
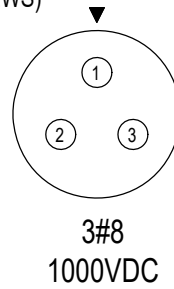
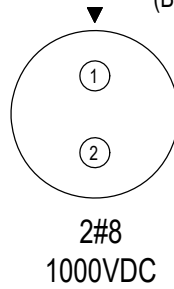
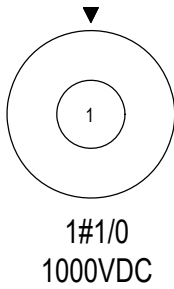
NOTE: Delrin protective caps available upon request.

* See Technical Bulletin 45 71 for internal assembly and hardware specifications.

**** See Technical Bulletin 45 72 for internal assembly and hardware specifications.**

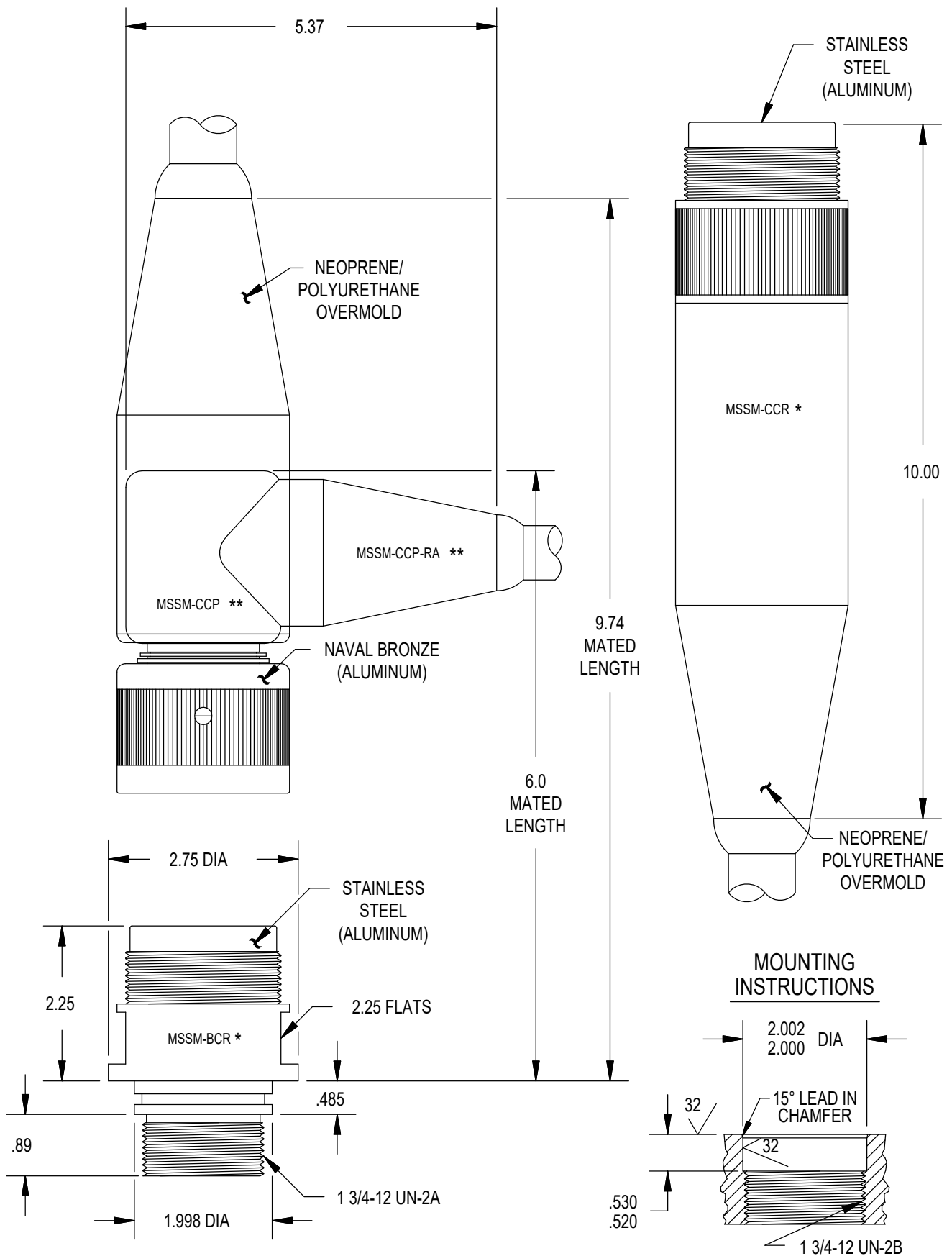
*** Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter.

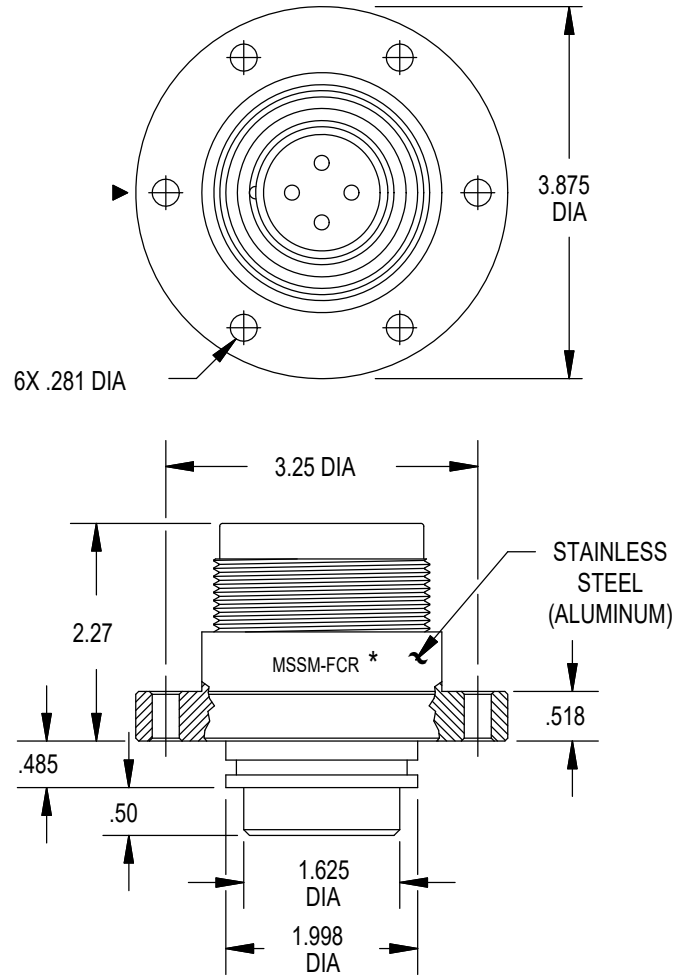
**CONTACT
CONFIGURATION**
(BCR FACE VIEWS)



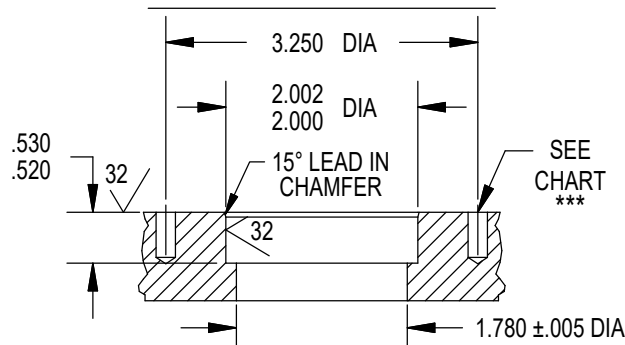
* Also available in high voltage.
(3000VDC)

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MOUNTING INSTRUCTIONS



MOUNTING TORQUE FOR MSSM, MSAM-BCR	not to exceed 200 in lbs	MATED PRESSURE RATING (psi)	20,000
DUMMY PLUG FOR MSSM-BCR/FCR/CCR	MSSM-SCP	DUMMY PLUG FOR MSSM-CCP	MSSM-SCR
DUMMY PLUG FOR MSAM-BCR/FCR/CCR	MSAM-SCP	DUMMY PLUG FOR MSAM-CCP	MSAM-SCR

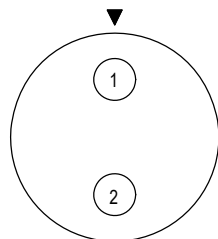
NOTE: Delrin protective caps available upon request.

* See Technical Bulletin 45 71 for internal assembly and hardware specifications.

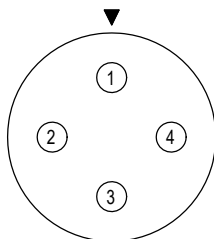
** See Technical Bulletin 45 72 for internal assembly and hardware specifications.

*** Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter.

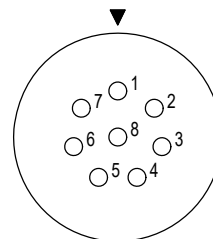
CONTACT
CONFIGURATION
(BCR FACE VIEWS)



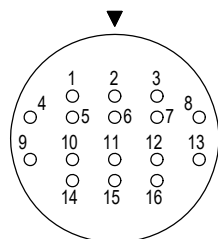
2#6 *
1500VDC



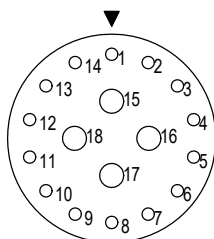
4#8 *
1500VDC



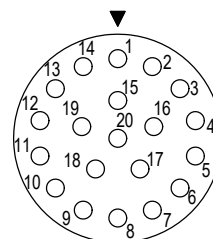
8#14
600VDC



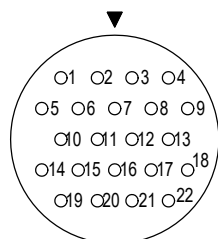
16#16
600VDC



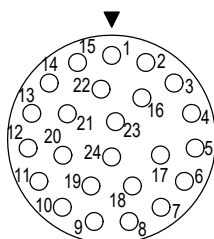
4#10
14#16
600VDC



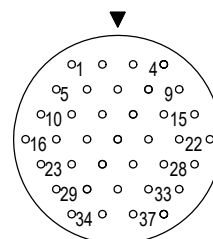
20#14
600VDC



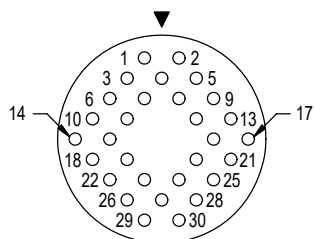
22#16
600VDC



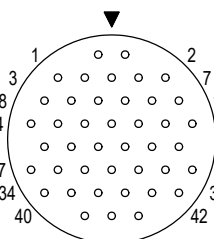
24#14
600VDC



37#20
600VDC



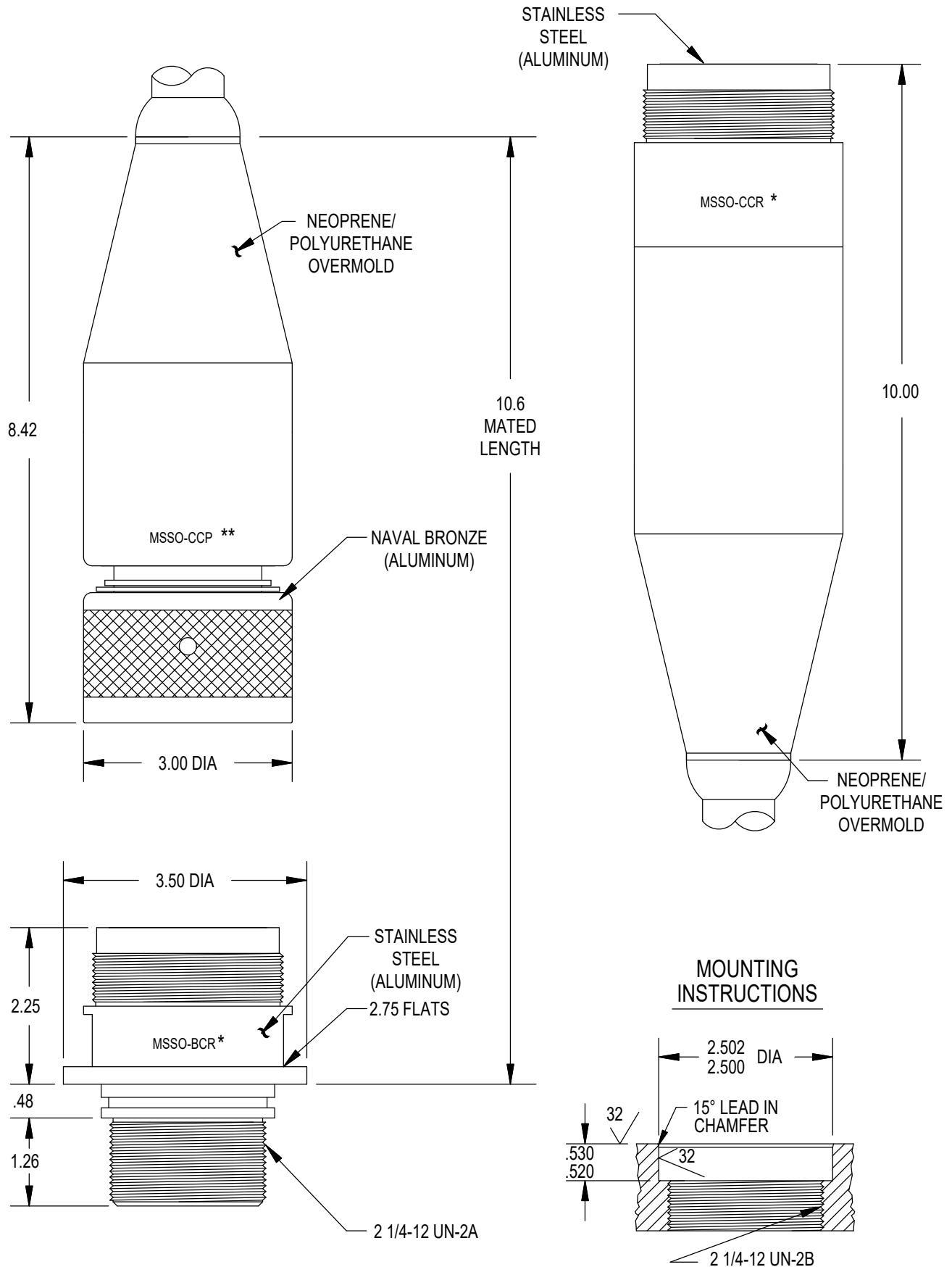
30#16
600VDC

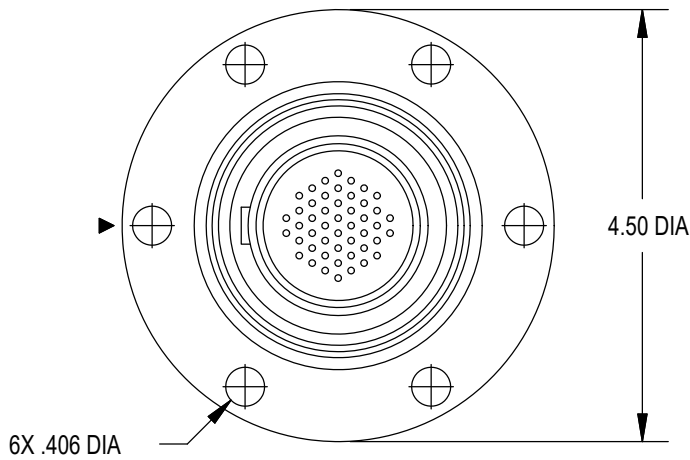


42#20
600VDC

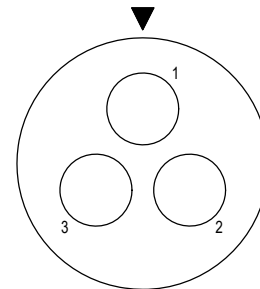
* Also available in high voltage.
(3000VDC)

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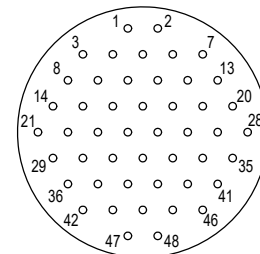




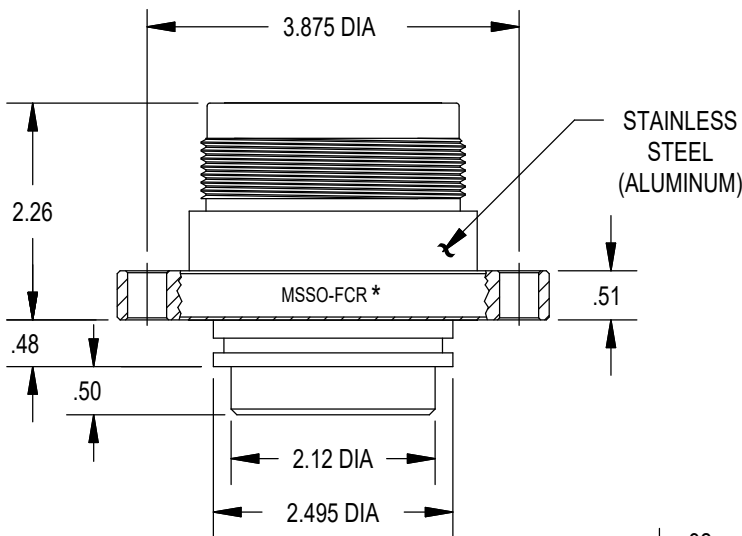
CONTACT CONFIGURATION (BCR FACE VIEWS)



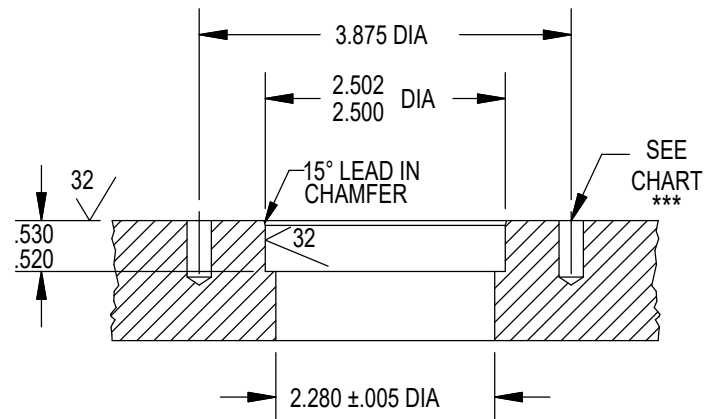
3#4
600VDC



48#20
600VDC



MOUNTING INSTRUCTIONS



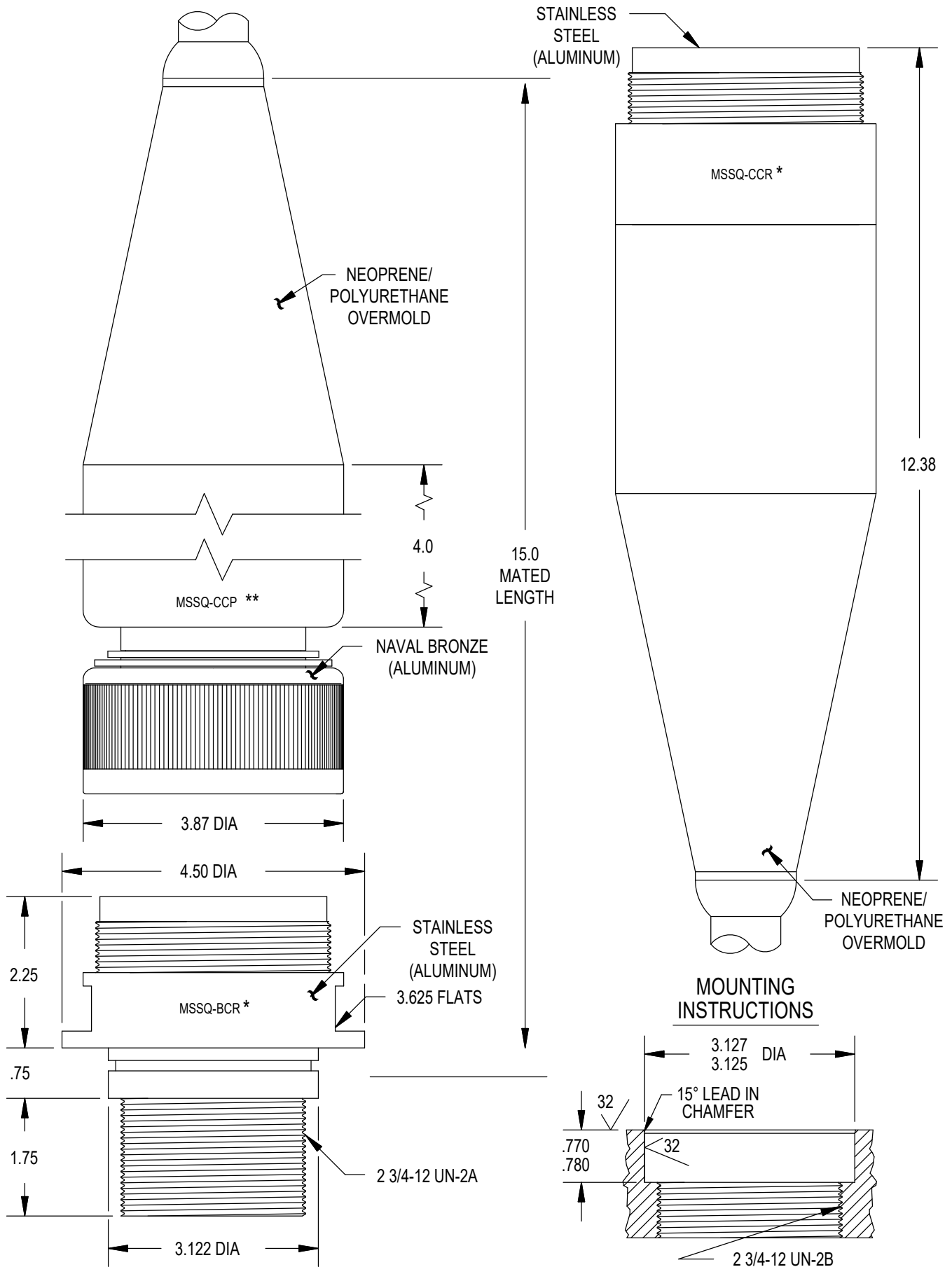
MOUNTING TORQUE FOR MSSO, MSAO-BCR	not to exceed 200 in lbs	MATED PRESSURE RATING (psi)	20,000
DUMMY PLUG FOR MSSO-BCR/FCR/CCR	MSSO-SCP	DUMMY PLUG FOR MSSO-CCP	MSSO-SCR
DUMMY PLUG FOR MSAO-BCR/FCR/CCR	MSAO-SCP	DUMMY PLUG FOR MSAO-CCP	MSAO-SCR

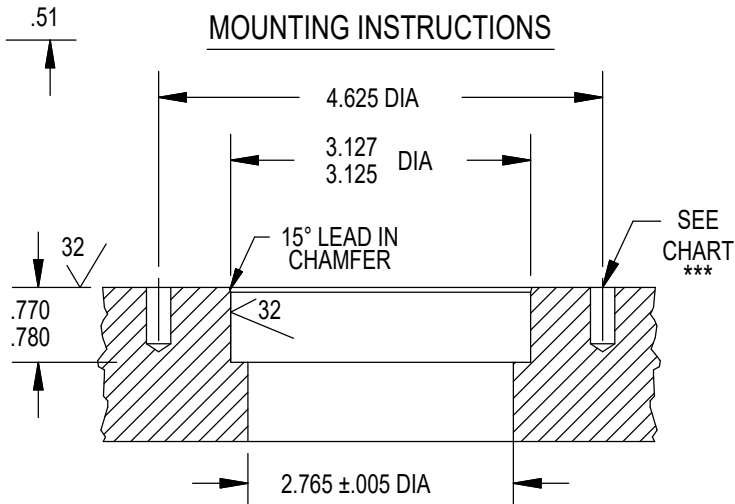
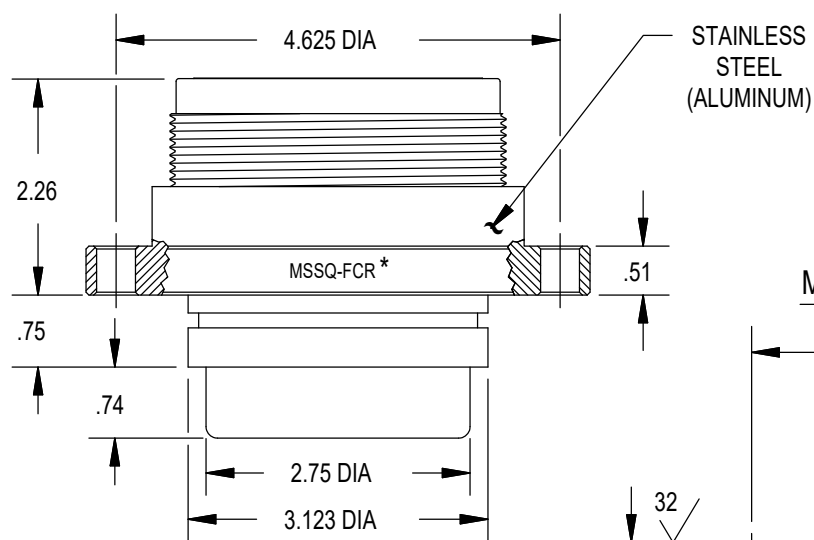
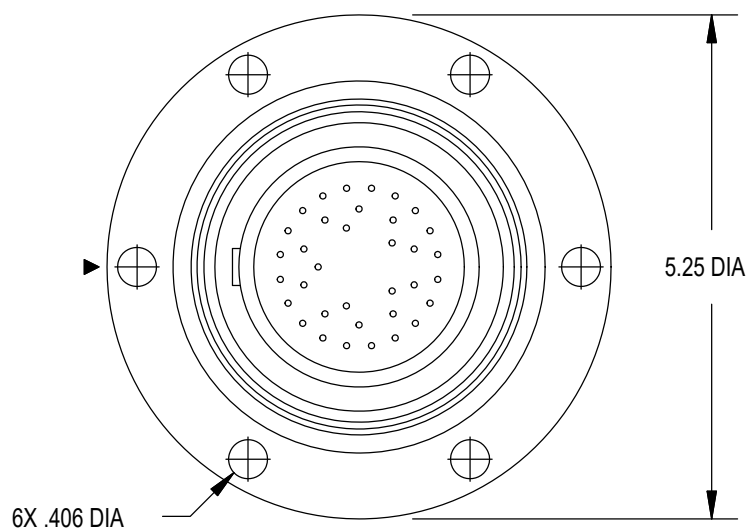
NOTE: Delrin protective caps available upon request.

* See Technical Bulletin 45 71 for internal assembly and hardware specifications.

** See Technical Bulletin 45 72 for internal assembly and hardware specifications.

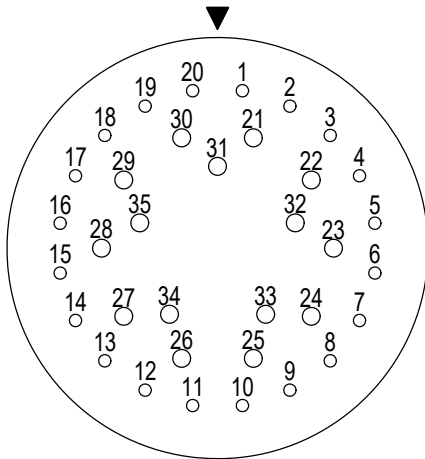
*** Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter.



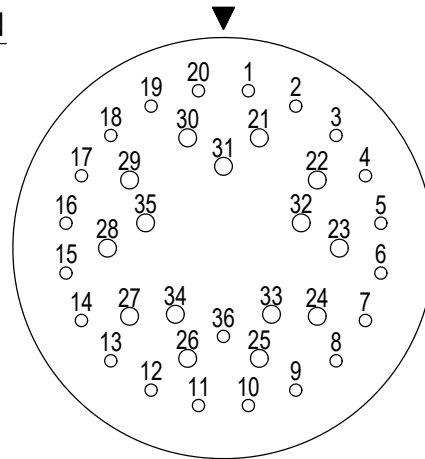


MOUNTING TORQUE FOR MSSQ, MSAQ-BCR	not to exceed 200 in lbs	MATED PRESSURE RATING (psi)	20,000
DUMMY PLUG FOR MSSQ-BCR/FCR/CCR	MSSQ-SCP	DUMMY PLUG FOR MSSQ-CCP	MSSQ-SCR
DUMMY PLUG FOR MSAQ-BCR/FCR/CCR	MSAQ-SCP	DUMMY PLUG FOR MSAQ-CCP	MSAQ-SCR
NOTE: Delrin protective caps available upon request. * See Technical Bulletin 45 71 for internal assembly and hardware specifications. ** See Technical Bulletin 45 72 for internal assembly and hardware specifications. *** Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter.			

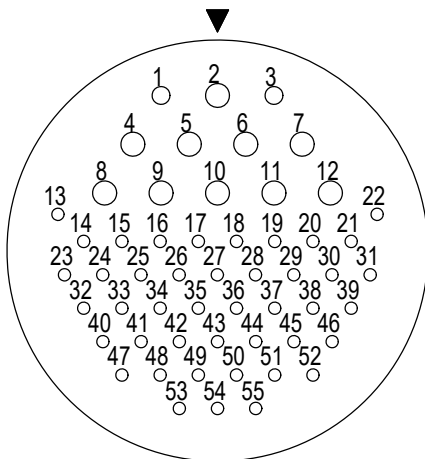
CONTACT
CONFIGURATION
(BCR FACE VIEWS)



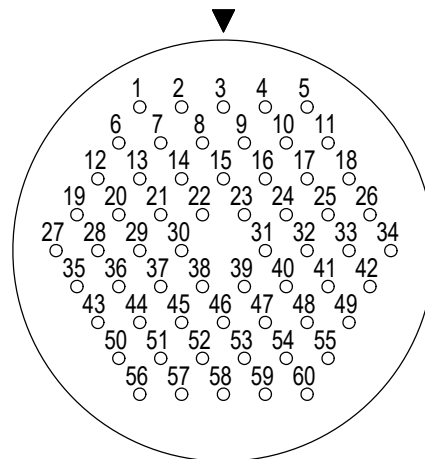
15#14
20#16
(High Voltage)
2000VDC



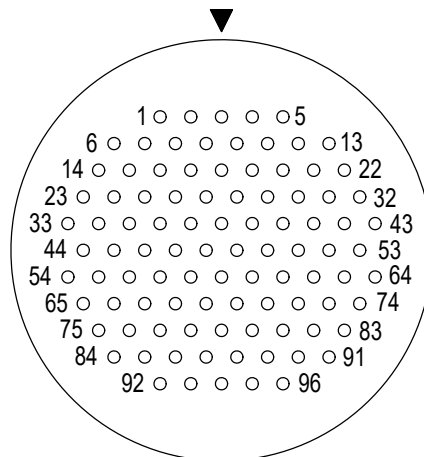
15#14
21#16
(High Voltage)
2000VDC



10#10
45#16
600VDC

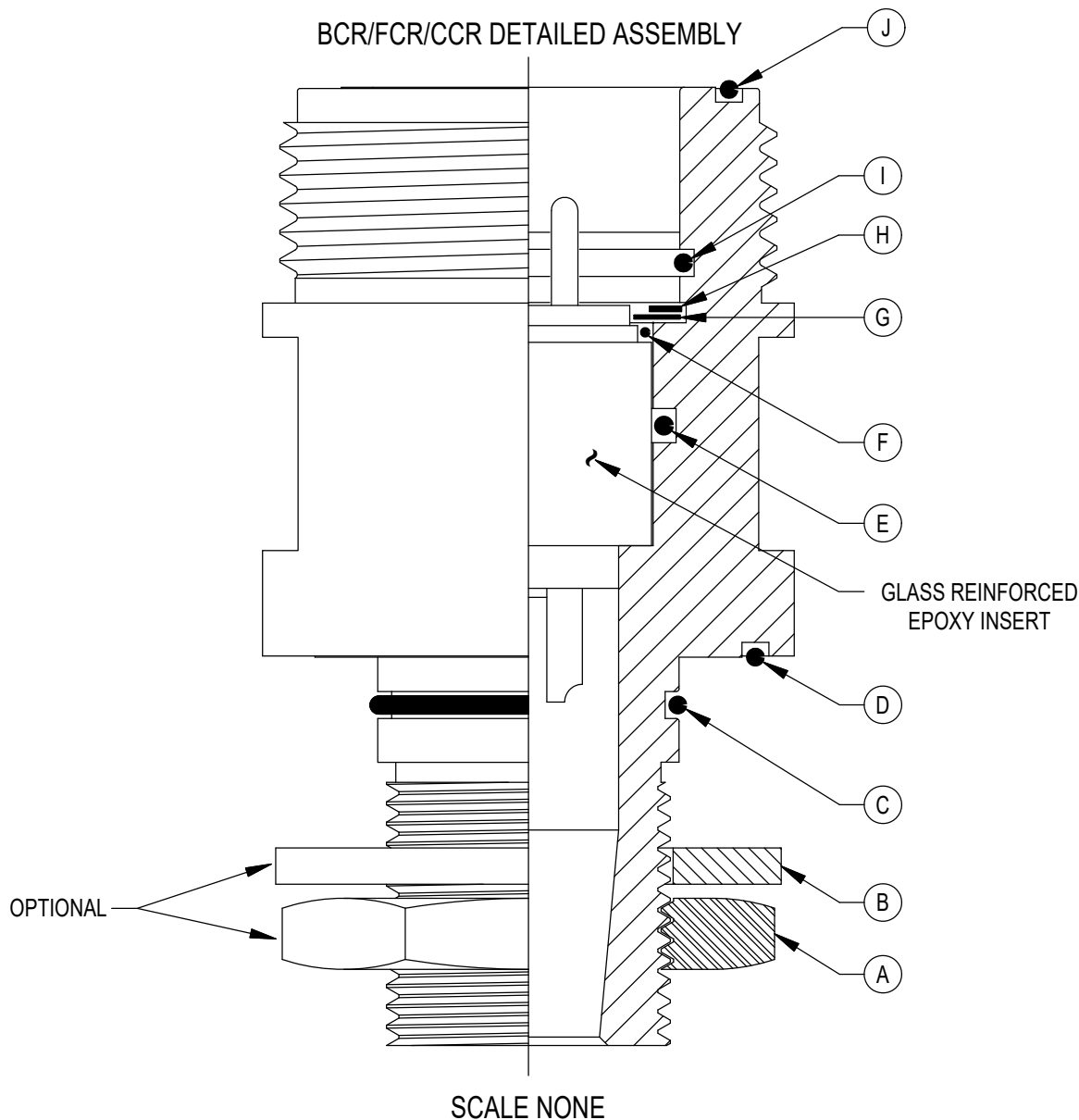


60#16
600VDC



96#16
600VDC

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SHELL SIZE	G	K	L	M	O	Q
A BULKHEAD NUT *	35000 S 00	35000 S 01	35000 S 02	35000 S 03	35000 S 04	35000 S 06
B BULKHEAD WASHER *	35500 S 00	35500 S 01	35500 S 02	35500 S 03	35500 S 04	35500 S 06
C O-RING **	2-017	2-021	2-122	2-224	2-228	2-233
D O-RING **	2-023	2-029	2-131	2-142	2-234	2-241 ***
E O-RING	2-016	2-118	2-122	2-126	2-225	2-230
F O-RING	NONE	2-018	2-022	2-123	2-131	2-141
G INTERNAL WASHER	NONE	35000 S 21	35000 S 22	35000 S 23	35000 S 24	35000 S 26
H SPIROLOX RING	UR-62	UR-106	UR-131	UR-150	UR-187	UR-250
I O-RING	2-016	2-023	2-027	2-128	2-225	2-230
J O-RING	2-020	2-027	5-320	2-132	2-140	2-151

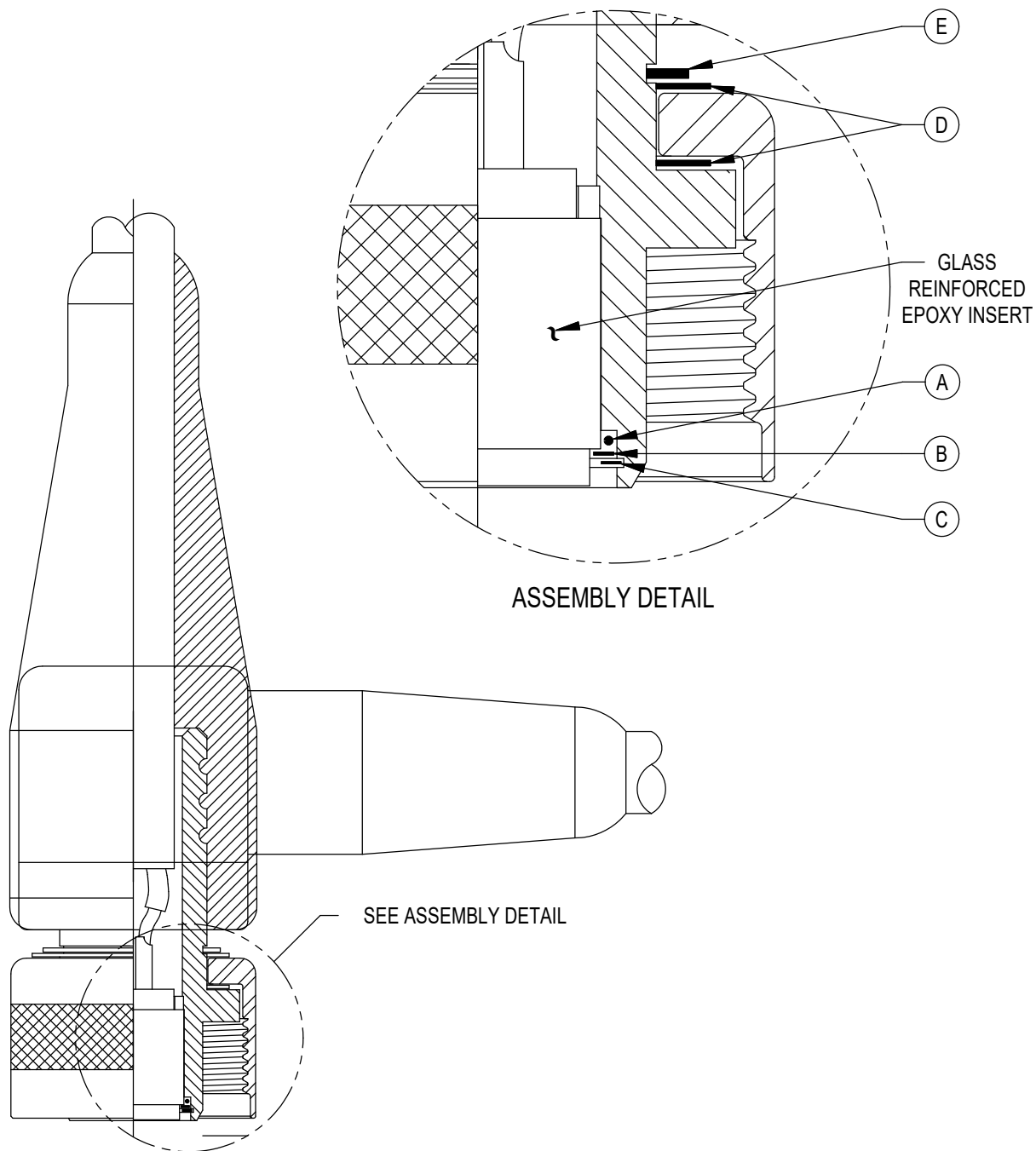
NOTE: See Technical Bulletin 45 10 for J size detailed assembly.

* Not required with FCR or CCR assemblies.

** Not required with CCR assembly.

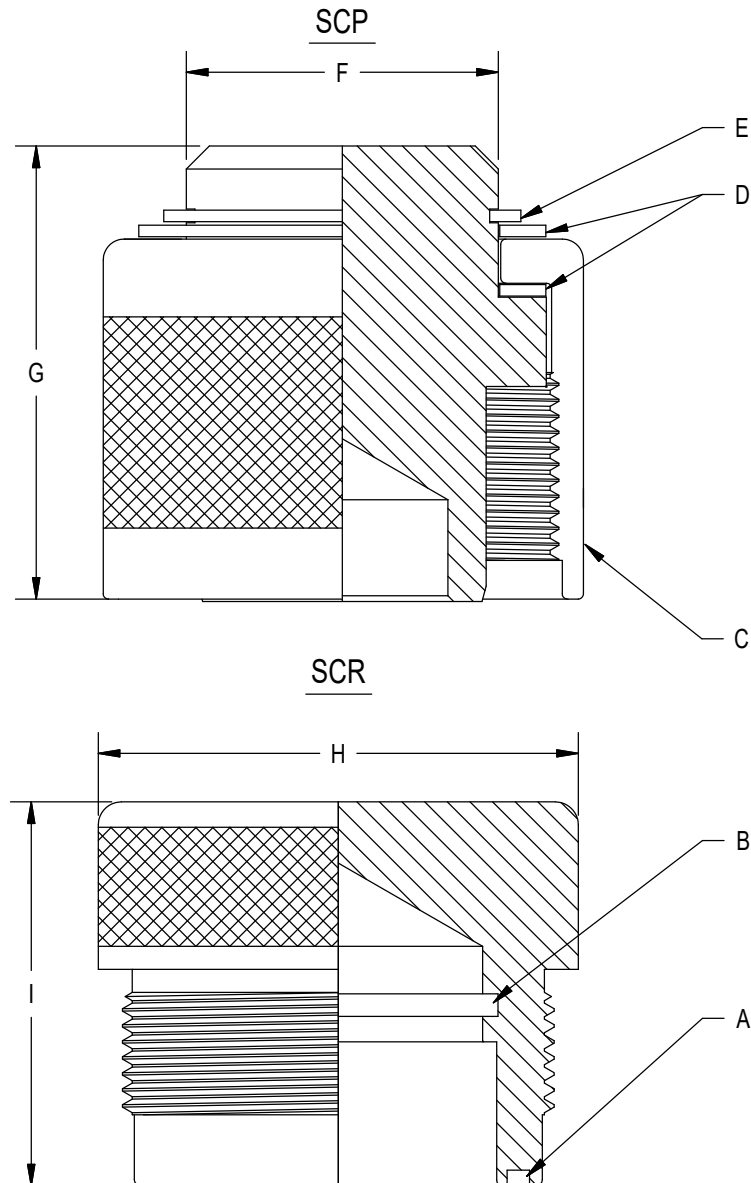
*** FCR uses 2-240.

CCP DETAILED ASSEMBLY



SCALE NONE

SHELL SIZE	G	K	L	M	O	Q
A O-RING	NONE	2-017	2-021	2-024	2-127	2-137
B WASHER	NONE	35000 S 31	35000 S 32	35000 S 33	35000 S 34	35000 S 36
C SPIROLOX RING	NONE	UR-87	UR-112	UR-137	UR-162	UR-225
D DELRIN WASHER (2X)	NONE	35000 P 11	35000 P 12	35000 P 13	35000 P 14	35000 P 16
E RETAINING RING	5100-87	5100-112	5100-137	5100-162	5100-212	5100-275
NOTE: See Technical Bulletin 45 10 for J size detailed assembly.						



CONNECTOR SIZE	MSK	MSL	MSM	MSO	MSQ
A O-RING	2-027	5-320	2-132	2-140	2-151
B O-RING	2-023	2-027	2-128	2-225	2-230
C ENGAGING NUT	607406	607507	607606	607706	607917
D DELRIN WASHER (2X)	35000 P11	35000 P12	35000 P13	35000 P14	35000 P16
E RETAINING RING	5100-112	5100-137	5100-162	5100-212	5100-275
F DIA	1.11	1.38	1.62	2.12	2.75
G	1.56	1.56	2.37	2.37	2.37
H DIA	1.87	2.12	2.50	3.00	3.87
I	1.50	1.50	2.00	2.00	2.12
MATED PRESSURE RATING (psi)	20,000	20,000	20,000	20,000	20,000

SCALE NONE

DESCRIPTION AND
MATERIAL

- 316 stainless steel passivated per QQ-P-35 Type VI with naval bronze engaging nut.
- Optional material is (MSA) 6061-T6 Aluminum, hard anodized per MIL-A-8625, Type III, Class 2. (AVAILABLE IN STRAIGHT CONFIGURATION ONLY).
- Available in sizes: K, L, M & Q.
 - K - 1/2" O.D. Tube (Maximum)
 - L - 3/4" O.D. Tube (Maximum)
 - M - 1" O.D. Tube (Maximum)
 - Q - 1-1/4" O.D. Tube (Maximum)Customer to specify tube size at time of order.
- Up to 5,000 VDC.
- To 7,500 PSI in Mated Condition.
- Insert is glass reinforced epoxy with brass contacts.
- Contacts gold plated per MIL-G-45204.

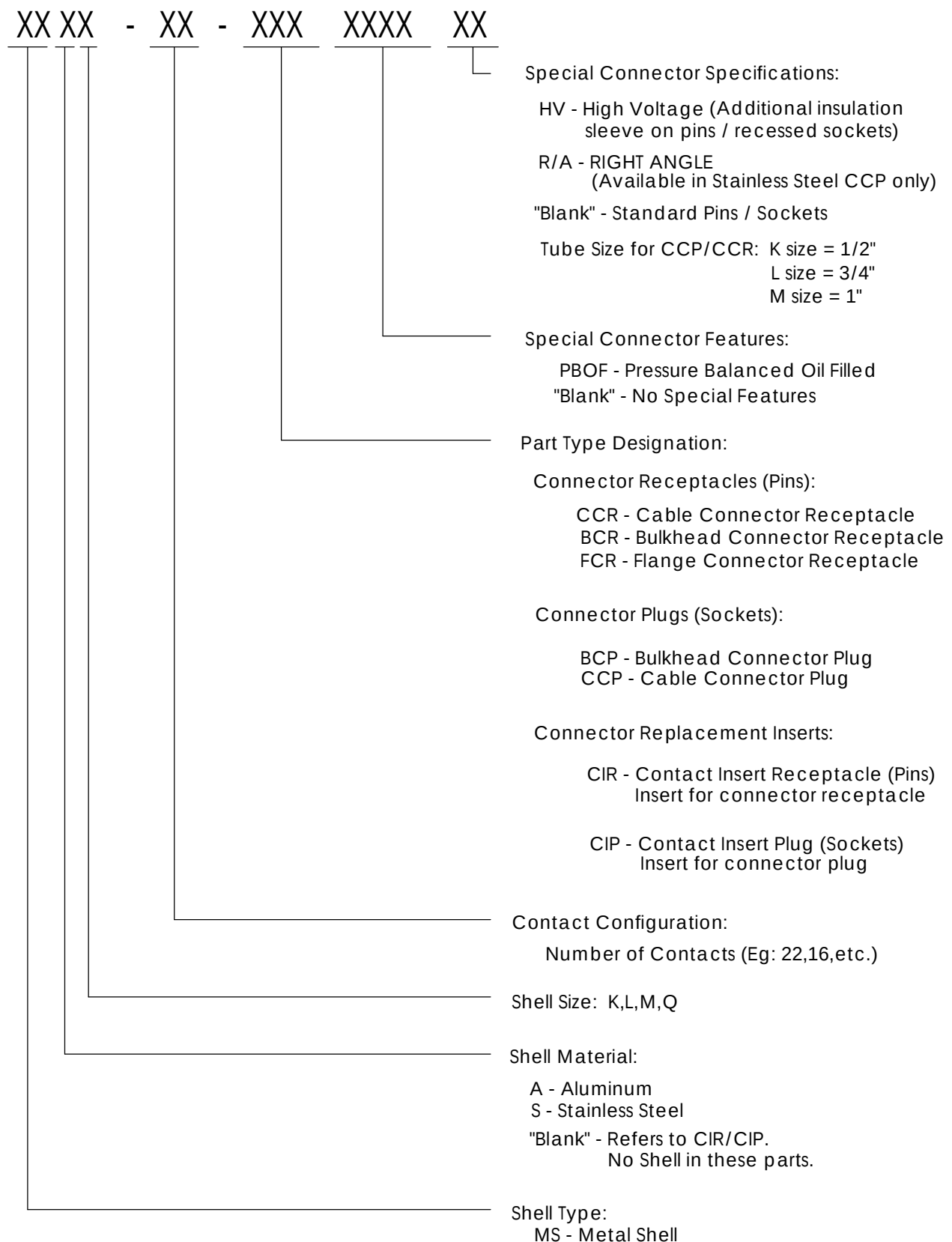
MATING

- PBOF Series mates with Metal Shell BCR, FCR, and CCR.

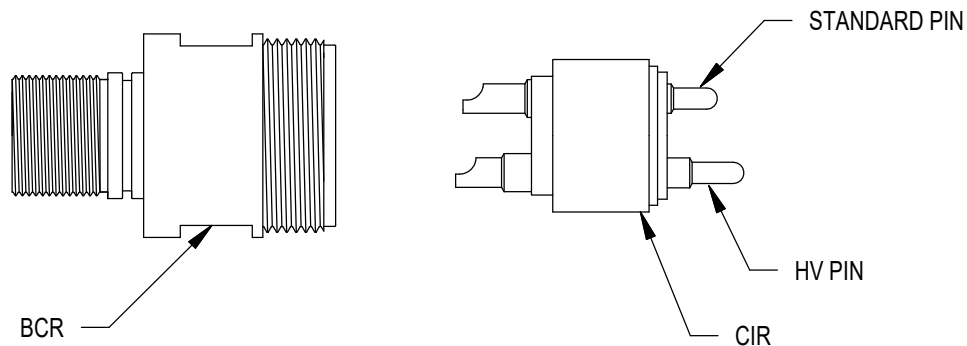
USES

- Heavy duty applications.
- Hazardous, rugged environments.
- Power transmission.
- Signal telemetry.
- Commonly used on ROV's and large transducers.

PBOF PART NUMBER GUIDE



BULKHEAD CONNECTOR RECEPTACLE

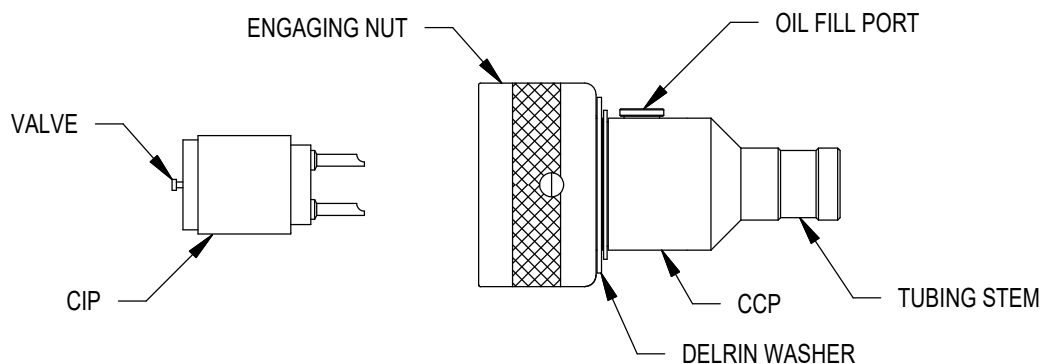


MSSL-*-BCR PBOF HV

DESCRIPTION:

SHELL TYPE: MS - METAL SHELL
 SHELL MATERIAL: S - STAINLESS STEEL
 SHELL SIZE: L
 CONTACT CONFIGURATION: *
 PART TYPE: BCR - BULKHEAD CONNECTOR RECEPTACLE
 SPECIAL FEATURES: PBOF - PRESSURE BALANCED OIL FILLED
 SPECIAL CONTACT SPECS: HV - HIGH VOLTAGE

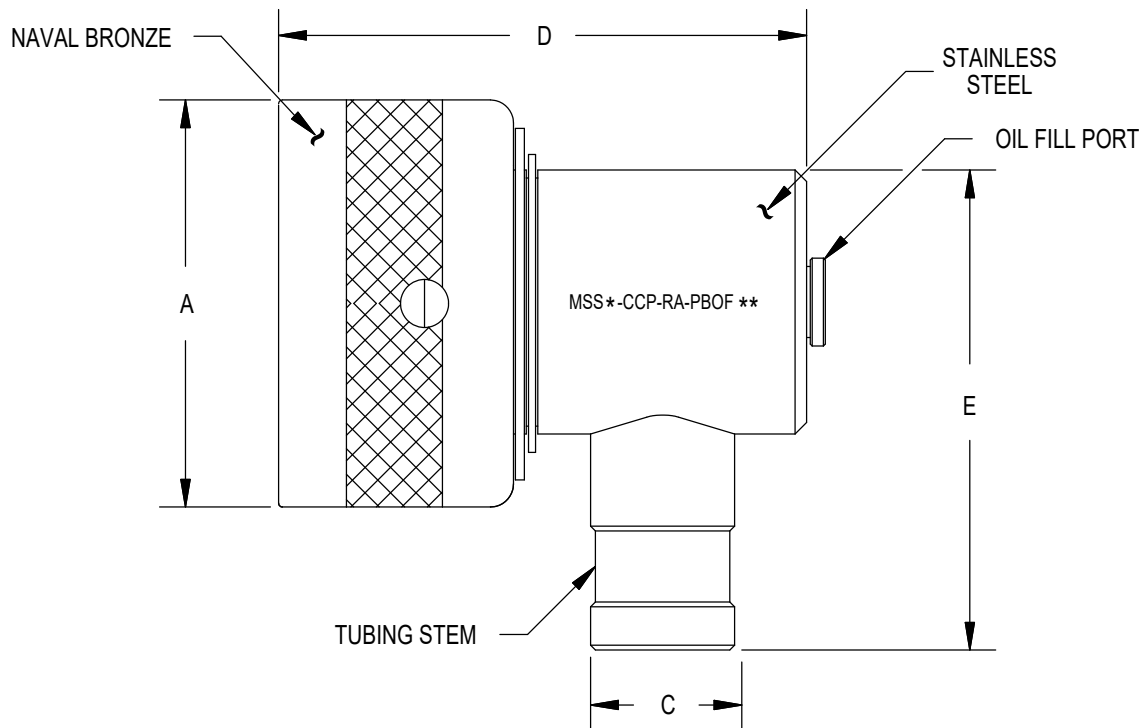
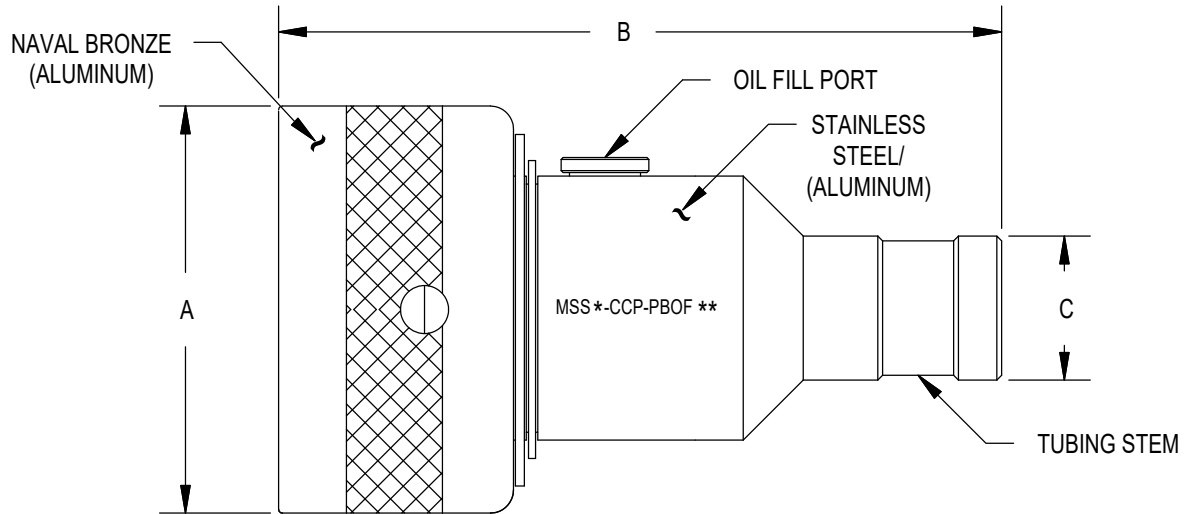
CABLE CONNECTOR PLUG



MSAL-*-CCP PBOF w/ 3/4" Tube

DESCRIPTION:

SHELL TYPE: MS - METAL SHELL
 SHELL MATERIAL: A - ALUMINUM
 SHELL SIZE: L
 CONTACT CONFIGURATION: *
 PART TYPE: CCP - CABLE CONNECTOR PLUG
 SPECIAL FEATURES: PBOF - PRESSURE BALANCED OIL FILLED
 3/4" TUBE - ID OF TUBING TO BE USED
 (3/4" STANDARD FOR OCEANEERING)

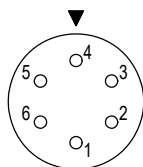


SHOWN SHELL SIZE 'L'

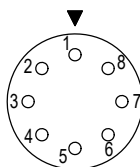
SHELL SIZE	A	B	C	D	E
K	1.87	3.50	1/2" MAX	2.60	2.12
L	2.12	3.75	3/4" MAX	2.75	2.50
M	2.50	5.00	1" MAX	3.70	3.00
Q	3.87	7.00	1-1/4" MAX	4.00	4.12

NOTE: Specify O.D. of tube at time of order.
 * Specify shell size.
 ** See Technical Bulletin 45 72 for internal assembly and hardware specifications.

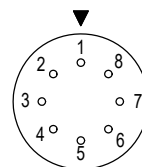
K SIZE CONTACT
CONFIGURATION
(BCR FACE VIEWS)



6#16
1500VDC

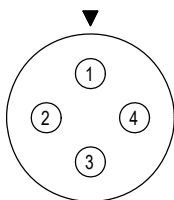


8#16
1000VDC

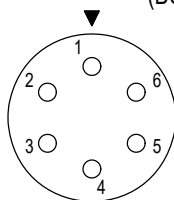


8#20
600VDC

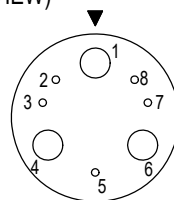
L SIZE CONTACT
CONFIGURATION
(BCR FACE VIEW)



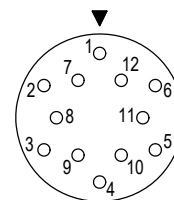
4#8
High Voltage
3000VDC



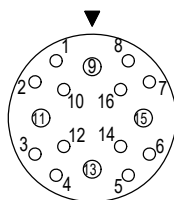
6#14
1000VDC



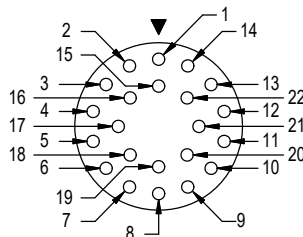
5#20
3#8
600VDC



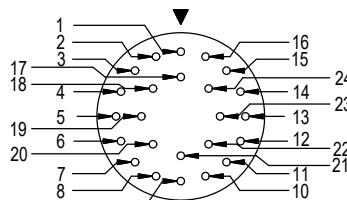
12#16
1000VDC



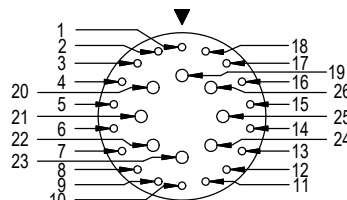
4#14
12#16
1000VDC



22#16
1000VDC

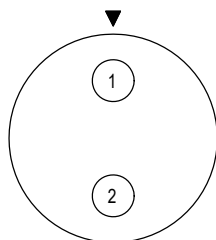


24#20
600VDC

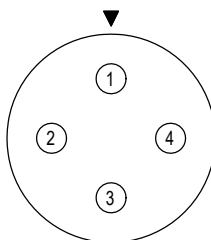


8#16
18#20
300VDC

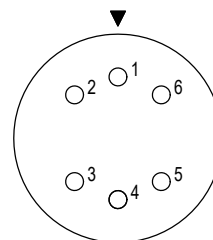
M SIZE CONTACT
CONFIGURATION
(BCR FACE VIEWS)



2#6
1000 VDC



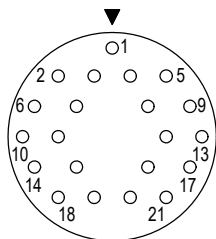
4#8 *
1000VDC



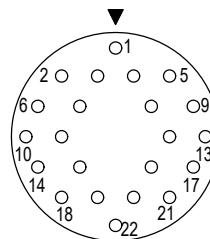
6#14
600VDC

* Also available in high voltage.
(3000 VDC)

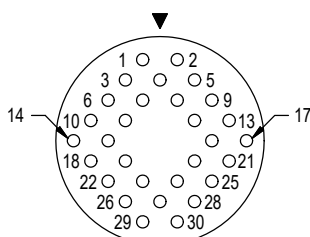
M SIZE CONTACT
CONFIGURATION
(BCR FACE VIEWS)



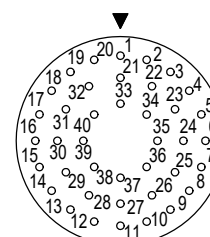
21#16
600VDC



22#16
600VDC

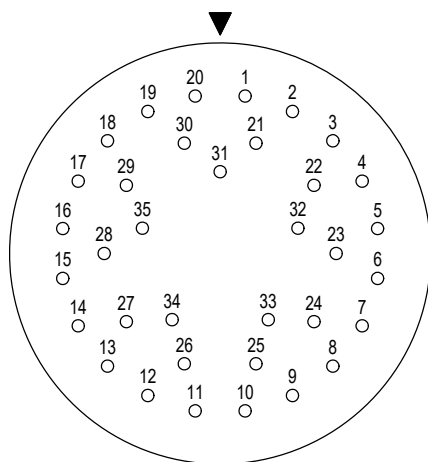


30#16
600VDC

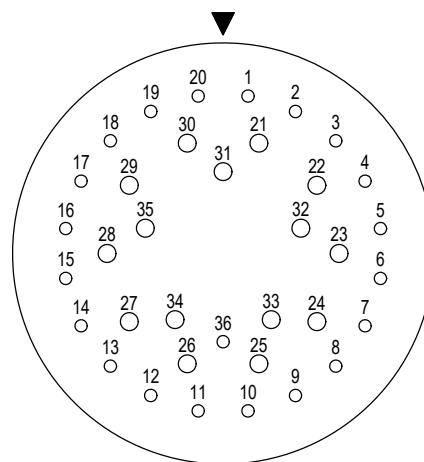


40#20
300VDC

Q SIZE CONTACT
CONFIGURATION
(BCR FACE VIEWS)

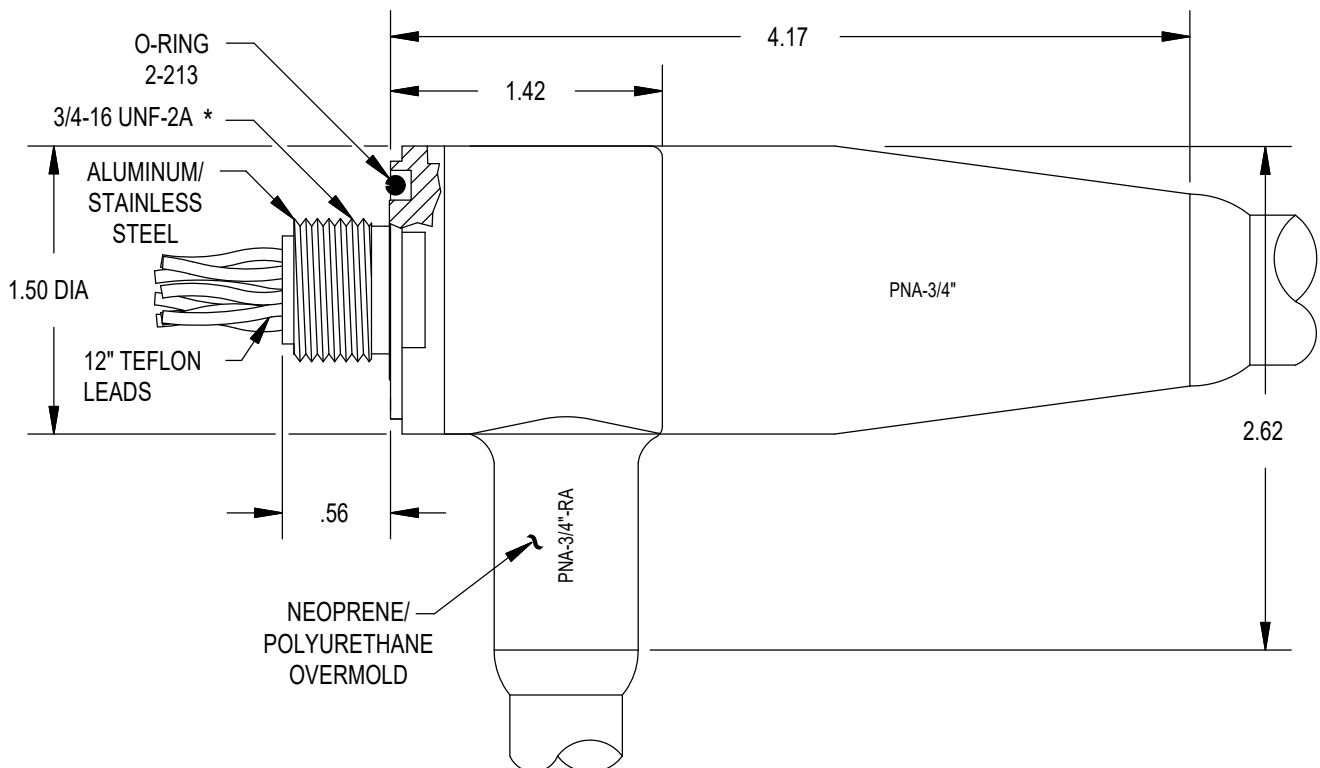
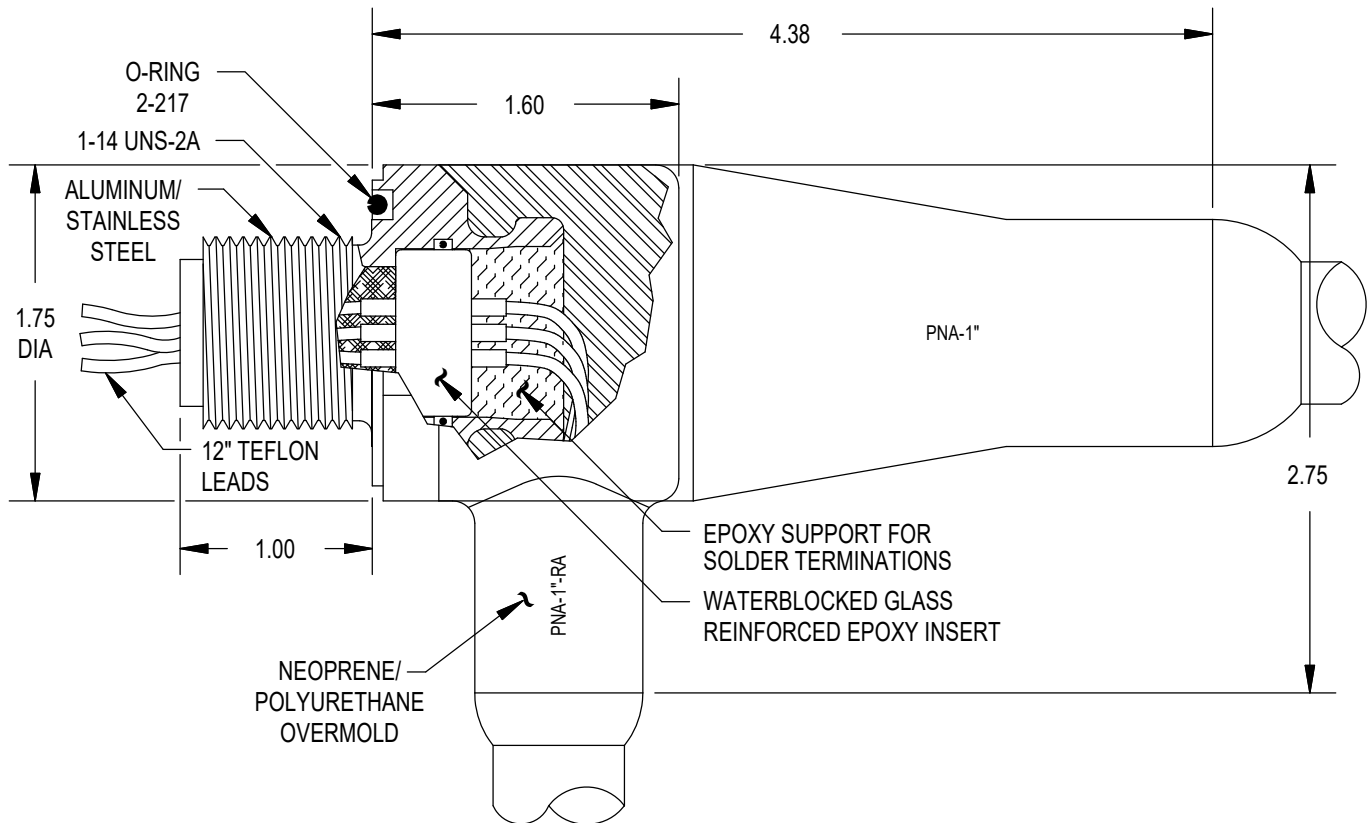


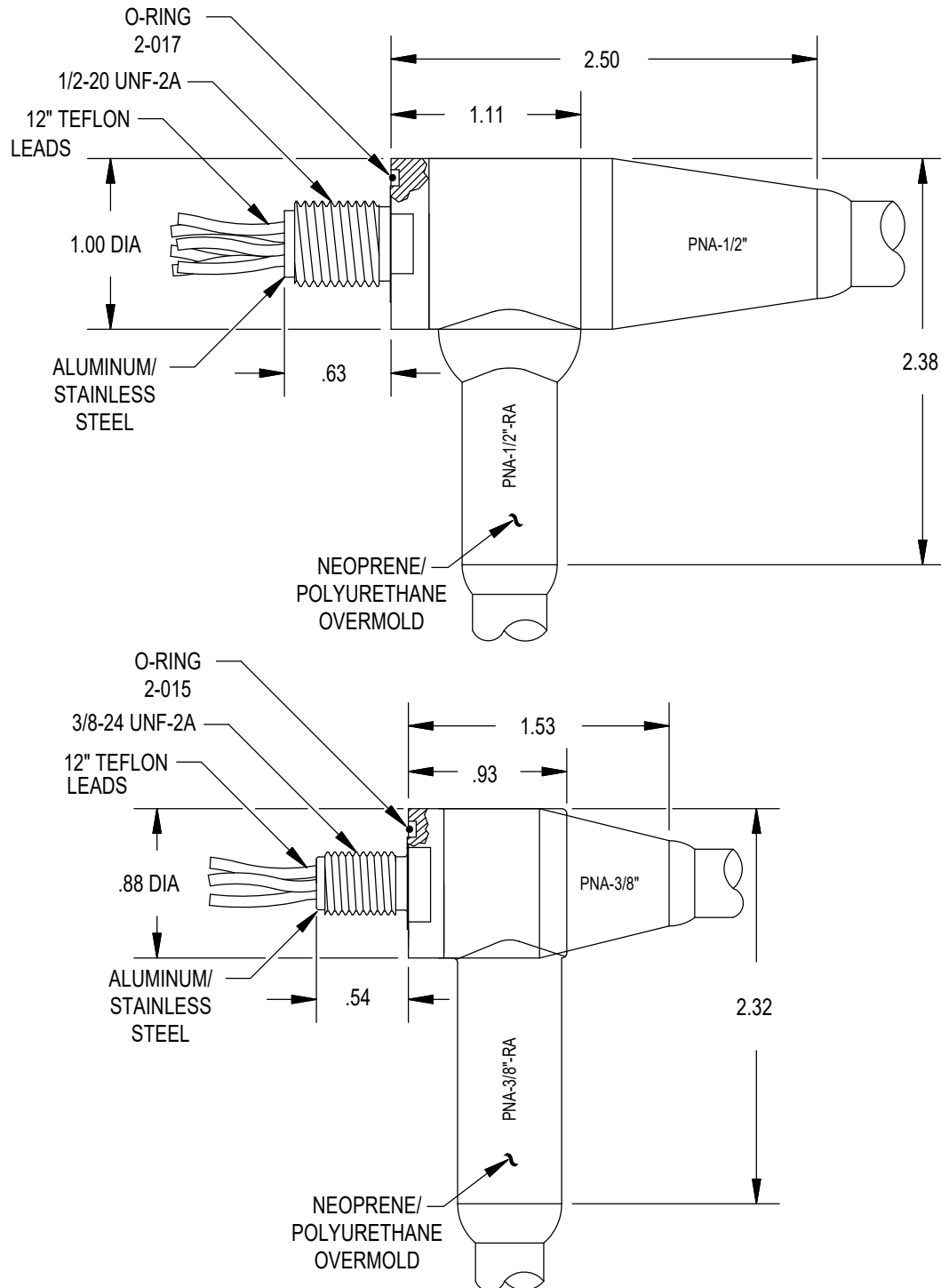
35#16
(High Voltage)
2000VDC



15#14
21#16
(High Voltage)
2000VDC

DESCRIPTION AND MATERIAL	• 316 stainless steel body passivated per QQ-P-35 Type VI. • Optional body is 6061-T6 aluminum, hard anodized per MIL-A-8625, Type III, Class 2. • Metal body waterblocked with glass reinforced epoxy insert and neoprene or polyurethane overmolded. • One to 30 conductors depending on gauge of conductors. • Up to 600 VDC. • Up to 10,000 PSI.
MATING	• This penetrator is threaded at one end with wire leads coming through the thread hole. The opposite end away from the penetrator can be terminated to a rubber, epoxy or metal shell connector. See applicable sections of catalogue for details.
CABLE	• Penetrators have 12" teflon leads, Type E per MIL 16878/4 18 AWG(except 1" PNA-26 and 30 contact versions). • The penetrator's amperage and voltage may be limited by amperage and voltage ratings of the cable to which the penetrator is molded.
USES	• Light to medium duty applications. • Hazardous environment. • Power transmission. • Signal telemetry. • Keeps mating and unmating manipulation away from bulkhead. • Allows greater flexibility in mating cable away from bulkhead. • Waterblocked insert keeps bulkhead from flooding if accidental cable damage occurs. • Very low right angle profile.
GUIDELINES	• May be threaded into bulkhead or fastened by use of a nut and washer. • All mounting surfaces require a 32 finish. • Keep o-ring grooves clean. • Avoid o-ring cuts and nicks. • Lubricate o-rings with Dow Corning #111 Valve Lubricant or equivalent. • Replace o-rings when re-using connectors. • Avoid contact with noxious solvents. • Elastomers can be seriously degraded if exposed to direct sunlight or high ozone levels for extended periods of time.

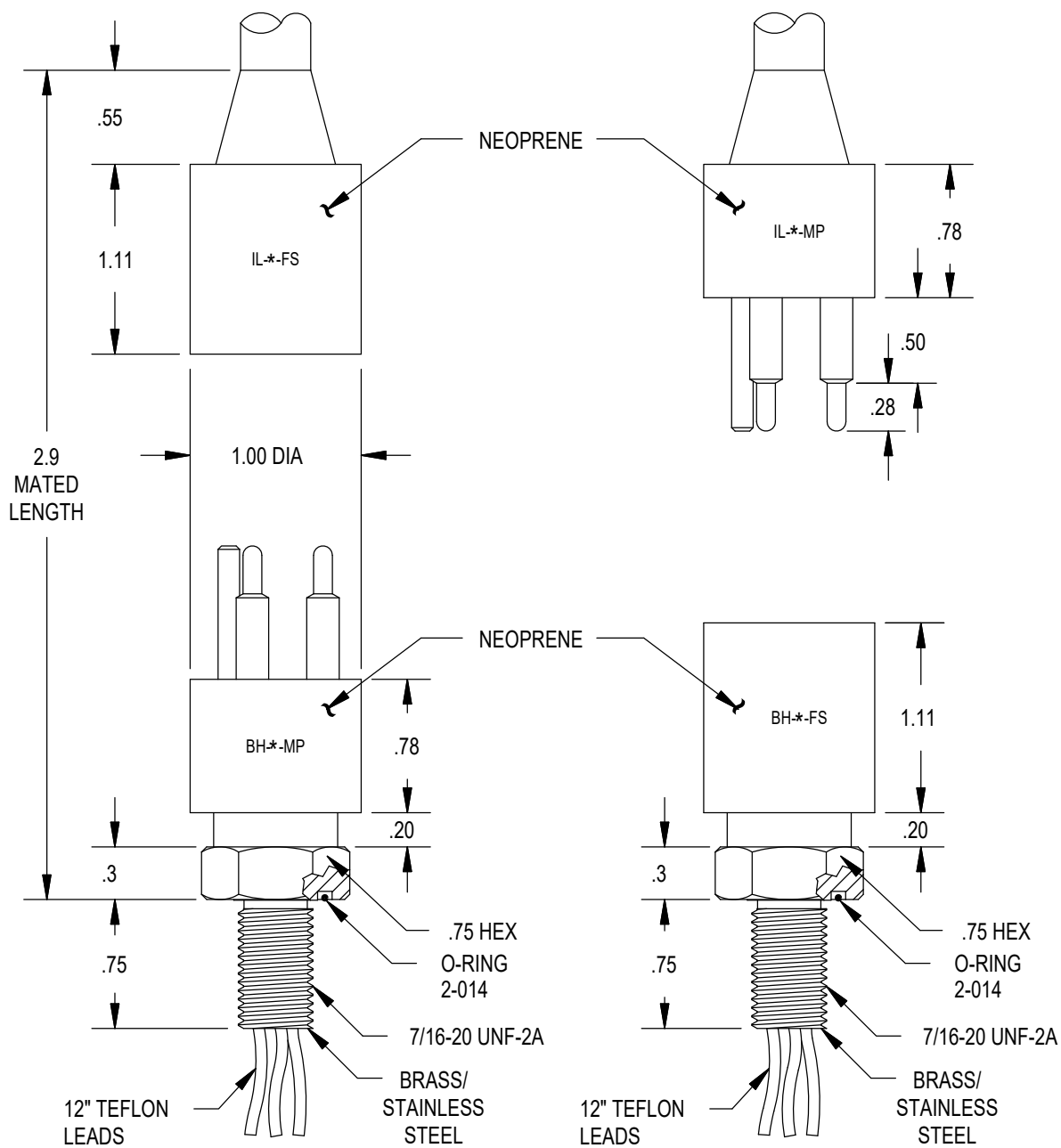


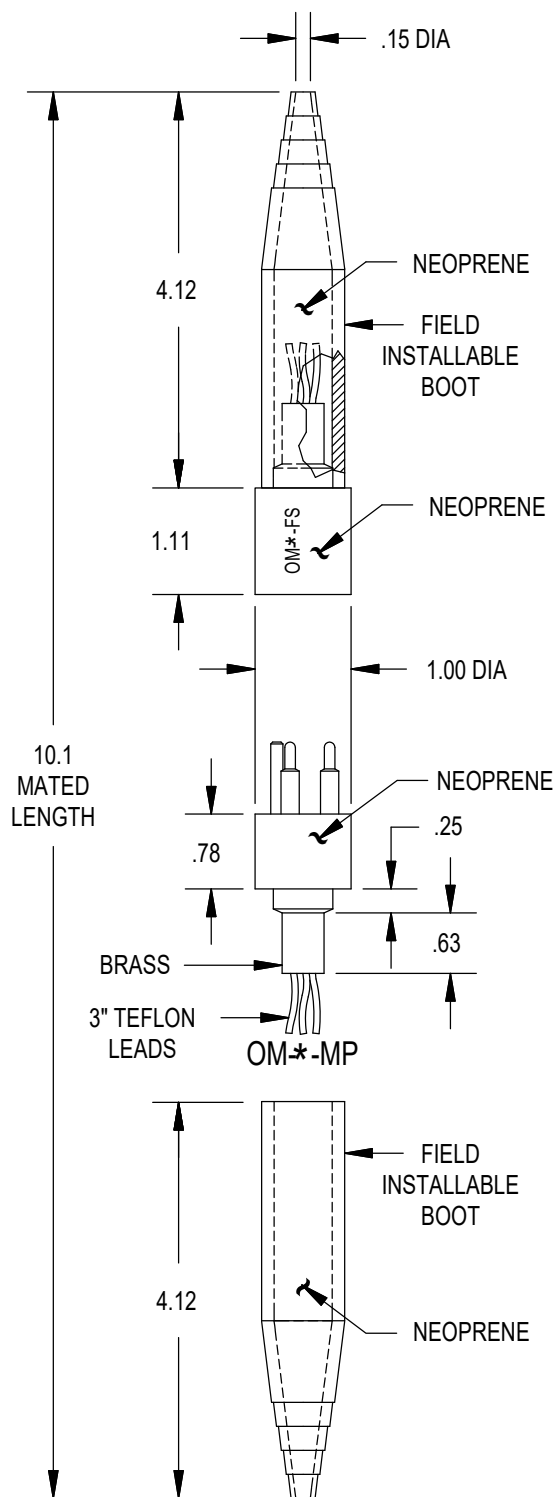


PNA SIZE	MOUNTING TORQUE FOR SS PNA (in lbs)	MOUNTING TORQUE FOR ALUMINUM PNA (in lbs)	PRESSURE RATING (psi)	MAXIMUM # OF CONTACTS
1"	200	150	10,000	30
3/4"	150	100	10,000	8
1/2"	125	80	10,000	9
3/8"	100	70	10,000	3(ALUM)/4(SS)
* Optional 5/8-18 UNF-2A stainless steel body available.				
* Waterblocked glass reinforced epoxy insert available as separate item.				

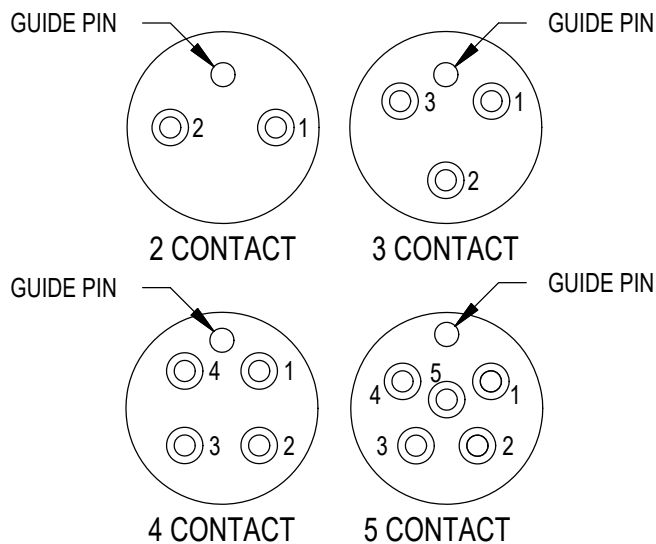
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DESCRIPTION AND MATERIAL	• Molded neoprene, some types available in polyurethane. • Two to twelve contacts, 12 AWG. (LPIL/LPBH-12 has 16 AWG. contacts.) • Up to 750 VDC. • Up to 10,000 PSI. • Bulkhead connector design open face pressure rated to 5,000 PSI. • Contacts gold plated per MIL-G-45204. • Individual contact sealing allows surface mating when wet.
CABLE	• Connectors in this series are molded on a standard 24" length of 16 AWG SO cable. IL-5, IL-12, LPIL-5 are molded on a standard 24" length of 18 AWG SO cable. LPIL-12 is molded on a standard 24" length of 20 AWG cable. • Custom lengths and cable types are available on request. • Bulkhead connectors have 12" teflon leads, Type E per MIL 16878/4 18 AWG.
USES	• Light to heavy duty applications. • Hazardous environments.
GUIDELINES	• All mounting surfaces require a 32 finish. • Lubricate mating surfaces with 3M Silicone Lubricant or equivalent, DO NOT grease! Connectors must be lubricated on a regular basis. • Lubricate o-rings with Dow Corning #111 Valve Lubricant or equivalent. • Align index pin prior to mating. • Avoid nicks and cuts around contacts as these are the sealing surfaces. • Elastomers can be seriously degraded if exposed to direct sunlight or high ozone levels for extended periods of time. • Do not over tighten bulkhead nuts. • Do not pull on cable to disconnect. • Avoid sharp bends at cable entry to connector.
ORDERING INFORMATION	• Locking sleeves are optional, specify when ordering. • Bulkhead connectors do not come with nuts and washers. If required, please specify when ordering. • OM connectors do not come with overmolding boots. If required, please specify when ordering.
NOTE	• For Mini Splash Mate see Technical Bulletin page 65 80 • For Micro Mini Splash Mate see Technical Bulletin page 65 109

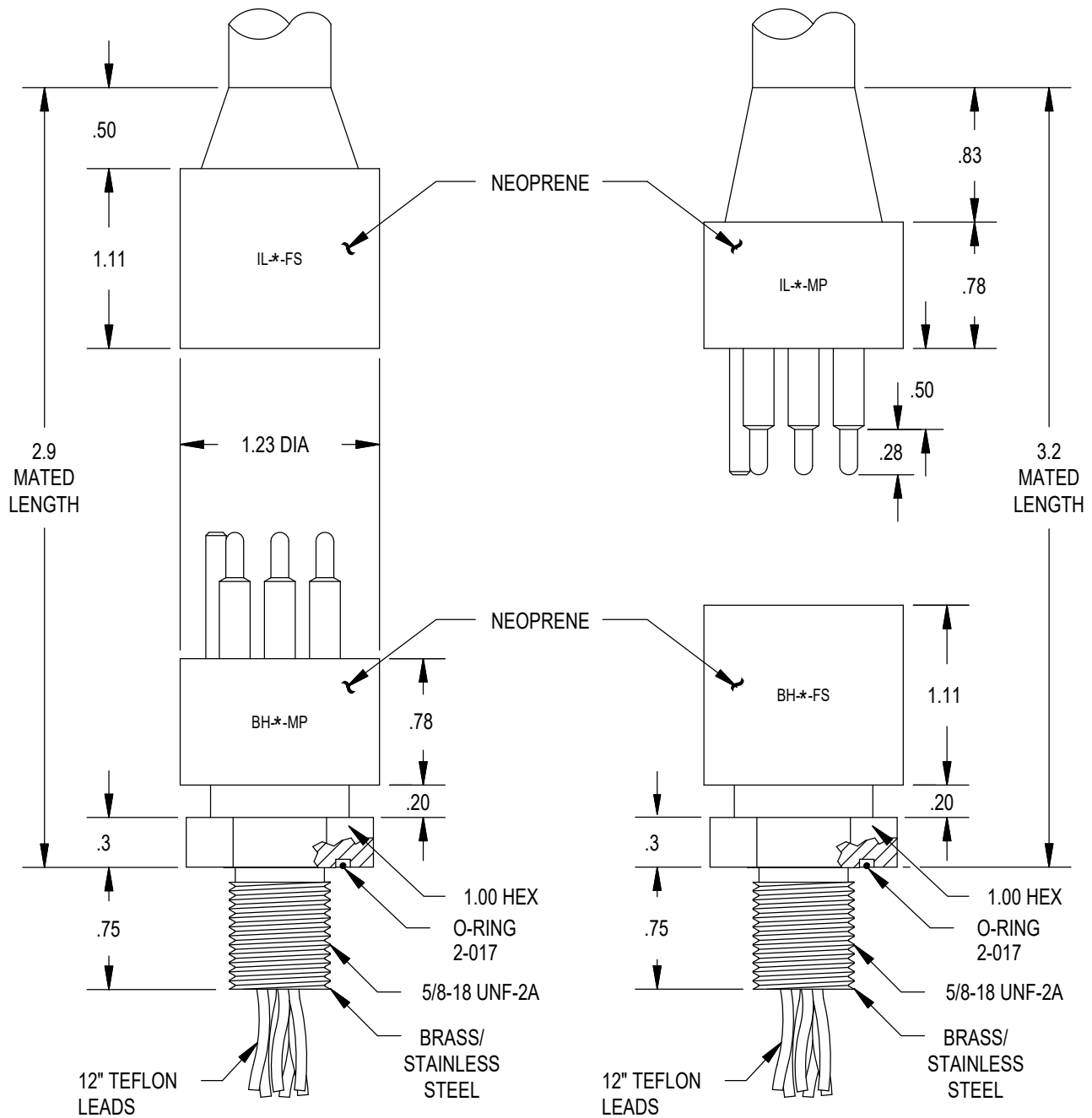


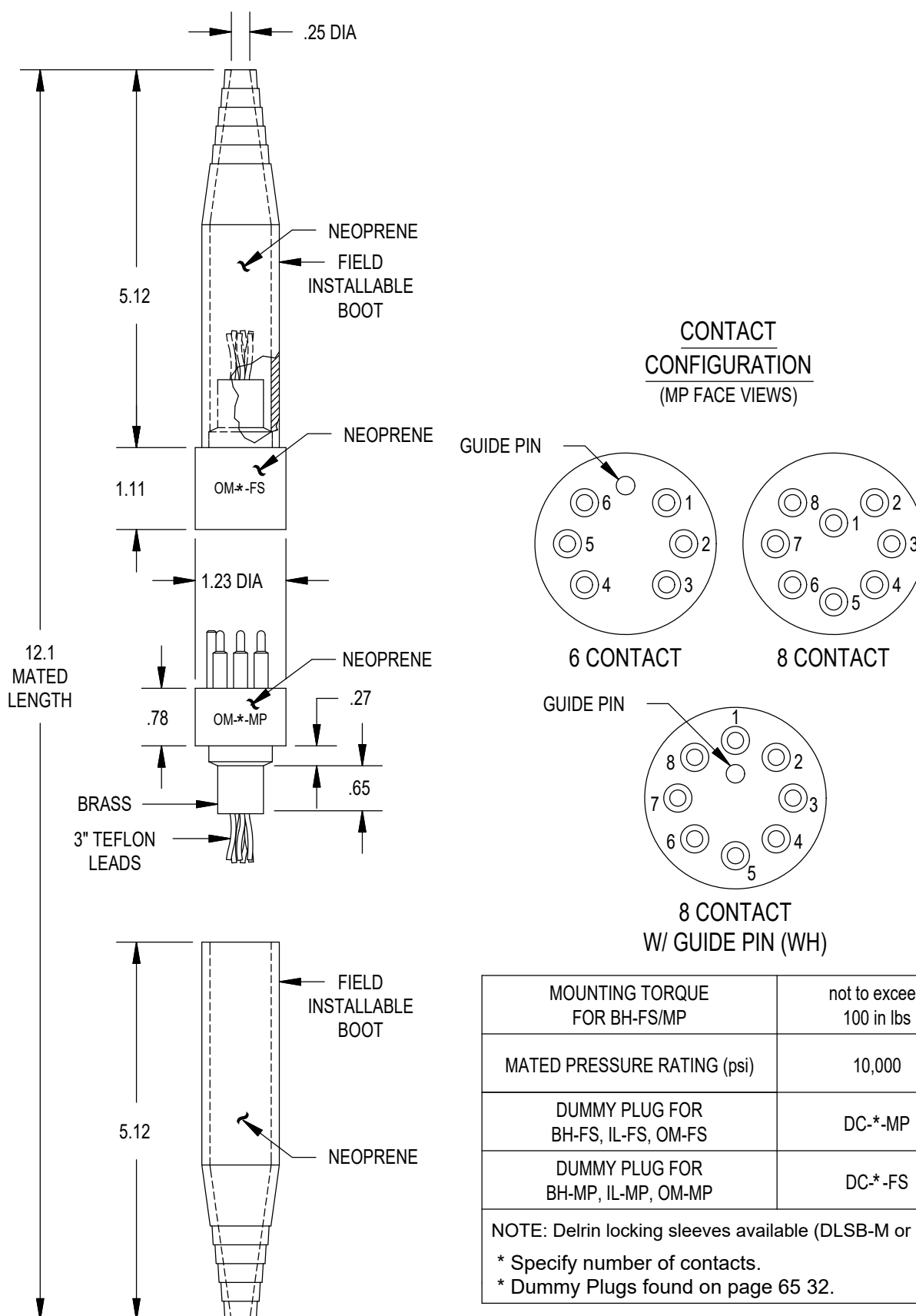


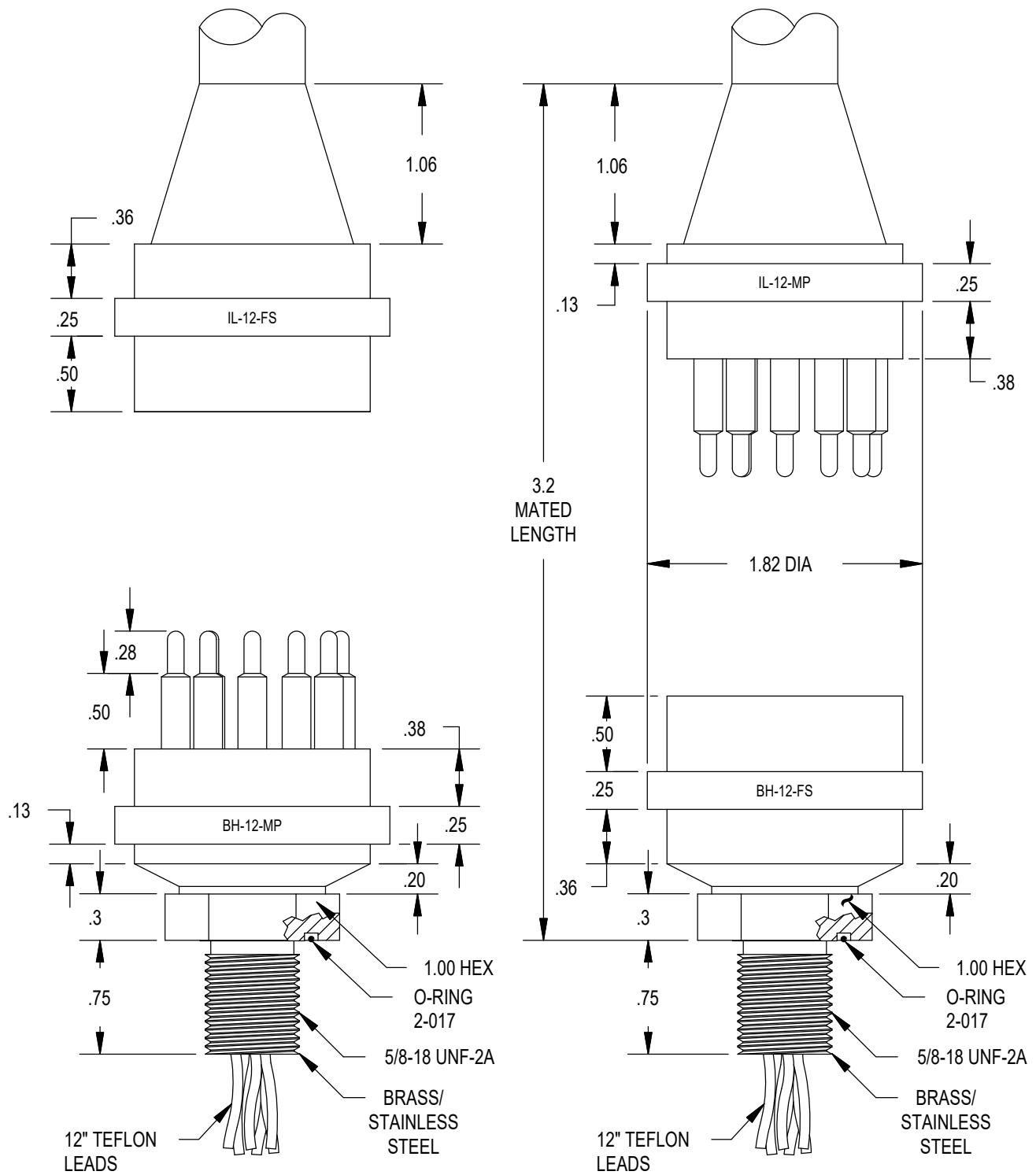
CONTACT CONFIGURATION (MP FACE VIEWS)

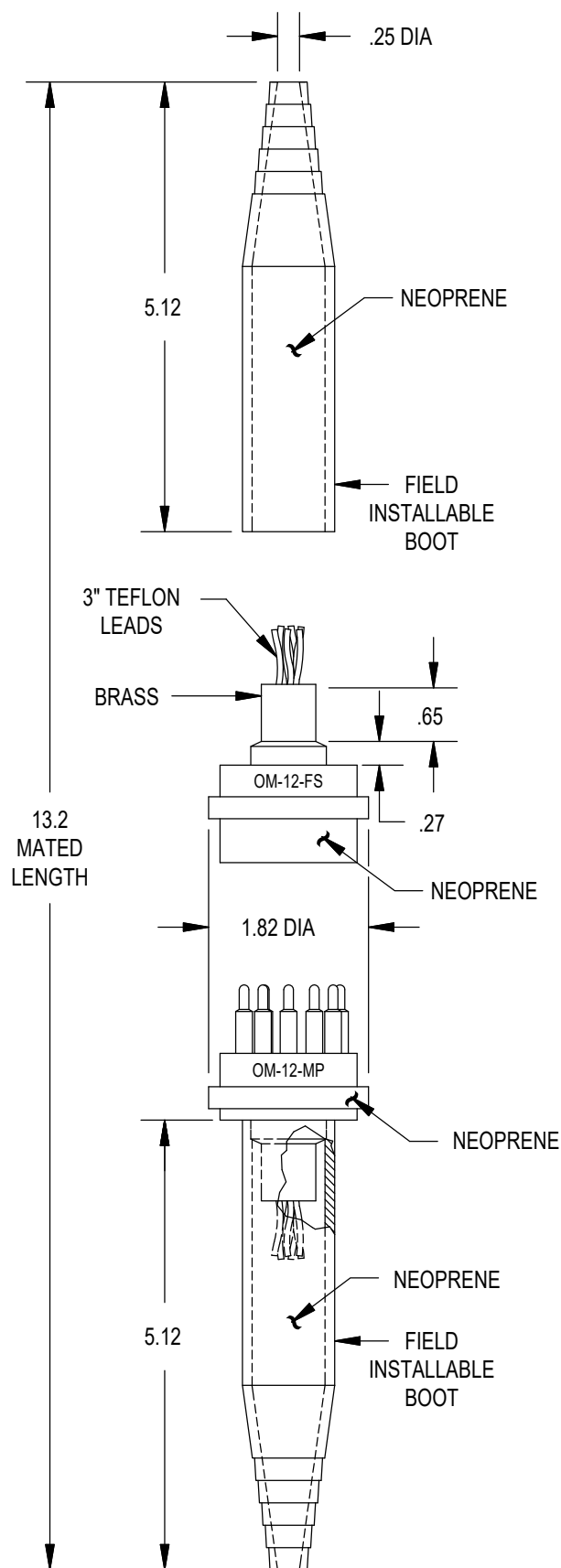


MOUNTING TORQUE FOR BH-FS/MP	not to exceed 100 in lbs
MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR BH-FS, IL-FS, OM-FS	DC*-MP
DUMMY PLUG FOR BH-MP, IL-MP, OM-MP	DC*-FS
NOTE: Delrin locking sleeves available (DLSA-M or F).	
* Specify number of contacts.	
* Dummy Plugs found on page 65 32.	

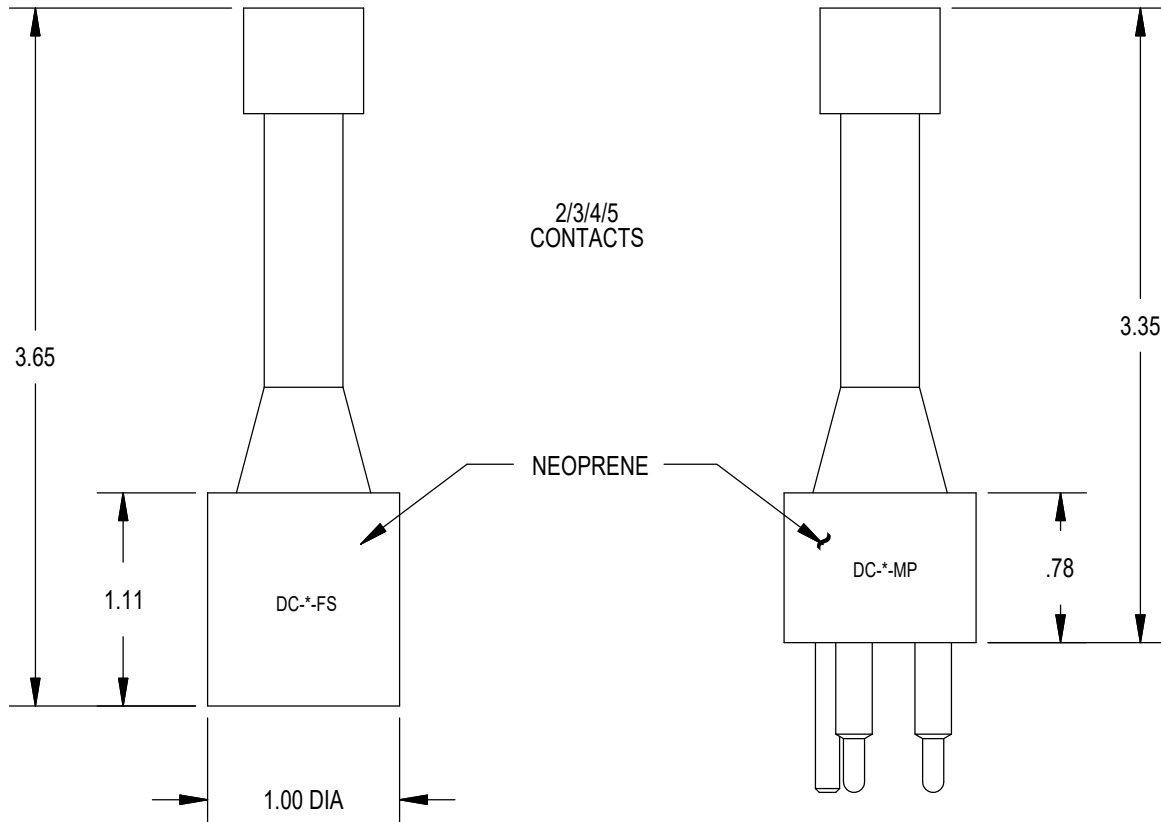




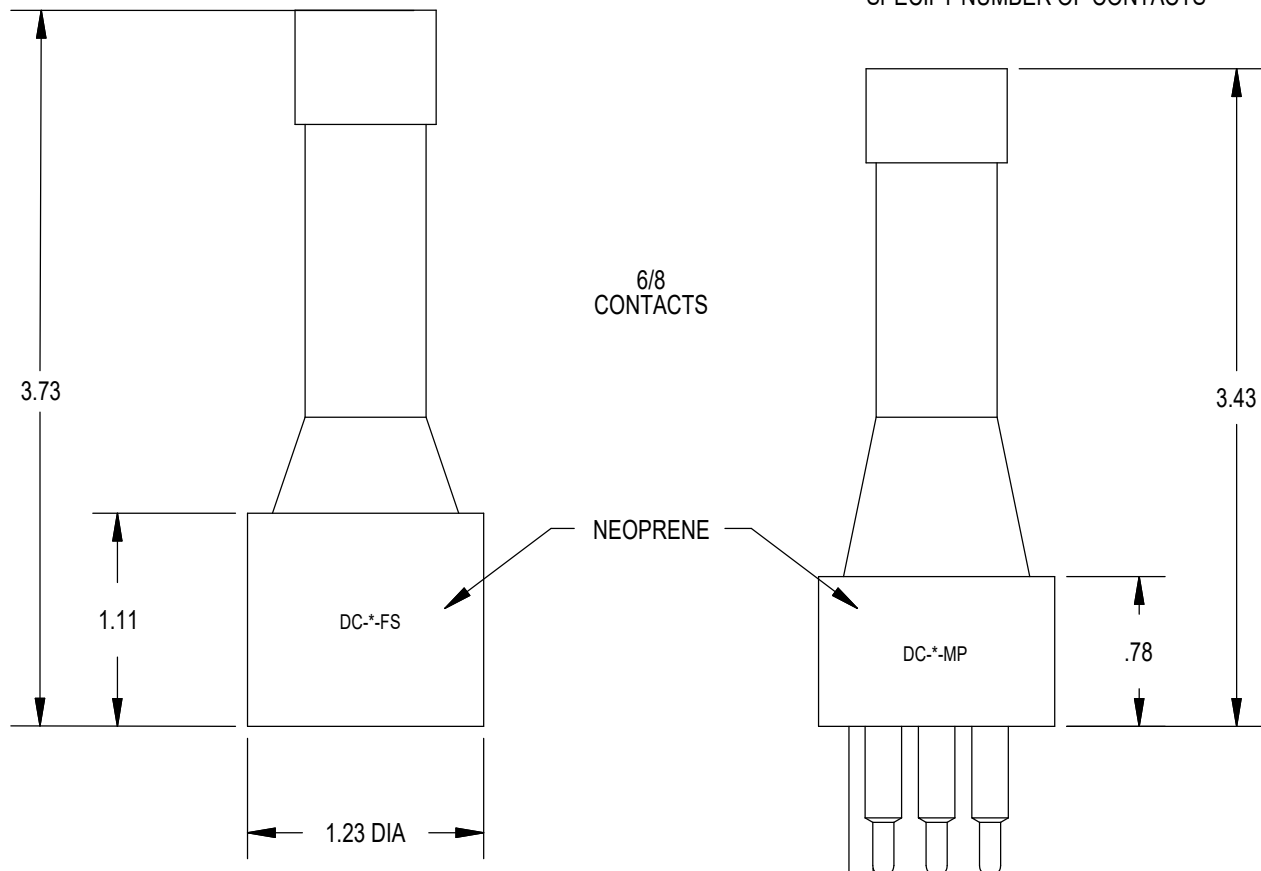


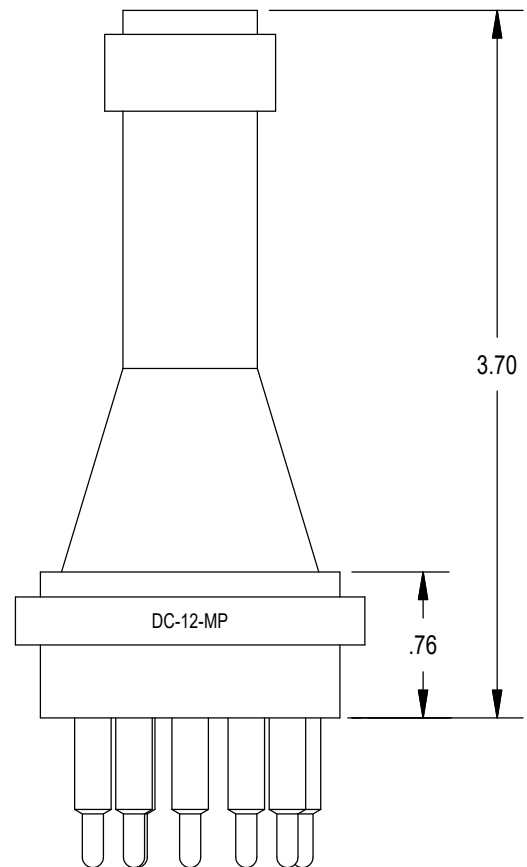
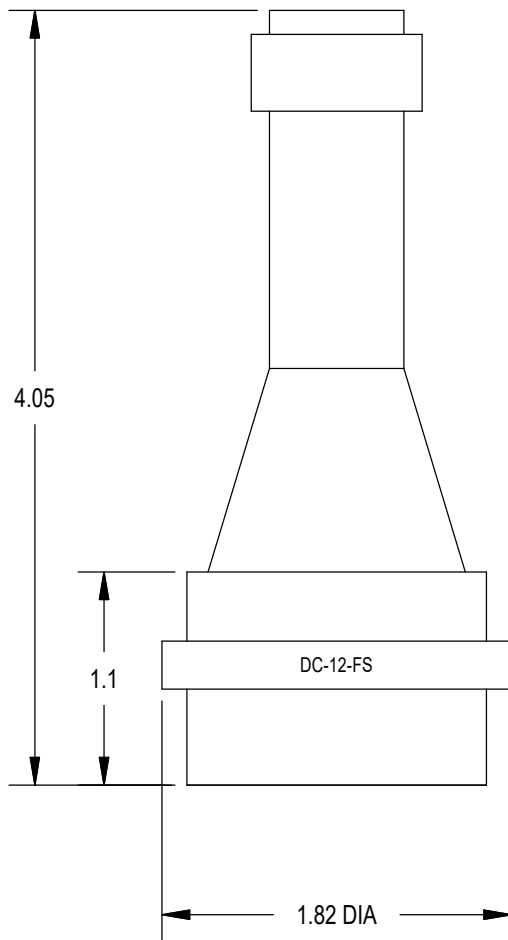


MOUNTING TORQUE FOR BH-FS/MP	not to exceed 100 in lbs
MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR BH-FS, IL-FS, OM-FS	DC-12-MP
DUMMY PLUG FOR BH-MP, IL-MP, OM-MP	DC-12-FS
NOTE: Delrin locking sleeve available (DLSC-M or F). * Dummy Plugs found on page 65 33.	

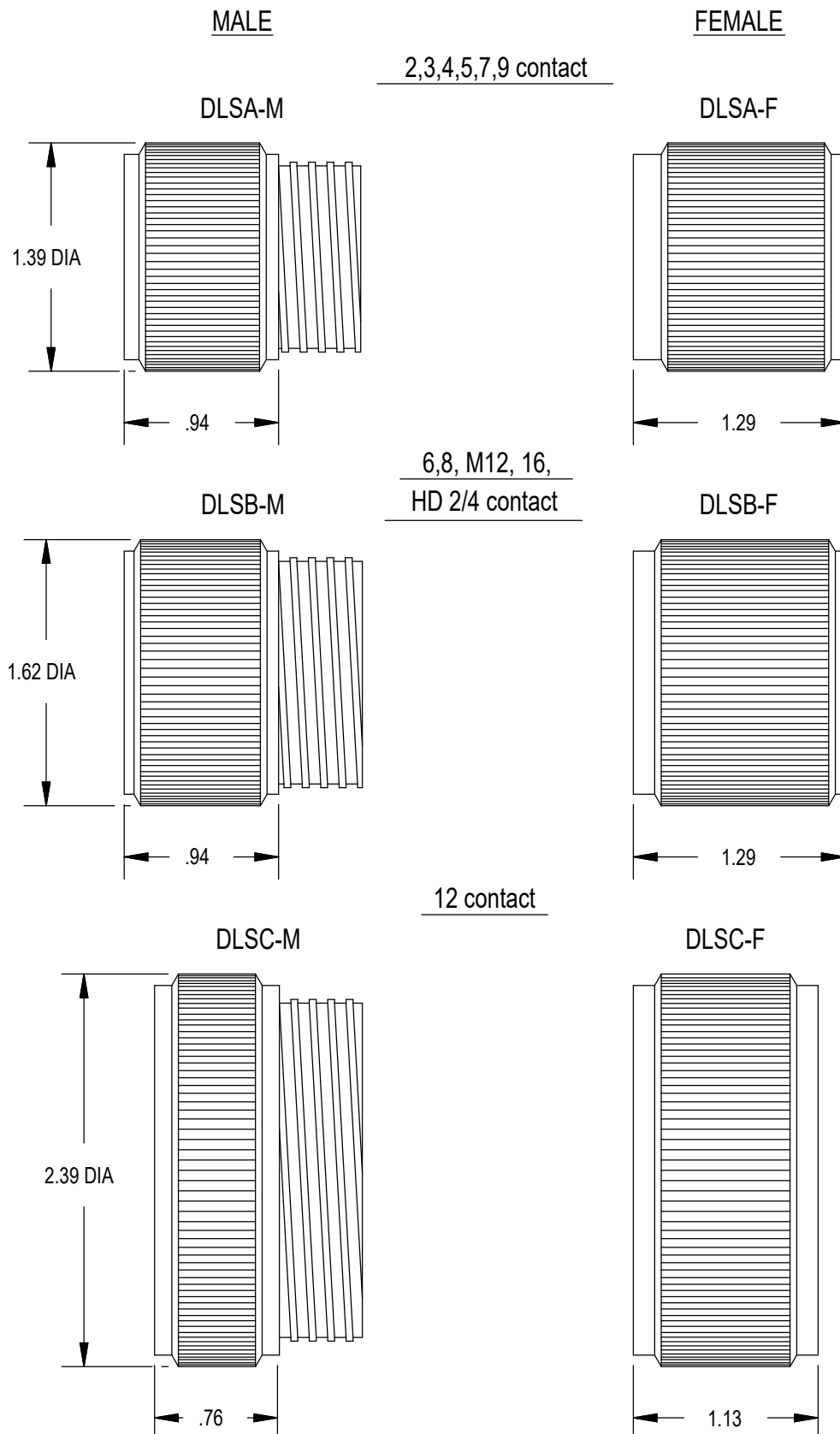


*SPECIFY NUMBER OF CONTACTS



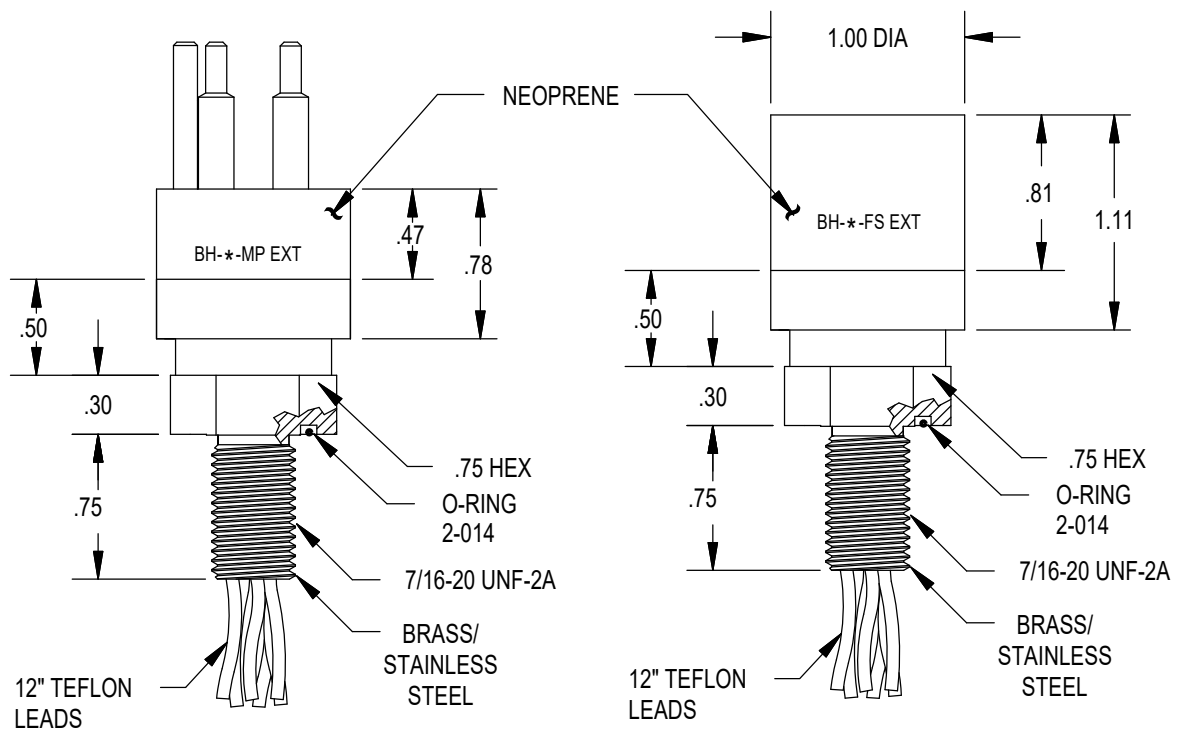
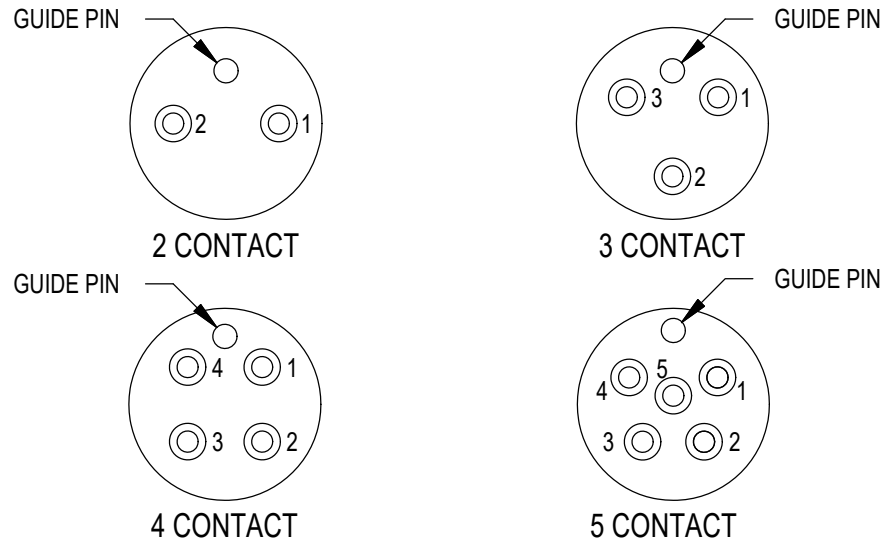


DELTRIN LOCKING SLEEVES



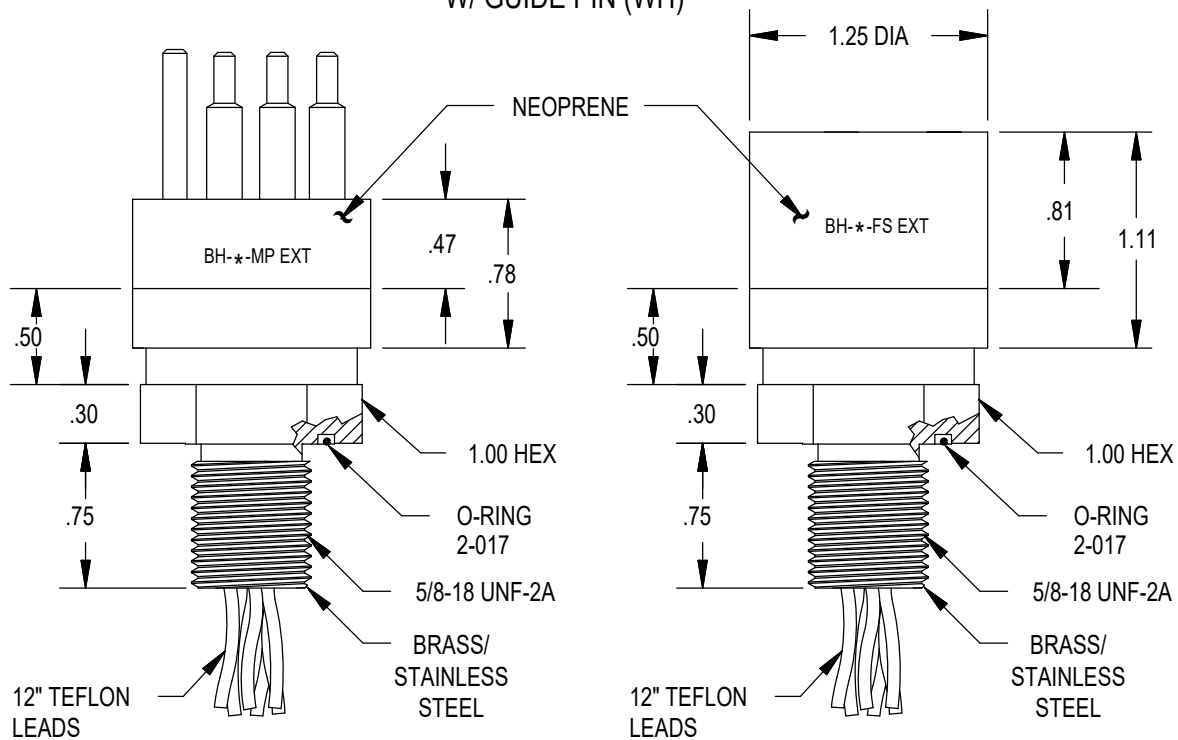
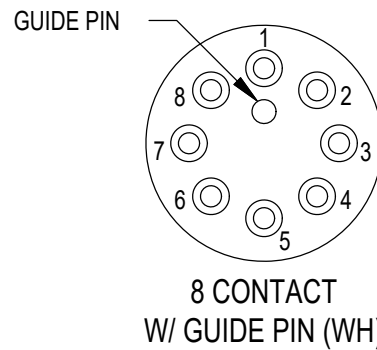
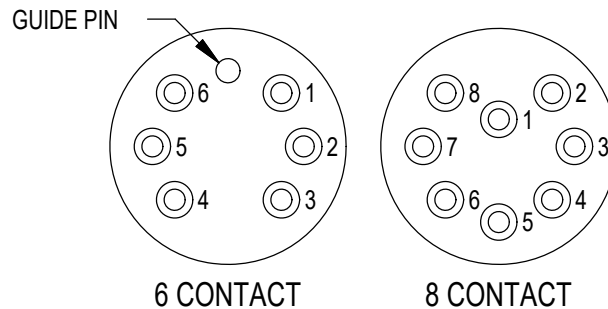
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CONTACT CONFIGURATION (MP FACE VIEWS)

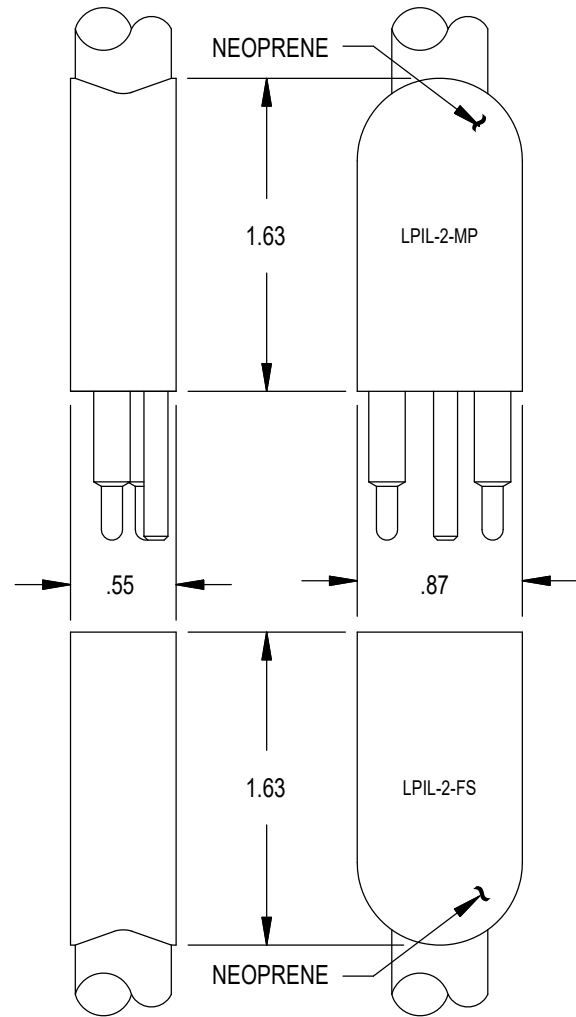
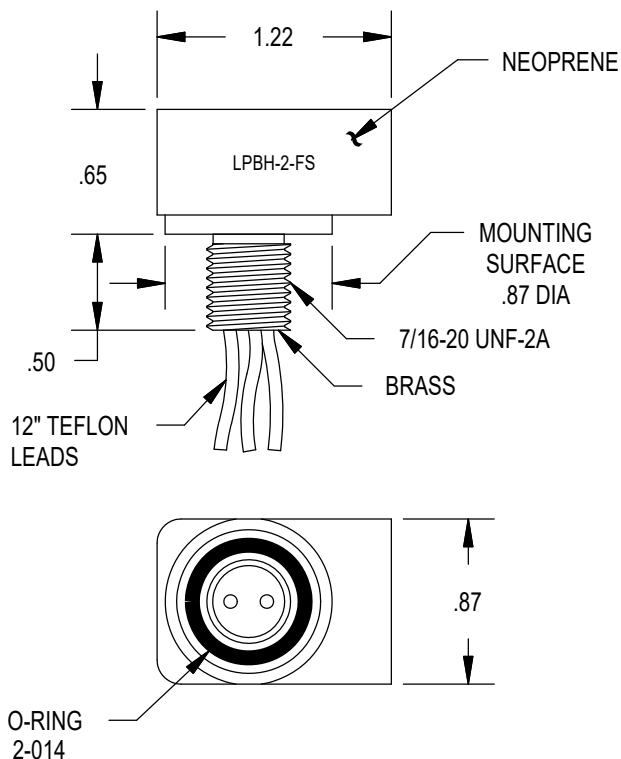
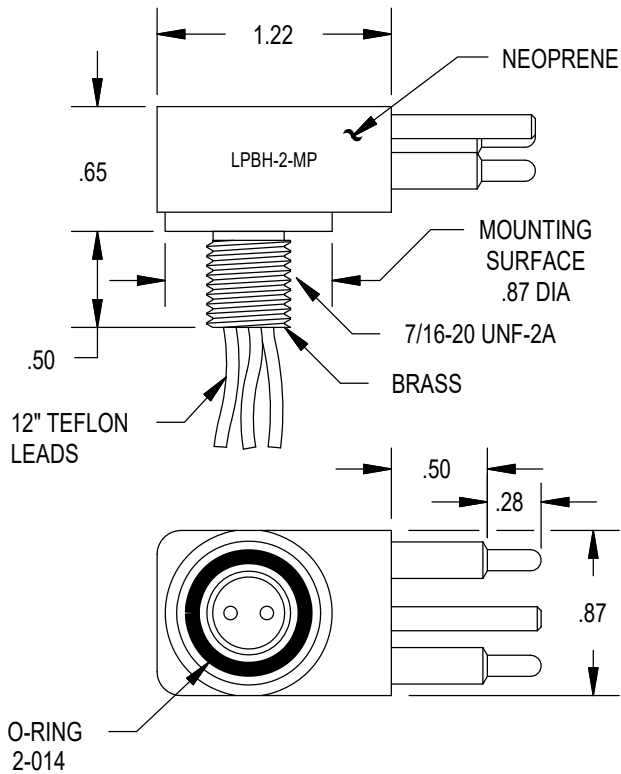


NOTE: For mating connectors see page 65 10
 For dummy connectors see page 65 32
 Delrin locking sleeves available (DLSA-M or F) see Page 65 35

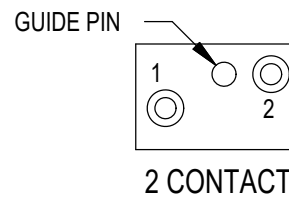
CONTACT
CONFIGURATION
(MP FACE VIEWS)



NOTE: For mating connectors see page 65 20
For dummy connectors see page 65 32
Delrin locking sleeves available (DLSB-M or F) see Page 65 35



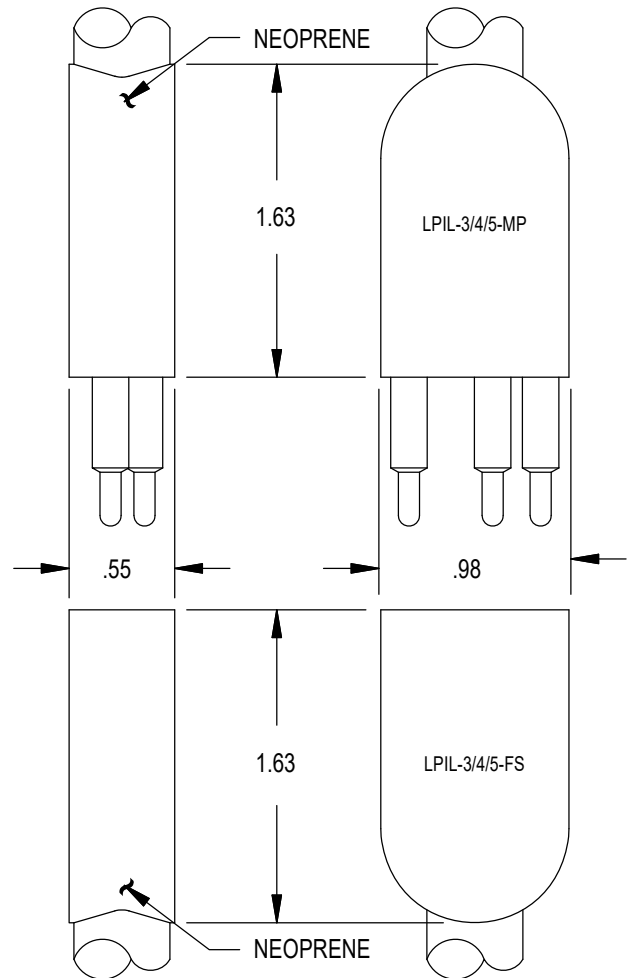
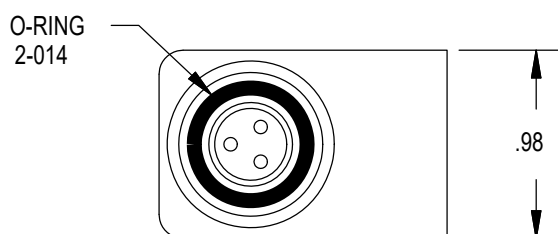
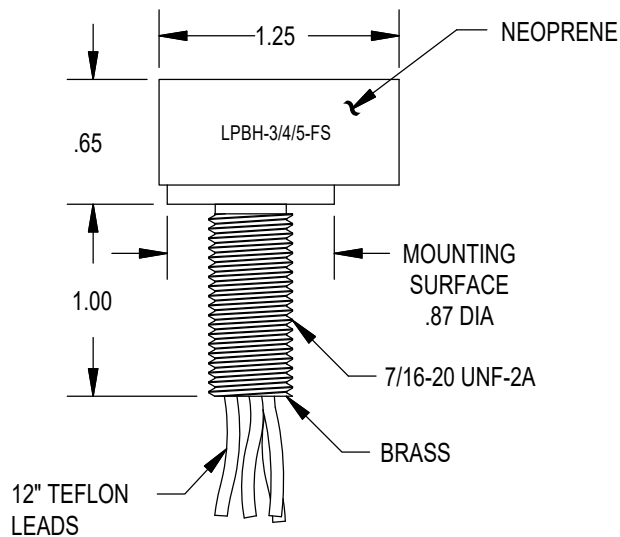
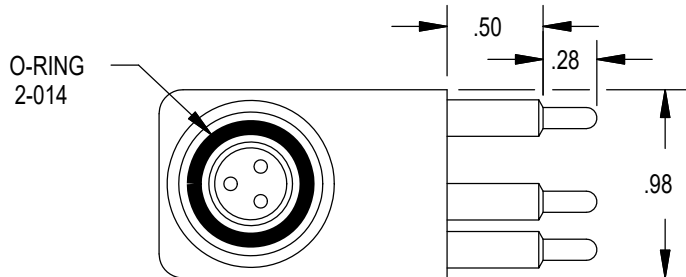
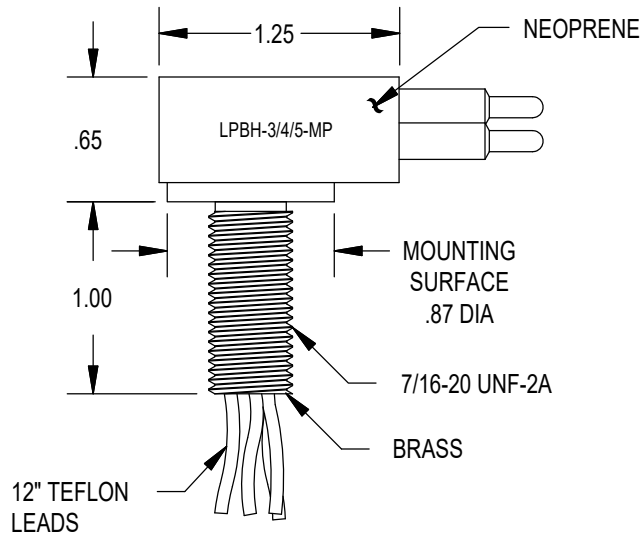
CONTACT CONFIGURATION (MP FACE VIEW)



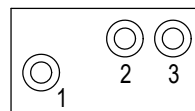
MOUNTING TORQUE FOR LPBH-FS/MP	not to exceed 100 in lbs
MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR LPBH-2-FS, LPIL-2-FS	LPDC-2-MP
DUMMY PLUG FOR LPBH-2-MP, LPIL-2-MP	LPDC-2-FS
NOTE: Bulkhead body available in stainless steel. Standard 1/2" thread length. * Dummy Plugs found on page 65 71.	

LPBH/LPIL-3/4/5

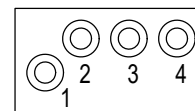
LOW PROFILE
SPLASH MATE SERIES



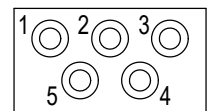
CONTACT CONFIGURATION (MP FACE VIEWS)



3 CONTACT

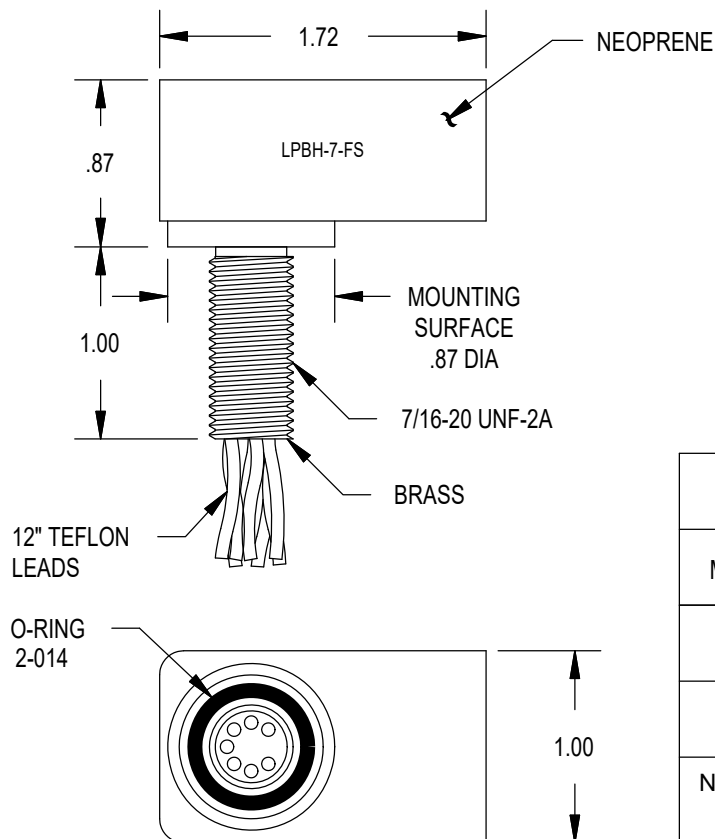
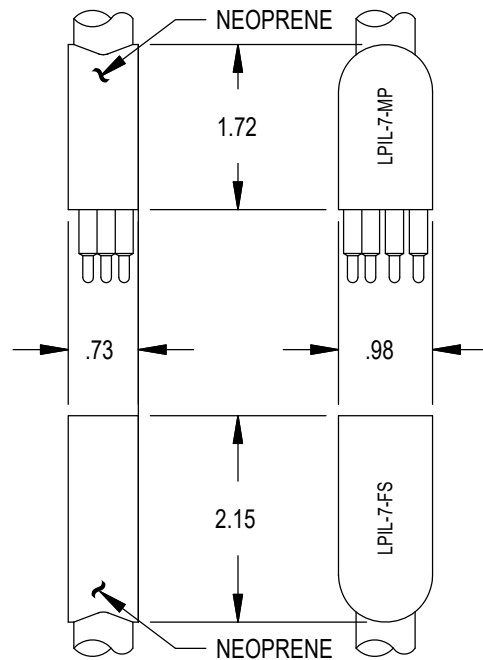
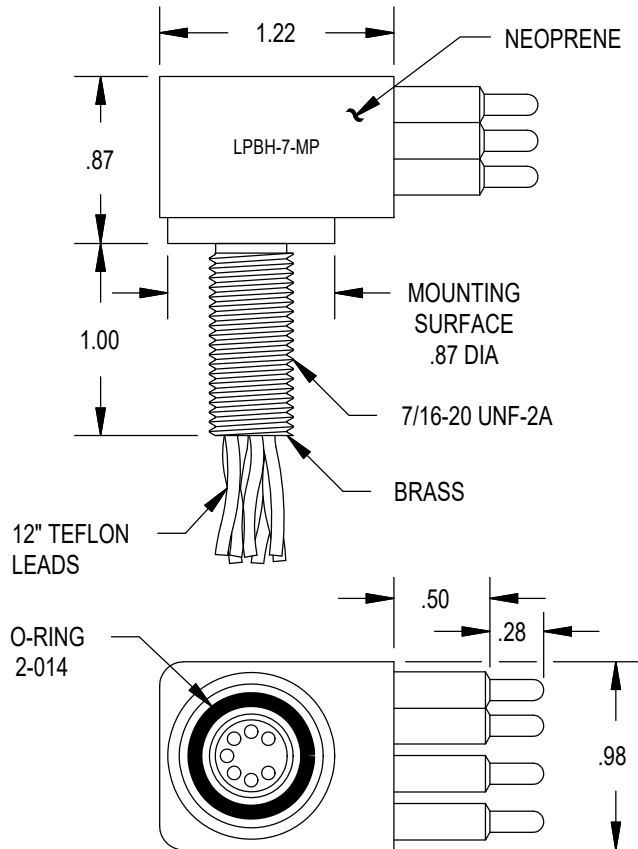


4 CONTACT

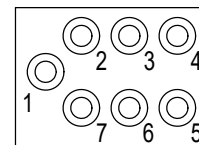


5 CONTACT

MOUNTING TORQUE FOR LPBH-FS/MP	not to exceed 100 in lbs
MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR LPBH-3/4/5-FS, LPIL-3/4/5-FS	LPDC-3/4/5-MP
DUMMY PLUG FOR LPBH-3/4/5-MP, LPIL-3/4/5-MP	LPDC-3/4/5-FS
NOTE: Bulkhead body available in stainless steel. Standard 1" thread length. * Dummy Plugs found on page 65 71.	

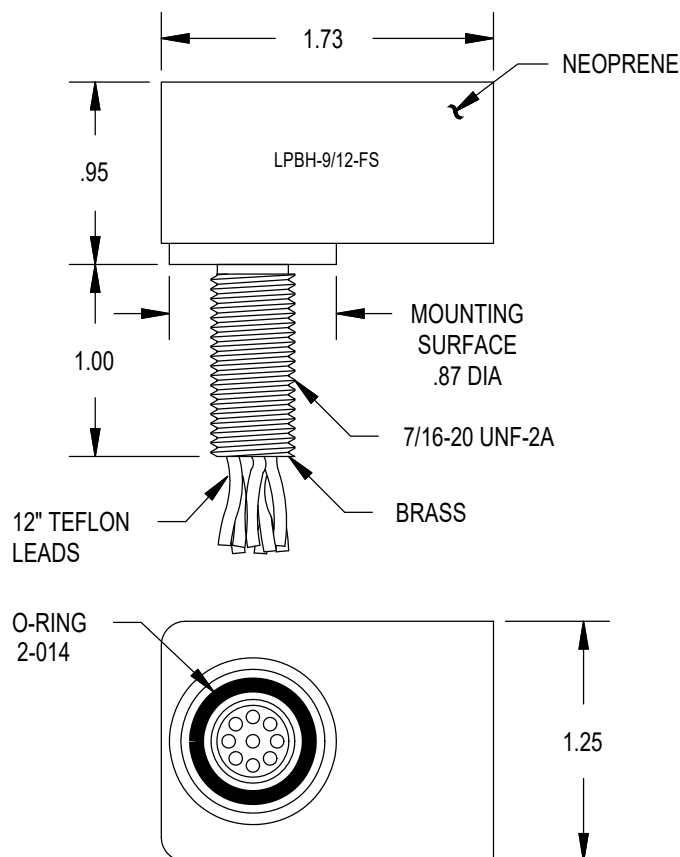
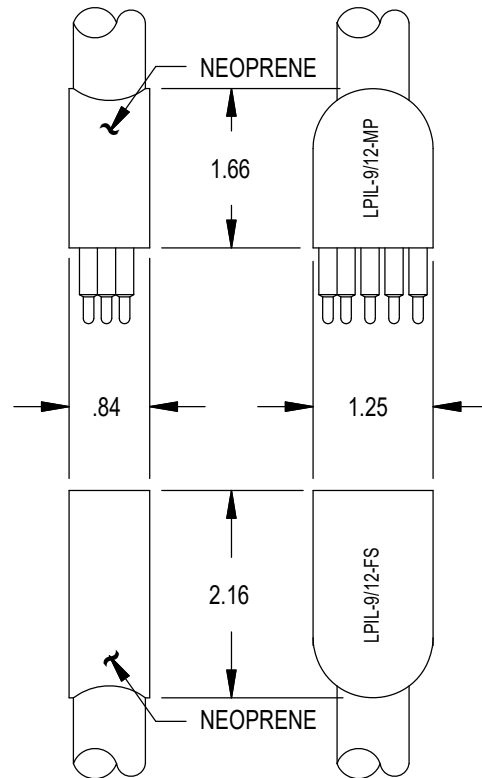
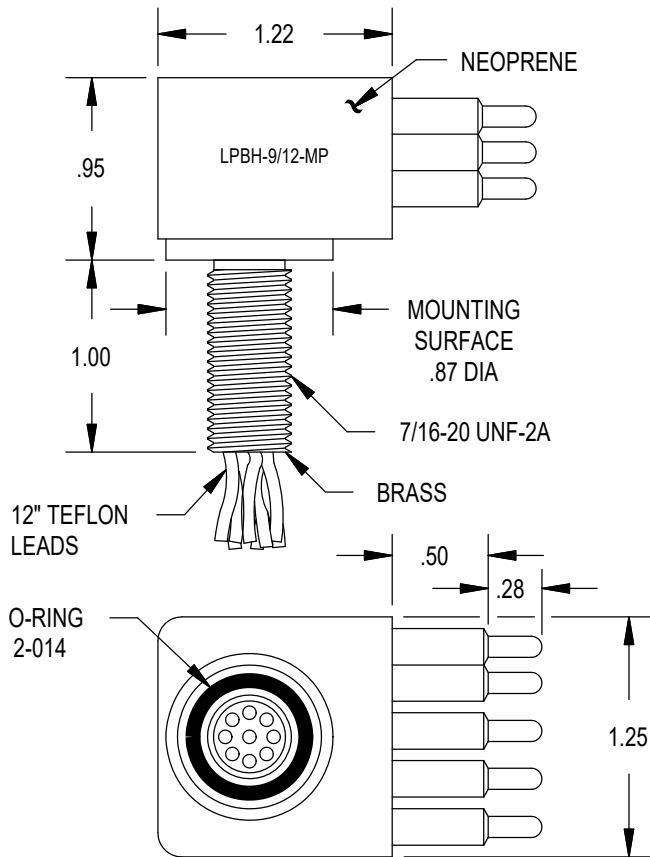


CONTACT CONFIGURATION (MP FACE VIEW)

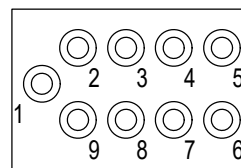


7 CONTACT

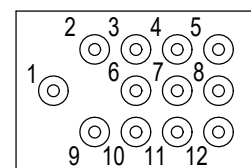
MOUNTING TORQUE FOR LPBH-FS/MP	not to exceed 100 in lbs
MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR LPBH-7-FS, LPIL-7-FS	LPDC-7-MP
DUMMY PLUG FOR LPBH-7-MP, LPIL-7-MP	LPDC-7-FS
NOTE: Bulkhead body available in stainless steel. Standard 1" thread length. * Dummy Plugs found on page 65 72.	



CONTACT CONFIGURATION (MP FACE VIEW)

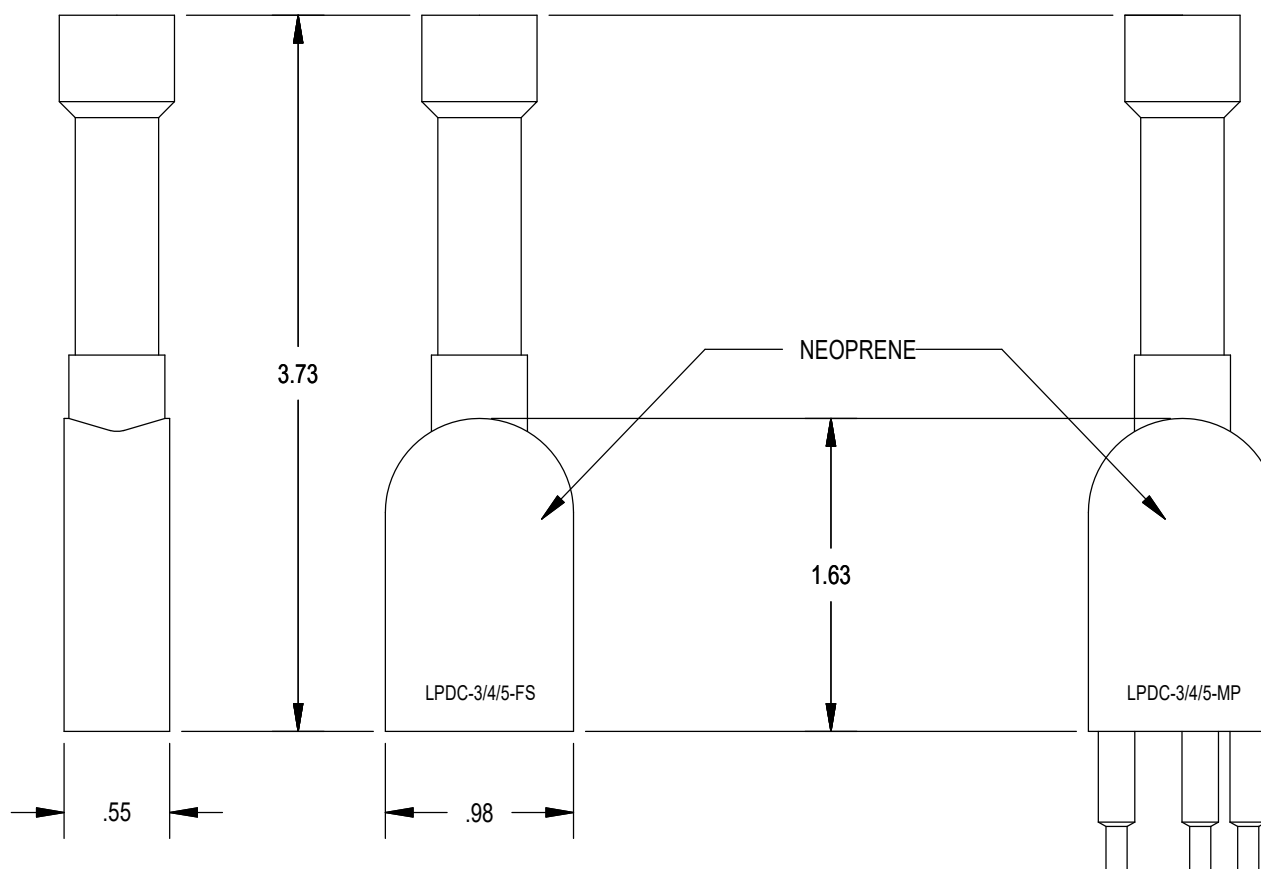
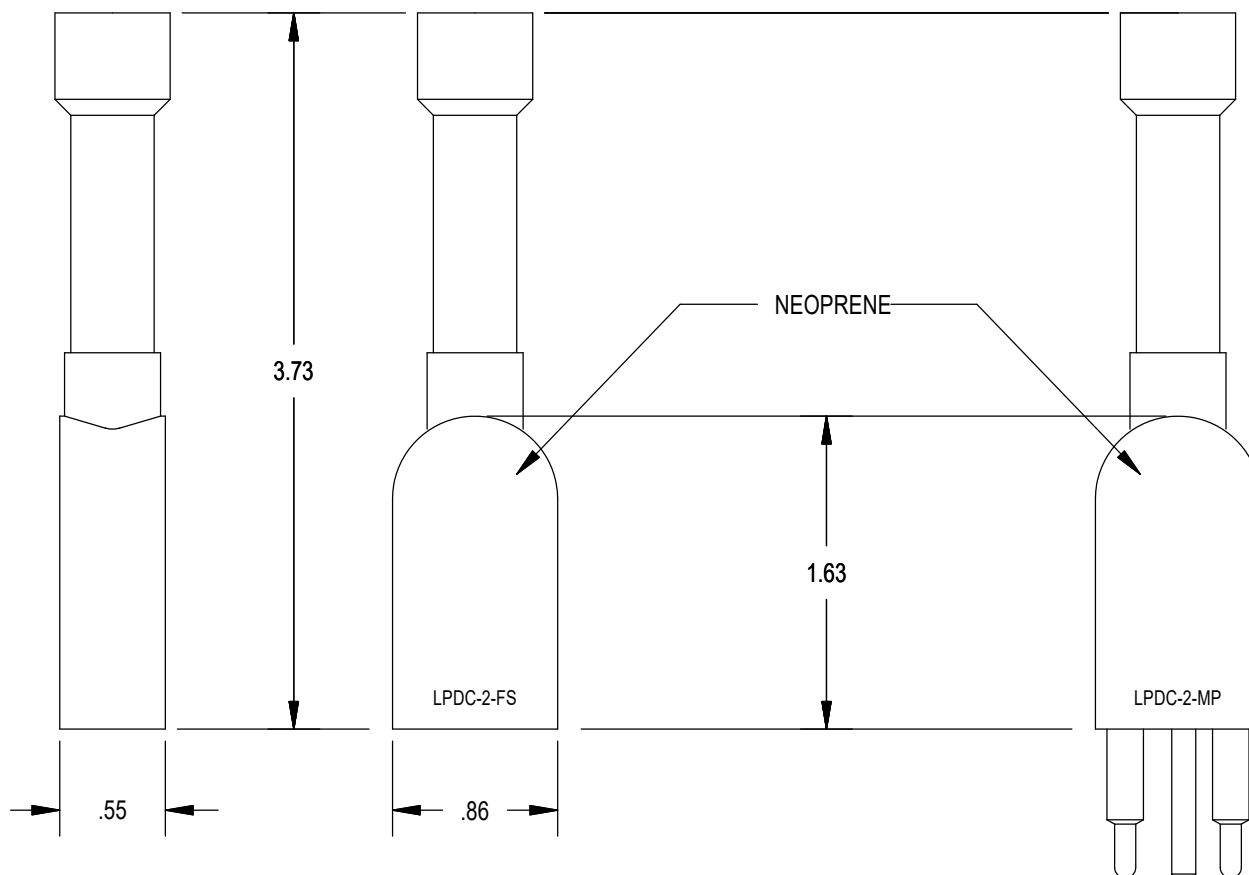


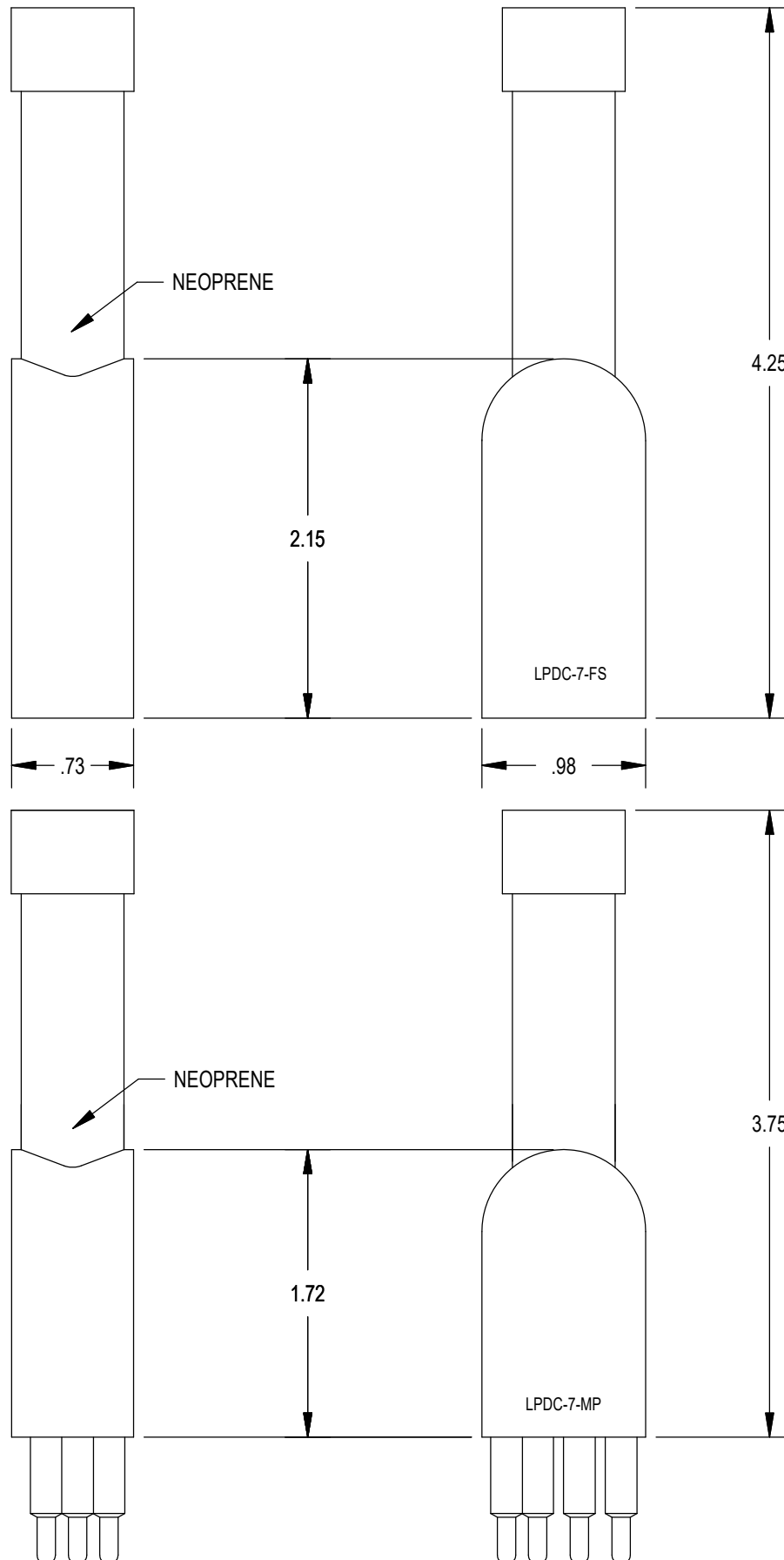
9 CONTACT

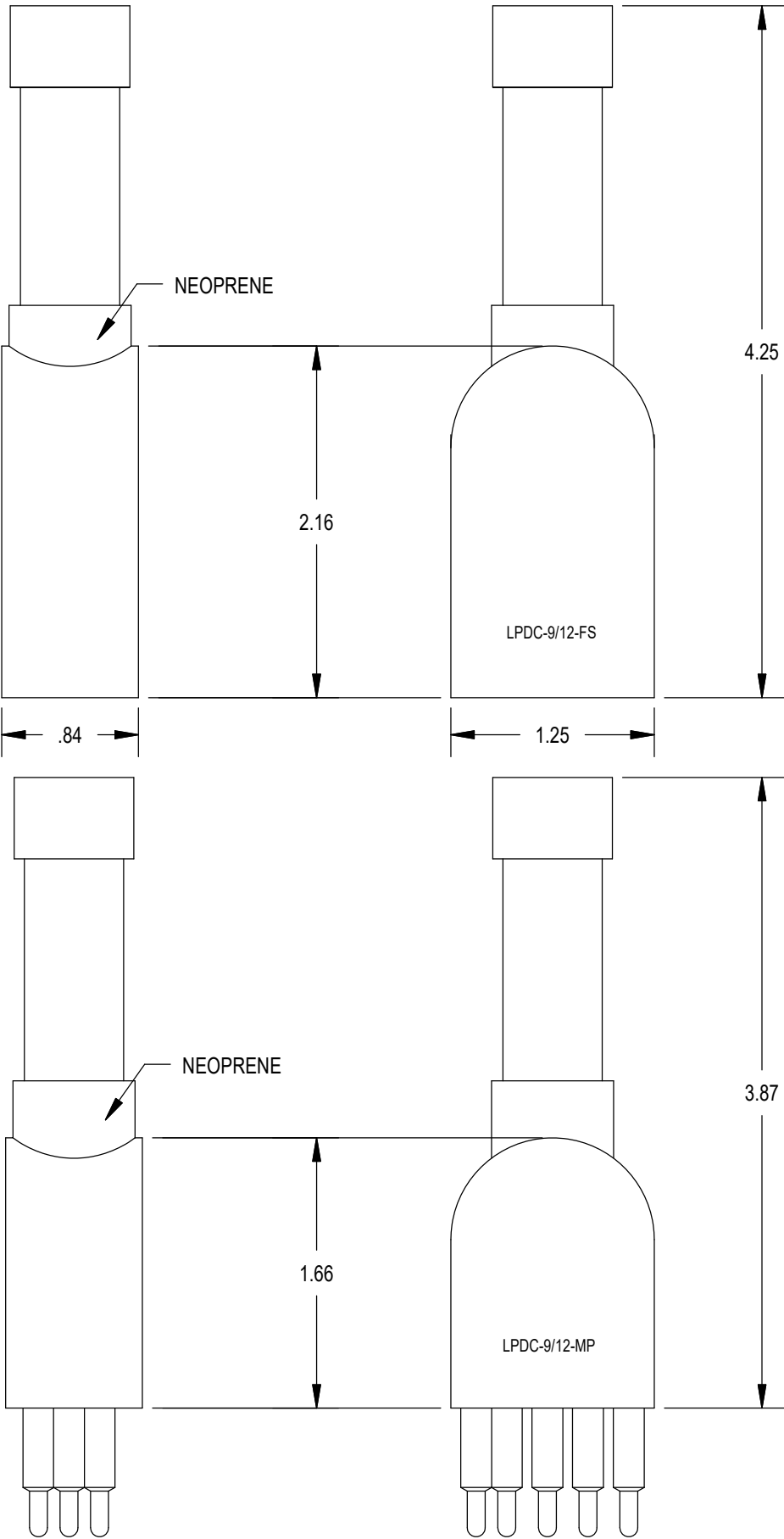


12 CONTACT

MOUNTING TORQUE FOR LPBH-FS/MP	not to exceed 100 in lbs
MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR LPBH-9-FS, LPIL-9-FS	LPDC-9-MP
DUMMY PLUG FOR LPBH-9-MP, LPIL-9-MP	LPDC-9-FS
NOTE: Bulkhead body available in stainless steel. Standard 1" thread length. * Dummy Plugs found on page 65 73.	



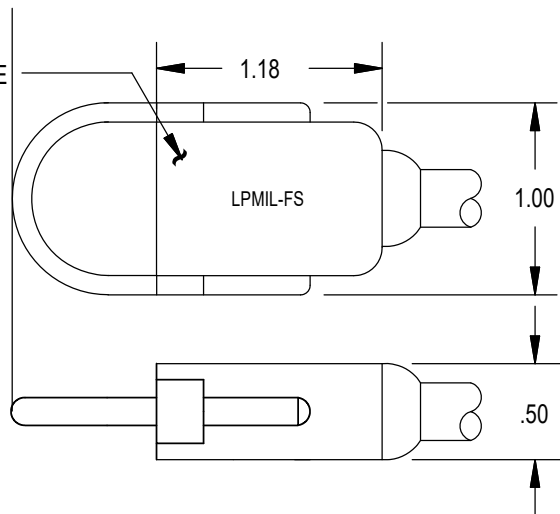
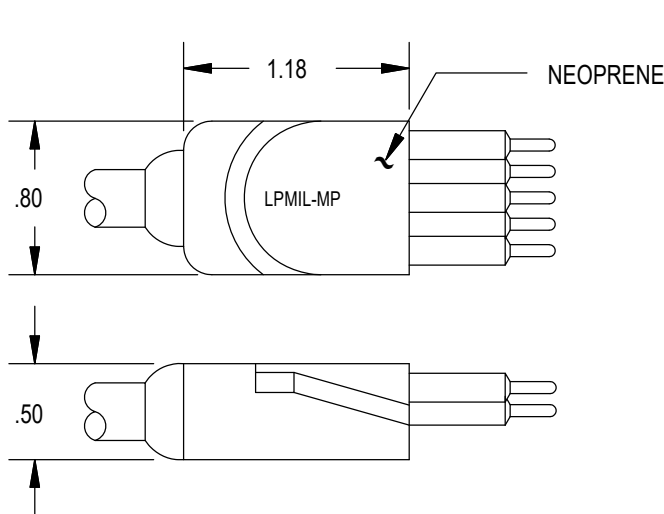
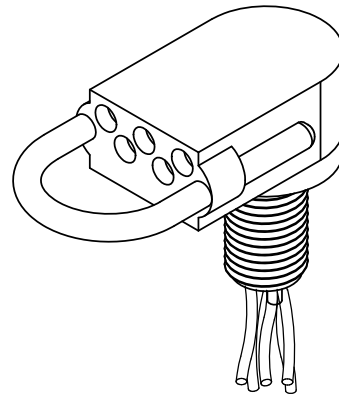
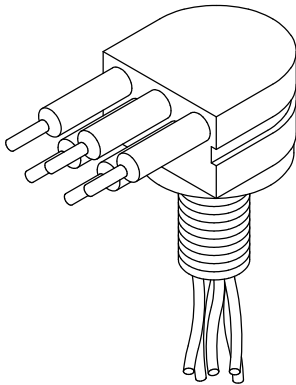
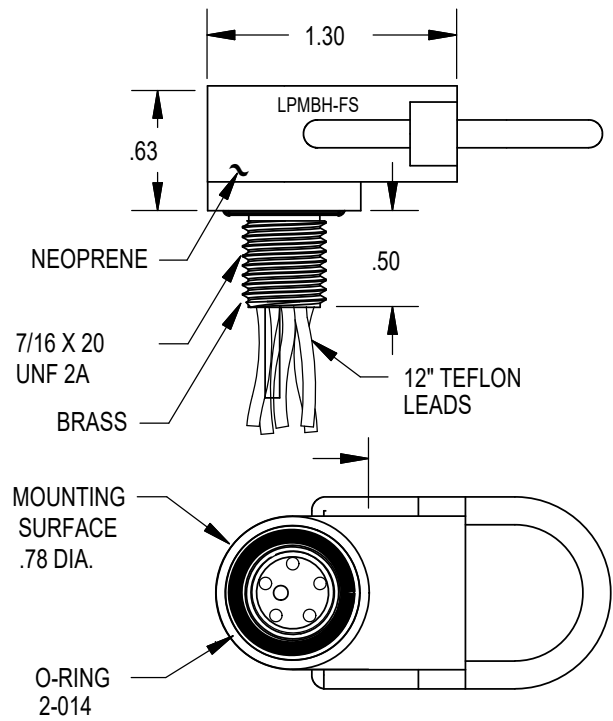
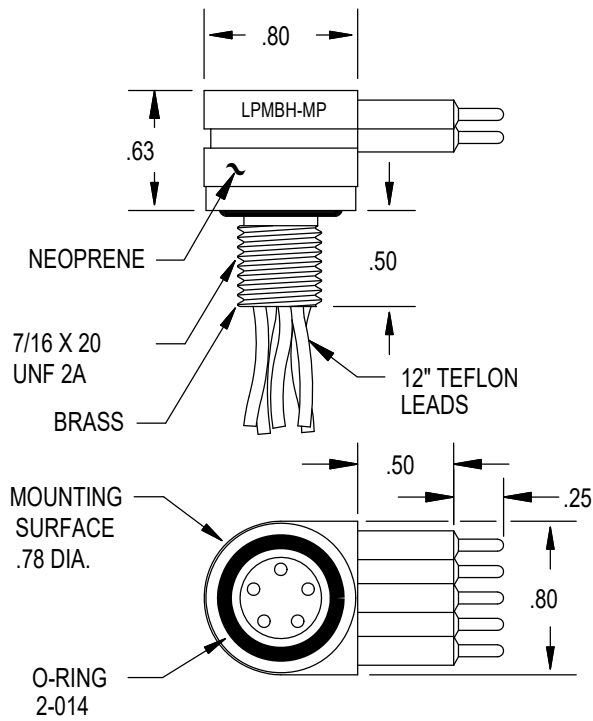




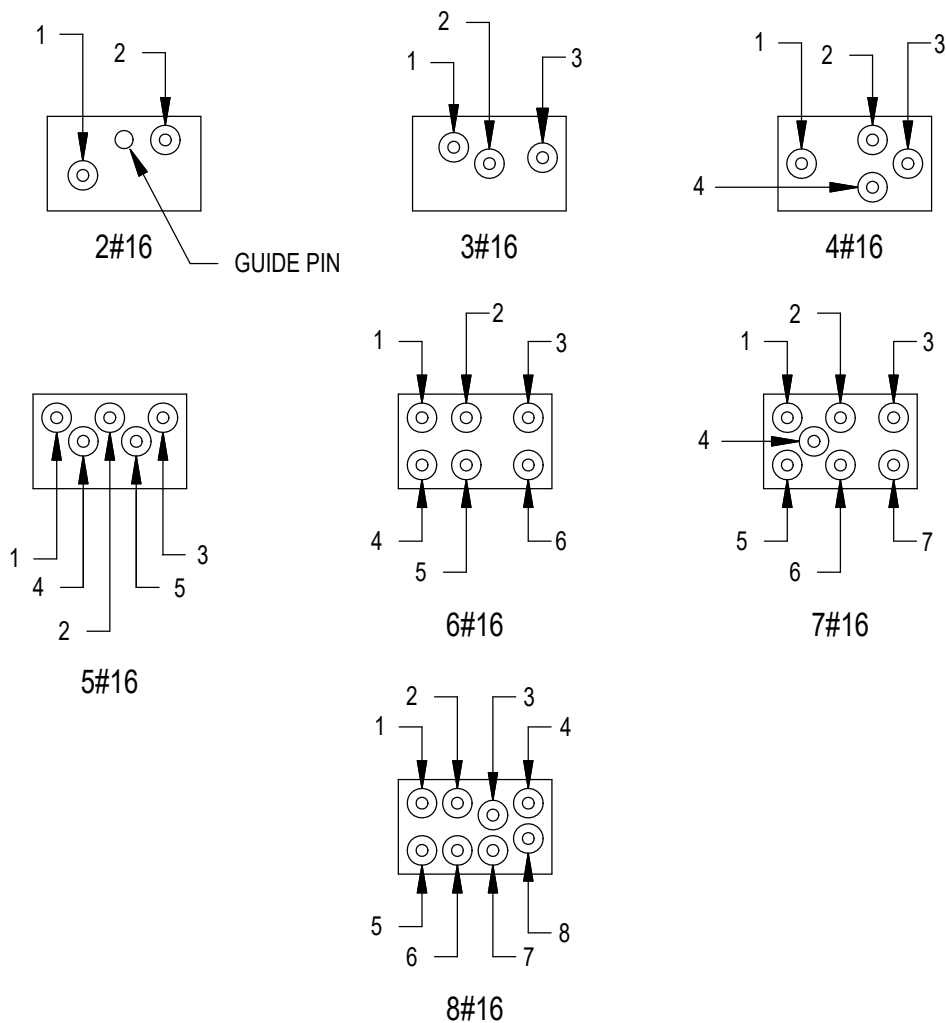
DESCRIPTION AND MATERIAL	• Molded neoprene or polyurethane. • Two to eighteen contacts, 16 AWG. • Up to 750 VDC. • Up to 10,000 PSI, mated. • Bulkhead connector design open face pressure rated to 5000 PSI. • Contacts gold plated per MIL-G-45204. • Individual contact sealing allows surface mating when wet.
CABLE	• Inline connectors in this series are molded on a standard 24" length of cable, #20 AWG, unless otherwise specified. • Bulkhead connectors have 12" teflon leads, Type E per MIL 16878/4, 18 AWG.
USES	• Light to medium duty applications. • Hazardous environments.
GUIDELINES	• All mounting surfaces require a 32 finish. • Lubricate mating surface with 3M Silicone Lubricant or equivalent, DO NOT grease! Connectors must be lubricated on a regular basis. • Lubricate o-ring with Dow Corning #111 Valve Lubricant or equivalent. • Replace o-rings when re-using connectors. • Avoid nicks and cuts around contacts as these are the sealing surfaces. • Elastomers can be seriously degraded if exposed to direct sunlight or high ozone levels for extended periods of time. • Connectors should not be allowed to dry out. If this occurs soak in water before use. • Do not over tighten bulkhead nuts. • Do not pull on cable to disconnect. • Avoid sharp bends at cable entry to connector.
ORDERING INFORMATION	• Bulkhead connectors do not come with nuts and washers. Nuts and washers should be ordered separately.

LPMBH/LPMIL

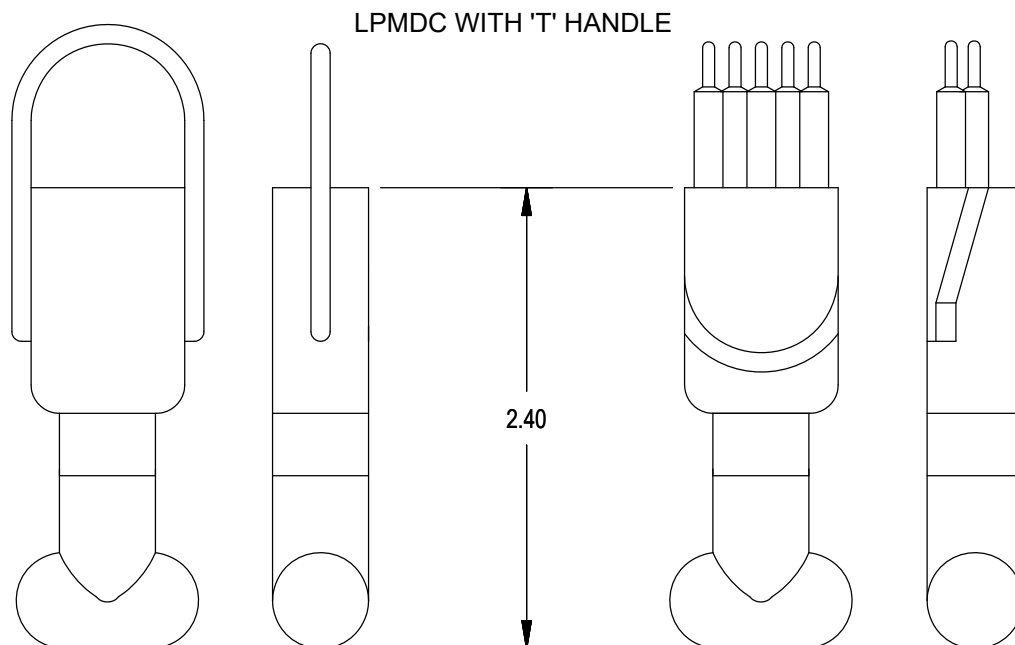
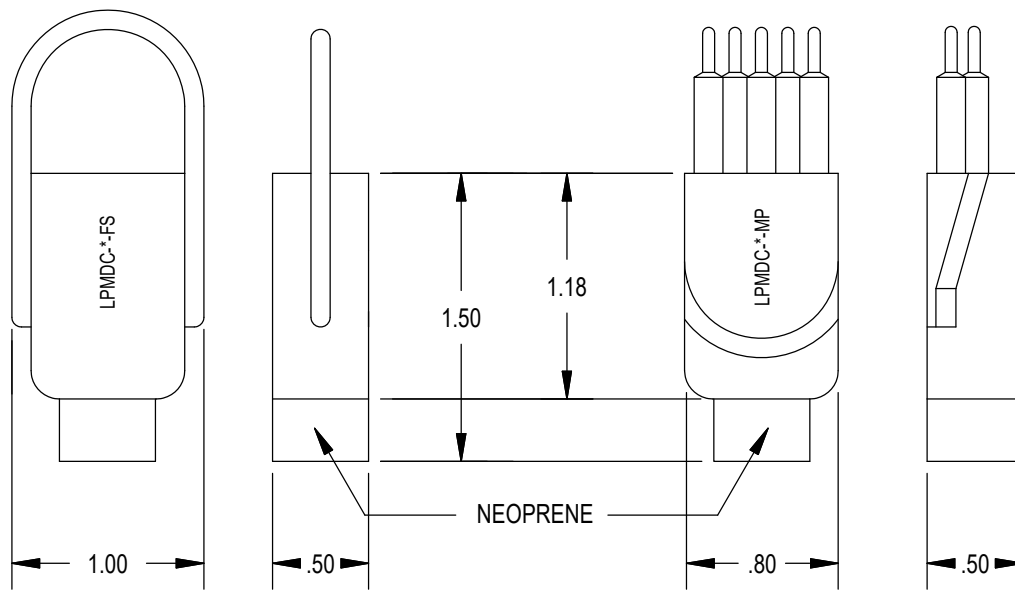
MINI SPLASH MATE SERIES



CONTACT
CONFIGURATION
(MP FACE VIEWS)

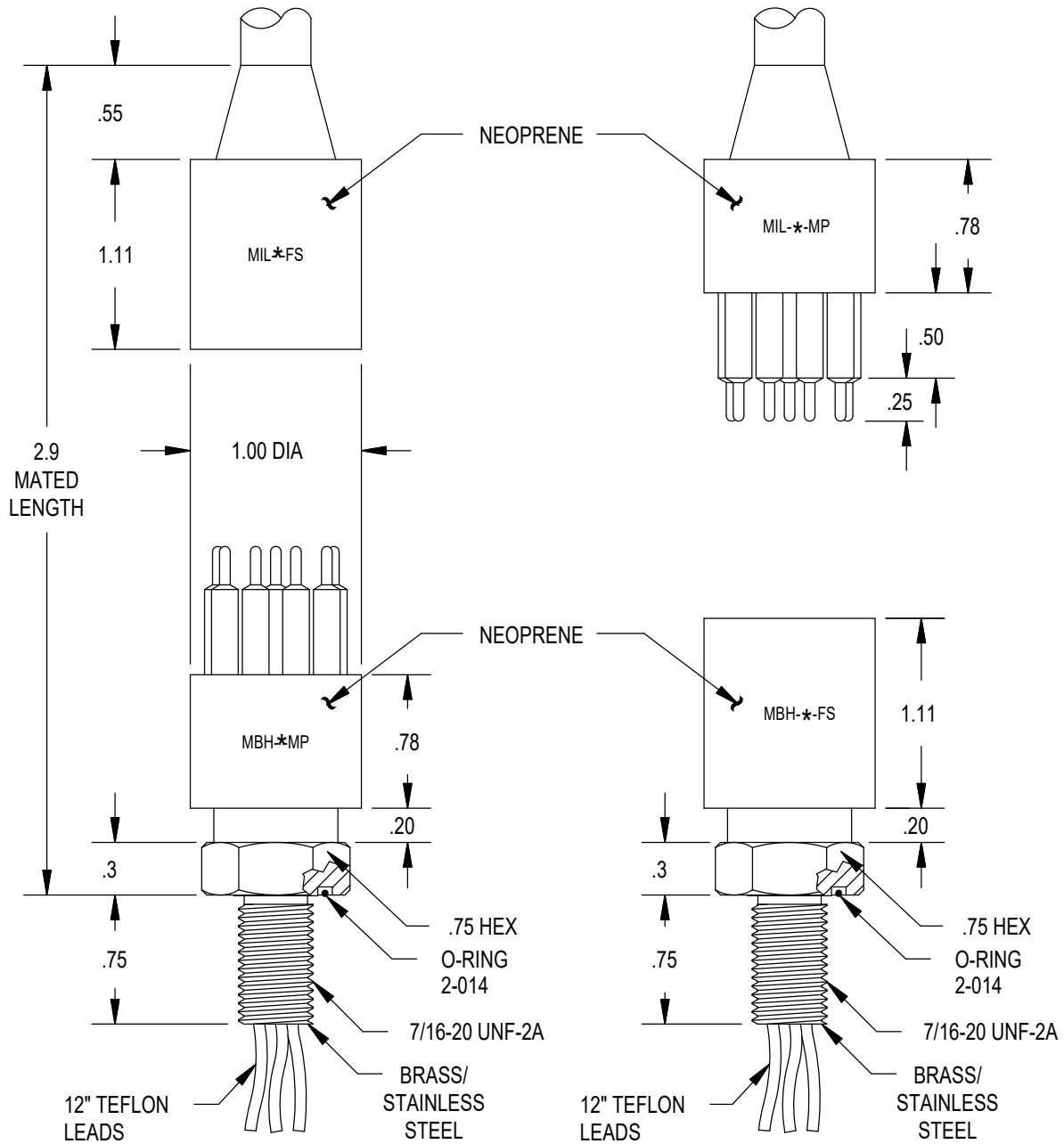


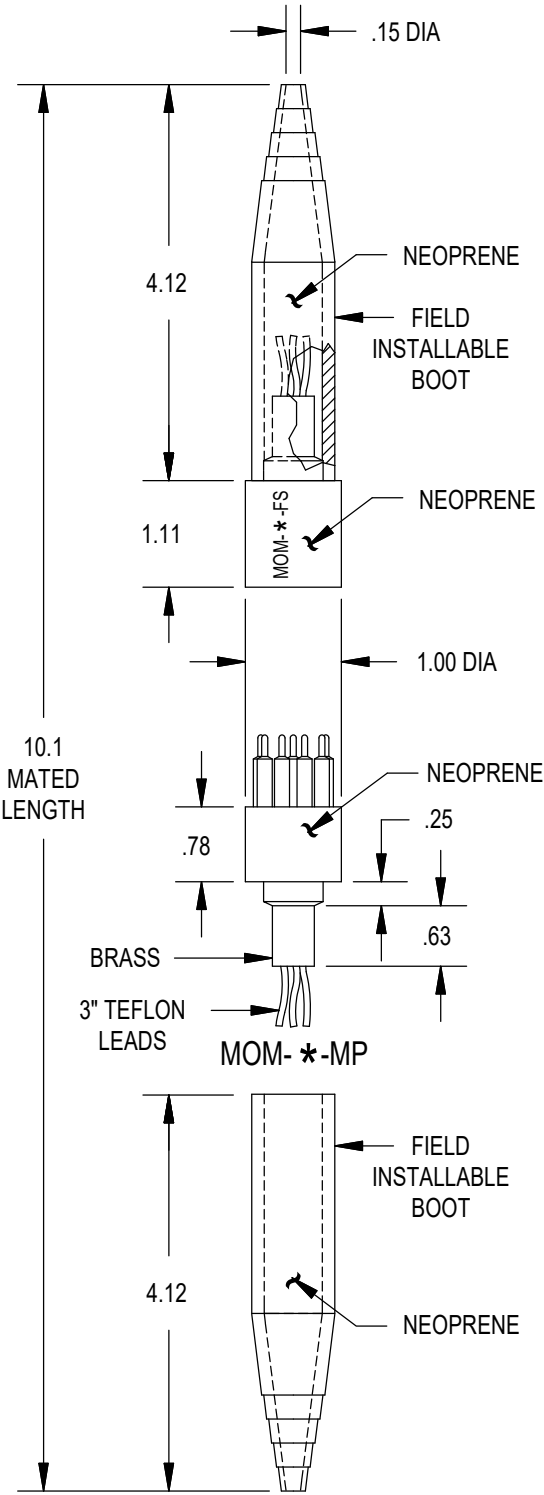
MOUNTING TORQUE LPMBH	not to exceed 100 in lbs	MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR LPMBH-MP, LPMIL-MP	LPMDC-*-FS	DUMMY PLUG FOR LPMBH-FS, LPMIL-FS	LPMDC-*-MP
NOTE: Standard 1/2" thread length. * Specify number of contacts. * Dummy plugs found on page 65 83.			



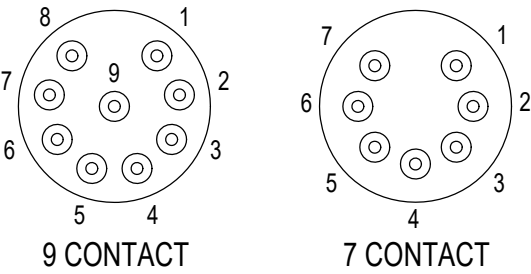
* Specify number of contacts.

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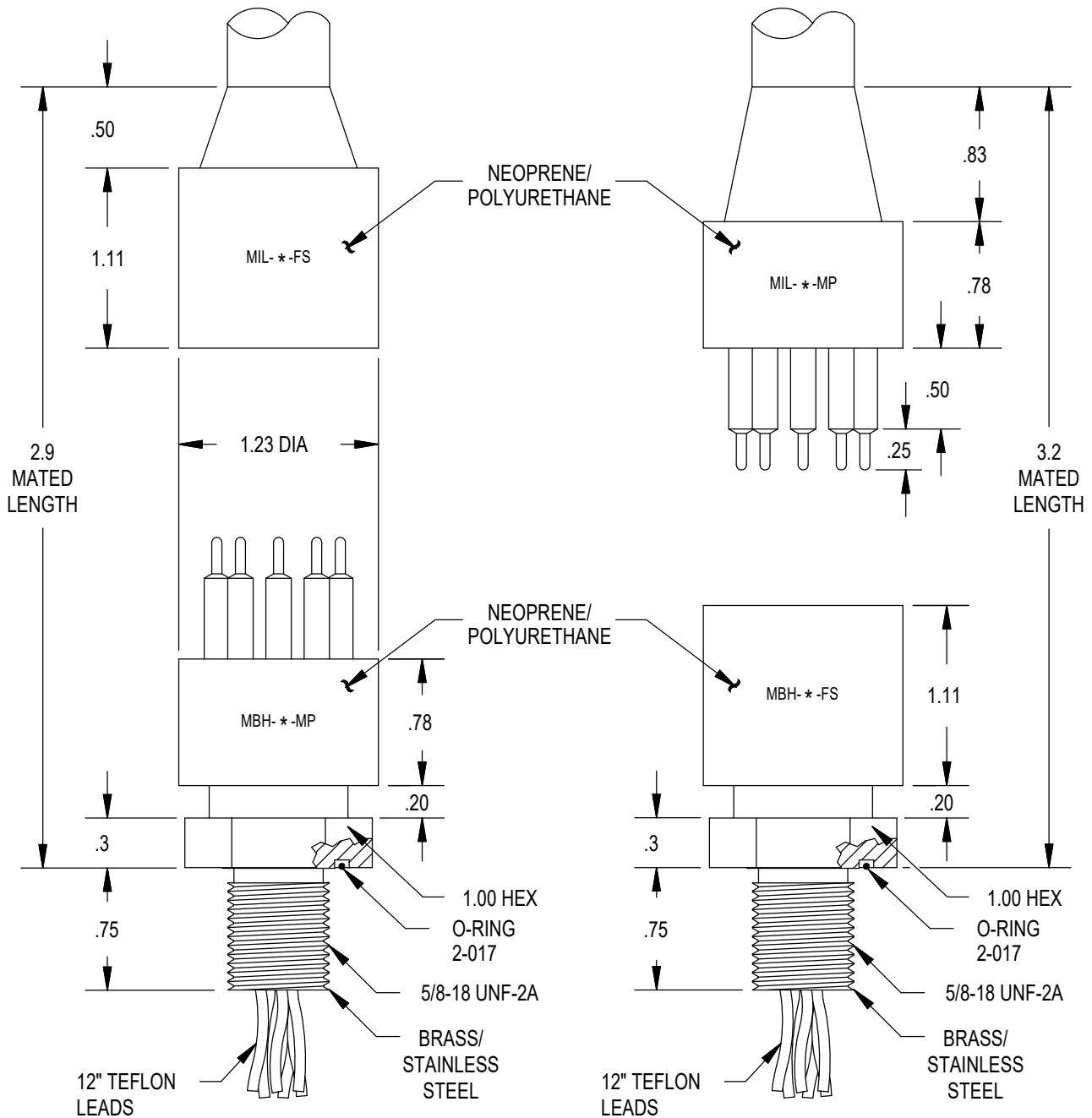


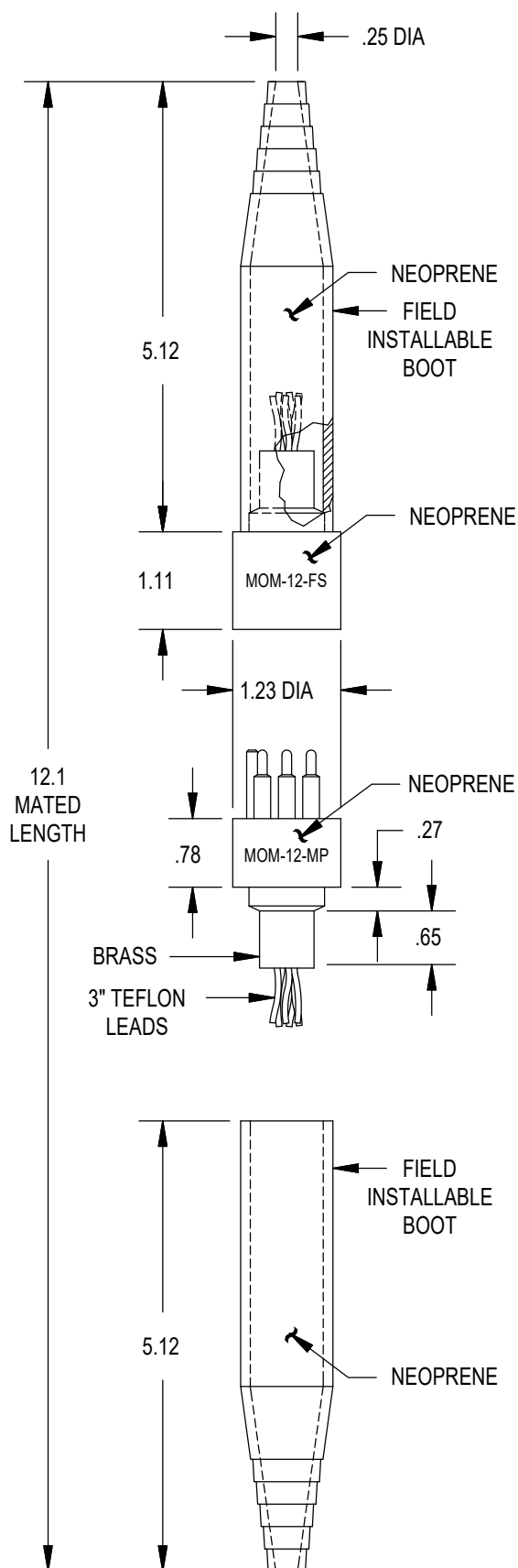


CONTACT
CONFIGURATION
(MP FACE VIEW)

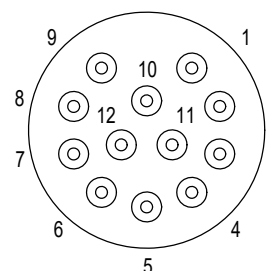


MOUNTING TORQUE FOR MBH-FS/MP	not to exceed 100 in lbs
MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR MBH-FS, MIL-FS, MOM-FS	MDC-*/MP
DUMMY PLUG FOR MBH-MP, MIL-MP, MOM-MP	MDC-*/FS
NOTE: Delrin locking sleeves available (DLSA-M or F). * Specify number of contacts. * Dummy plugs found on page 65 97	

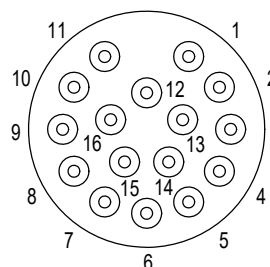




**CONTACT
CONFIGURATION**
(MP FACE VIEW)



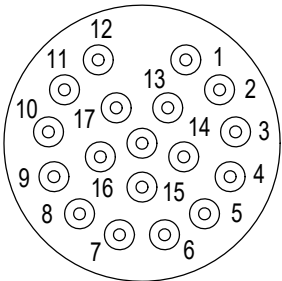
12 CONTACT



**16 CONTACT
(MOM NOT AVAILABLE)**

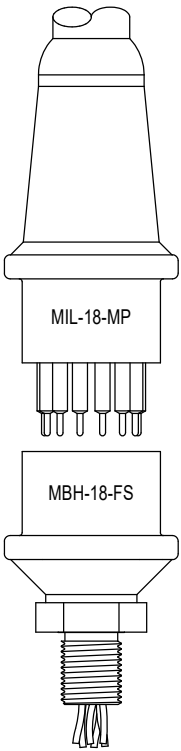
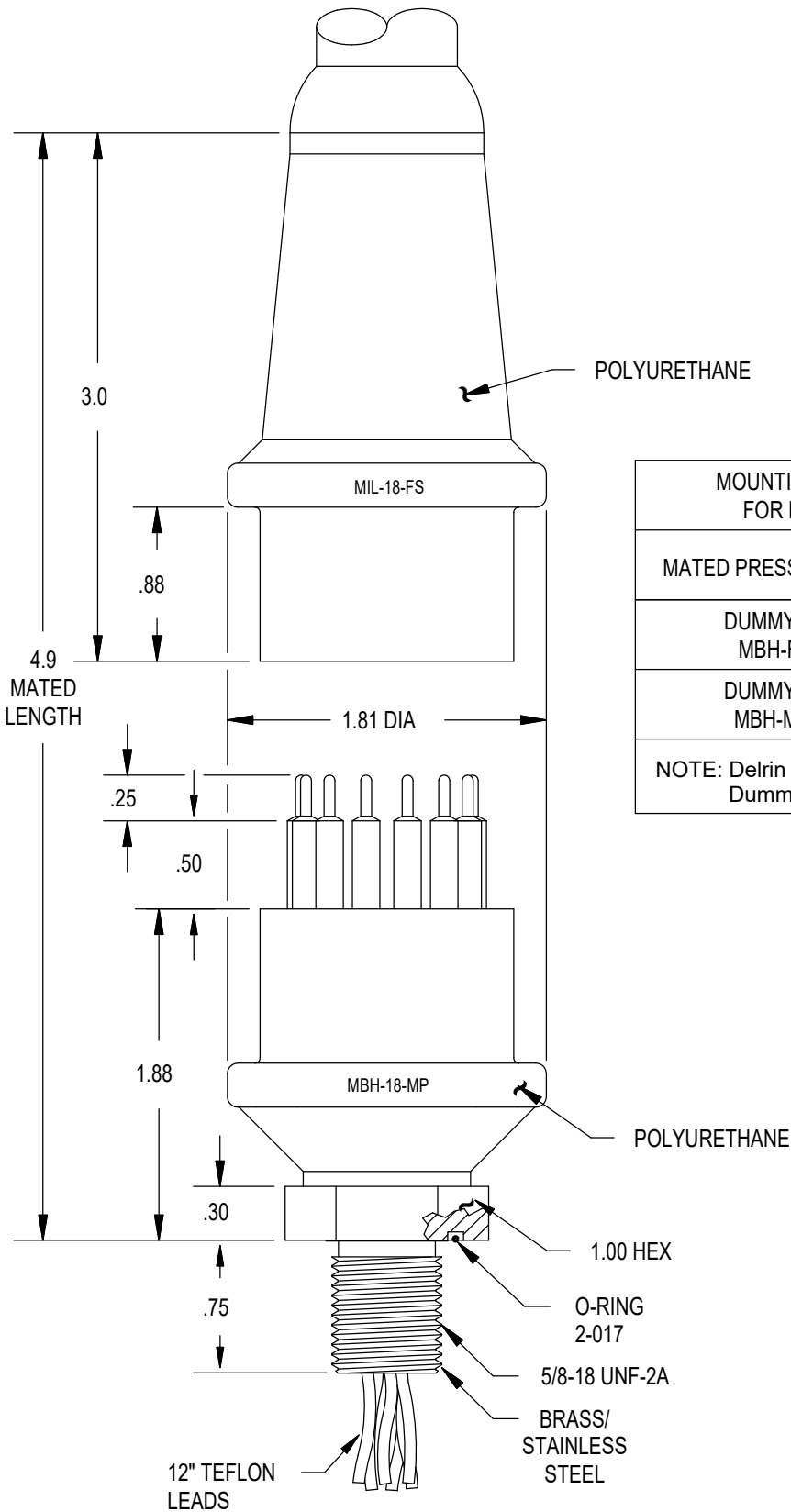
MOUNTING TORQUE FOR MBH-FS/MP	not to exceed 100 in lbs
MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR MBH-FS, MIL-FS, MOM-FS	MDC-*-MP
DUMMY PLUG FOR MBH-MP, MIL-MP, MOM-MP	MDC-*-FS
NOTE: Delrin locking sleeves available (DLSB-M or F). * Specify number of contacts. * Dummy plugs found on page 65 97	

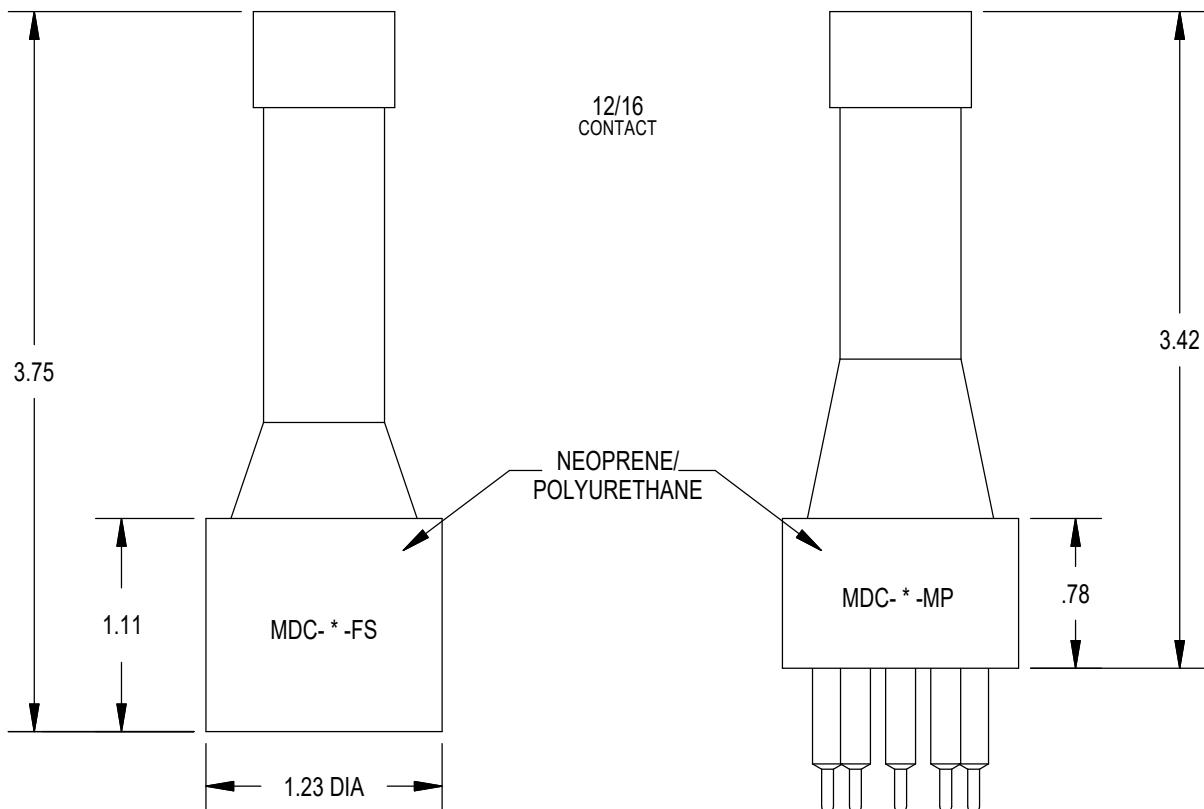
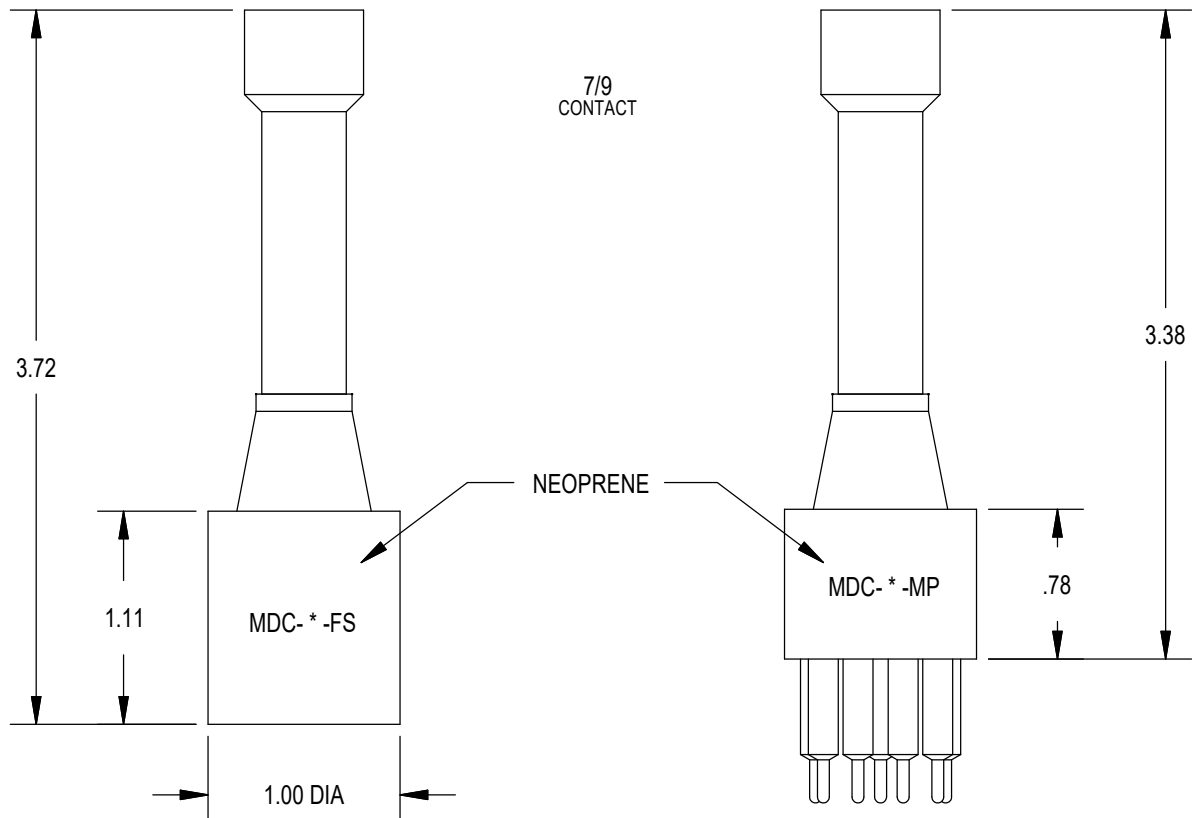
CONTACT
CONFIGURATION
(MP FACE VIEW)



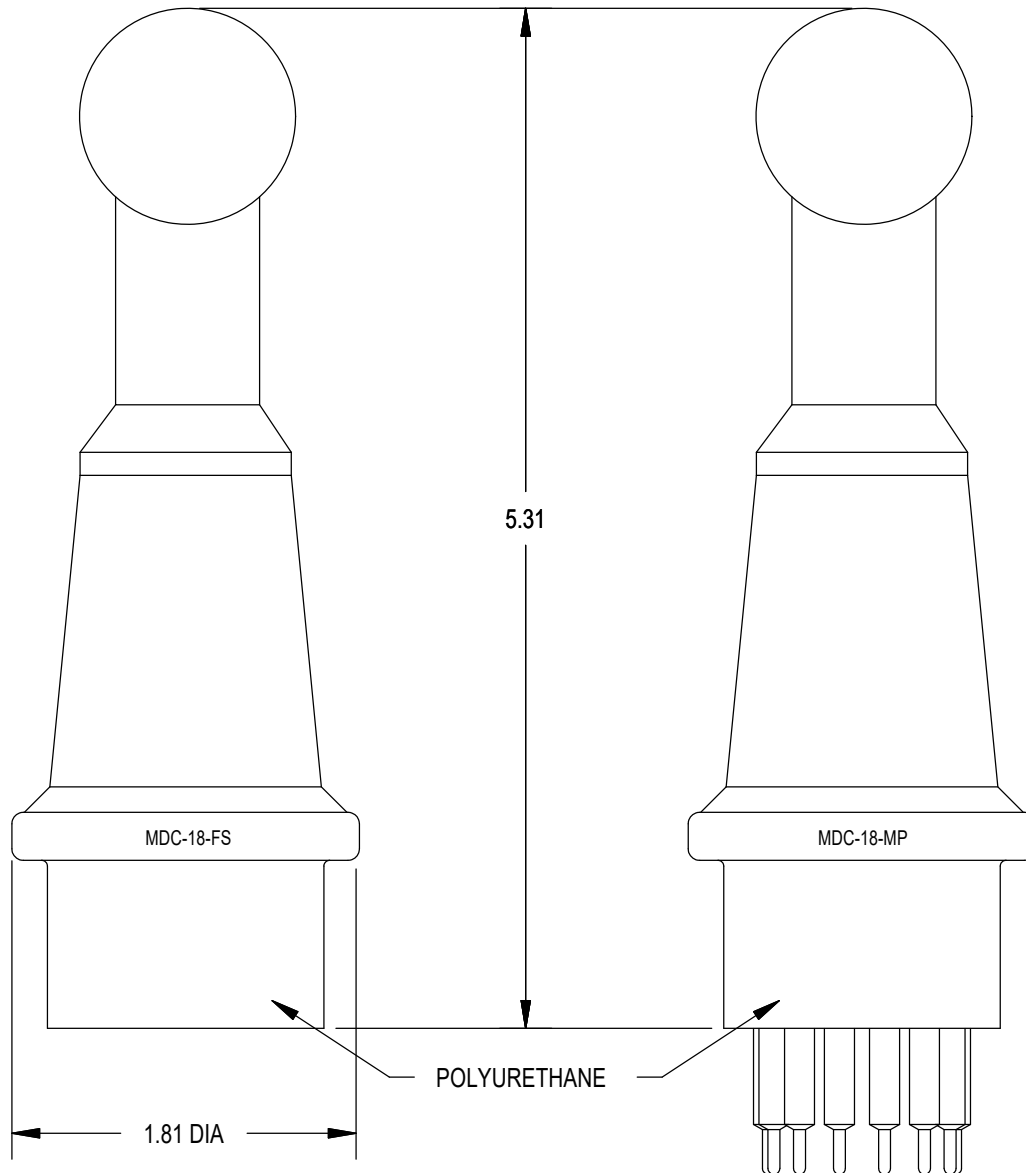
18 CONTACT

MOUNTING TORQUE FOR BH-FS/MP	not to exceed 100 in lbs
MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR MBH-FS, MIL-FS	MDC-18-MP
DUMMY PLUG FOR MBH-MP, MIL-MP	MDC-18-FS
NOTE: Delrin locking sleeve available (DLSD-M or F). Dummy plugs found on page 65 98	





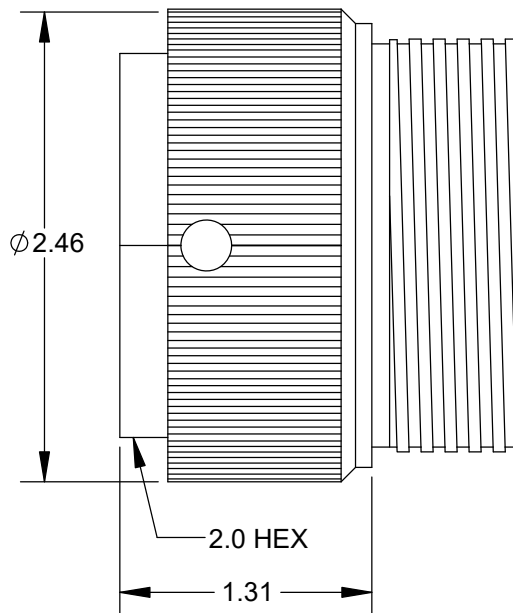
*Specify number of contacts



DELTRIN LOCKING SLEEVES

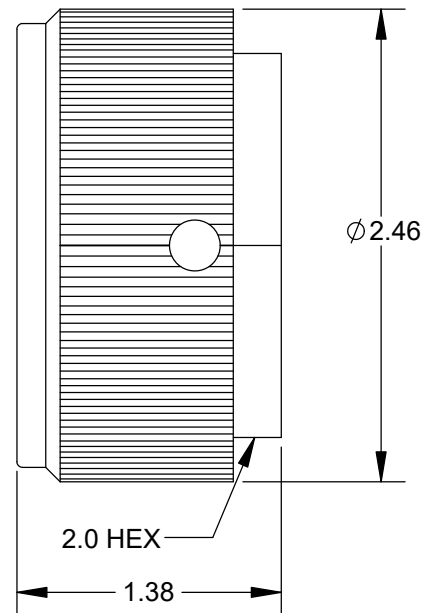
MALE

DLSD-M

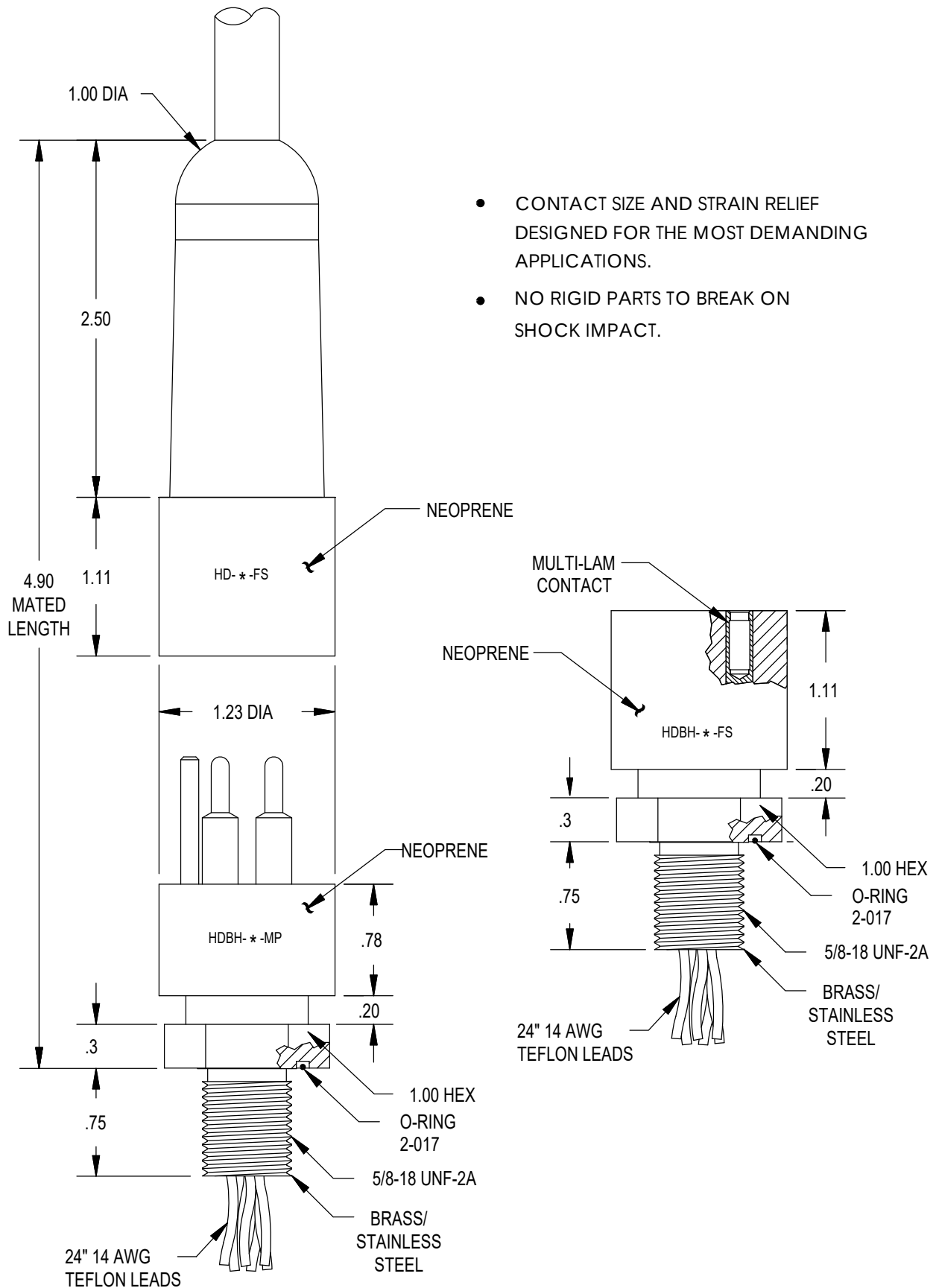


FEMALE

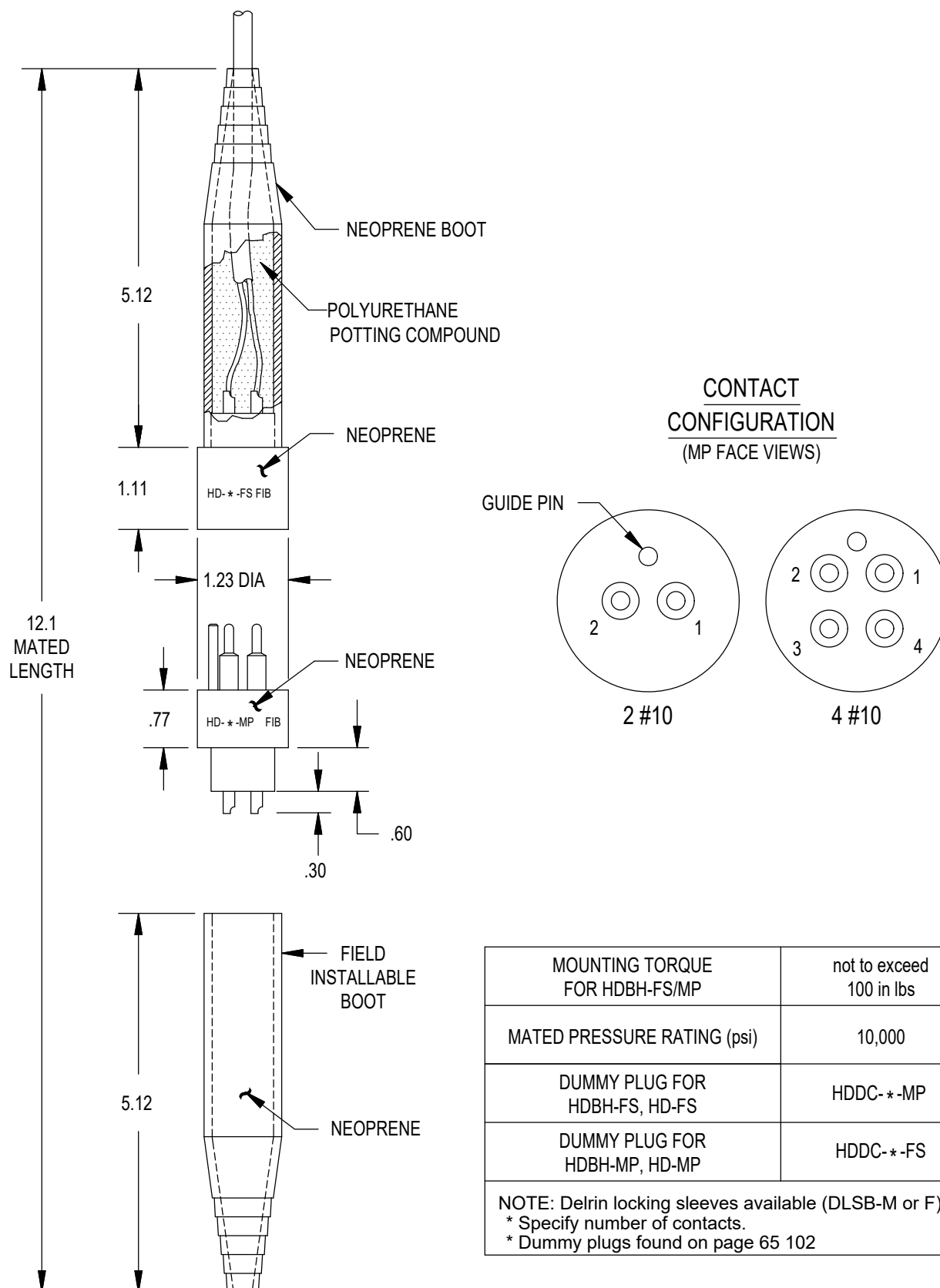
DLSD-F



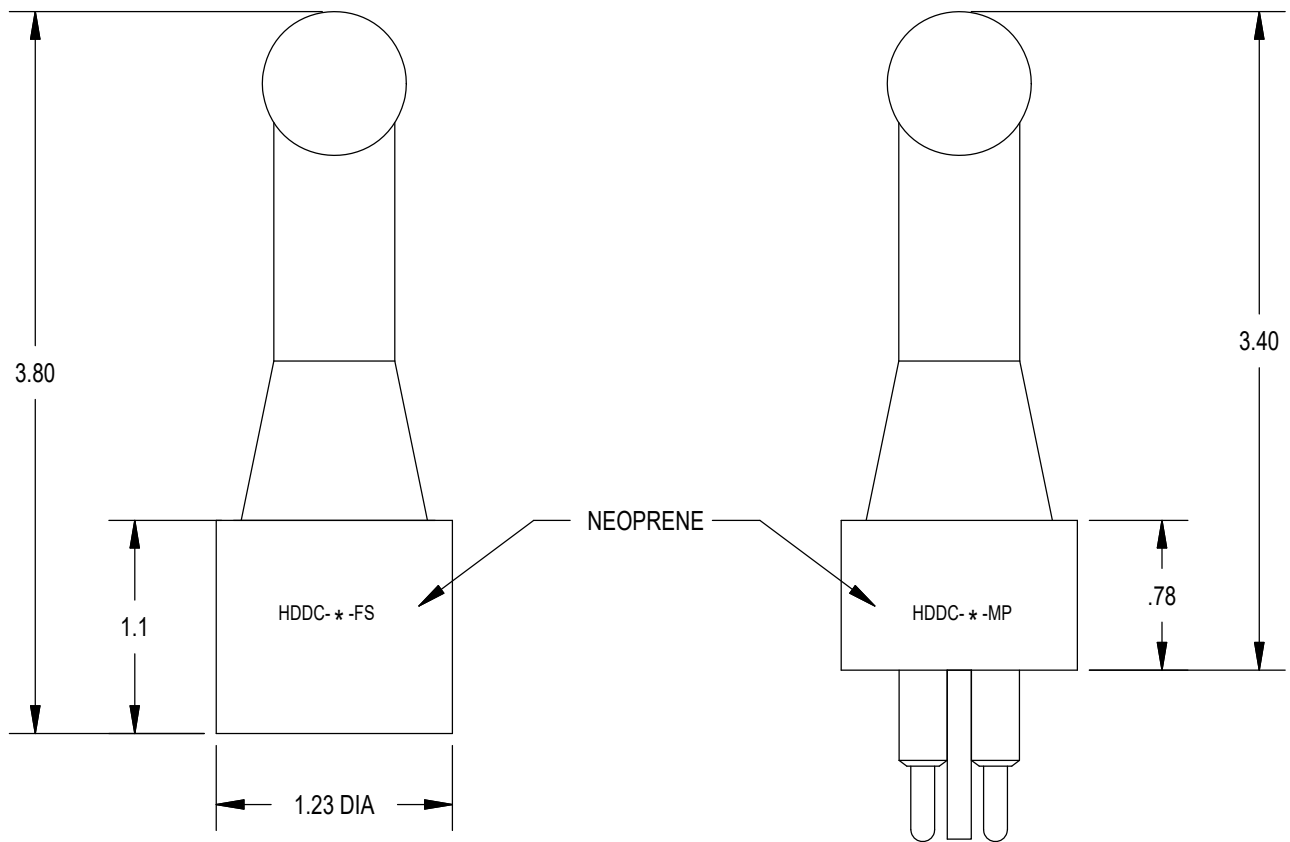
LOCKING SLEEVES FOR:
MBH/MIL-18-FS/MP



- CONTACT SIZE AND STRAIN RELIEF DESIGNED FOR THE MOST DEMANDING APPLICATIONS.
- NO RIGID PARTS TO BREAK ON SHOCK IMPACT.

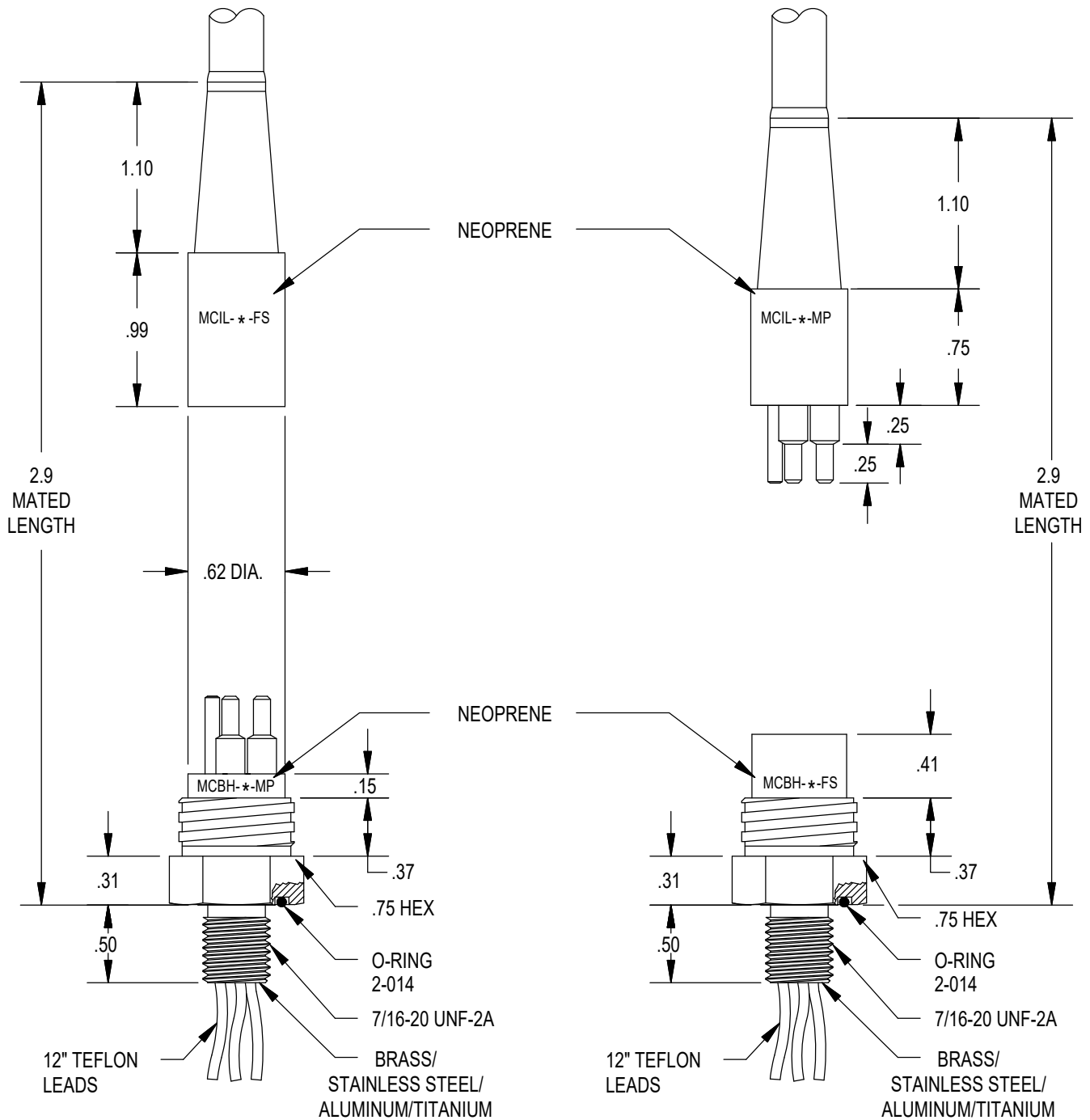


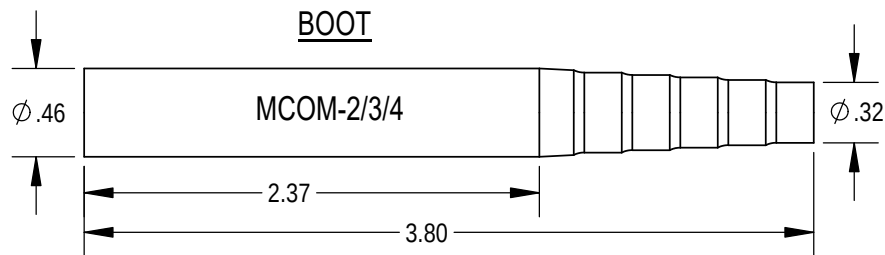
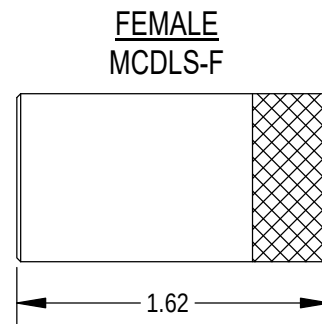
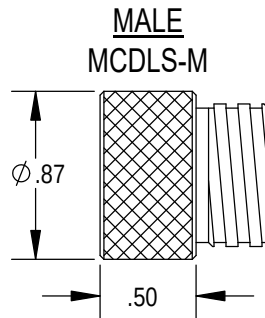
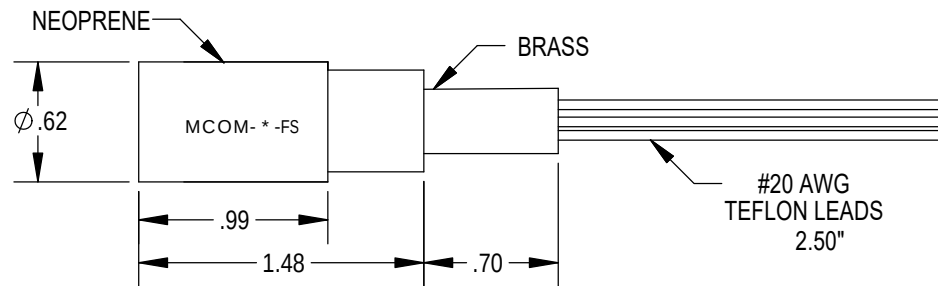
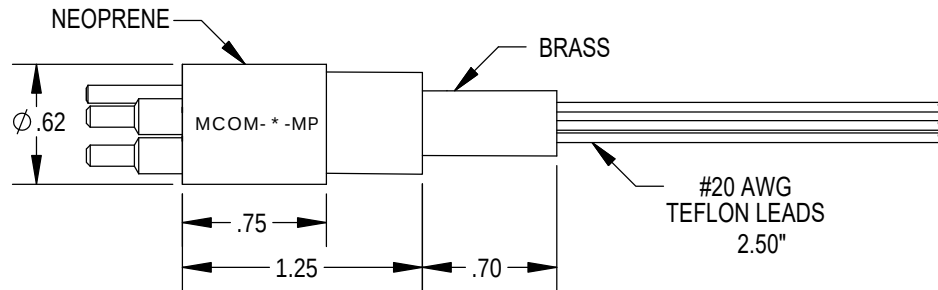
MOUNTING TORQUE FOR HDBH-FS/MP	not to exceed 100 in lbs
MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR HDBH-FS, HD-FS	HDDC-* -MP
DUMMY PLUG FOR HDBH-MP, HD-MP	HDDC-* -FS
NOTE: Delrin locking sleeves available (DLSB-M or F). * Specify number of contacts. * Dummy plugs found on page 65 102	



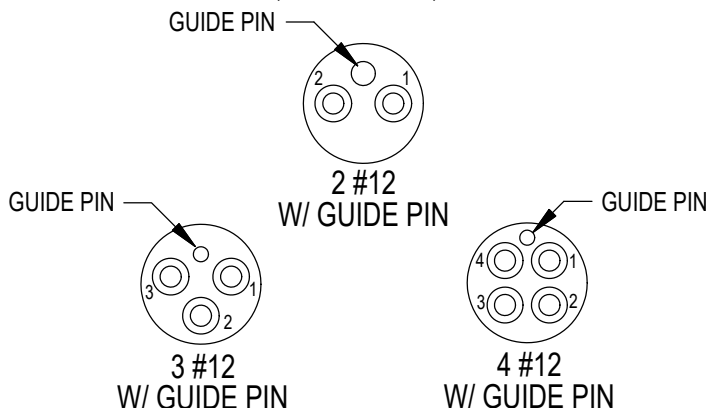
*Specify number of contacts

DESCRIPTION AND MATERIAL	• Molded neoprene or polyurethane. • Two to eight contacts. • Up to 750 VDC. • Up to 10,000 PSI, mated. • Bulkhead connector design open face pressure rated to 5000 PSI. • Contacts gold plated per MIL-G-45204. • Individual contact sealing allows surface mating when wet.
CABLE	• Inline connectors in this series are molded on a standard 24" length of cable, 20 AWG, unless otherwise specified. • Bulkhead connectors have 12" teflon leads, Type E per MIL 16878/4, 20 AWG, (2-4, 9-18 contact) or 22 AWG (5-8 contact). • MCOM connectors have 12" teflon leads, Type E per MIL 16878/4, 20 AWG (2-4 contact) or 22 AWG (5-8 contact)
USES	• Light to medium duty applications. • Hazardous environments.
GUIDELINES	• All mounting surfaces require a 32 finish. • Lubricate mating surface with 3M Silicone Spray or equivalent, DO NOT grease! Connectors must be lubricated on a regular basis. • Lubricate o-ring with Dow Corning #111 Valve Lubricant or equivalent. • Replace o-rings when re-using connectors. • Avoid nicks and cuts around contacts as these are the sealing surfaces. • Elastomers can be seriously degraded if exposed to direct sunlight or high ozone levels for extended periods of time. • Do not over tighten bulkhead nuts. • Grip main body of connector during mating or unmating. Do not pull on cable to disconnect. • Avoid sharp bends at cable entry to connector.
ORDERING INFORMATION	• Bulkhead connectors do not come with nuts and washers. Nuts and washers should be ordered separately.

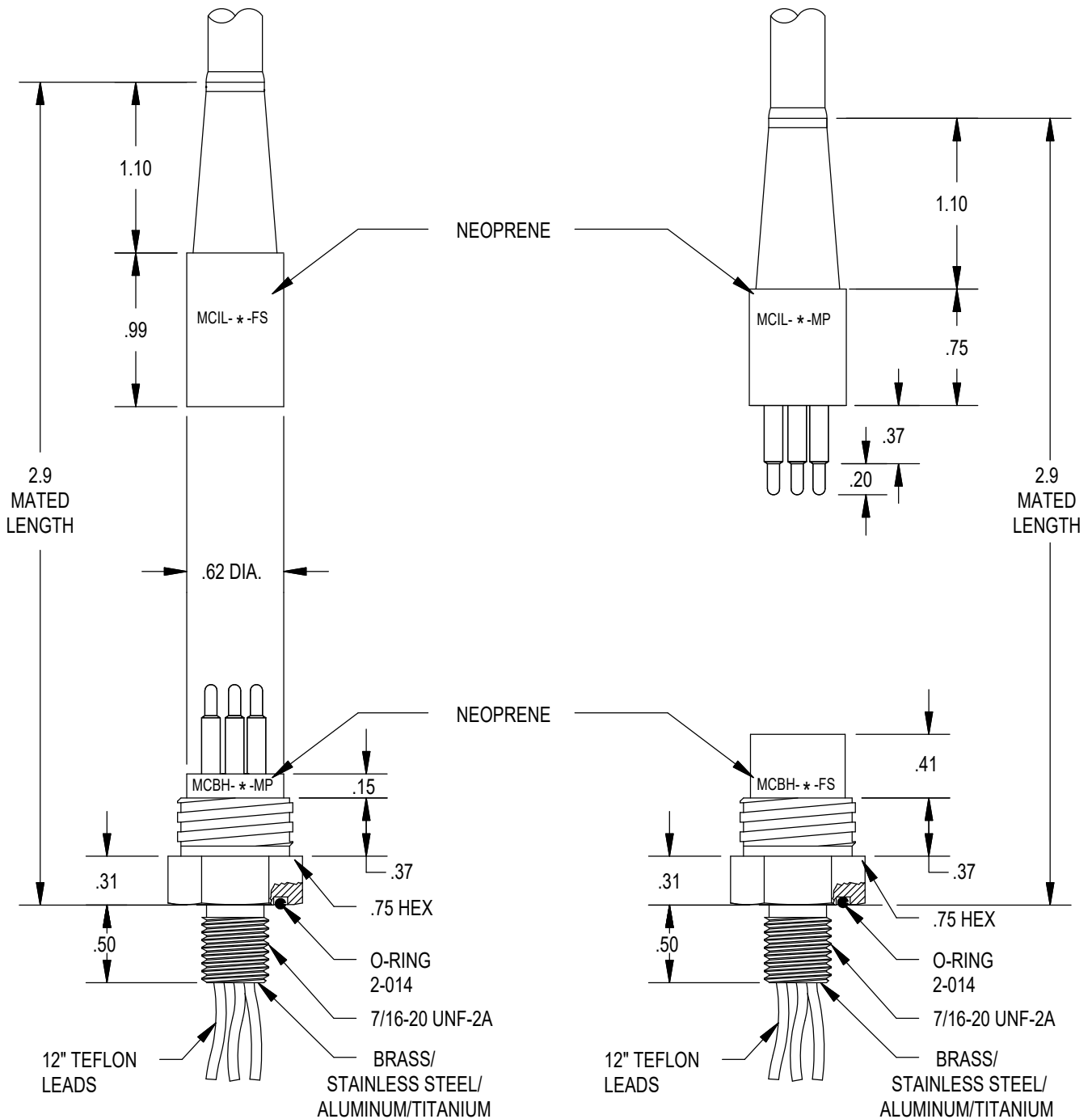


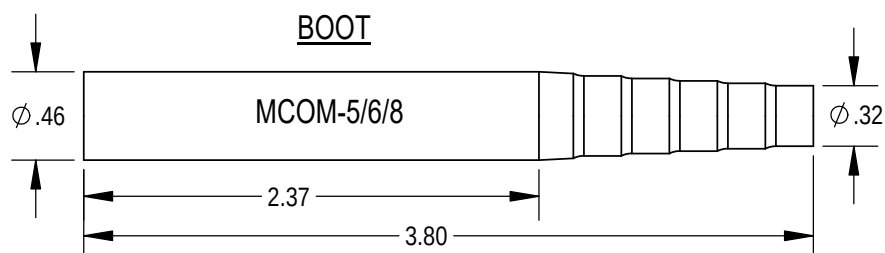
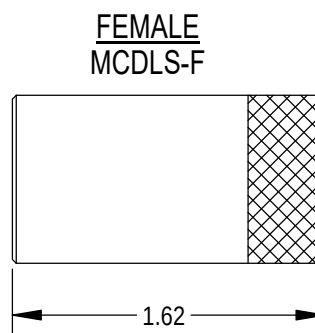
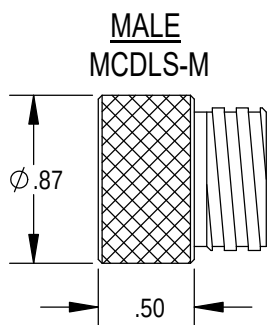
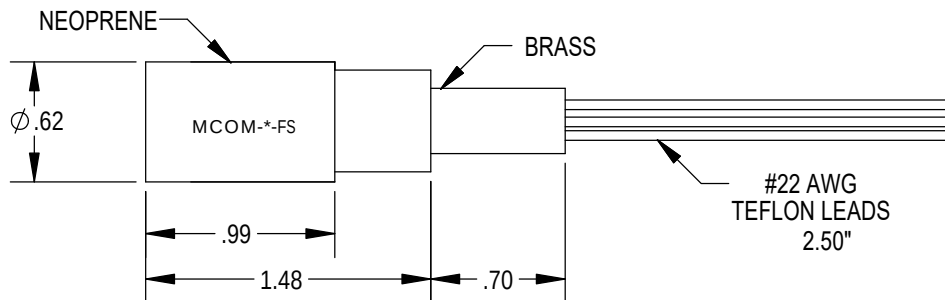
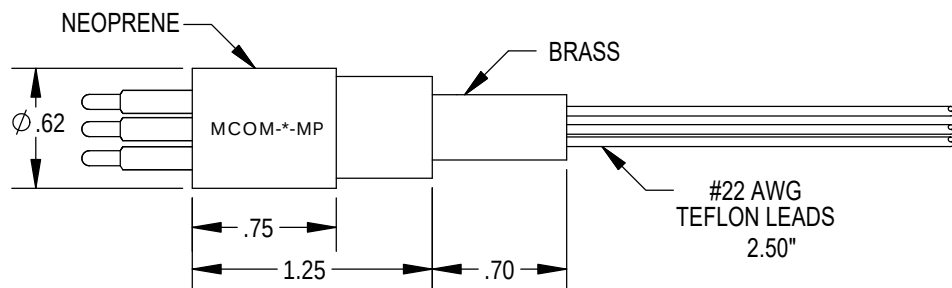


CONTACT CONFIGURATION (MP FACE VIEW)

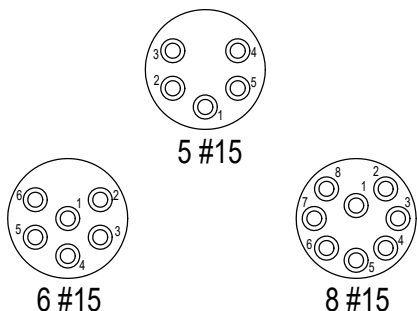


MOUNTING TORQUE FOR MCBH-FS/MP	not to exceed 100 in lbs
MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR MCIL/BH-FS	MCDC- * -MP
DUMMY PLUG FOR MCIL/BH-MP	MCDC- * -FS
* Specify number of contacts.	
NOTE: Bulkhead body available in Titanium. Standard 3/4" thread length.	

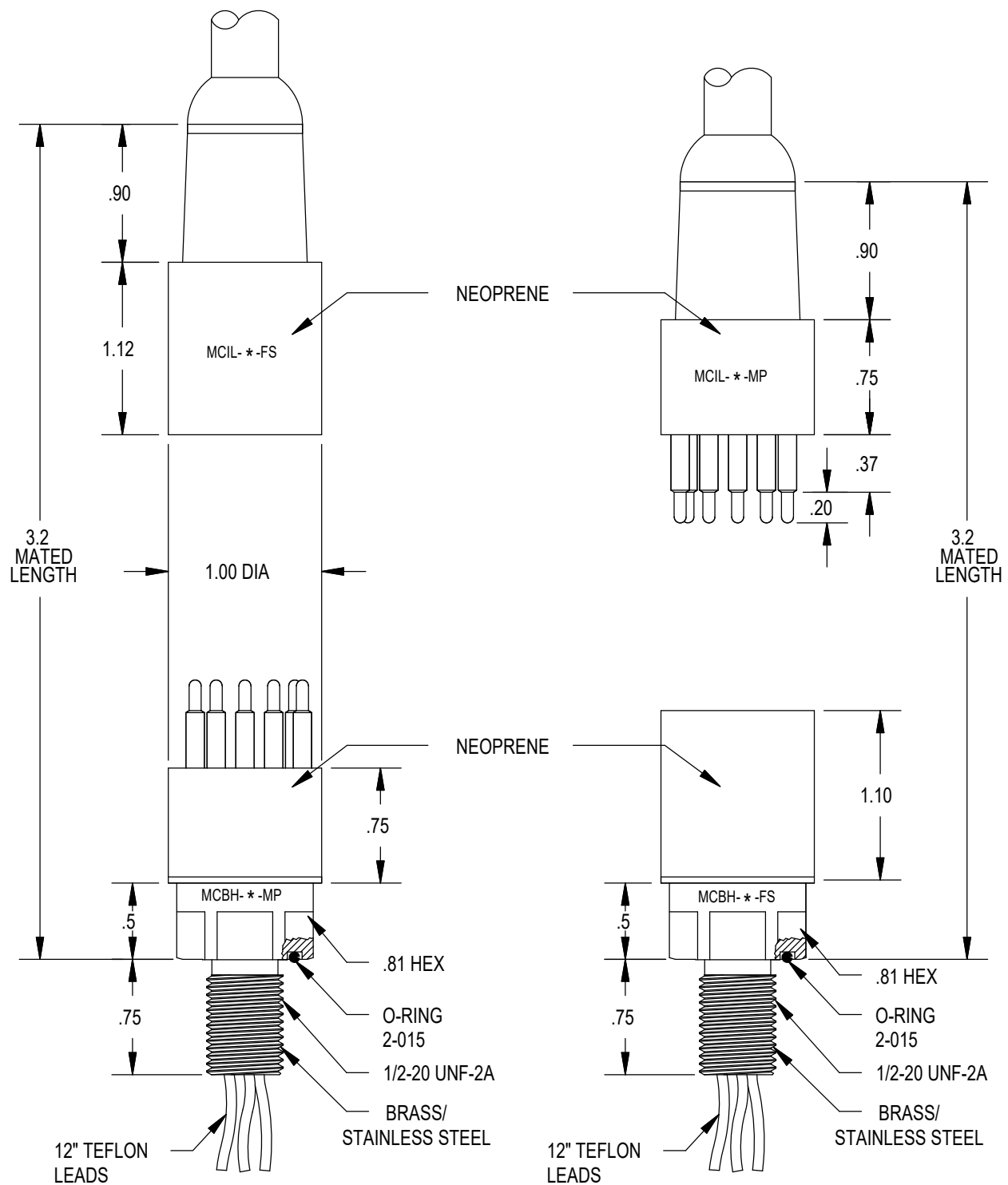


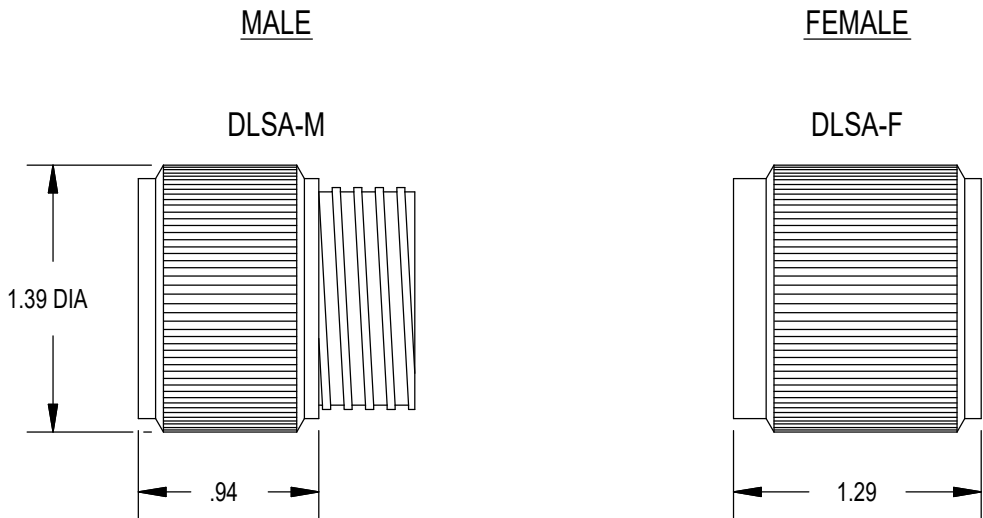


**CONTACT
CONFIGURATION**
(MP FACE VIEW)

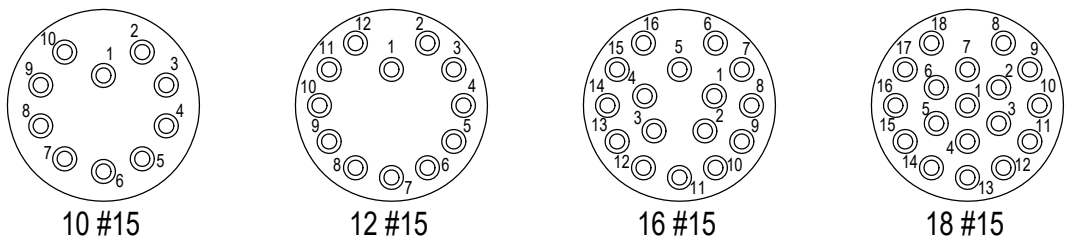


MOUNTING TORQUE FOR MCBH-FS/MP	not to exceed 100 in lbs
MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR MCIL/BH-FS	MCDC- * -MP
DUMMY PLUG FOR MCIL/BH-MP	MCDC- * -FS
* Specify number of contacts.	
NOTE: Bulkhead body available in Titanium. Standard 3/4" thread length.	





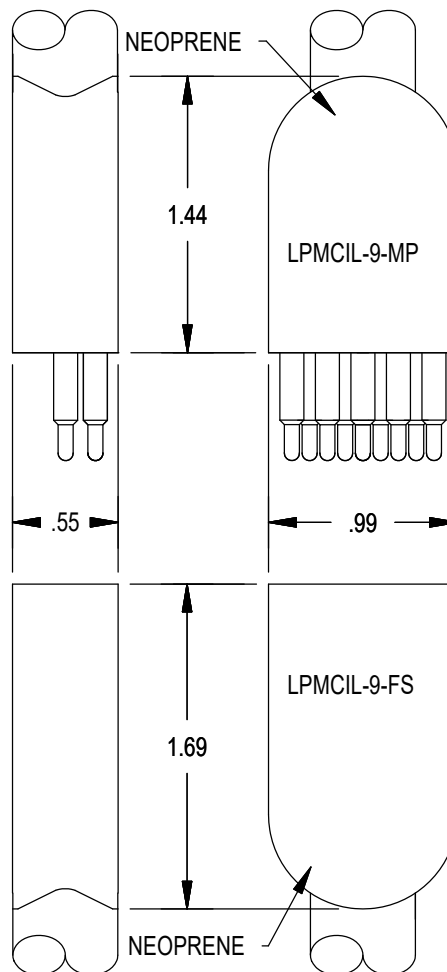
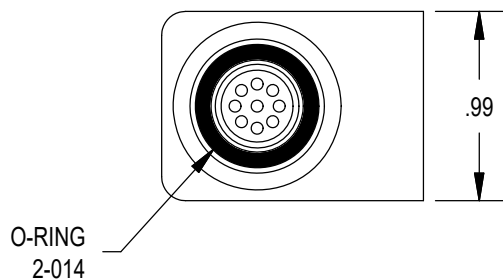
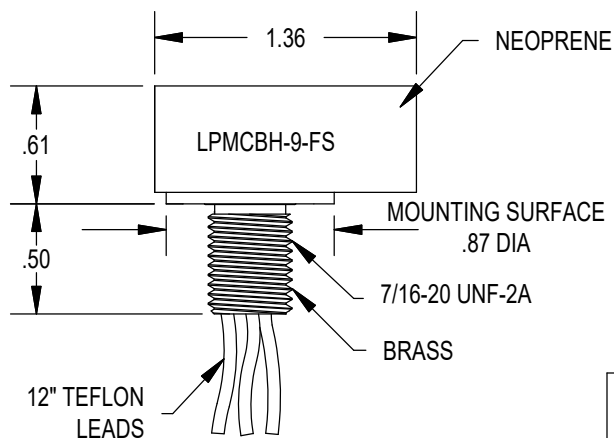
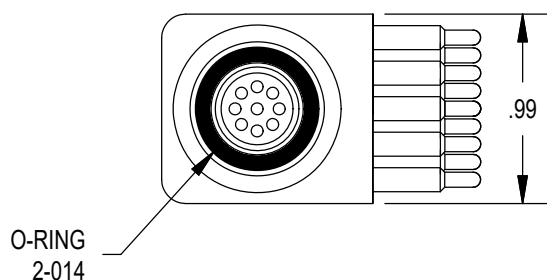
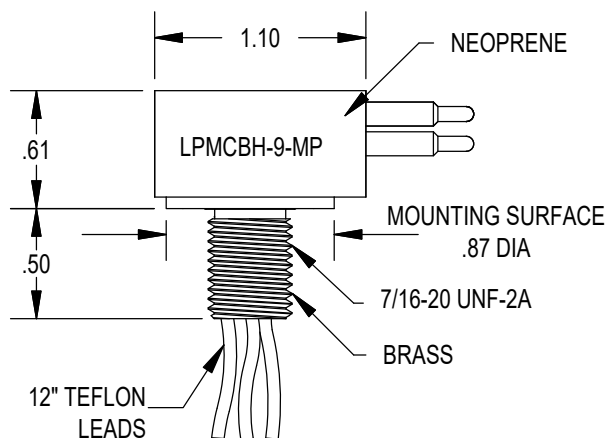
CONTACT
CONFIGURATION
(MP FACE VIEW)



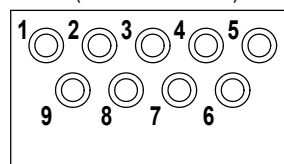
MOUNTING TORQUE FOR MCBH-FS/MP	not to exceed 100 in lbs
MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR MCIL/BH-FS	MCDC- * -MP
DUMMY PLUG FOR MCIL/BH-MP	MCDC- * -FS
* Specify number of contacts. * Dummy plugs found on page 65 126	
NOTE: Bulkhead body available in Titanium. Standard 3/4" thread length.	

LPMCBH/LPMCIL-9

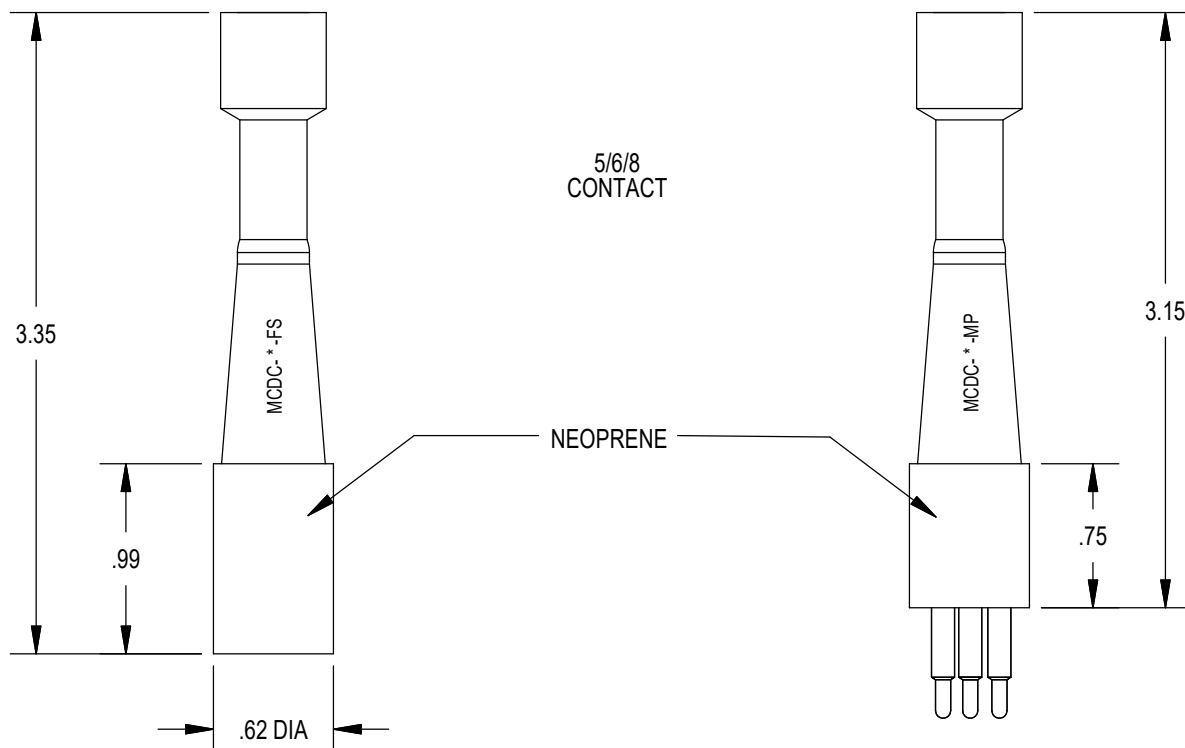
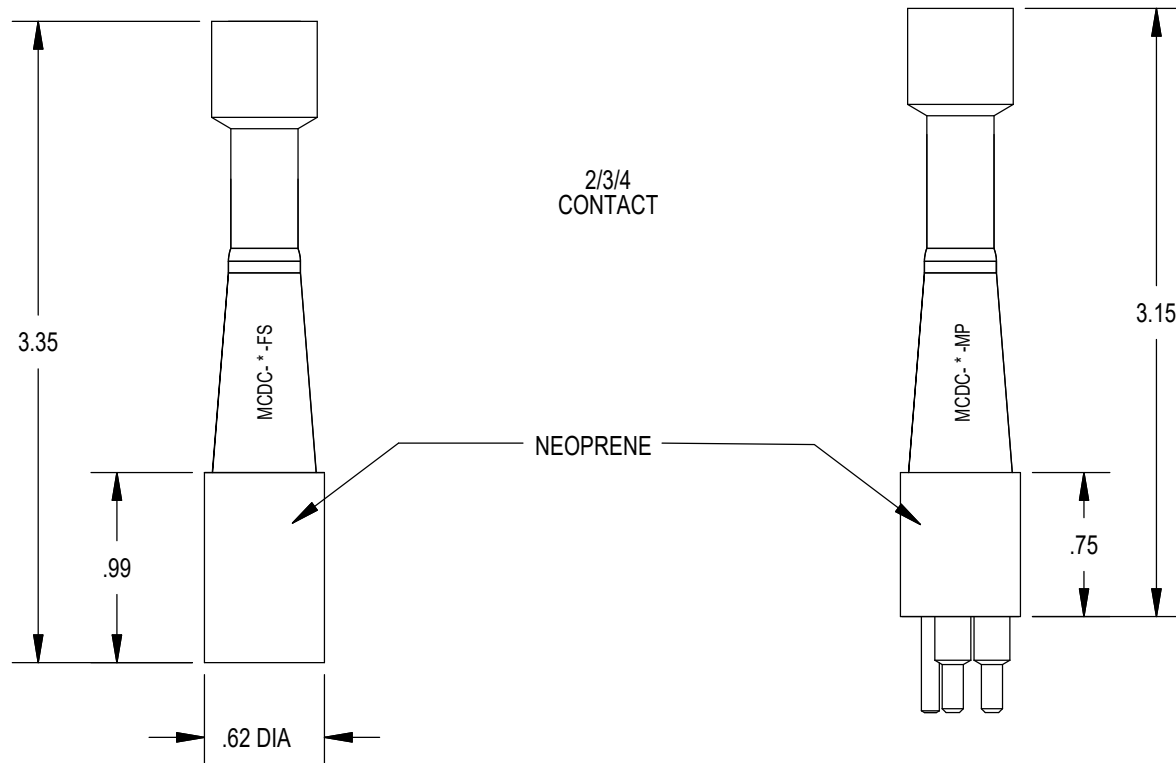
MICRO MINI SPLASH
MATE SERIES



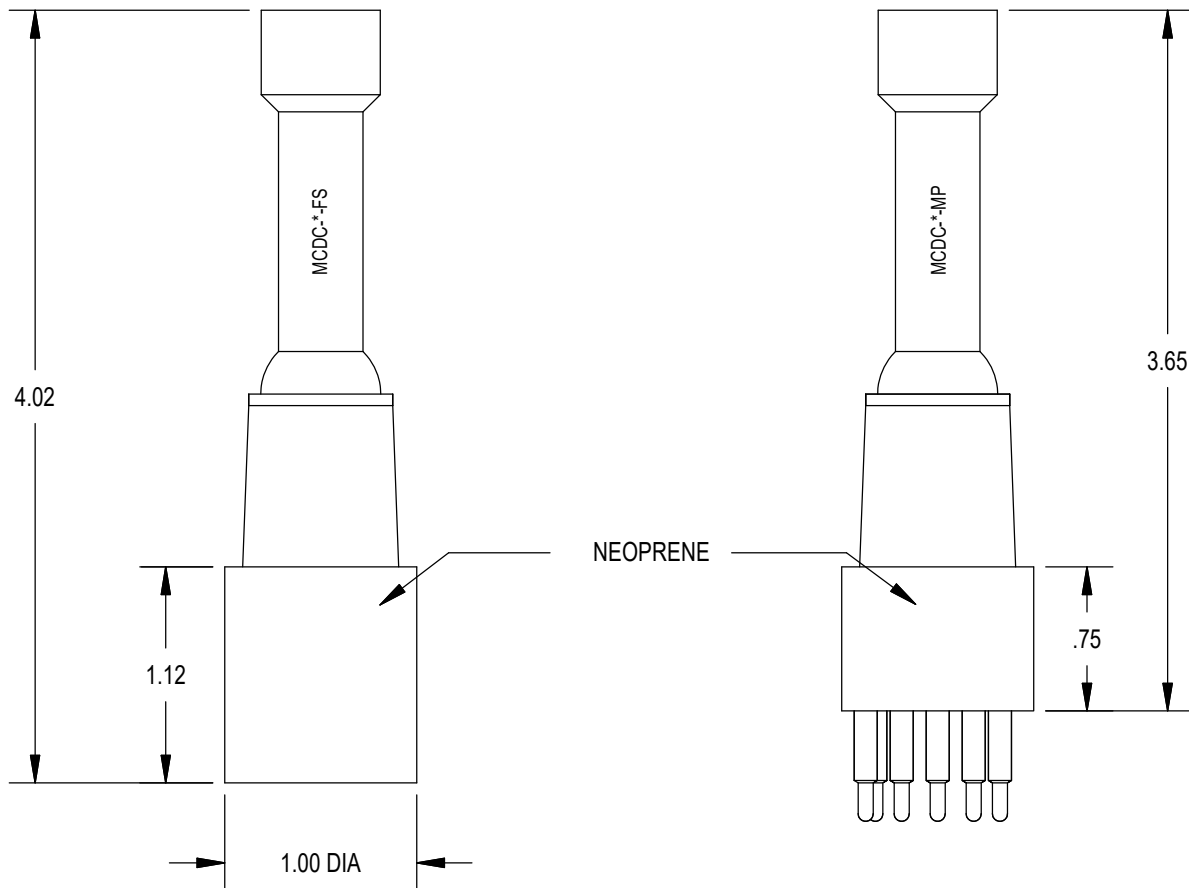
CONTACT CONFIGURATION (MP FACE VIEW)



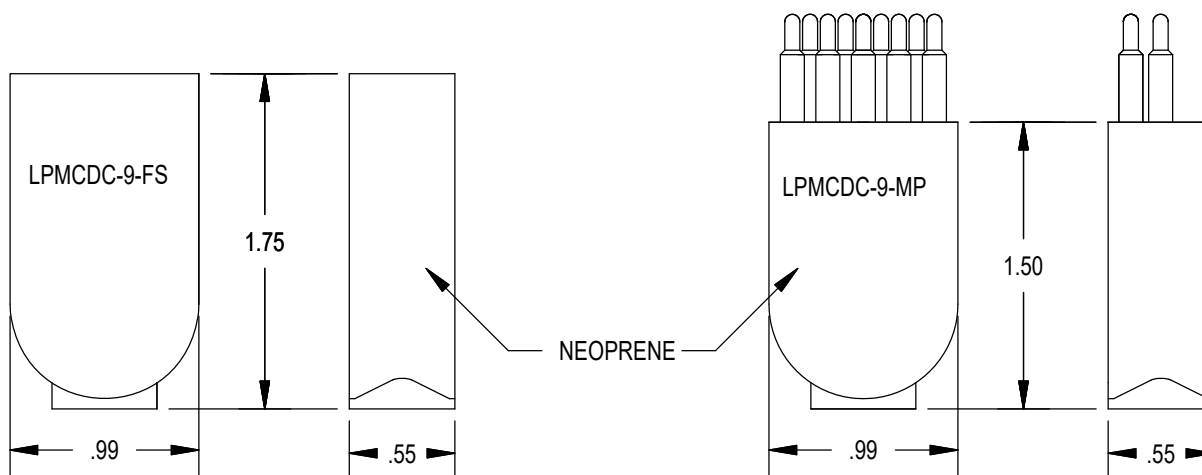
MOUNTING TORQUE FOR LPMCBH-FS/MP	not to exceed 100 in/lbs
MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR LPMCIL/BH-FS	LPMCDC- *-MP
DUMMY PLUG FOR LPMCIL/BH-MP	LPMCDC- *-FS
NOTE: Bulkhead body available in Stainless Steel. Standard 1/2" thread length. Dummy plugs found on page 65 127	

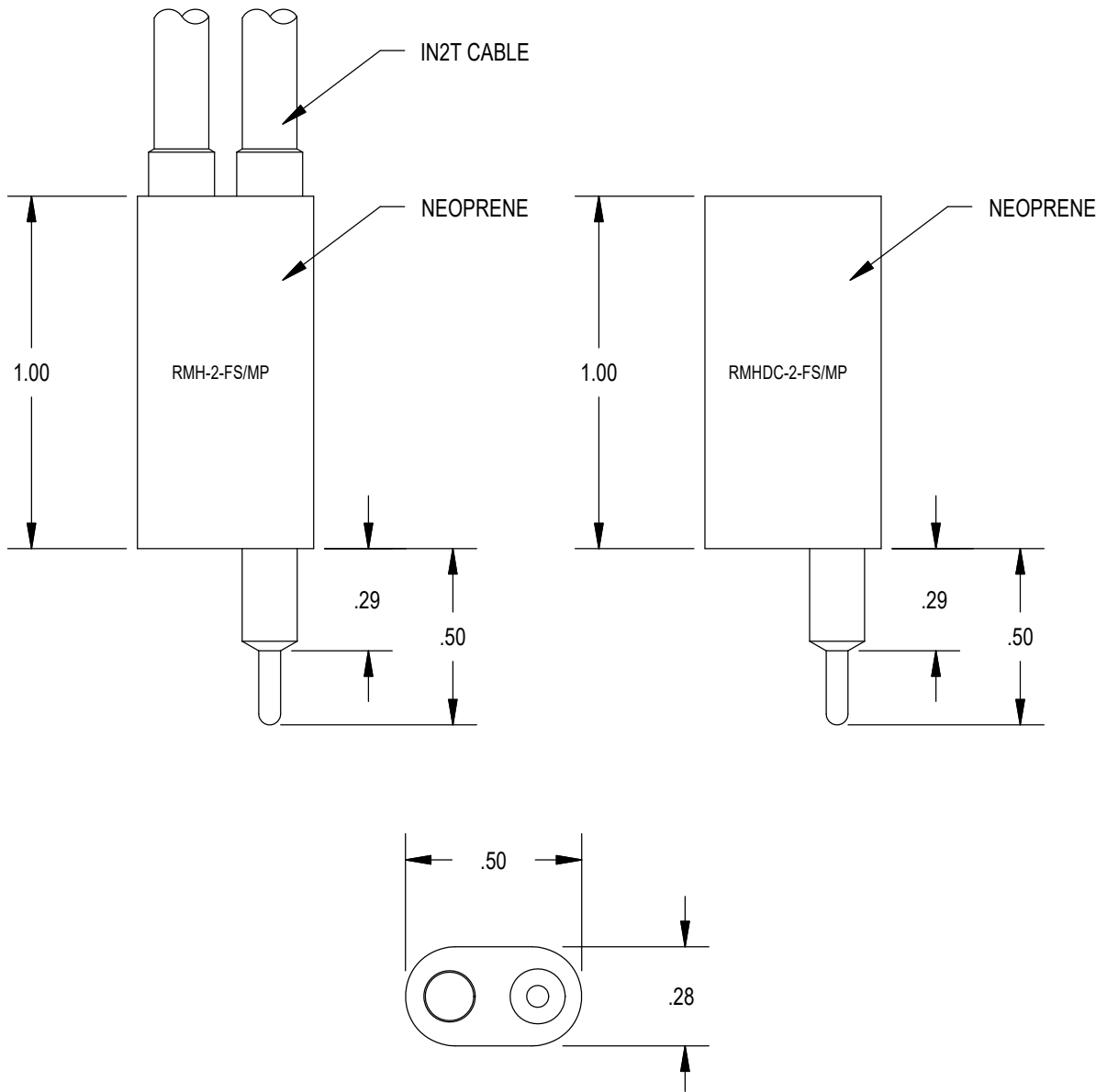


* Specify number of contacts



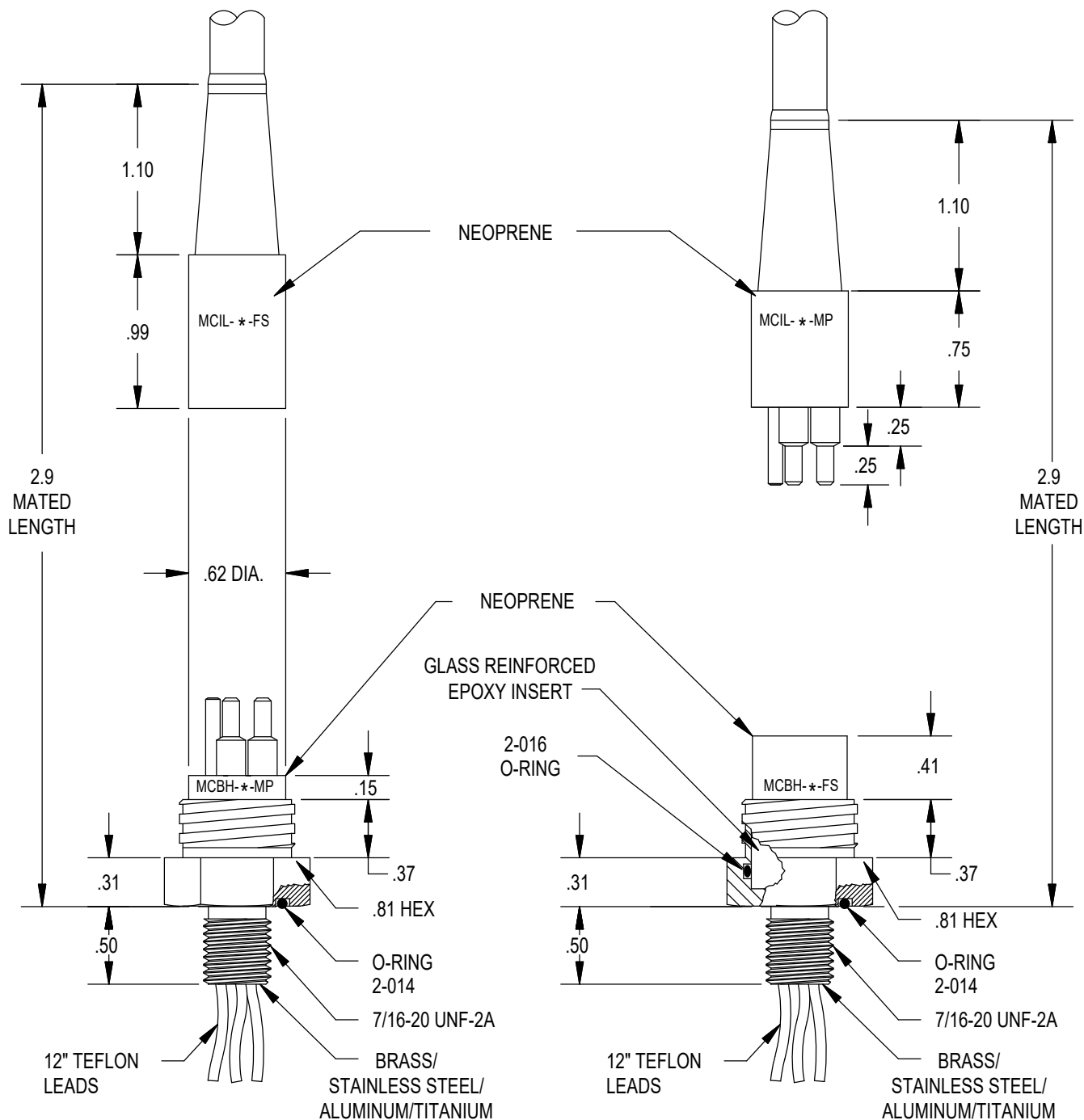
* Specify number of contacts





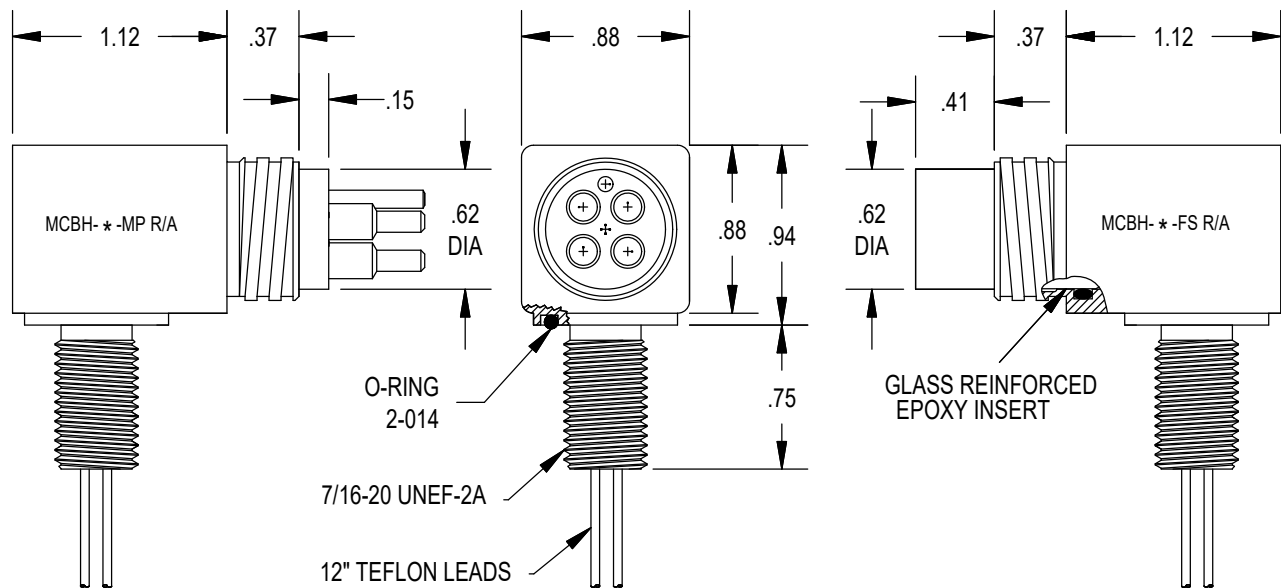
MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR RMH-2-FS/MP	RMHDC-2-FS/MP

DESCRIPTION AND MATERIAL	• Molded neoprene. • Two to eight contacts. • Up to 600 VDC. • Up to 10,000 PSI, mated. • Glass reinforced epoxy puck with o-ring seal provides waterblock in event of damage to neoprene face of bulkhead. • Bulkhead connector design open face pressure rated to 5000 PSI. • Contacts gold plated per MIL-G-45204. • Individual contact sealing allows surface mating when wet.
CABLE	• Inline connectors in this series are molded on a standard 24" length of cable, #20 AWG, unless otherwise specified. • Bulkhead connectors have 12" teflon leads, Type E per MIL 16878/4, two to four contact - #20 AWG, five to eight contact - #22 AWG.
USES	• Light to medium duty applications. • Hazardous environments.
GUIDELINES	• All mounting surfaces require a 32 finish. • Lubricate mating surface with 3M Silicone Spray or equivalent, DO NOT grease! Connectors must be lubricated on a regular basis. • Lubricate o-ring with Dow Corning #111 Valve Lubricant or equivalent. • Replace o-rings when re-using connectors. • Avoid nicks and cuts around contacts as these are the sealing surfaces. • Elastomers can be seriously degraded if exposed to direct sunlight or high ozone levels for extended periods of time. • Do not over tighten bulkhead nuts. • Do not pull on cable to disconnect. • Avoid sharp bends at cable entry to connector.
ORDERING INFORMATION	• Bulkhead connectors do not come with nuts and washers. Nuts and washers should be ordered separately.

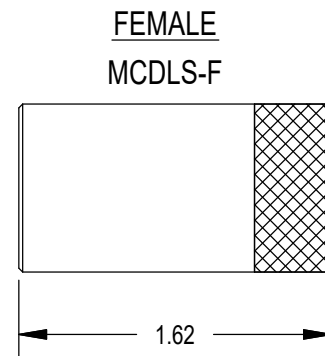
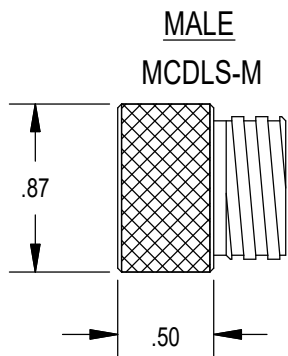


MCIL/BH (WB)-2/3/4-R/A

MICRO MINI SPLASH MATE
(WATERBLOCKED) SERIES

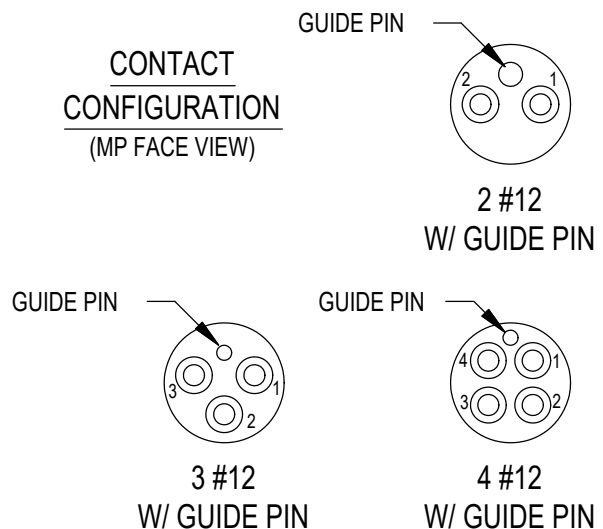


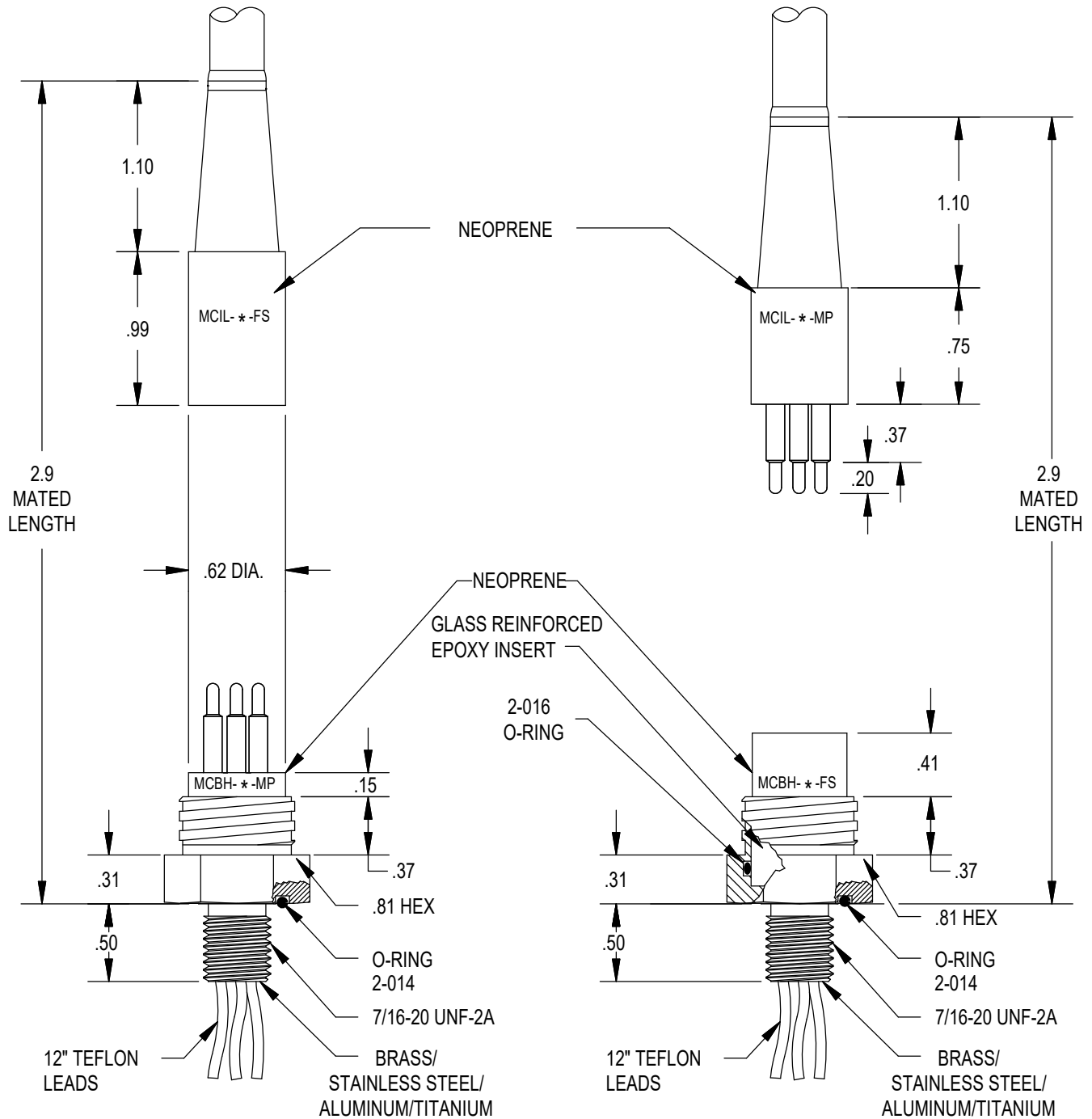
DELTRIN LOCKING SLEEVES



MOUNTING TORQUE FOR MCIL/BH (WB)-FS/MP	not to exceed 100 in/lbs
MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR MCIL/BH (WB)-FS	MCDC- * -MP
DUMMY PLUG FOR MCIL/BH (WB)-MP	MCDC- * -FS
* Specify number of contacts. * Dummy plugs found on page 65 125	

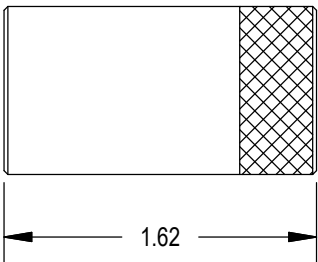
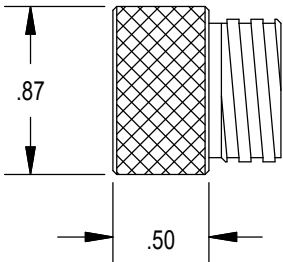
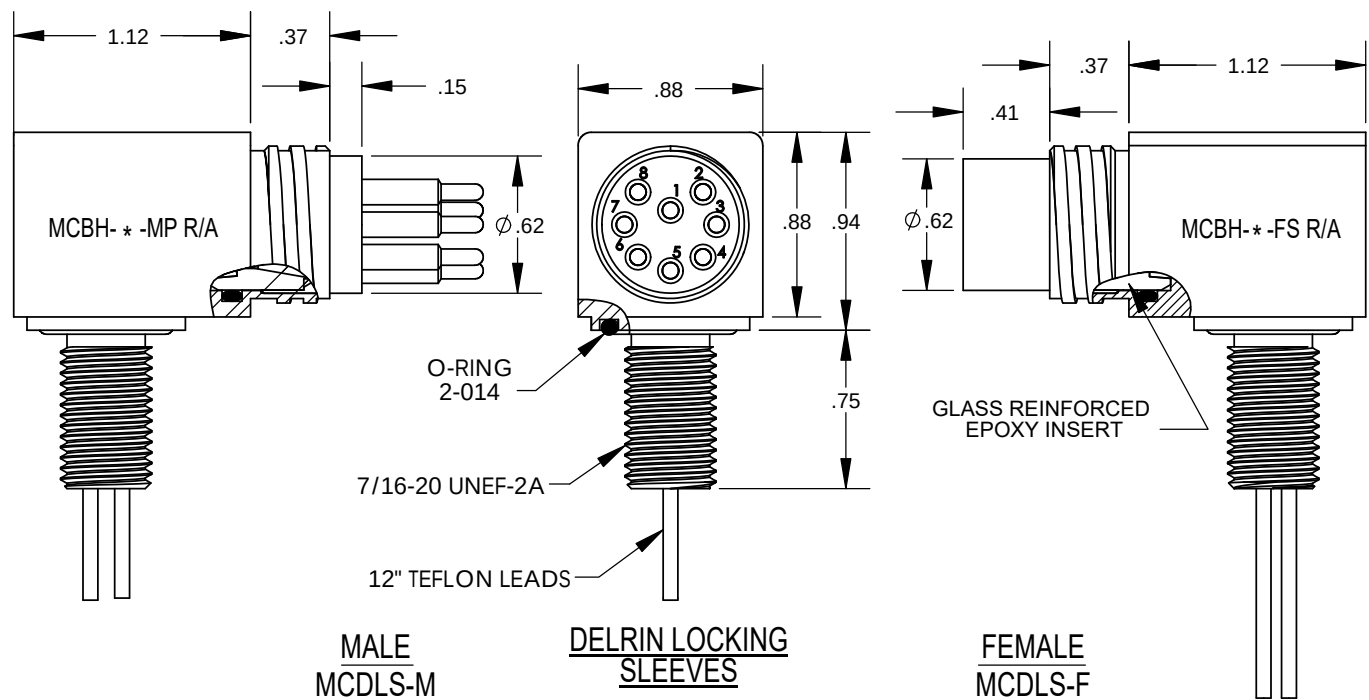
CONTACT CONFIGURATION (MP FACE VIEW)



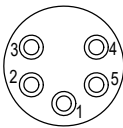


MCIL/BH (WB)-5/6/8

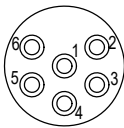
MICRO MINI SPLASH MATE
(WATERBLOCKED) SERIES



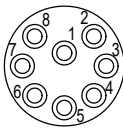
CONTACT
CONFIGURATION
(MP FACE VIEW)



5 #15



6 #15



8 #15

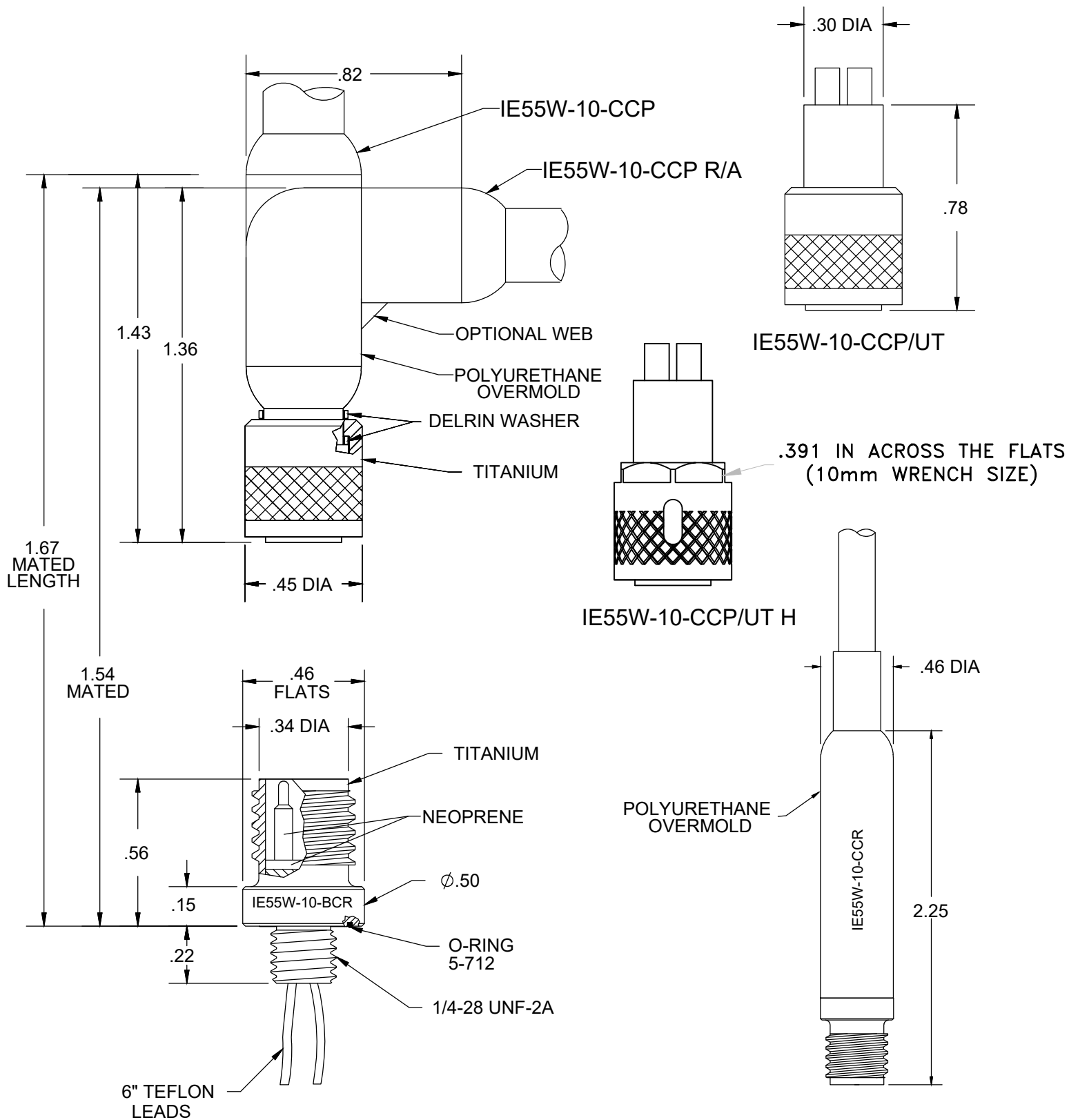
MOUNTING TORQUE FOR MCIL/BH (WB)-FS/MP	not to exceed 100 in lbs
MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR MCIL/BH (WB)-FS	MCDC- * -MP
DUMMY PLUG FOR MCIL/BH (WB)-MP	MCDC- * -FS
* Specify number of contacts. * Dummy plugs found on page 65 125	

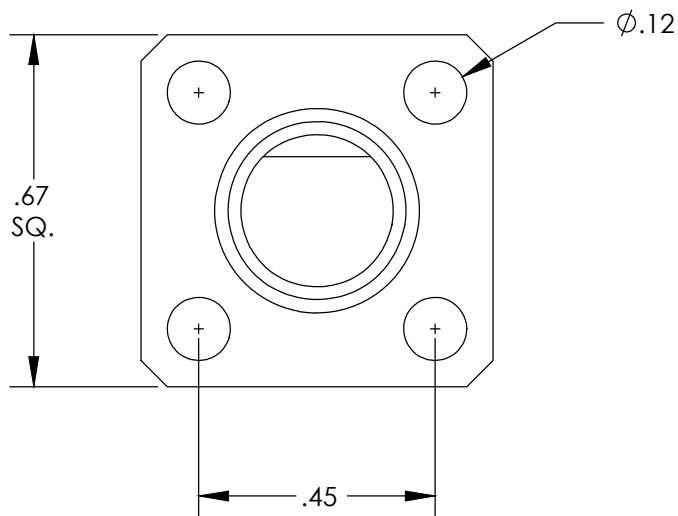
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DESCRIPTION AND MATERIAL	• Body and engaging nut are 316 Stainless Steel, passivated per QQ-P-35 Type VI. • To 10,000 PSI in mated condition. • Bulkhead connector design open face pressure rated to 5000 PSI. • Contacts gold plated per MIL-G-45204. • Engaging nuts have Acme threads for rugged applications and for quick connection (shell size 15 has standard V thread). • Working voltage - 600 VDC (contact factory for high voltage applications).
CABLE	• CCP, CCP-R/A and CCR are molded on standard 24" length of 16 AWG SO cable. IE55-1508 is molded on a standard 24" length of 18 AWG SO cable. • Other cable options available at customer's request. • BCR/FCR have 48" teflon leads, Type E per MIL 16878/4 16 AWG. • Un-Terminated versions of CCP available.
USES	• Heavy Duty applications. • Hazardous environment. • Power Transmission. • Signal Telemetry. • ROV applications.
GUIDELINES	• All mounting and sealing surfaces require a 32 finish. • Lubricate mating surfaces with 3M Silicone Lubricant or equivalent, DO NOT GREASE! Connectors must be lubricated on a regular basis. • Lubricate o-rings with Dow Corning #111 Valve Lubricant or equivalent. • Use Dust Caps and keep connectors clean to prevent damage in storage and service. • Keep o-ring grooves clean and avoid cuts, nicks and tears on rubber surfaces. • Elastomers can be seriously degraded if exposed to direct sunlight or high ozone levels for extended periods of time. • Clean plugs and receptacles with soap and fresh water. Rinse out with alcohol, allowing connector to air dry. • Replace o-rings when re-using connectors.
NOTE	• Also available as inverted series, see following section.
Specifications for: SUBMINIATURE CONNECTOR (Bulletin 70 03/06)	• Body and engaging nut are 6AL-4V Titanium. Engaging nut is Tiodized per AMS 2488 TYPE II. • Working voltage - 300 VDC. • IE55-1204/06-CCP, CCP-R/A and CCR are molded on standard 24" 22 AWG polyurethane jacketed cable. IE55W-1002/03-CCP, CCP-R/A and CCR are molded on standard 24" 20 AWG Belden cable. • IE55-1204/06-BCR/FCR are molded on standard 6" Teflon lead, Type E per MIL 16878/4, 24 AWG. IE55W-1002/03-BCR/FCR are molded on standard 6" Teflon lead, Type E per MIL 16878/4, 22 AWG. • Mainly used on small sensor packages. • Light duty applications only.

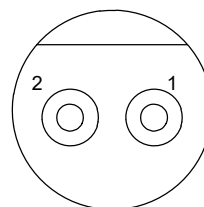
IE55W-10

IE55(W) SPLASH MATE RUBBER MOLDED METAL SHELL SERIES

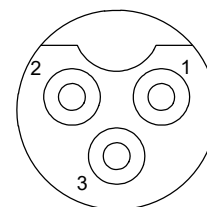




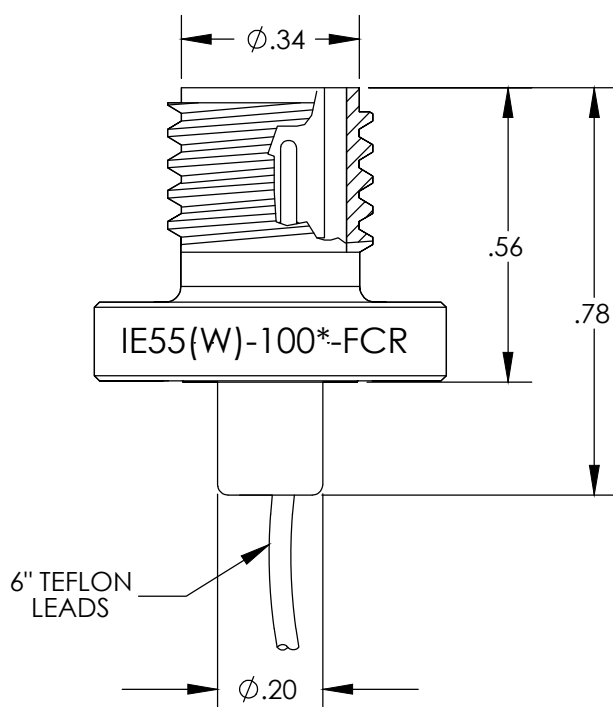
CONTACT CONFIGURATION
(BCR FACE VIEW)



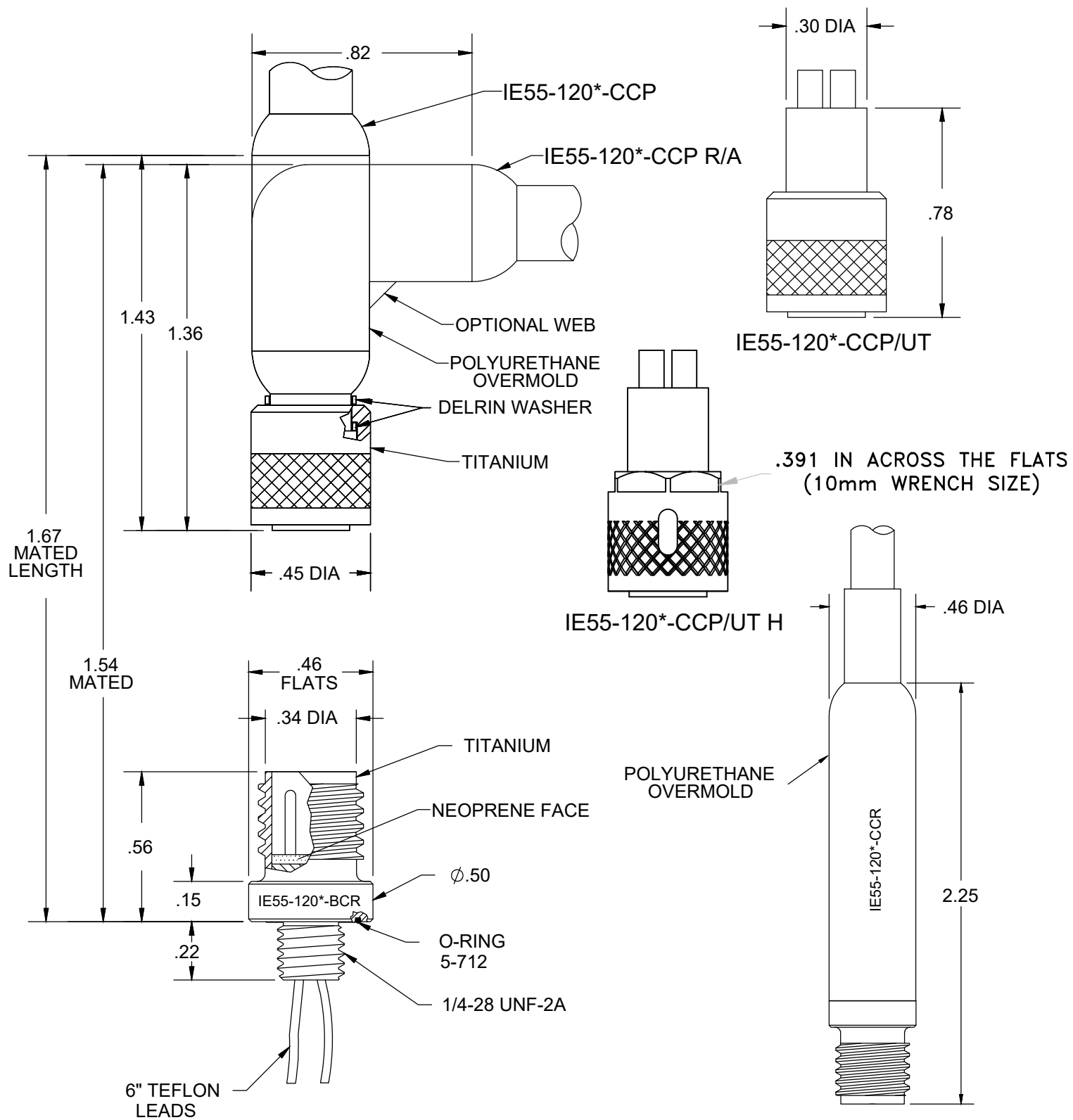
2 #20

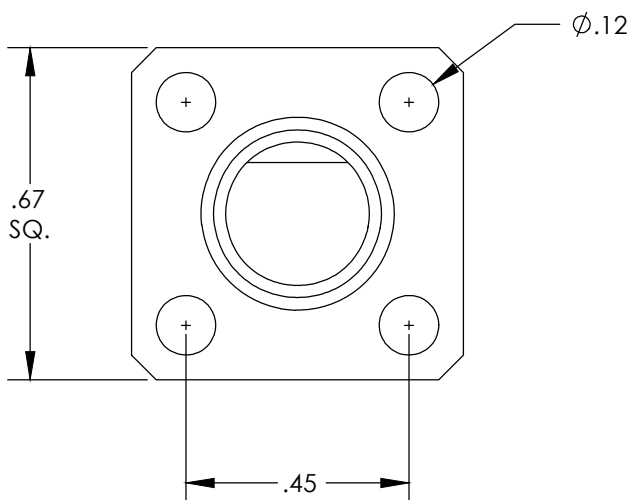


3 #20

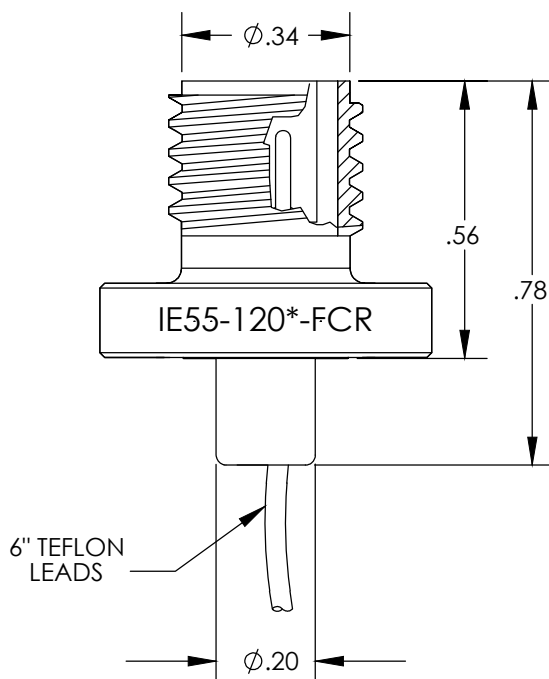
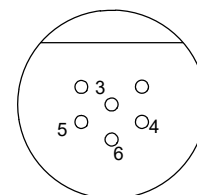
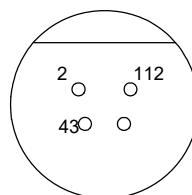


MATED PRESSURE RATING (psi)	10,000
MOUNTING TORQUE FOR BCR	not to exceed 15 in lbs
MATING TORQUE FOR CCP TO BCR/CCR/FCR	not to exceed 4 in lbs
DUMMY PLUG FOR BCR	IE55W-10*-SCP
DUMMY PLUG FOR CCP	IE55W-10*-SCR
* Specify number of contacts.	

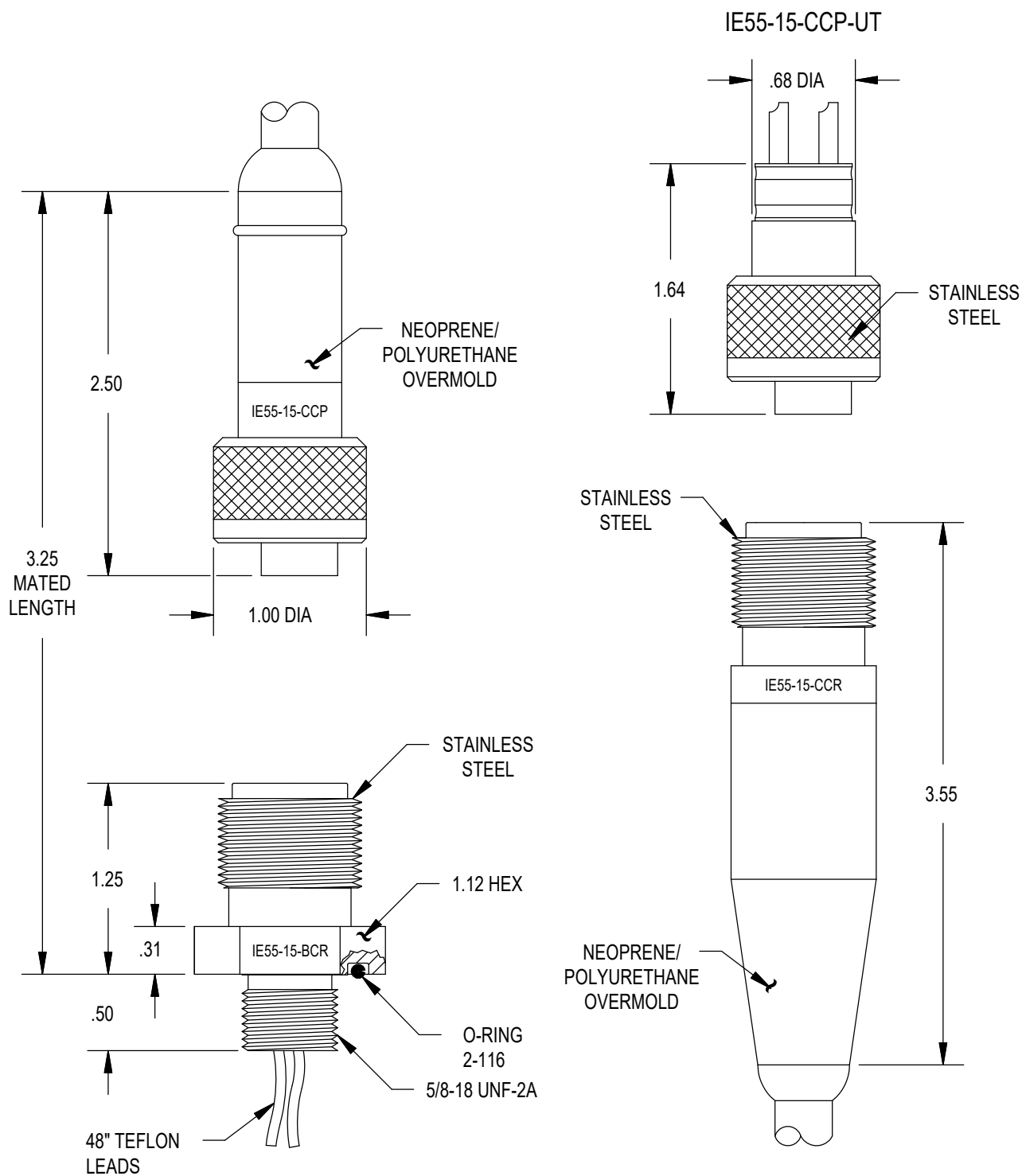


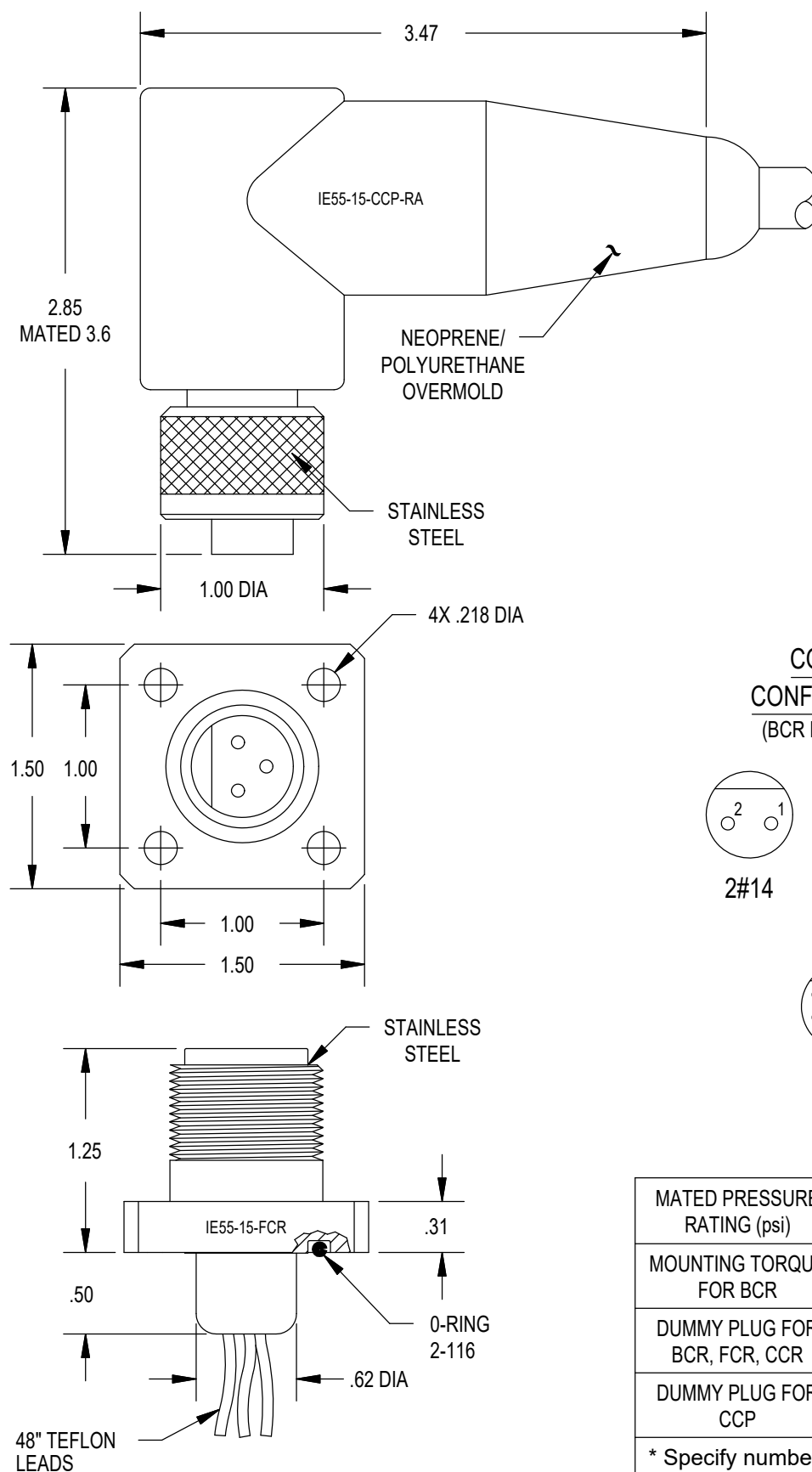


CONTACT CONFIGURATION (BCR FACE VIEW)

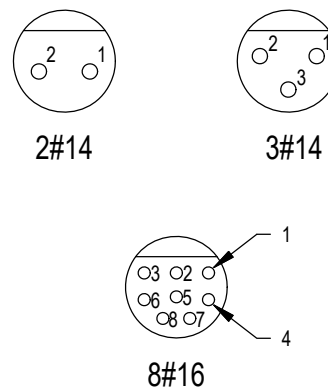


MATED PRESSURE RATING (psi)	10,000
MOUNTING TORQUE FOR BCR	not to exceed 15 in lbs
MATING TORQUE FOR CCP TO BCR/CCR/FCR	not to exceed 4 in lbs
DUMMY PLUG FOR BCR	IE55-12*-SCP
DUMMY PLUG FOR CCP	IE55-12*-SCR
* Specify number of contacts	



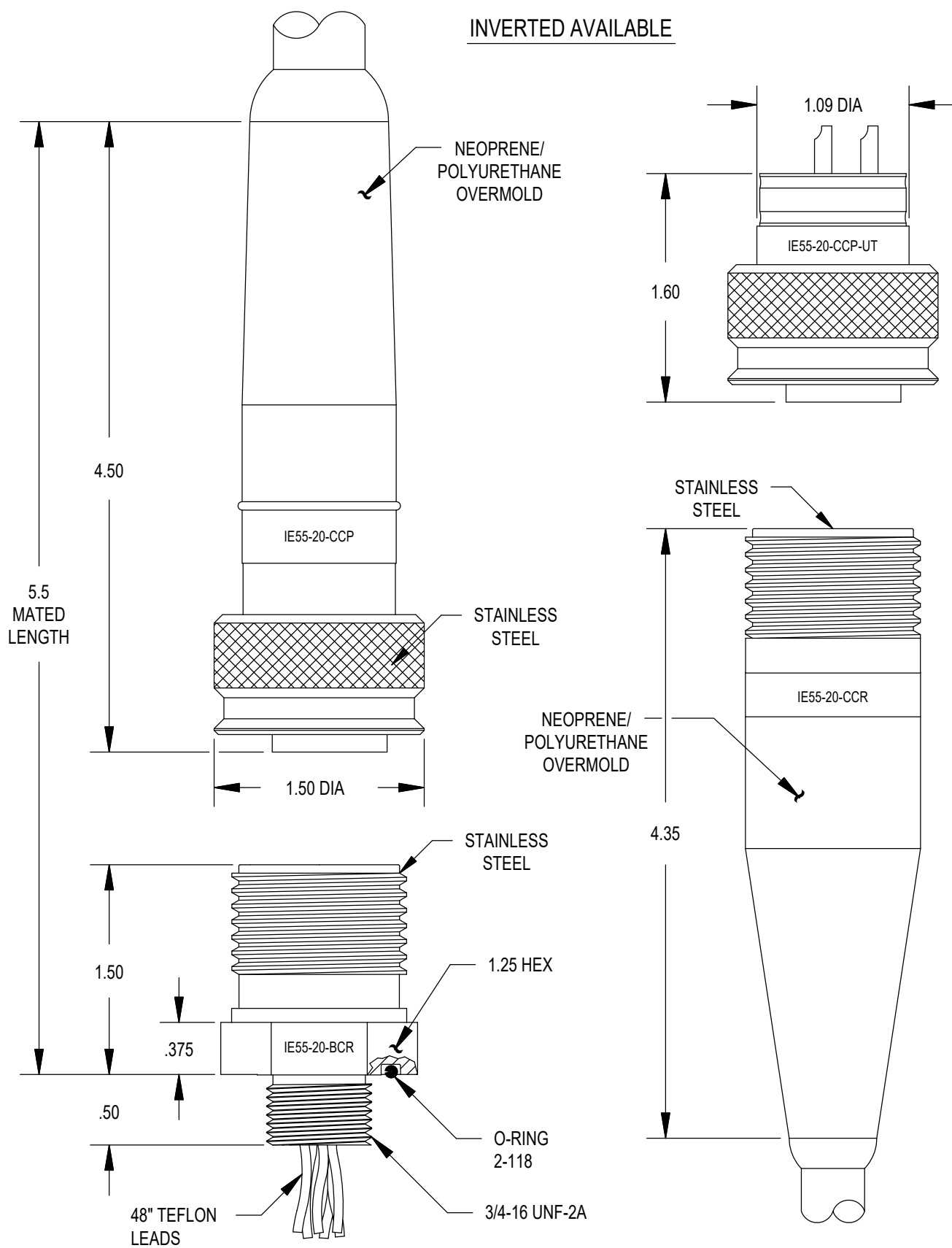


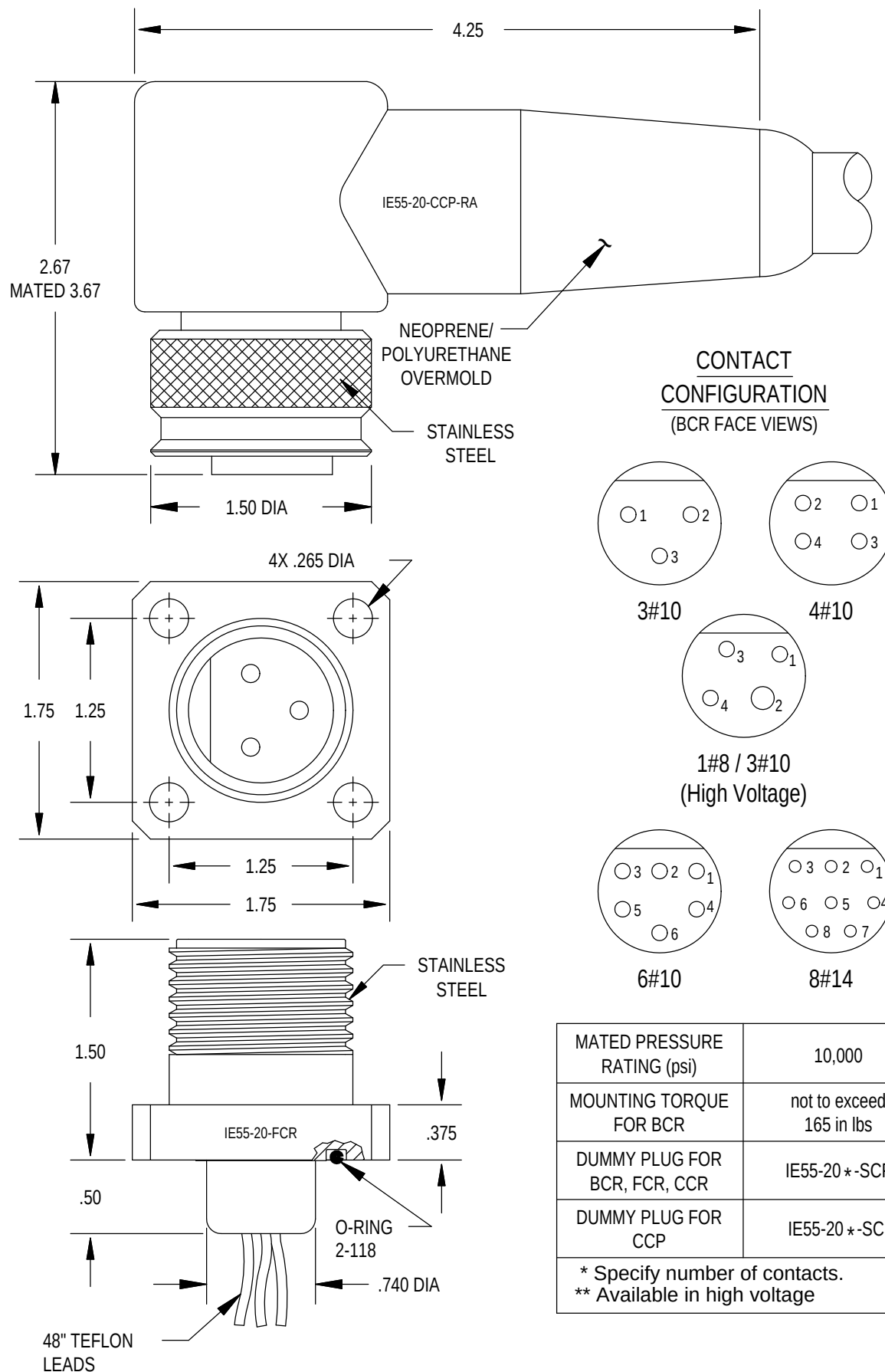
CONTACT CONFIGURATION (BCR FACE VIEWS)



MATED PRESSURE RATING (psi)	10,000
MOUNTING TORQUE FOR BCR	not to exceed 125 in lbs
DUMMY PLUG FOR BCR, FCR, CCR	IE55-15 *-SCP
DUMMY PLUG FOR CCP	IE55-15 *-SCR
* Specify number of contacts.	

INVERTED AVAILABLE

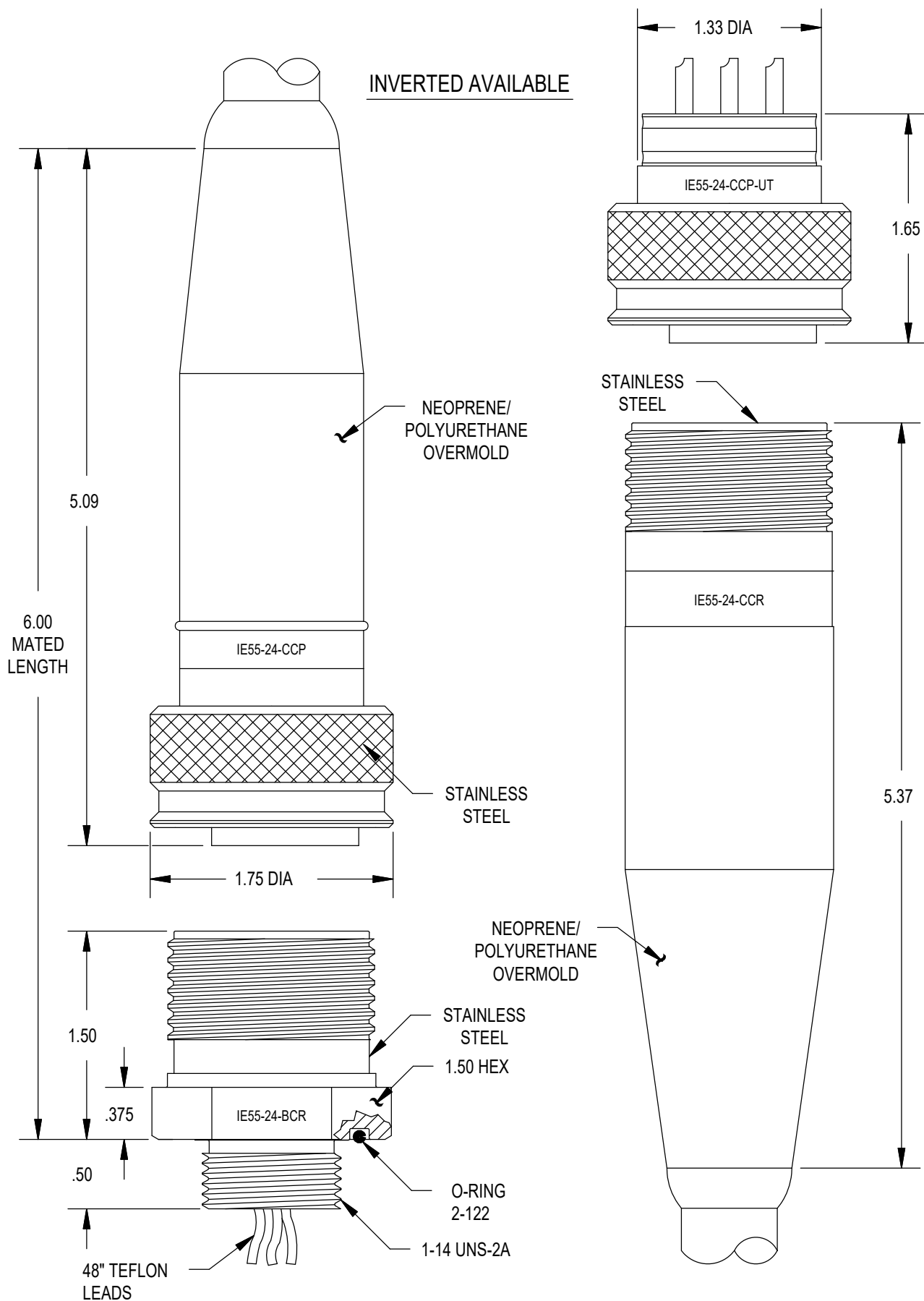




MATED PRESSURE RATING (psi)	10,000
MOUNTING TORQUE FOR BCR	not to exceed 165 in lbs
DUMMY PLUG FOR BCR, FCR, CCR	IE55-20 *-SCP
DUMMY PLUG FOR CCP	IE55-20 *-SCR
* Specify number of contacts. ** Available in high voltage	

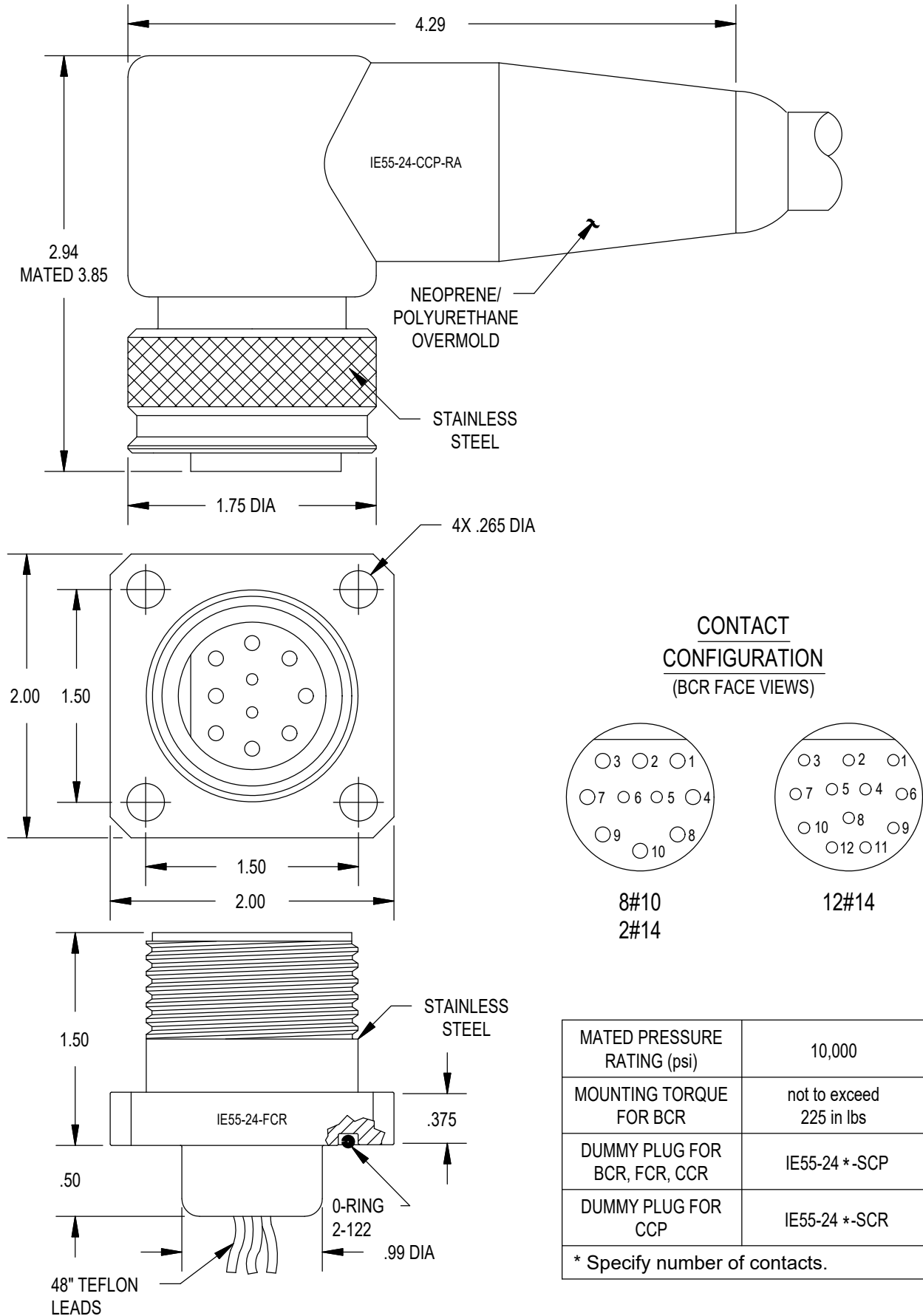
IE55-24

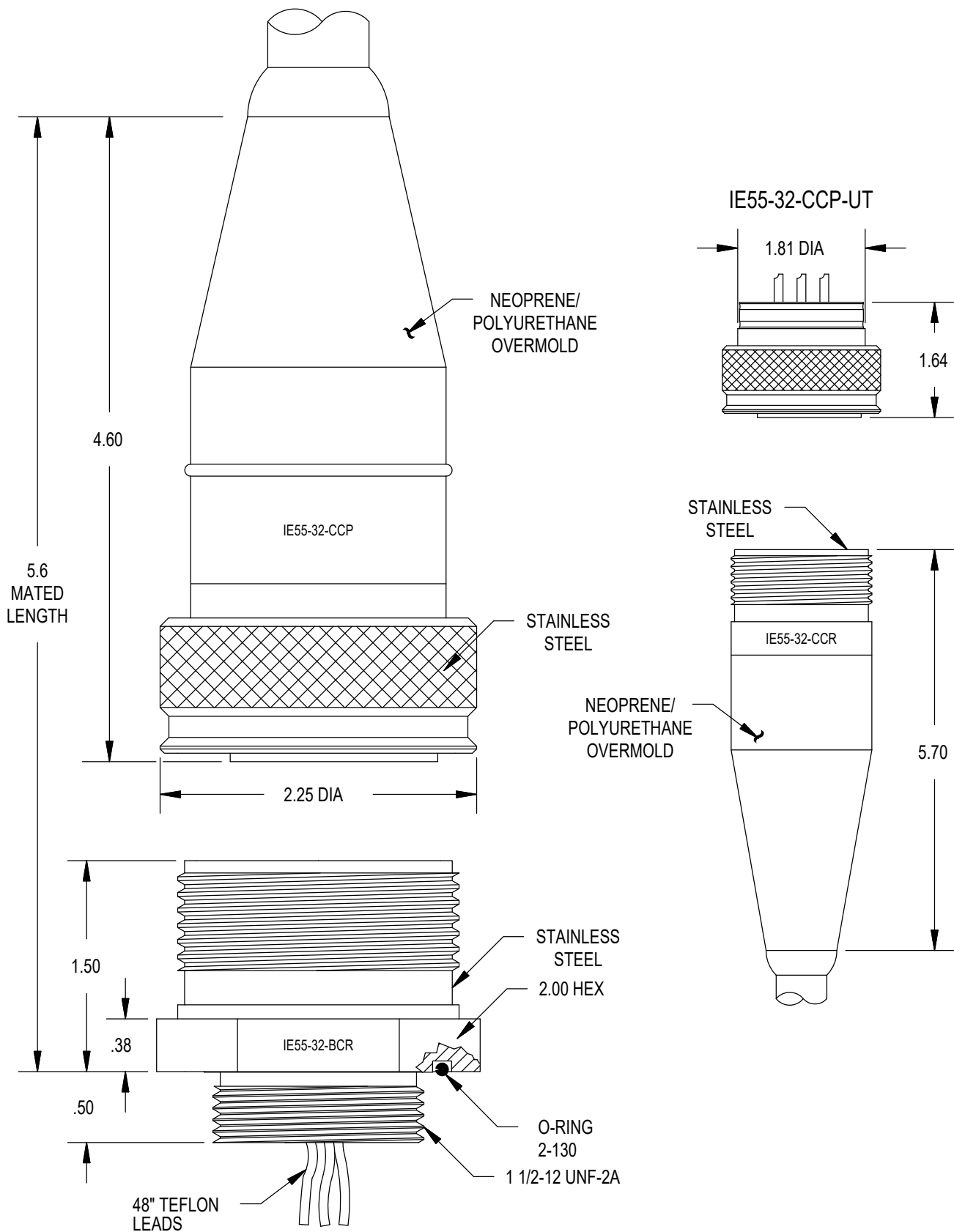
IE55 RUBBER MOLDED
METAL SHELL SERIES

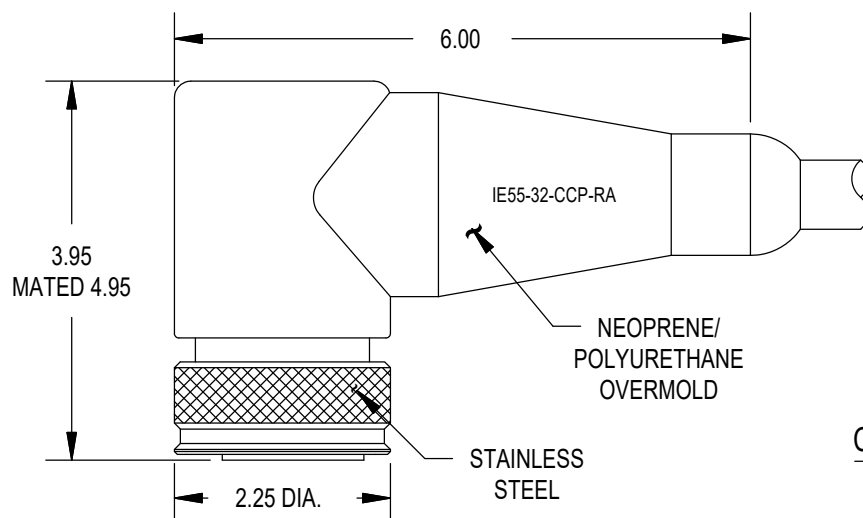


IE55-24

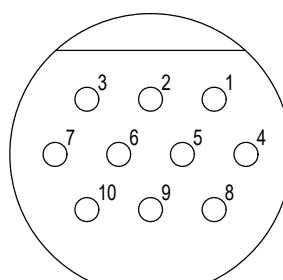
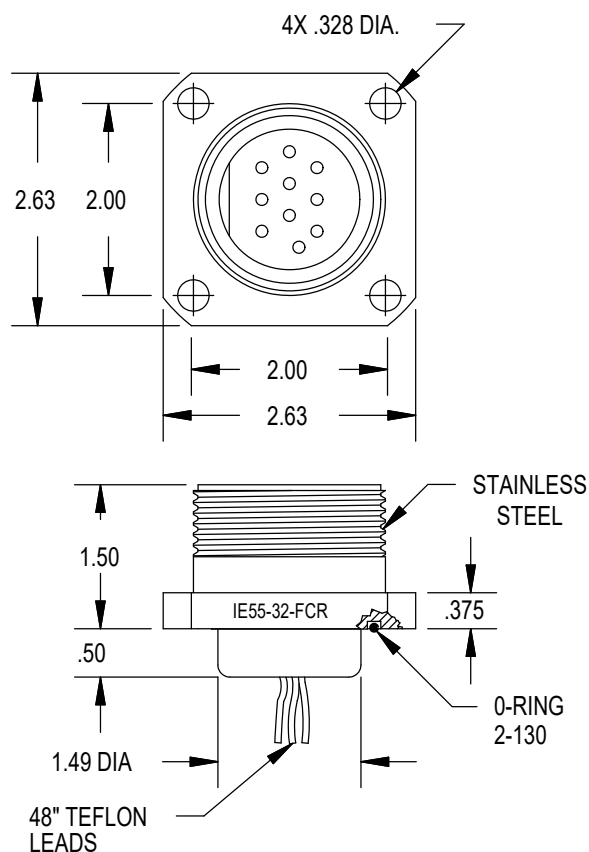
IE55 RUBBER MOLDED METAL SHELL SERIES



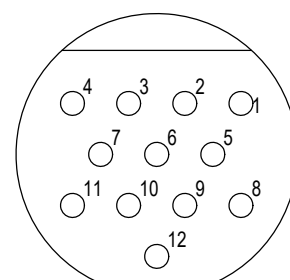




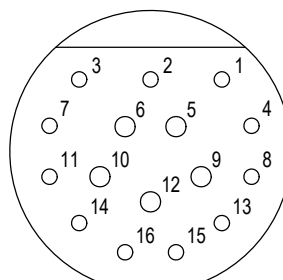
CONTACT CONFIGURATION (BCR FACE VIEWS)



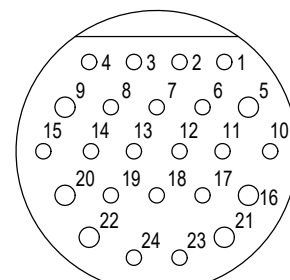
10#8



12#8



5#10
11#14

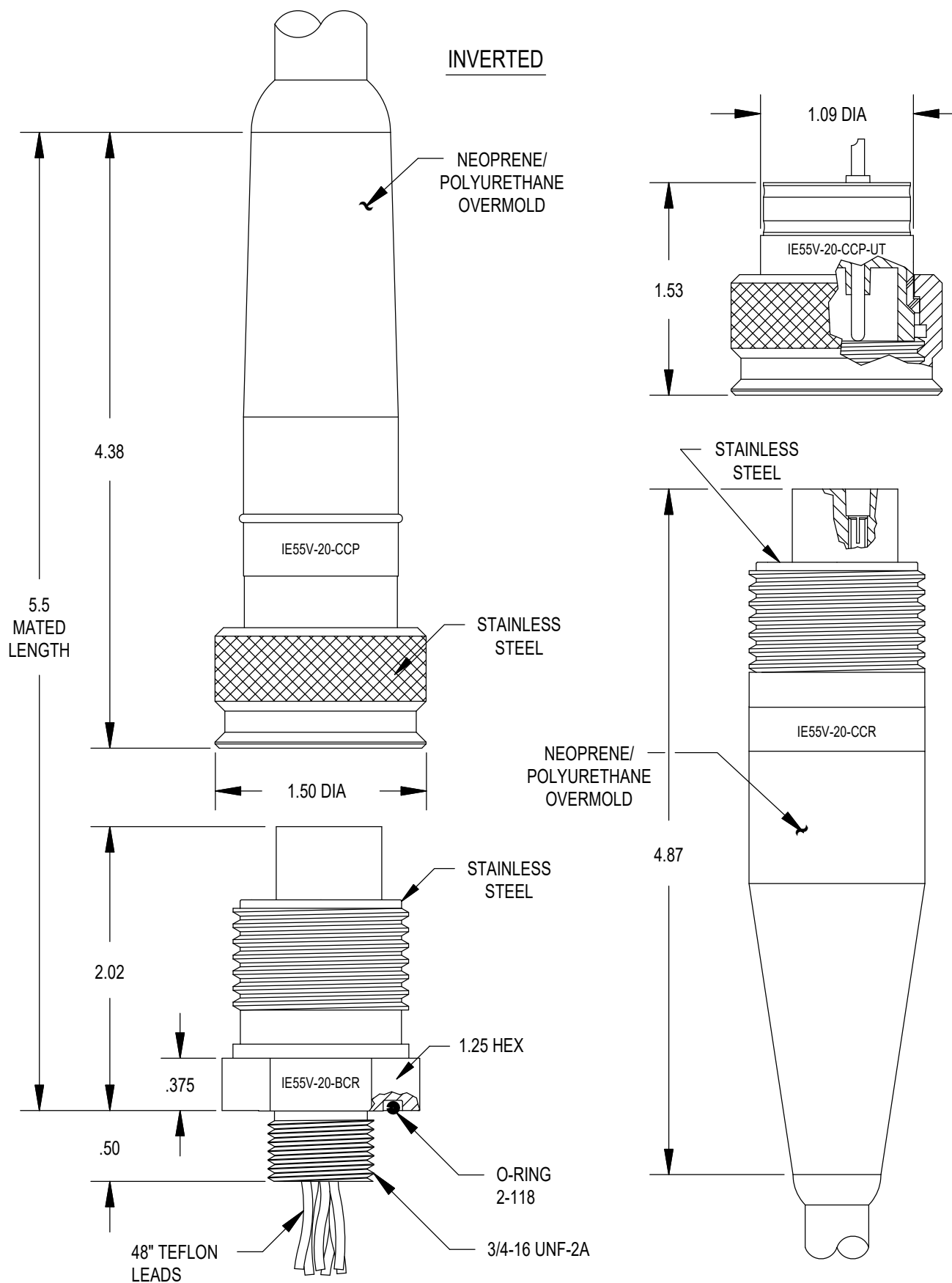


6#10
18#14

MATED PRESSURE RATING (psi)	10,000
MOUNTING TORQUE FOR BCR	not to exceed 335 in lbs
DUMMY PLUG FOR BCR, FCR, CCR	IE55-32 *-SCP
DUMMY PLUG FOR CCP	IE55-32 *-SCR
* Specify number of contacts.	

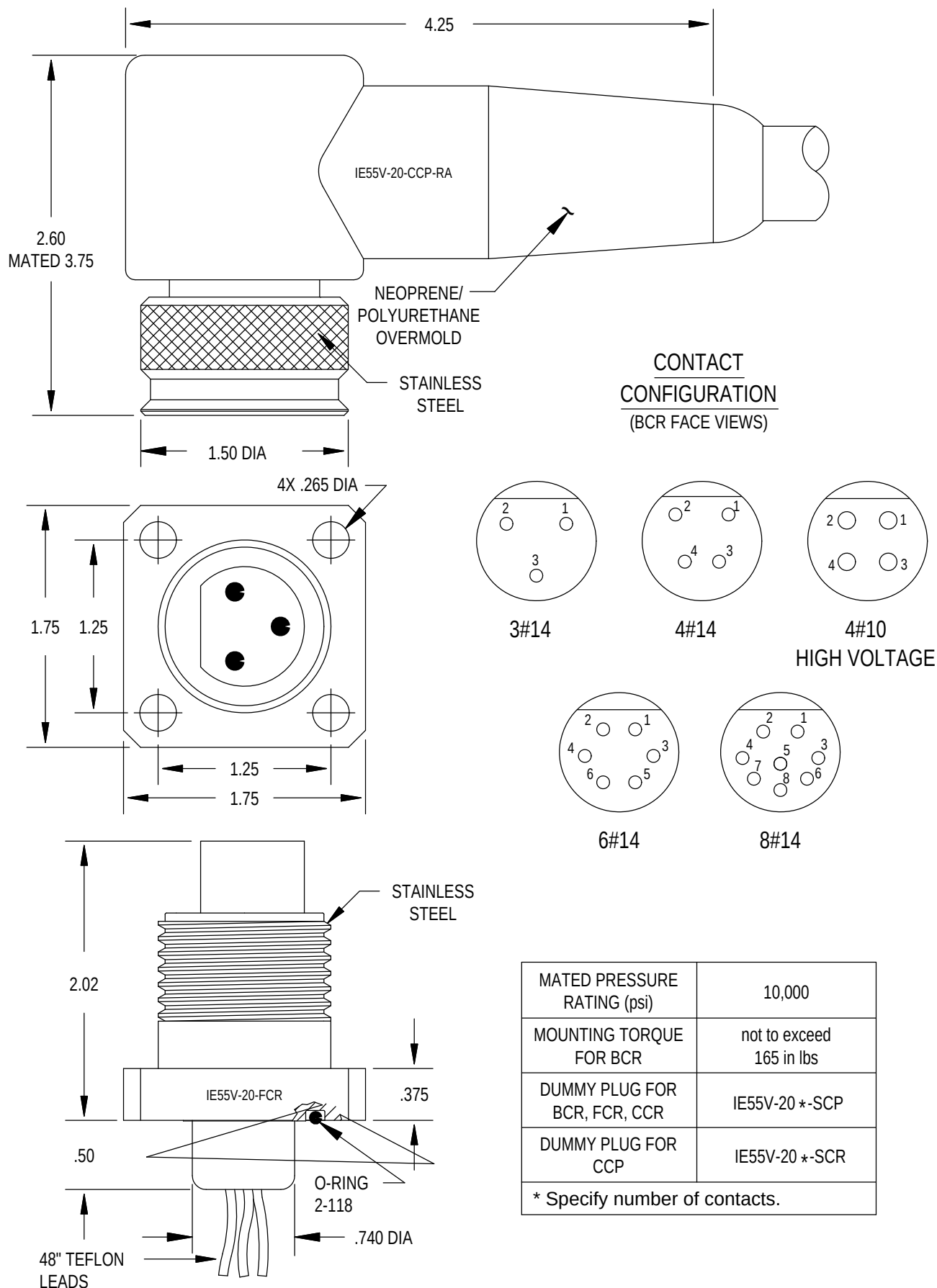
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DESCRIPTION AND MATERIAL	• Body and engaging nut are 316 Stainless Steel, passivated per QQ-P-35 Type VI. • To 10,000 PSI in mated condition. • Bulkhead connector design open face pressure rated to 5,000 PSI. • Contacts gold plated per MIL-G-45204. • Engaging nuts have Acme threads for rugged applications and a quick connection. • Working voltage - 600 VDC (Contact factory for high voltage applications.) • Bulkhead has sockets, cable connector plug has pins.
CABLE	• CCP, CCP-R/A and CCR are molded on standard 24" 16 AWG SO cable. • Other cable options available at customer's request. • BCR/FCR on standard 48" teflon leads, Type E per MIL 16878/4 16 AWG. • Un-Terminated versions of CCP available.
USES	• Heavy Duty applications. • Hazardous environment. • Power Transmission. • Signal Telemetry. • ROV applications.
GUIDELINES	• All mounting and sealing surfaces require a 32 finish. • Lubricate mating surfaces with 3M Silicone Lubricant or equivalent, DO NOT grease! Connectors must be lubricated on a regular basis. • Lubricate o-rings with Dow Corning #111 Valve Lubricant or equivalent. • Use Dust Caps and keep connectors clean to prevent damage in storage and service. • Keep o-ring grooves clean and avoid cuts, nicks and tears on rubber surfaces. • Elastomers can be seriously degraded if exposed to direct sunlight or high ozone levels for extended periods of time. • Clean plugs and receptacles with soap and fresh water. Rinse out with alcohol, allowing connector to air dry. • Replace o-rings when re-using connectors.



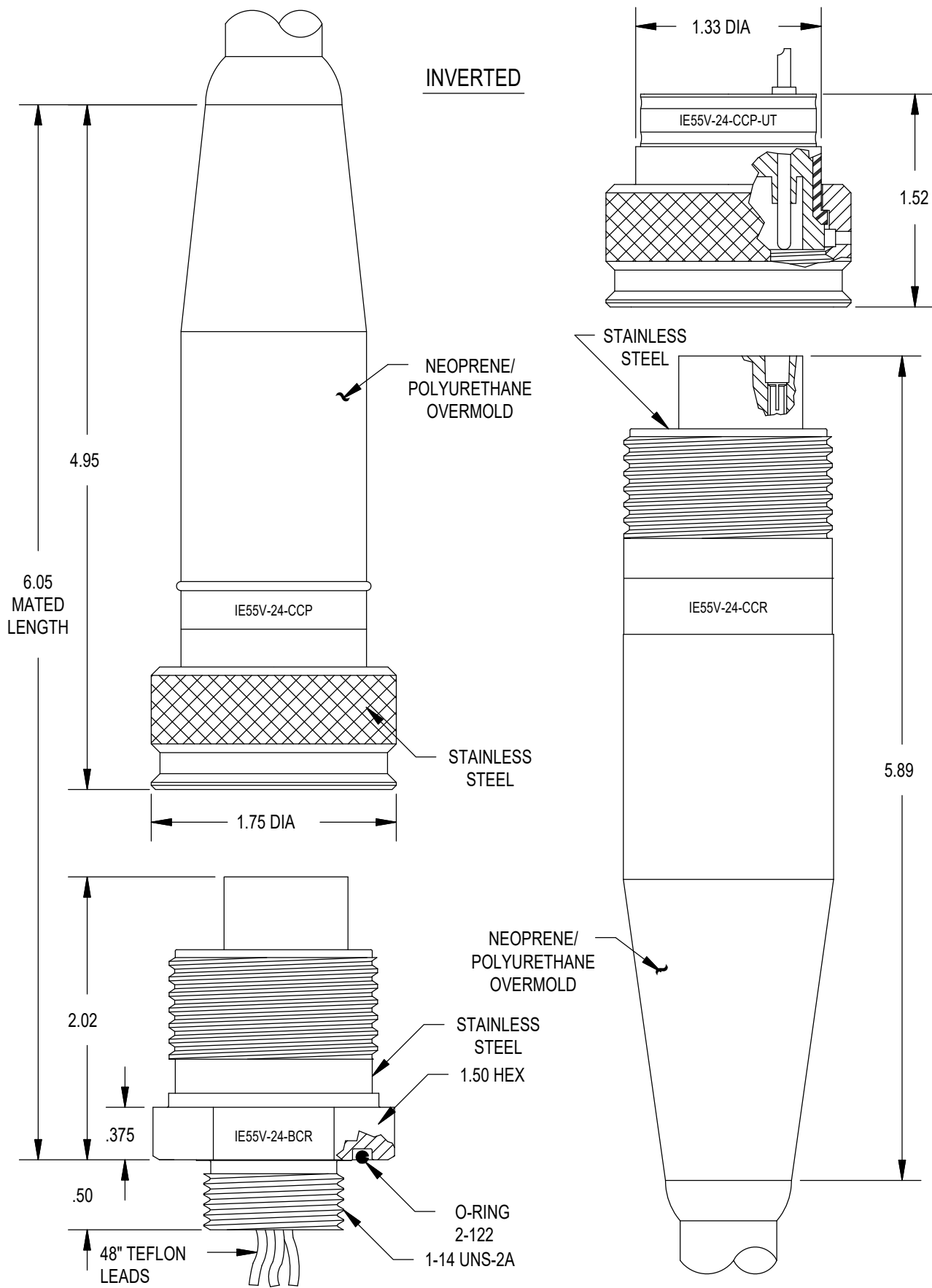
IE55V-20

IE55V INVERTED RUBBER MOLDED
METAL SHELL SERIES



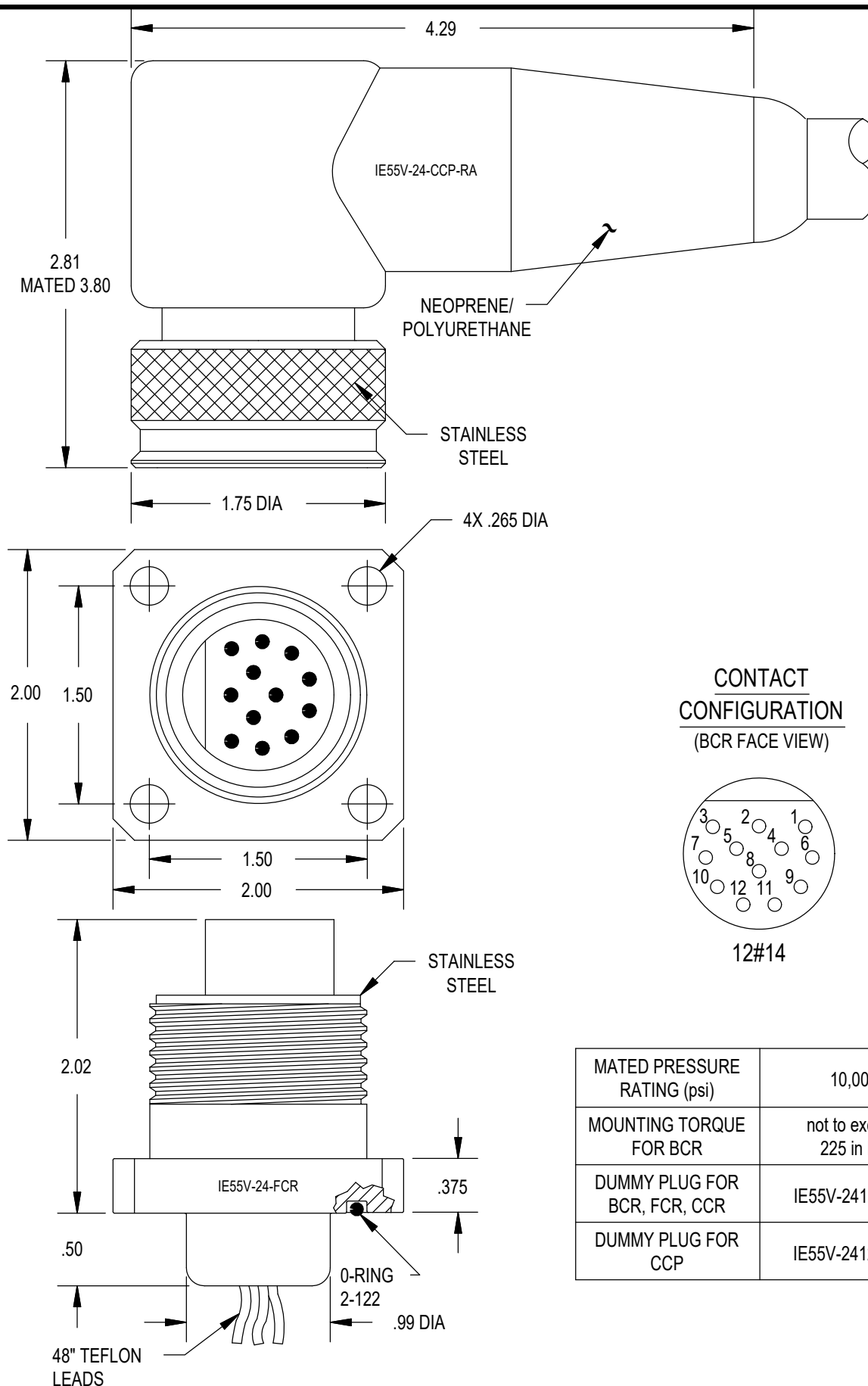
IE55V-24

IE55V INVERTED RUBBER MOLDED
METAL SHELL SERIES

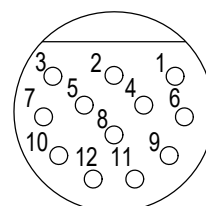


IE55V-24

IE55V INVERTED RUBBER MOLDED METAL SHELL SERIES

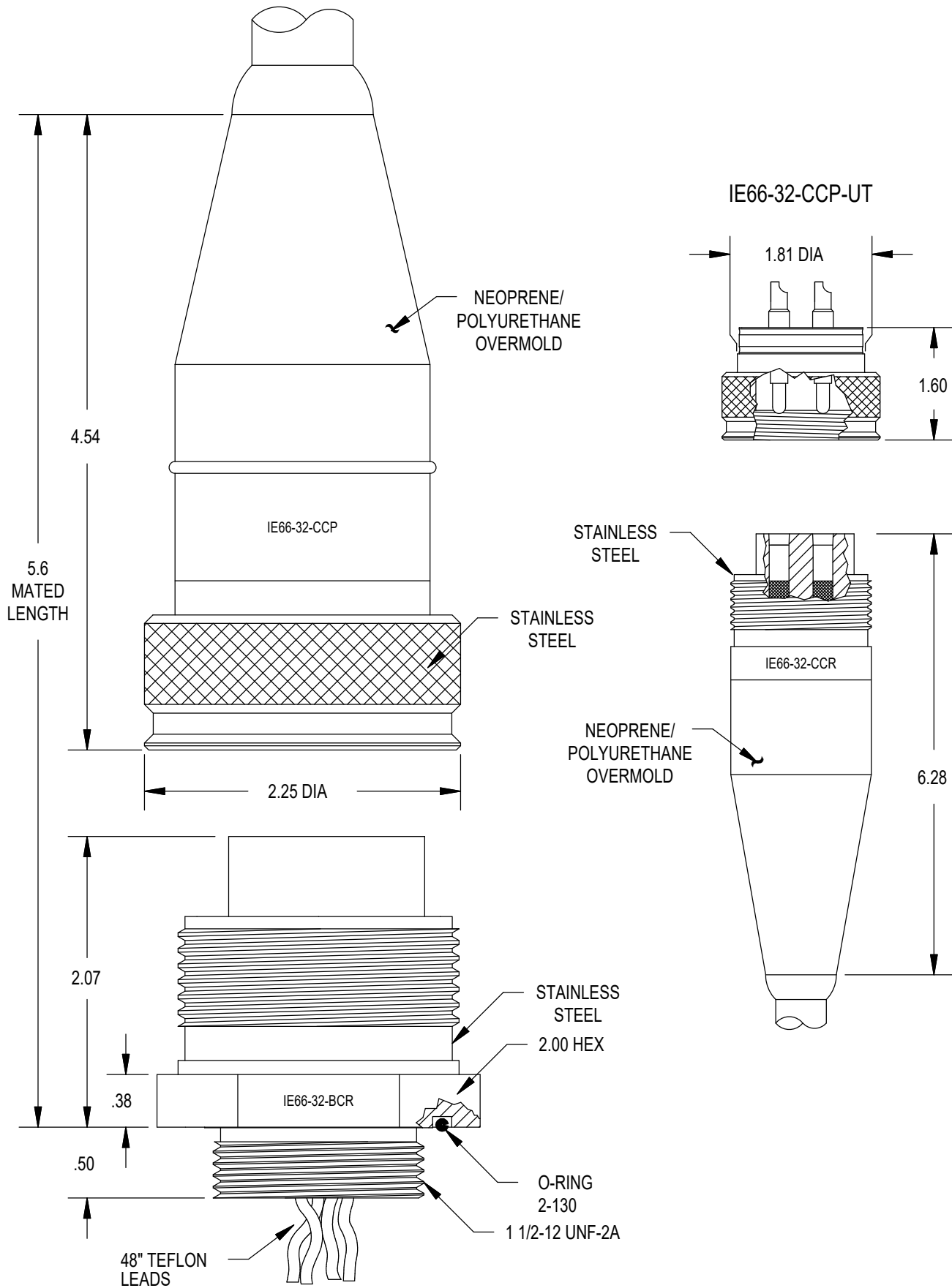


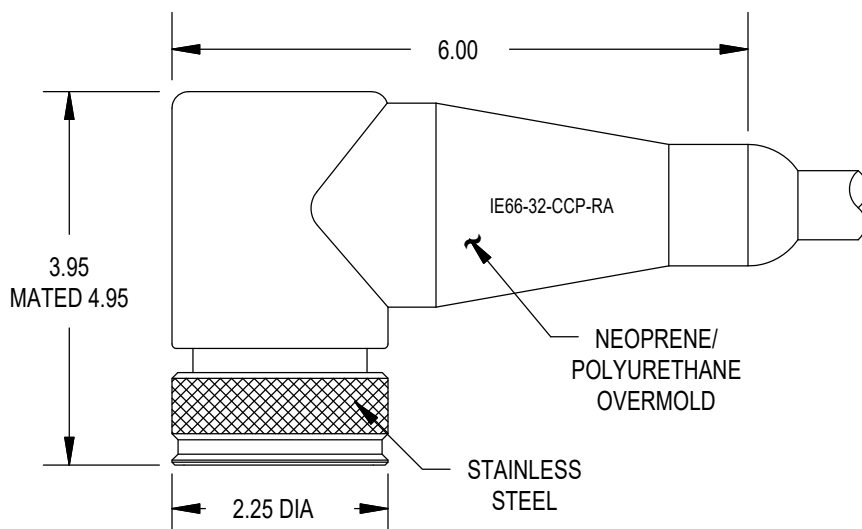
CONTACT CONFIGURATION (BCR FACE VIEW)



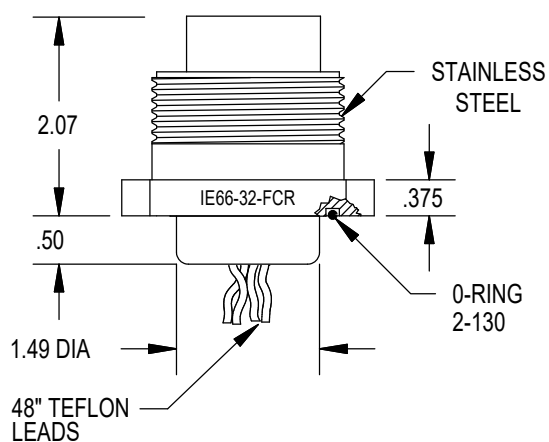
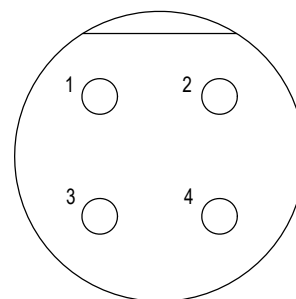
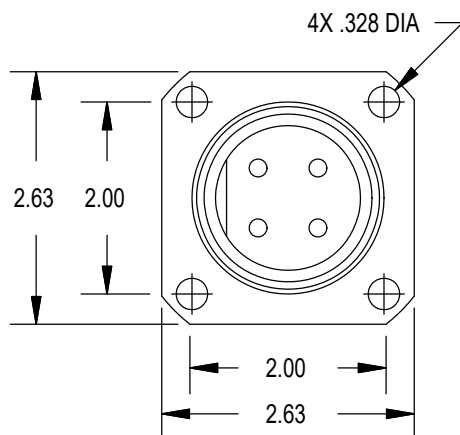
12#14

MATED PRESSURE RATING (psi)	10,000
MOUNTING TORQUE FOR BCR	not to exceed 225 in lbs
DUMMY PLUG FOR BCR, FCR, CCP	IE55V-2412-SCP
DUMMY PLUG FOR CCP	IE55V-2412-SCR





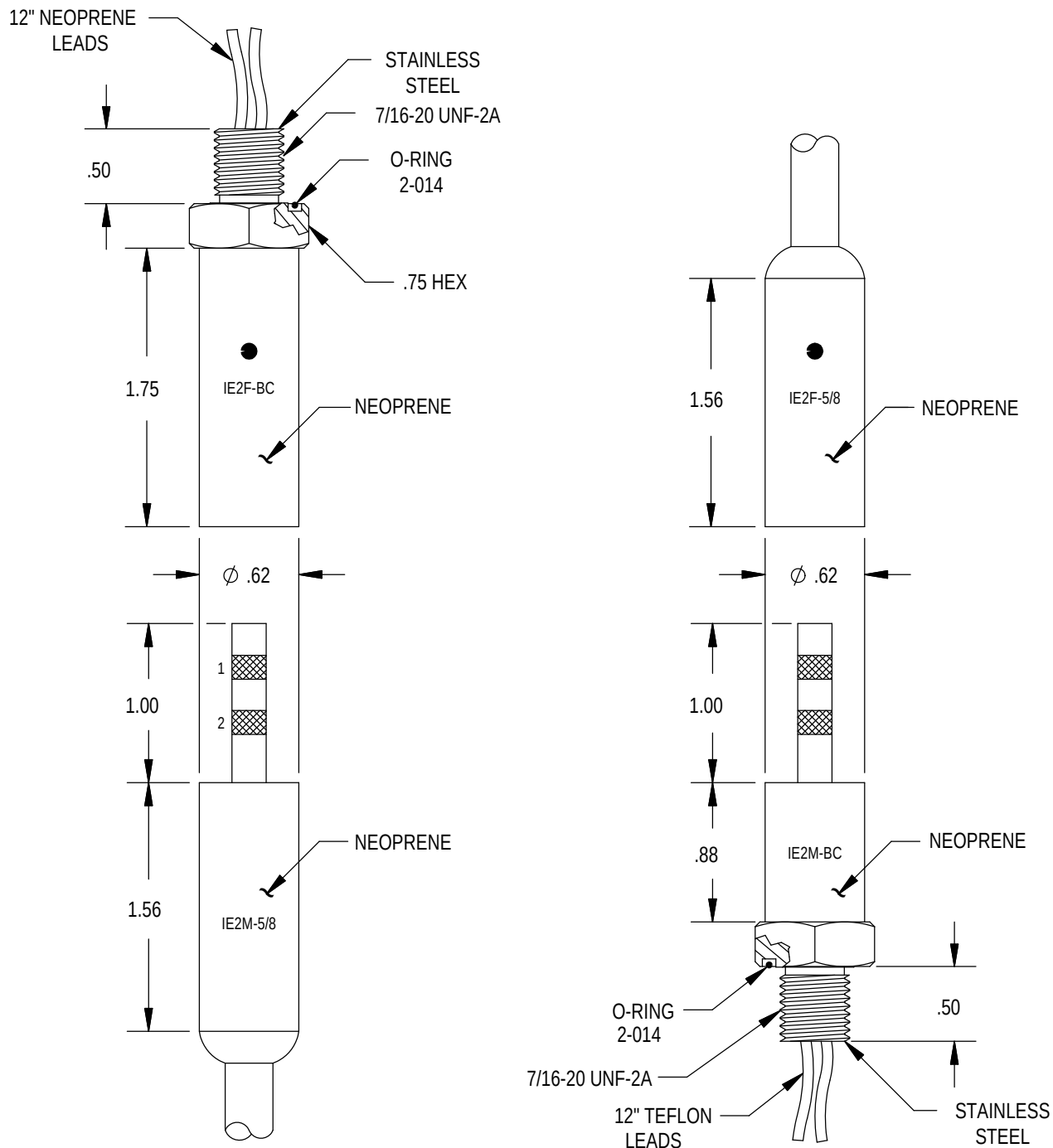
**CONTACT
CONFIGURATION**
(BCR FACE VIEWS)



MATED PRESSURE RATING (psi)	10,000
MOUNTING TORQUE FOR BCR	not to exceed 335 in lbs
DUMMY PLUG FOR BCR, FCR, CCR	IE66-3204-SCP
DUMMY PLUG FOR CCP	IE66-3204-SCR

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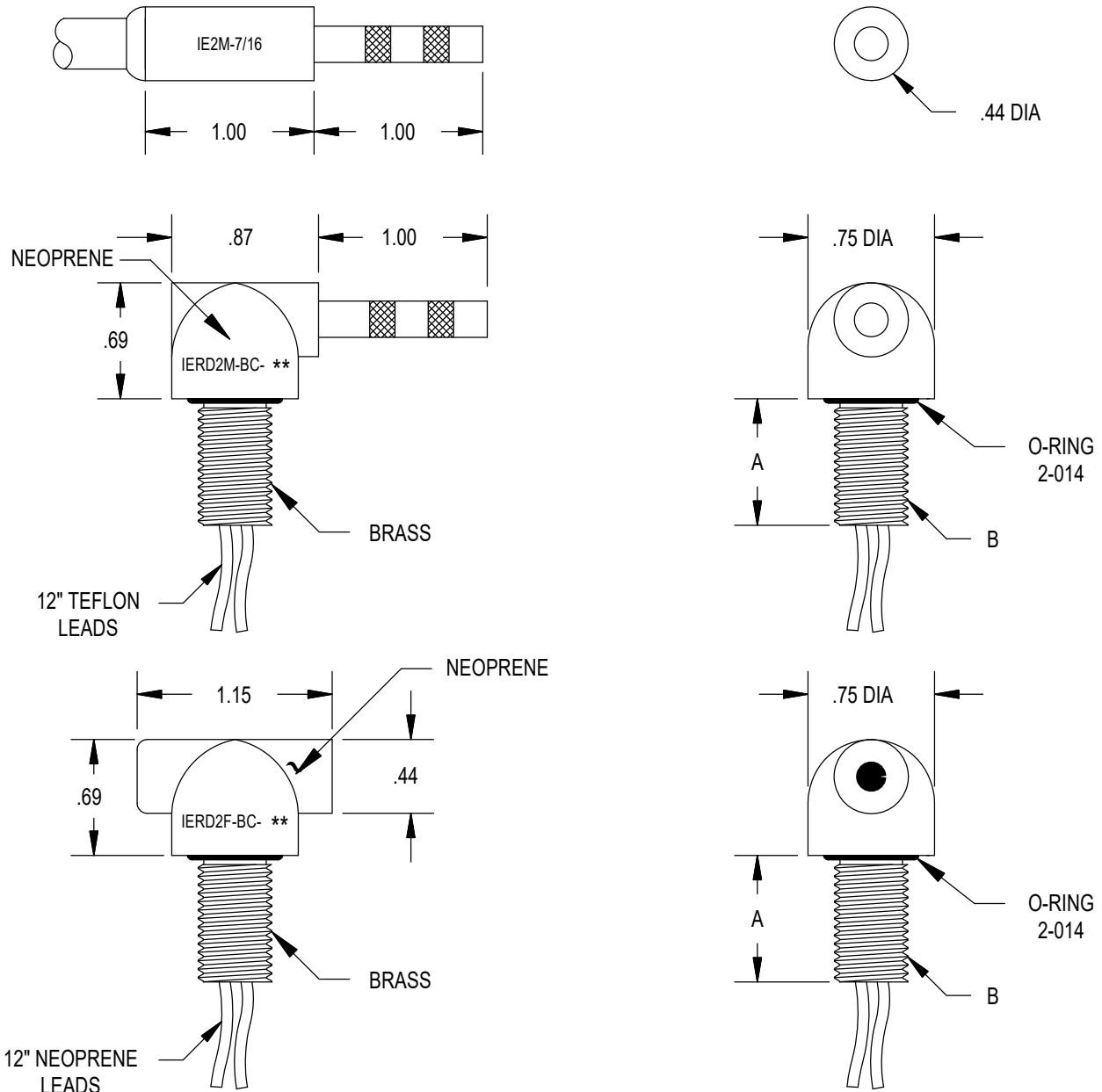
DESCRIPTION AND MATERIAL	• Molded neoprene with improved sealing ability. • Two to eight contacts. • Up to 300 VDC, 7 AMPS. • Rated to 10,000 psi, contact factory for higher rating. • Bulkhead connector design open face pressure rated to 5000 PSI. • O-rings molded in female connector.
CABLE	• Connectors in this series are molded on a 24" length of 18 AWG SO cable (2 contact on SJO) unless otherwise specified. • Bulkhead connectors have 12" teflon leads, Type E per MIL 16878/4 18 AWG, or 12" Belden 34918 leads (Neoprene jacket).
USES	• Mates with other manufacturers connectors of same design. • Permits underwater plugging and unplugging with power off. • Light to heavy duty applications. • Hazardous environments.
GUIDELINES	• All mounting surfaces require a 32 finish. • Lubricate male pins liberally with Dow Corning #111 Valve Lubricant or equivalent and apply a small amount in each hole of female socket. Connectors must be lubricated on a regular basis. • Lubricate o-rings with Dow Corning #111 Valve Lubricant or equivalent. • Replace o-rings when re-using connectors. • Align index pin prior to mating. • Avoid nicks and cuts around contacts as these are the sealing surfaces. • Elastomers can be seriously degraded if exposed to direct sunlight or high ozone levels for extended periods of time. • Do not over tighten bulkhead nuts. • Do not pull on cable to disconnect. • Avoid sharp bends at cable entry to connector.



MOUNTING TORQUE FOR BC	not to exceed 100 in lbs
MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR IE2M-5/8, IE2M-BC	IE2F-5/8-DO *
DUMMY PLUG FOR IE2F-BC, IE2F-5/8	IE2M-5/8-DO *
* Dummy plugs found on Page 75 62.	
* Shorted dummies (DS) available upon request.	

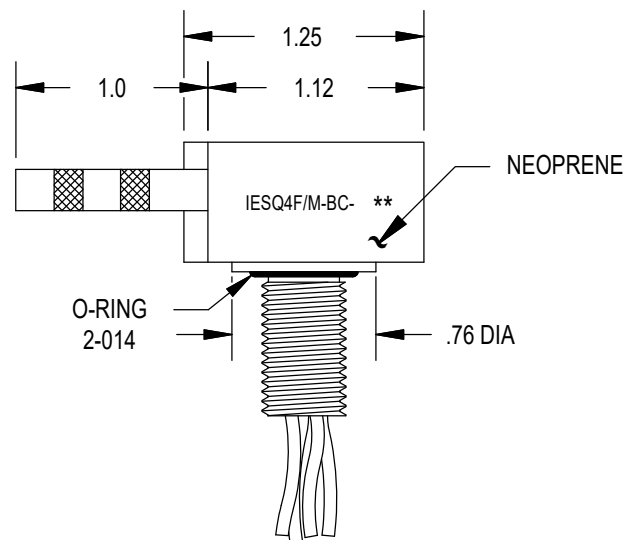
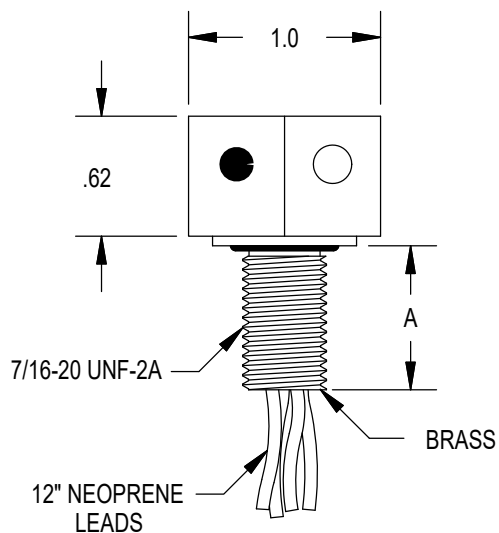
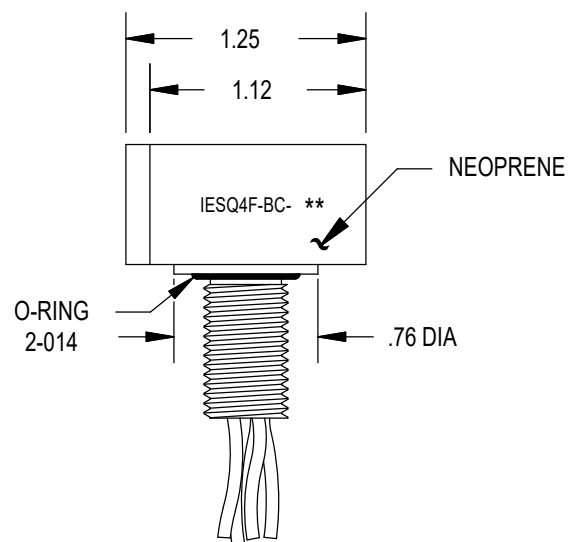
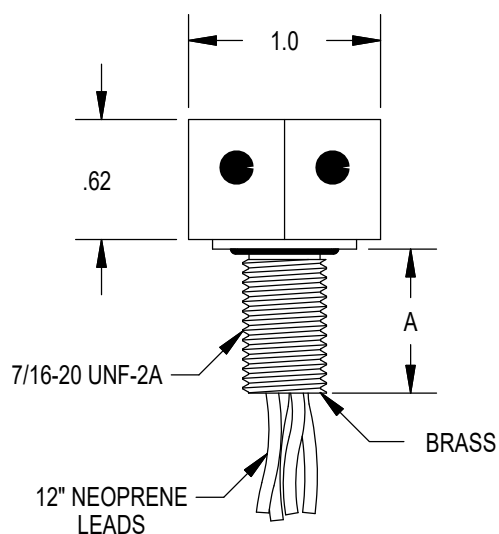
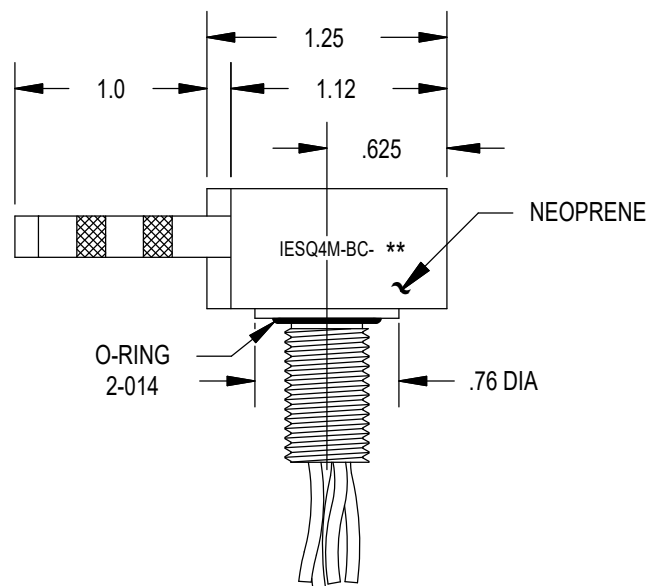
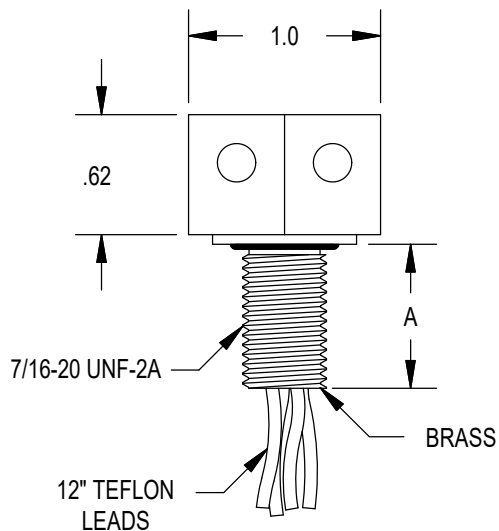
IERD2-BC

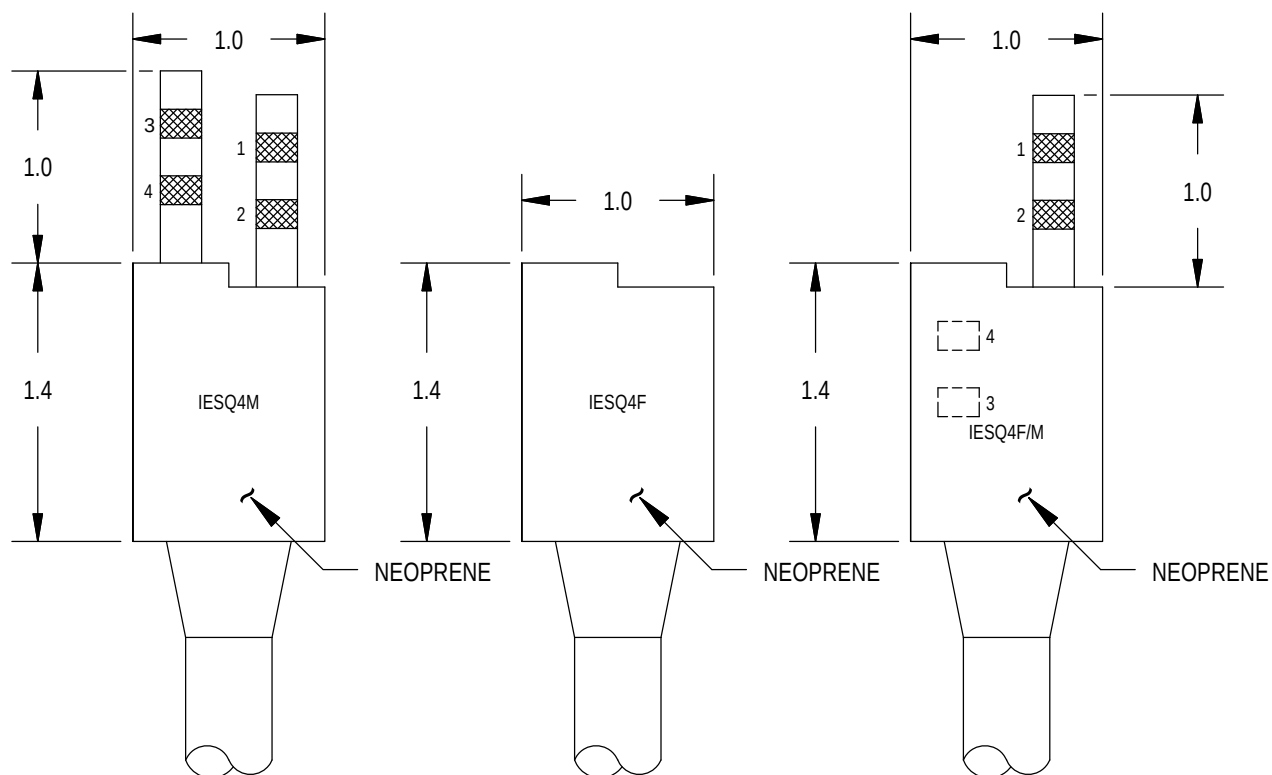
IE UNDERWATER
PLUGGABLE SERIES



MOUNTING TORQUE FOR BC	not to exceed 100 in lbs
MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR IERD2F-BC	IE2M-7/16-DO *
DUMMY PLUG FOR IERD2M-BC	IE2F-5/8 DO *
* Dummy plugs found on Page 75 62. ** Shorted dummies (DS) available upon request. *** See chart for thread specifications. **** Specify M/F	

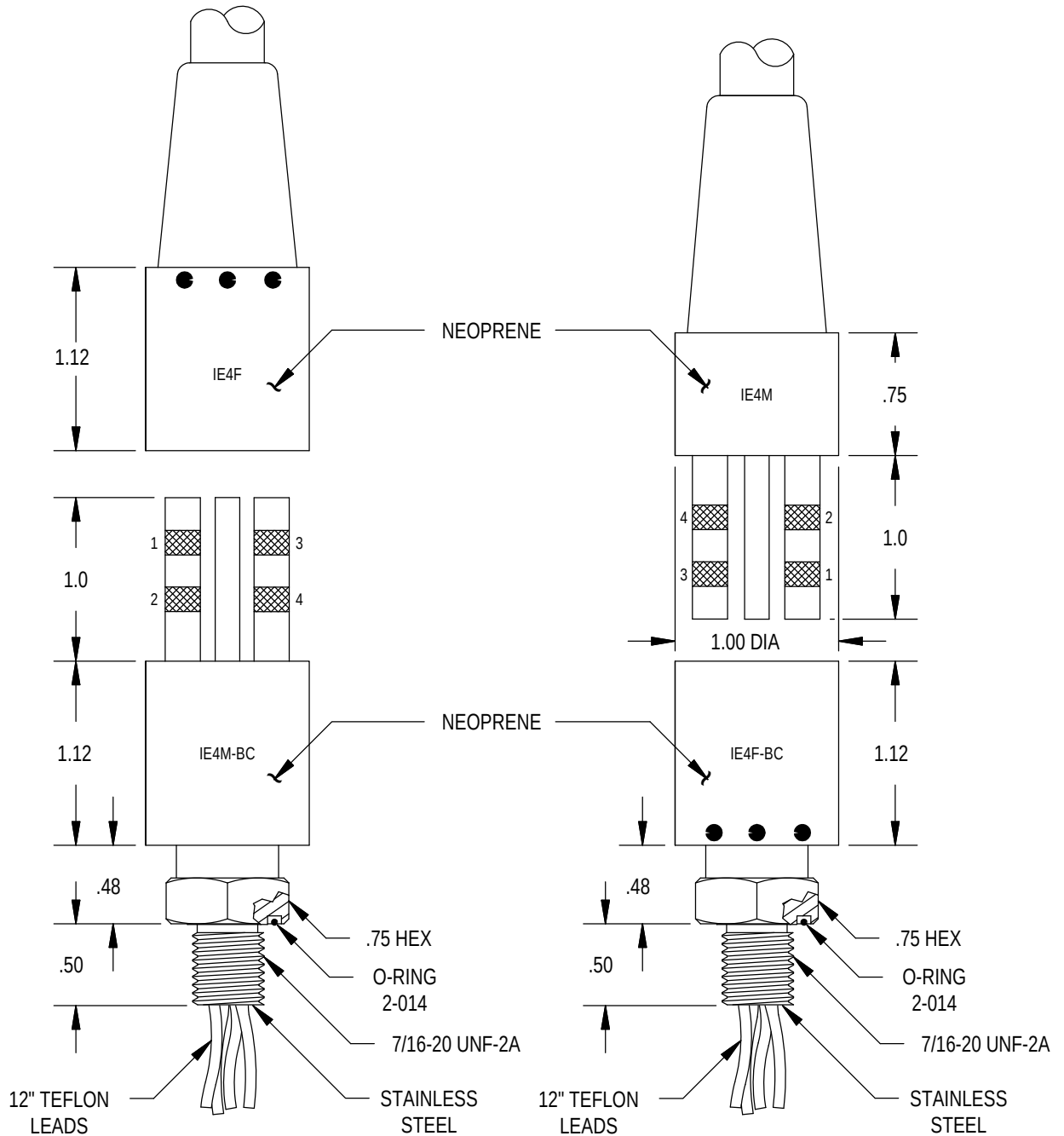
PART NUMBER	B	A
IERD2****-BC-1	3/8-24 UNF-2A	.50
IERD2****-BC-2	3/8-24 UNF-2A	.75
IERD2****-BC-3	3/8-24 UNF-2A	1.00
IERD2****-BC-4	7/16-20 UNF-2A	.50
IERD2****-BC-5	7/16-20 UNF-2A	.75
IERD2****-BC-6	7/16-20 UNF-2A	1.00





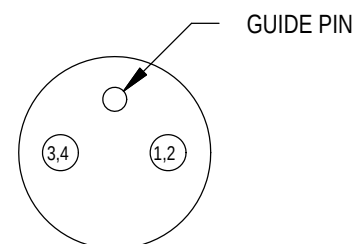
MOUNTING TORQUE FOR BC	not to exceed 100 in lbs
MATED PRESSURE RATING (psi)	5,000
DUMMY PLUG FOR IESQ4M-BC, IESQ4M	IESQ4F-DO *
DUMMY PLUG FOR IESQ4F-BC, IE2F	IESQ4M-DO *
DUMMY PLUG FOR IESQ4MF-BC, IESQ4F/M	IESQ4F/M-DO *
* Dummy plugs found on Page 75 62. ** Shorted dummies available upon request. *** See chart for thread specifications. **** Specify M, F, F/M	

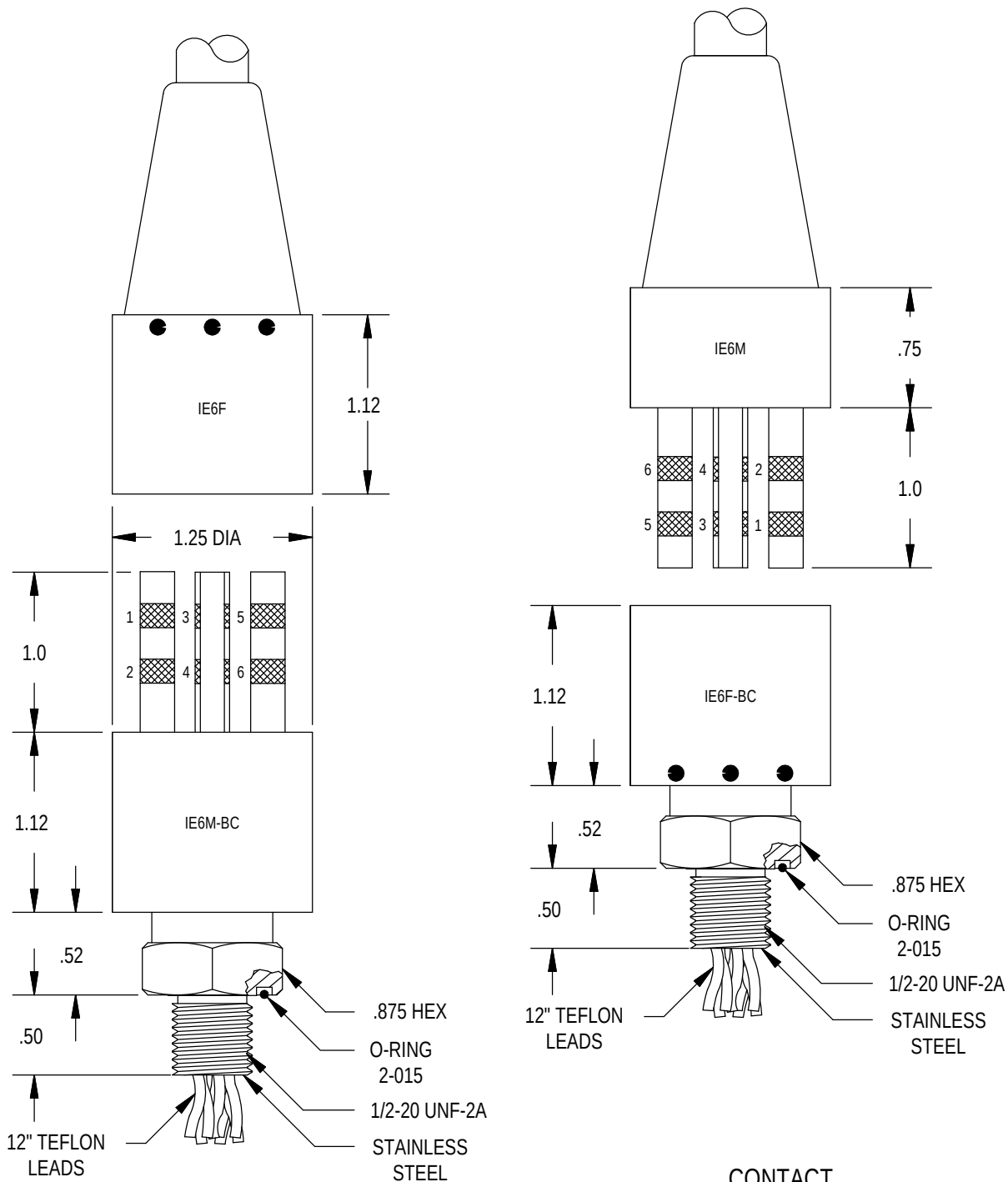
BULKHEAD	
PART NUMBER	A
IESQ4****-BC-1	.50
IESQ4****-BC-2	.75
IESQ4****-BC-3	1.00



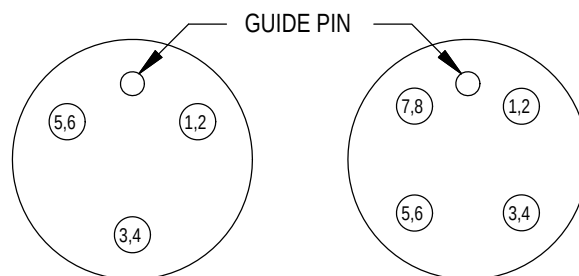
MOUNTING TORQUE FOR BC	not to exceed 100 in lbs
MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR IE4M-BC, IE4M	IE4F-DO *
DUMMY PLUG FOR IE4F-BC, IE4F	IE4M-DO *
* Dummied found on Page 75 63.	
** Shorted dummies (DS) available upon request.	

CONTACT CONFIGURATION (IE4M FACE VIEW)

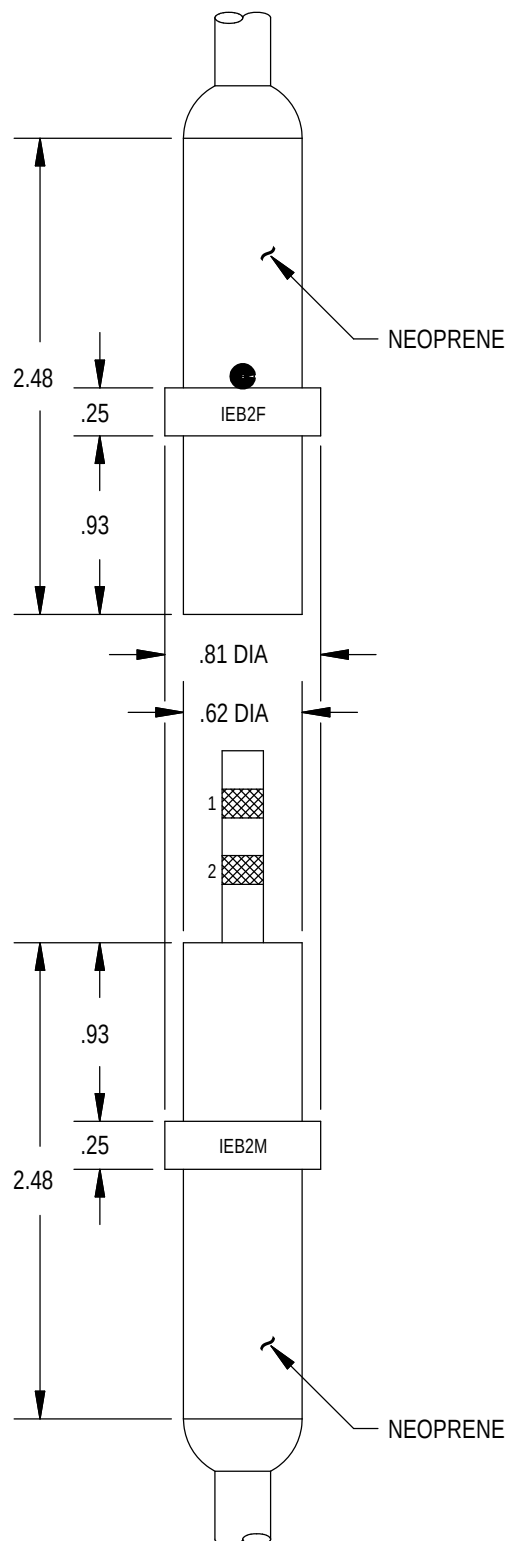
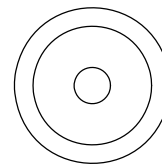




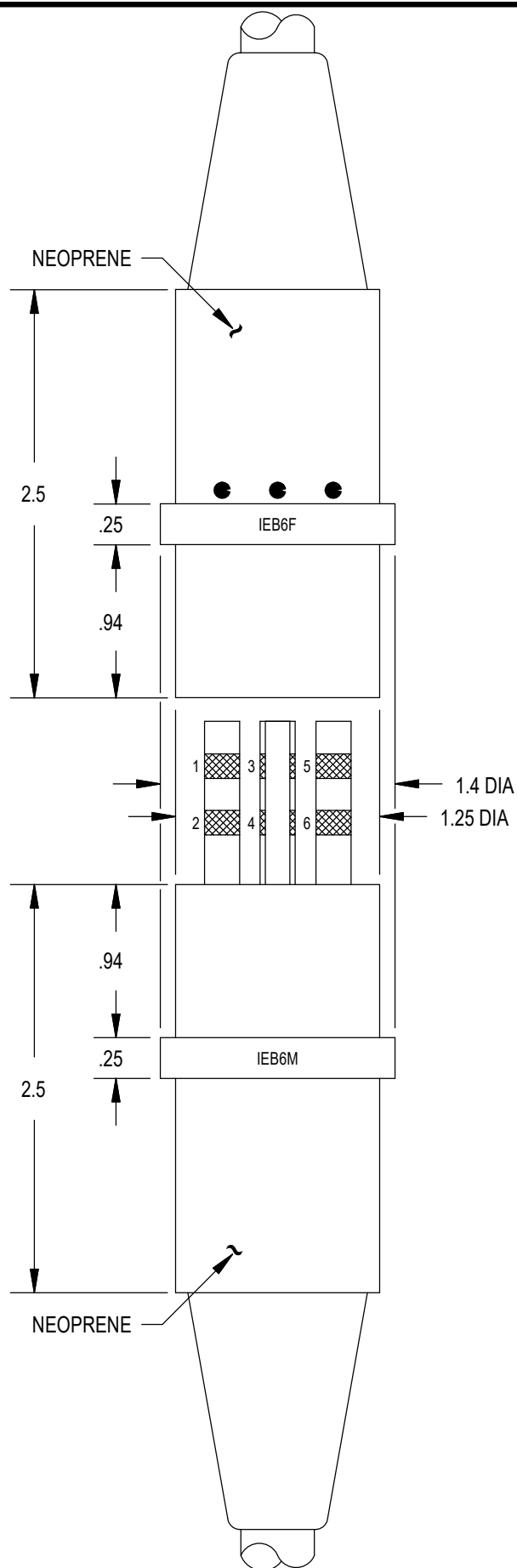
CONTACT CONFIGURATIONS (IE6/8M FACE VIEWS)



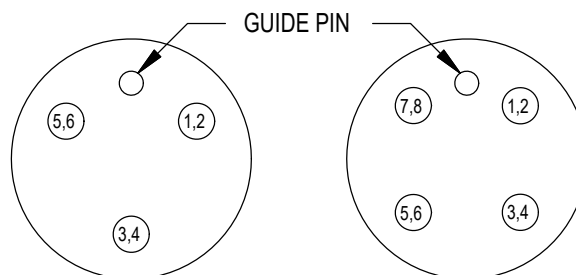
MOUNTING TORQUE FOR BC	not to exceed 100 in lbs
MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR IE6/8M-BC, IE6/8M	IE6/8F-DO *
DUMMY PLUG FOR IE6/8F-BC, IE6/8F	IE6/8M-DO *
* Dummy plugs found on Page 75 63. ** Shorted dummies (DS) available upon request.	

IEB2M FACE VIEW

MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR IEB2M	IEB2F-DO *
DUMMY PLUG FOR IEB2F	IEB2M-DO *
* Dummy plugs found on Page 75 62. ** Shorted dummies (DS) available upon request.	



**CONTACT
CONFIGURATIONS**
(IEB6/8M FACE VIEWS)



MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR IEB6/8M	IEB6/8F-DO *
DUMMY PLUG FOR IEB6/8F	IEB6/8M-DO *
* Dummy plugs found on Page 75 63. ** Shorted dummies (DS) available upon request. *** Locking Sleeves found on Page 75 61.	

DELTRIN LOCKING SLEEVES

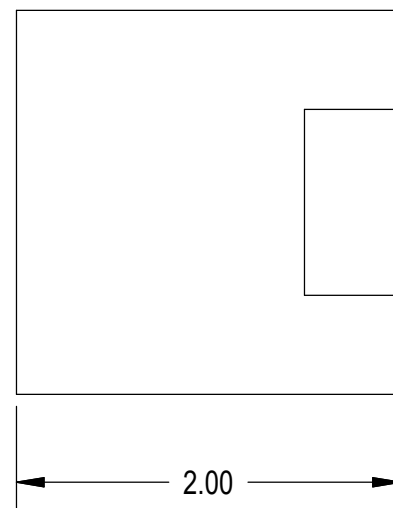
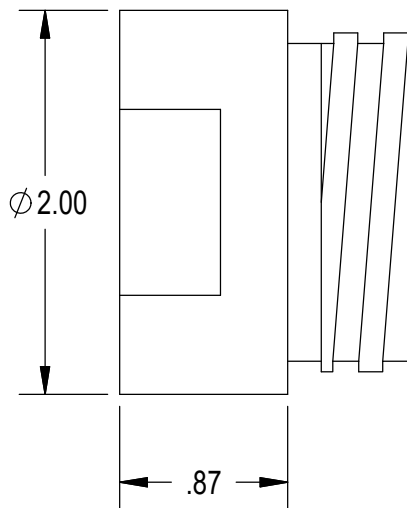
MALE

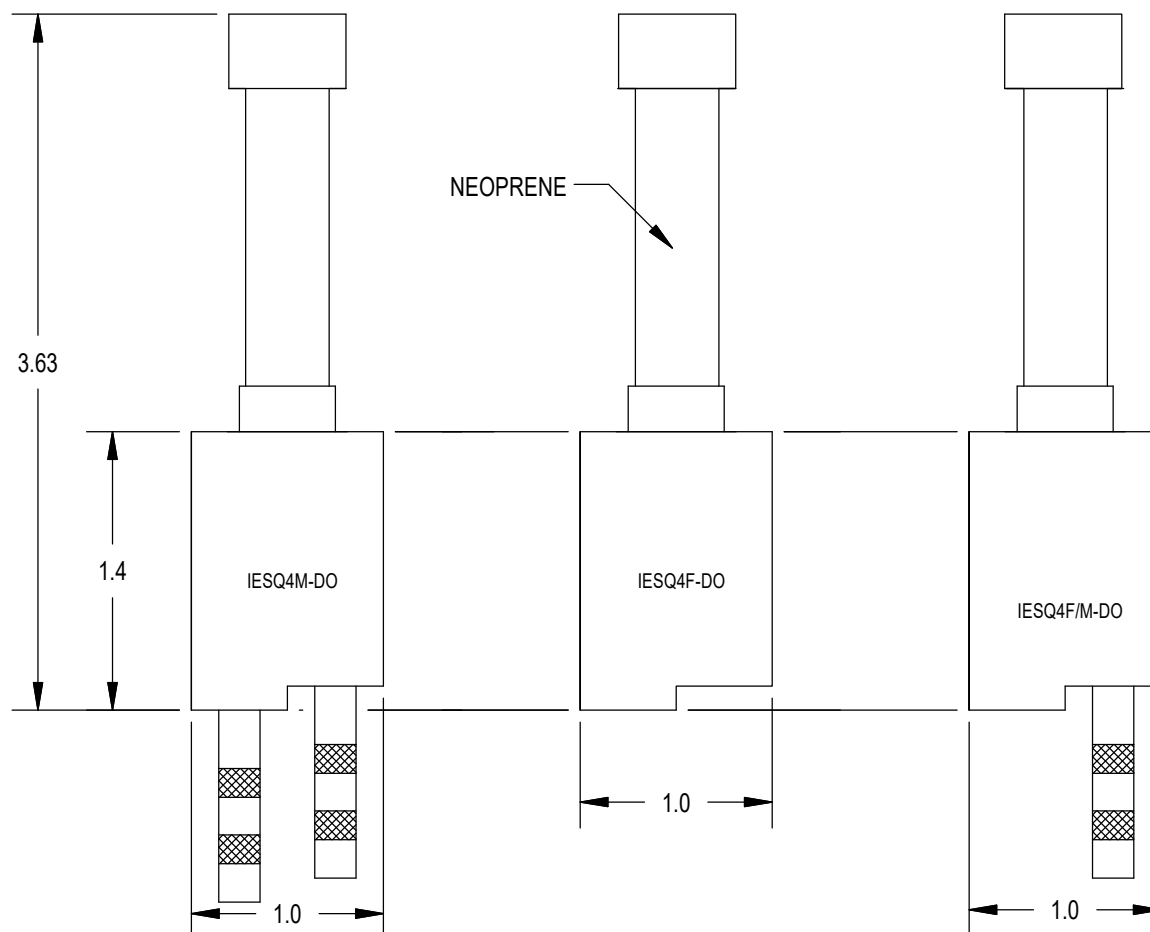
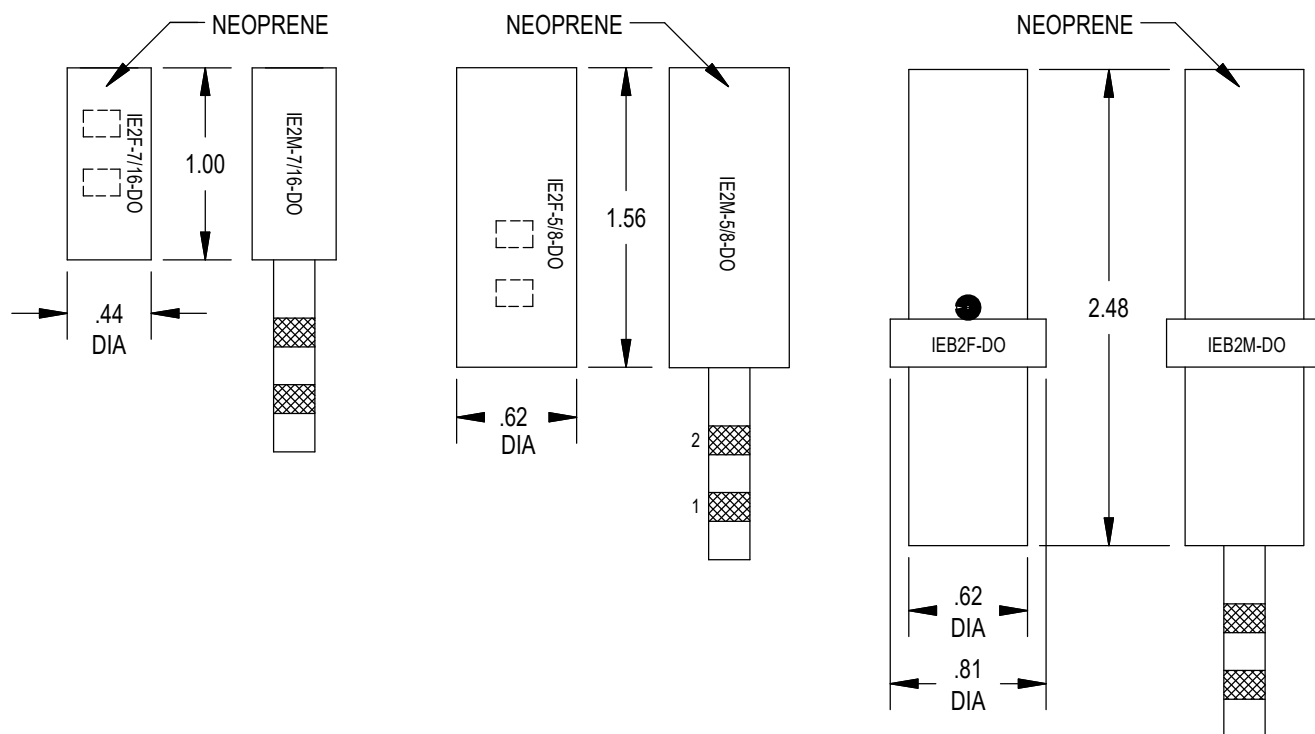
6/8 CONTACT

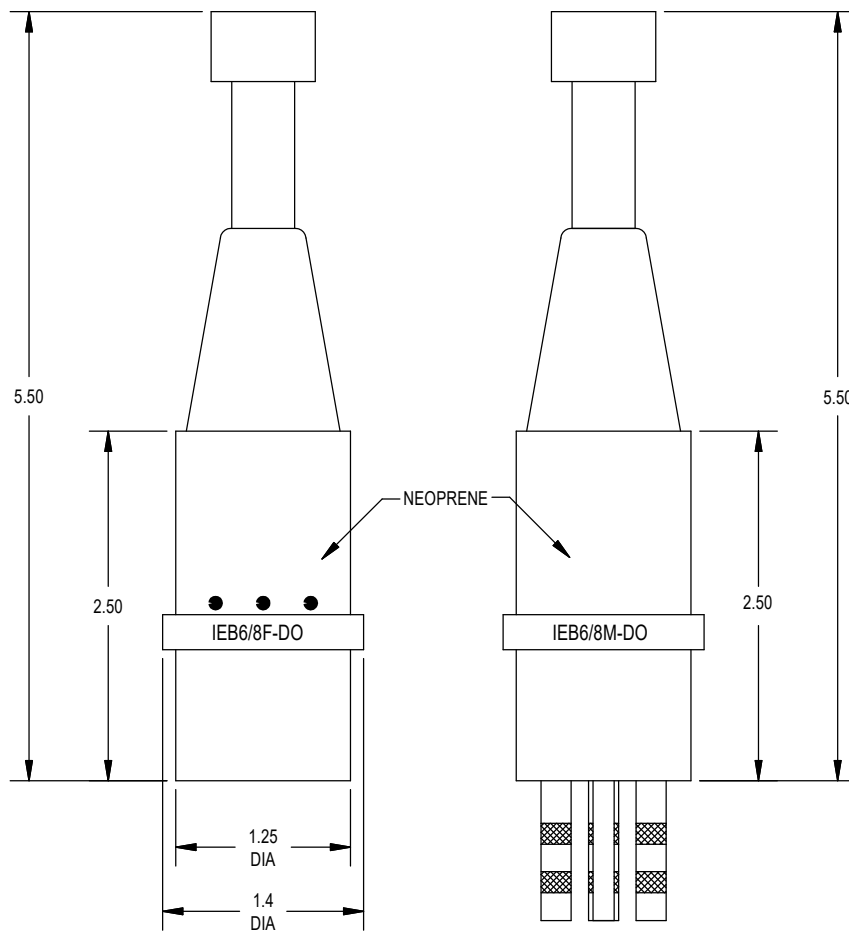
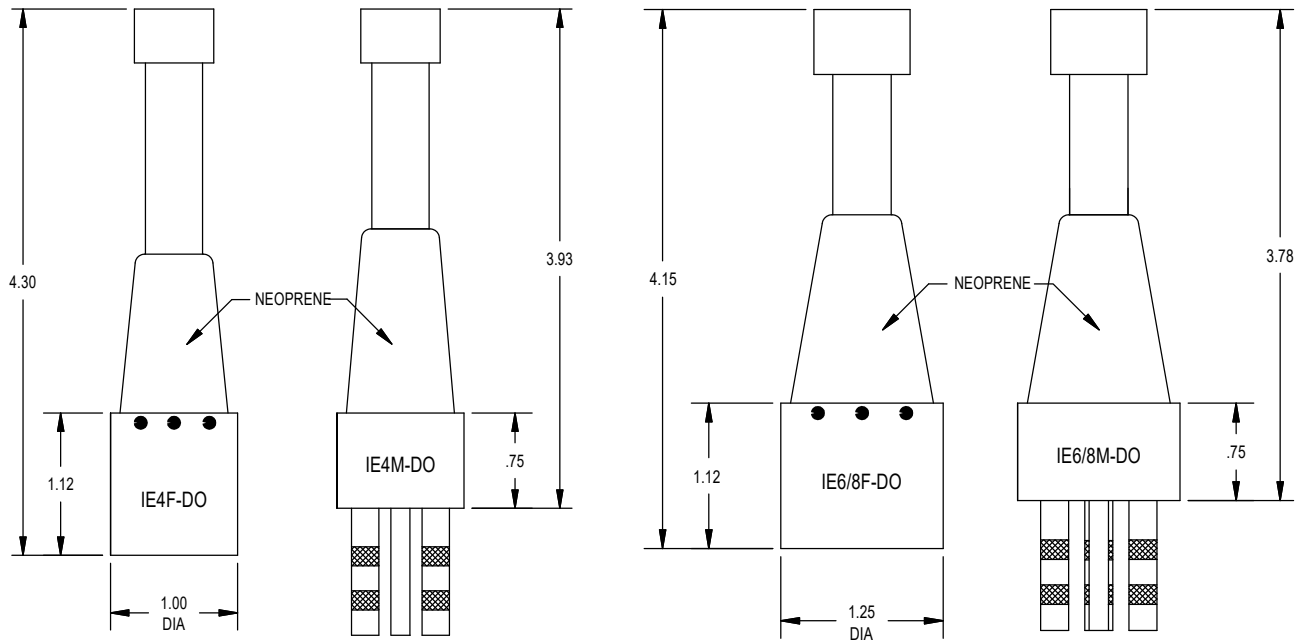
FEMALE

IEB-6/8-MLS

IEB-6/8-FLS



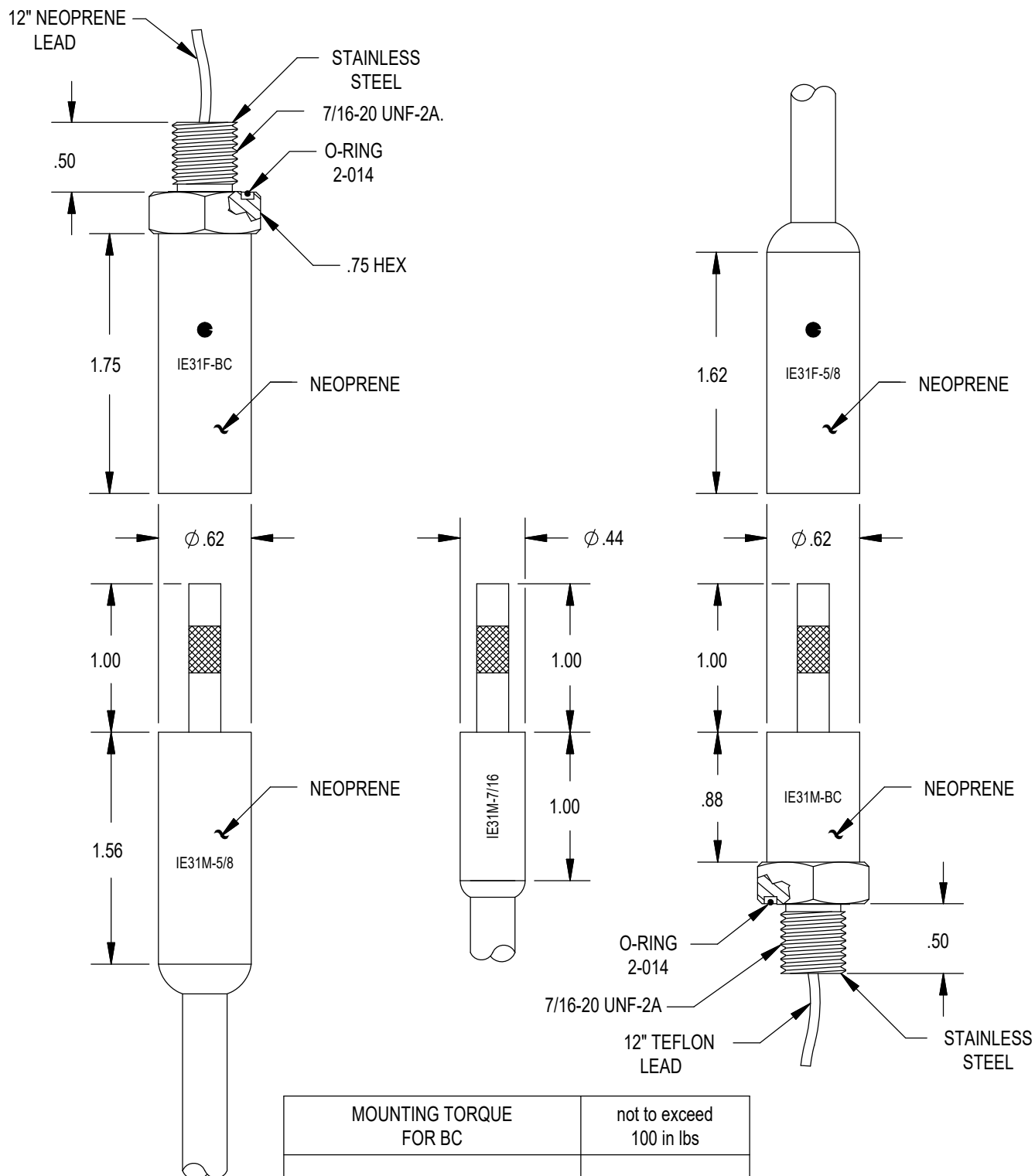




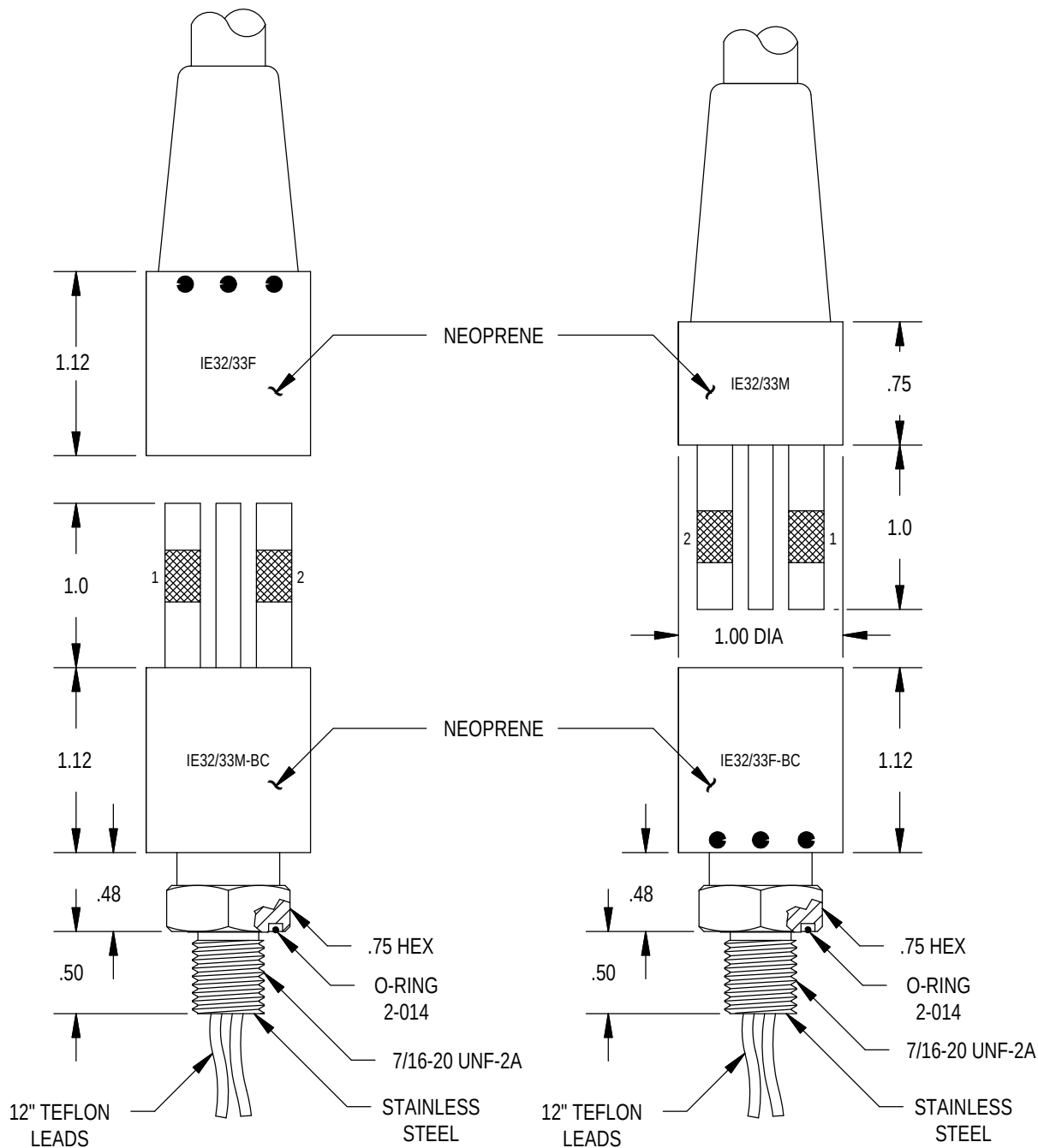
DESCRIPTION AND MATERIAL	• Molded neoprene with improved sealing ability. • One to four contacts. • Up to 600 VDC, 10 AMPS. • Rated to 10,000 psi, contact factory for higher rating. • Bulkhead connector design open face pressure rated to 5000 PSI. • O-rings molded in female connector.
CABLE	• Connectors in this series are molded on a 24" length of 16 AWG SO cable unless otherwise specified. • Bulkhead connectors have 12" teflon leads, Type E per MIL 16878/4 16 AWG, or 12" Belden 34416 leads (Neoprene jacket).
USES	• Mates with other manufacturers connectors of same design. • Permits underwater plugging and unplugging with power off. • Light to heavy duty applications. • Hazardous environments.
GUIDELINES	• All mounting surfaces require a 32 finish. • Lubricate male pins liberally with Dow Corning #111 Valve Lubricant or equivalent and apply a small amount in each hole of female socket. Connectors must be lubricated on a regular basis. • Lubricate o-rings with Dow Corning #111 Valve Lubricant or equivalent. • Replace o-rings when re-using connectors. • Align index pin prior to mating. • Avoid nicks and cuts around contacts as these are the sealing surfaces. • Elastomers can be seriously degraded if exposed to direct sunlight or high ozone levels for extended periods of time. • Do not over tighten bulkhead nuts. • Do not pull on cable to disconnect. • Avoid sharp bends at cable entry to connector.

IE31-BC

IE UNDERWATER
PLUGGABLE SERIES 3

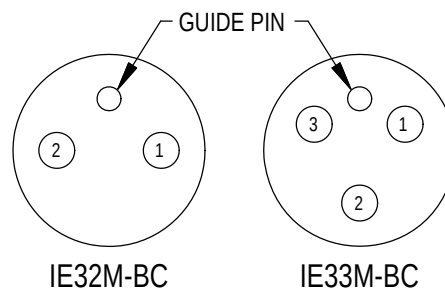


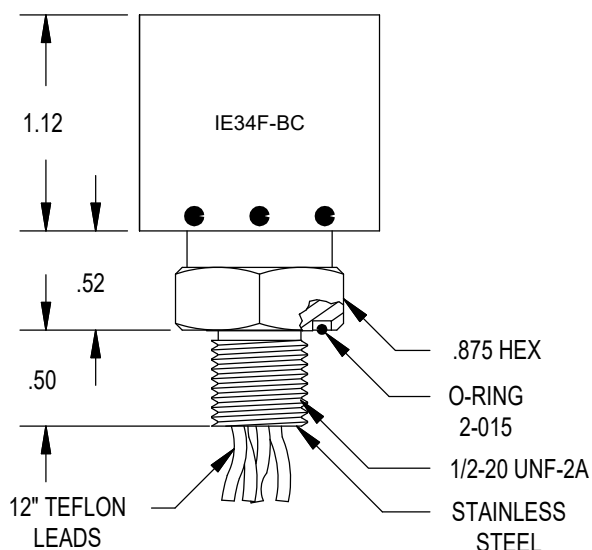
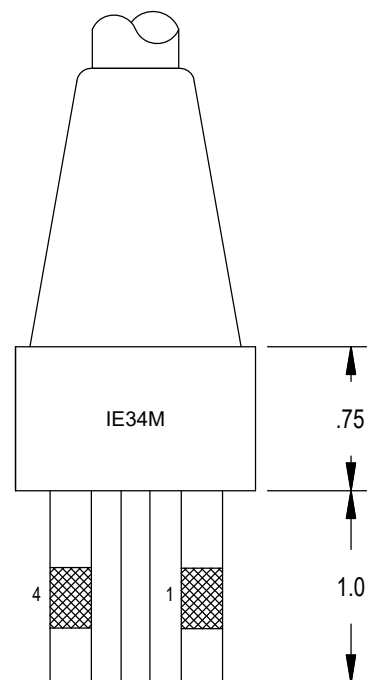
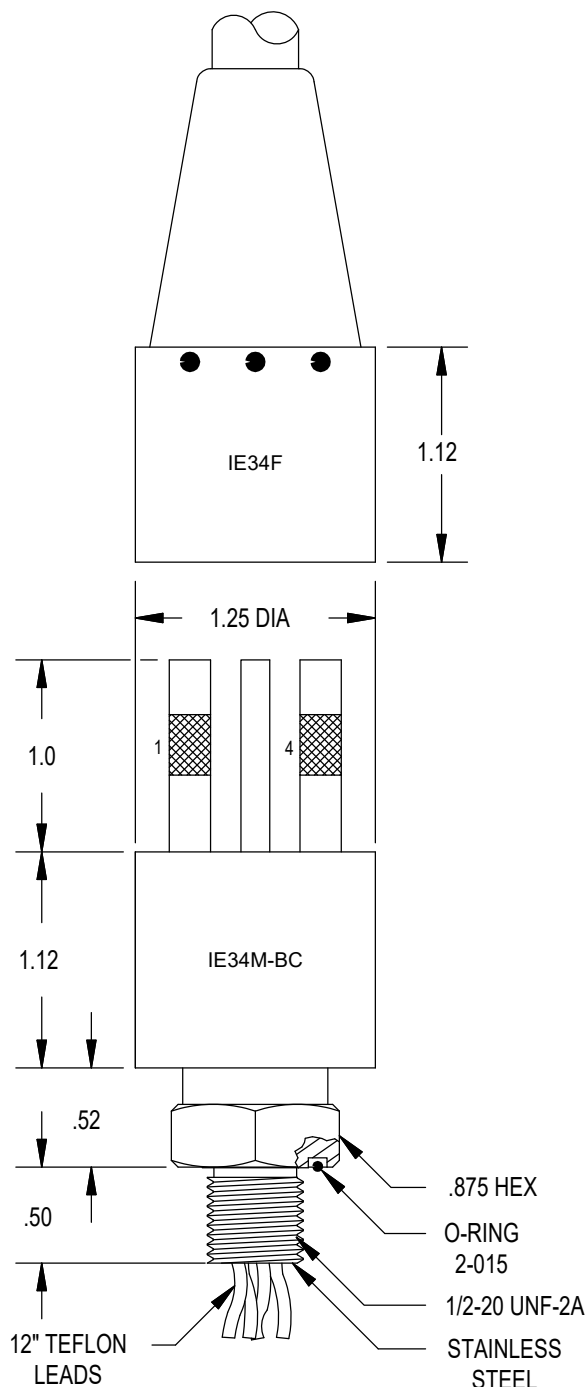
MOUNTING TORQUE FOR BC	not to exceed 100 in lbs
MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR IE31M-5/8, IE31M-BC	IE31F-5/8-DO *
DUMMY PLUG FOR IE31F-BC, IE31F-5/8	IE31M-5/8-DO *
* Dummy plugs found on Page 75 110	
** Shorted dummies (DS) available upon request	



MOUNTING TORQUE FOR BC	not to exceed 100 in lbs
MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR IE32/33M-BC, IE32/33M	IE32/33F-DO *
DUMMY PLUG FOR IE32/33F-BC, IE32/33F	IE32/33M-DO *
* Dummy plugs found on Page 75 110. ** Shorted dummies (DS) available upon request	

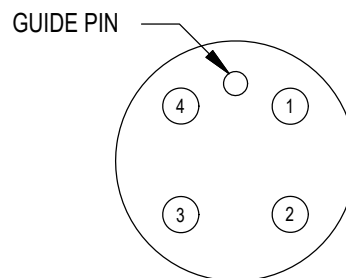
CONTACT CONFIGURATION (BC FACE VIEWS)

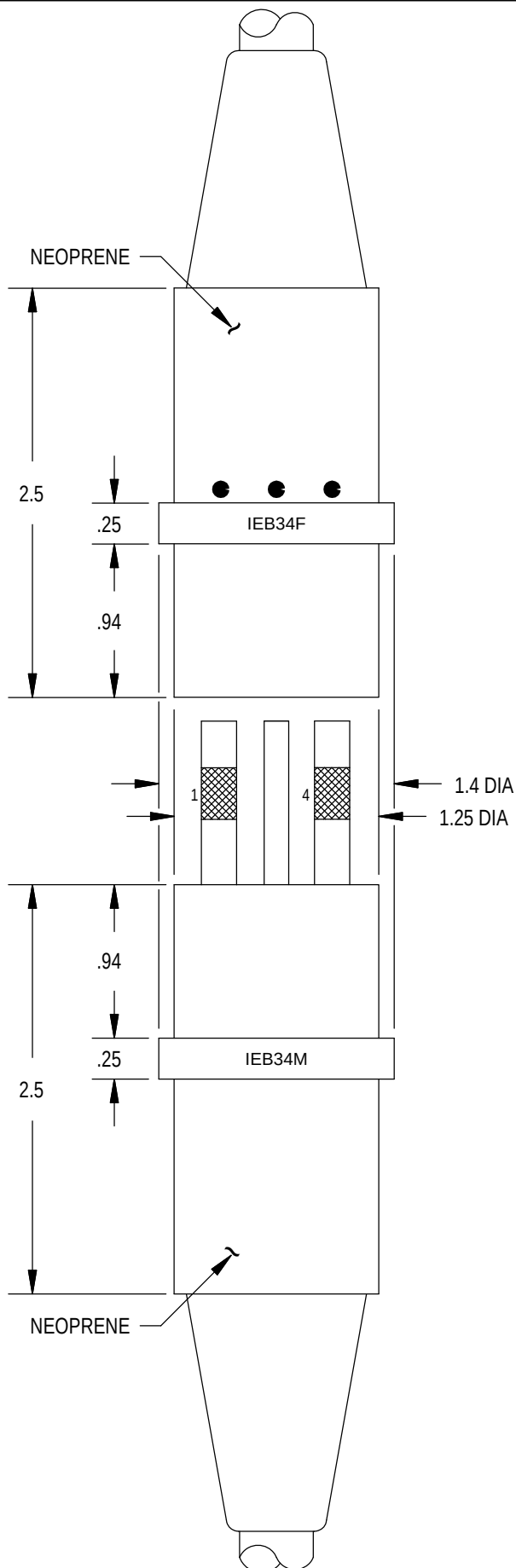




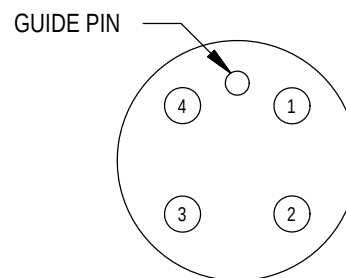
MOUNTING TORQUE FOR BC	not to exceed 100 in lbs
MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR IE34M-BC, IE34M	IE34F-DO *
DUMMY PLUG FOR IE34F-BC, IE34F	IE34M-DO *
* Dummy plugs found on Page 75 111. ** Shorted dummies (DS) available upon request.	

CONTACT CONFIGURATIONS (IE34M FACE VIEW)

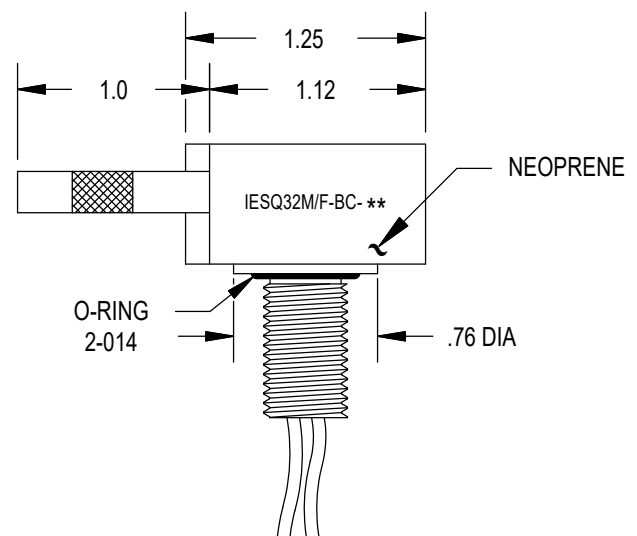
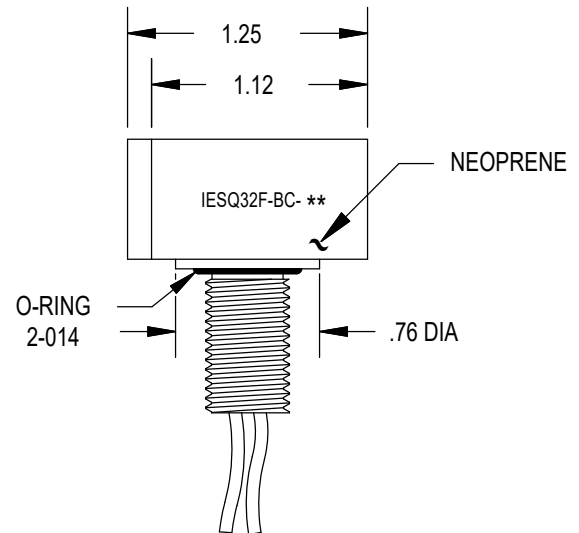
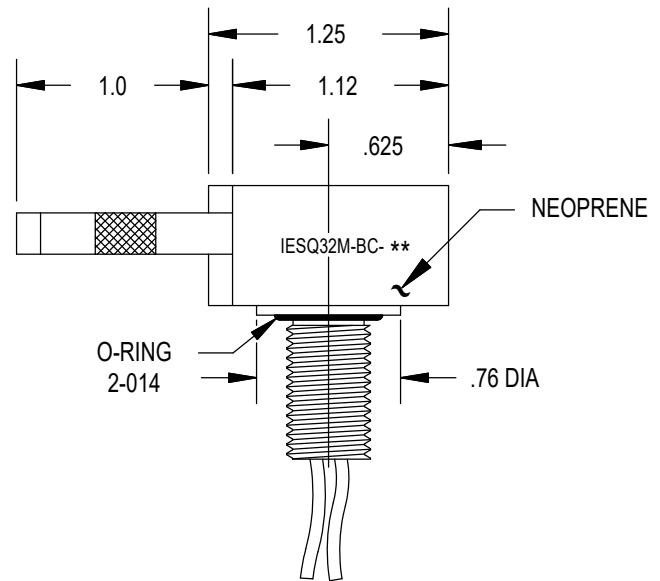
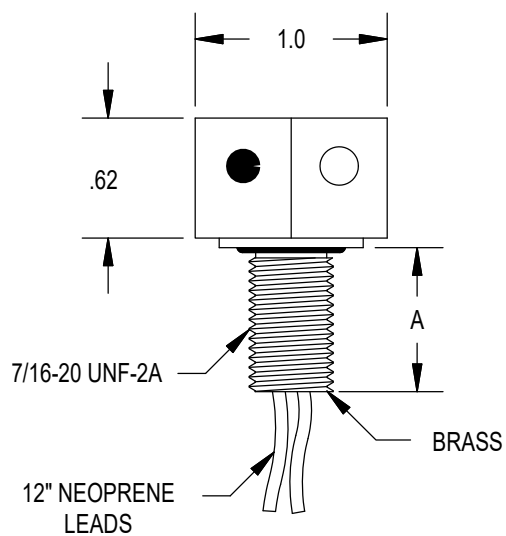
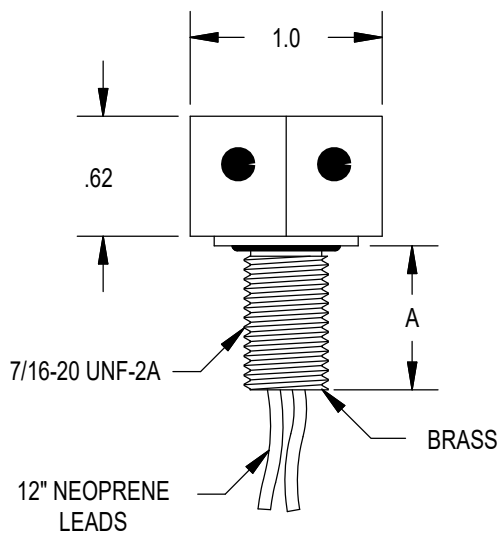
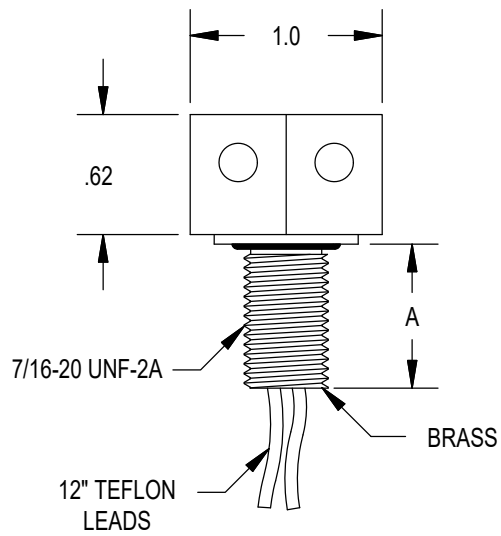


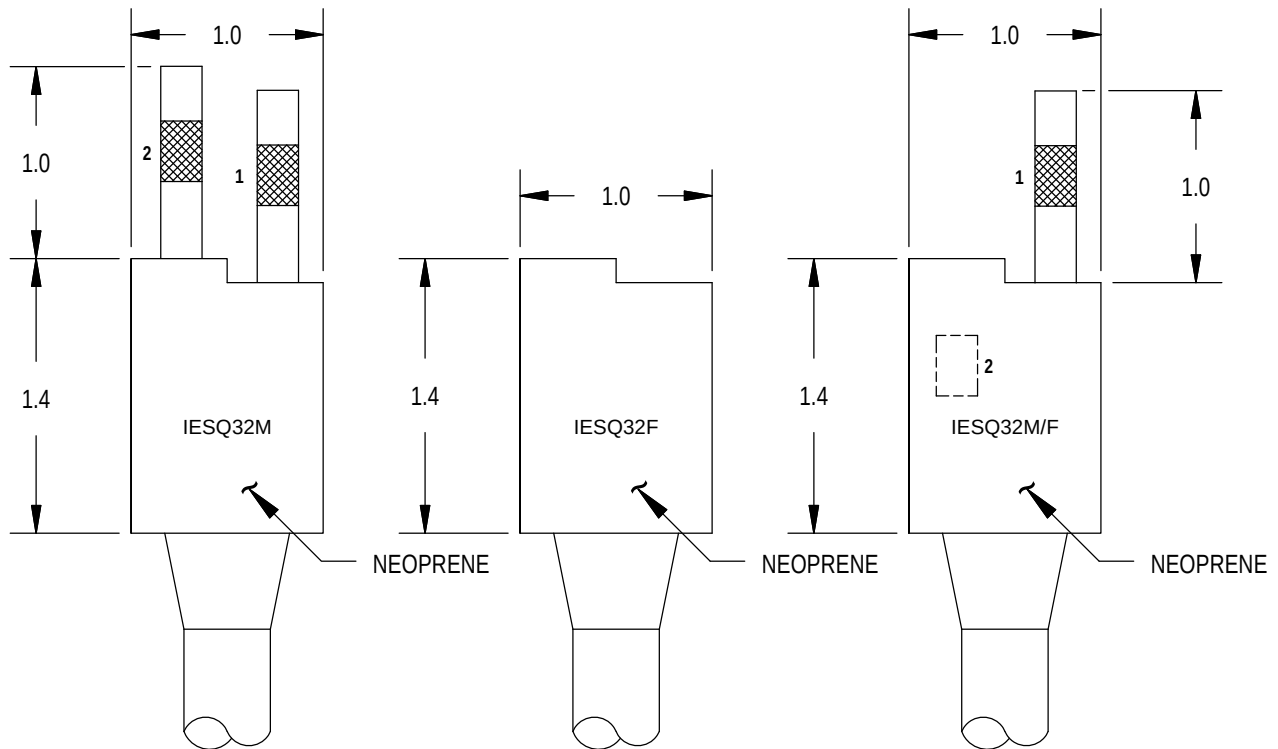


**CONTACT
CONFIGURATIONS**
(IEB34M FACE VIEW)



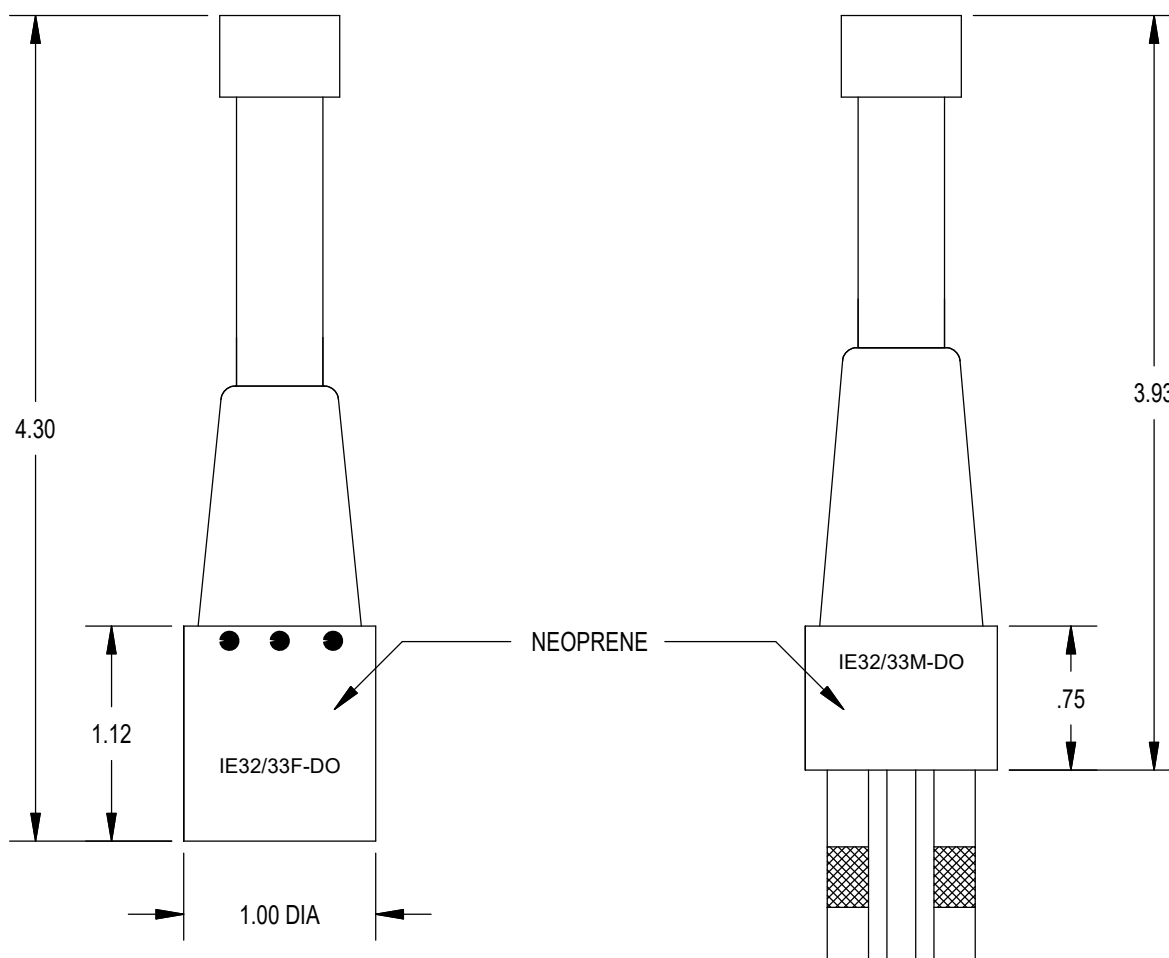
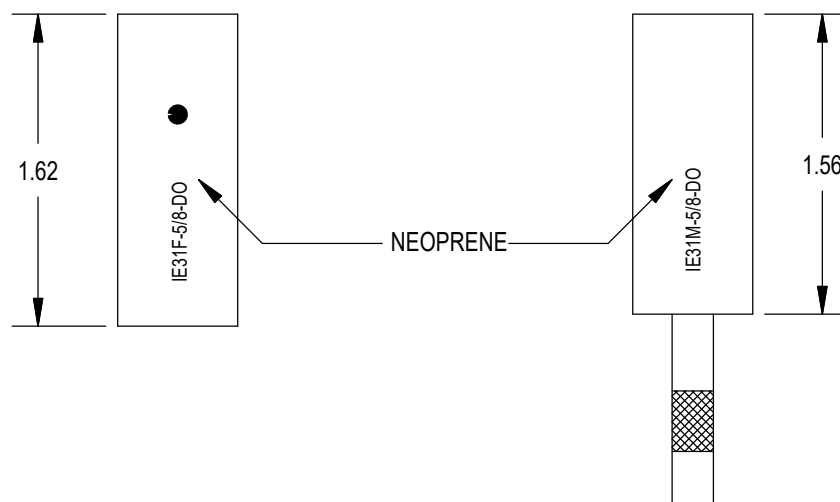
MATED PRESSURE RATING (psi)	20,000
DUMMY PLUG FOR IEB34M	IEB34F-DO *
DUMMY PLUG FOR IEB34F	IEB34M-DO *
* Dummy plugs found on Page 75 111. ** Shorted dummies (DS) available upon request.	

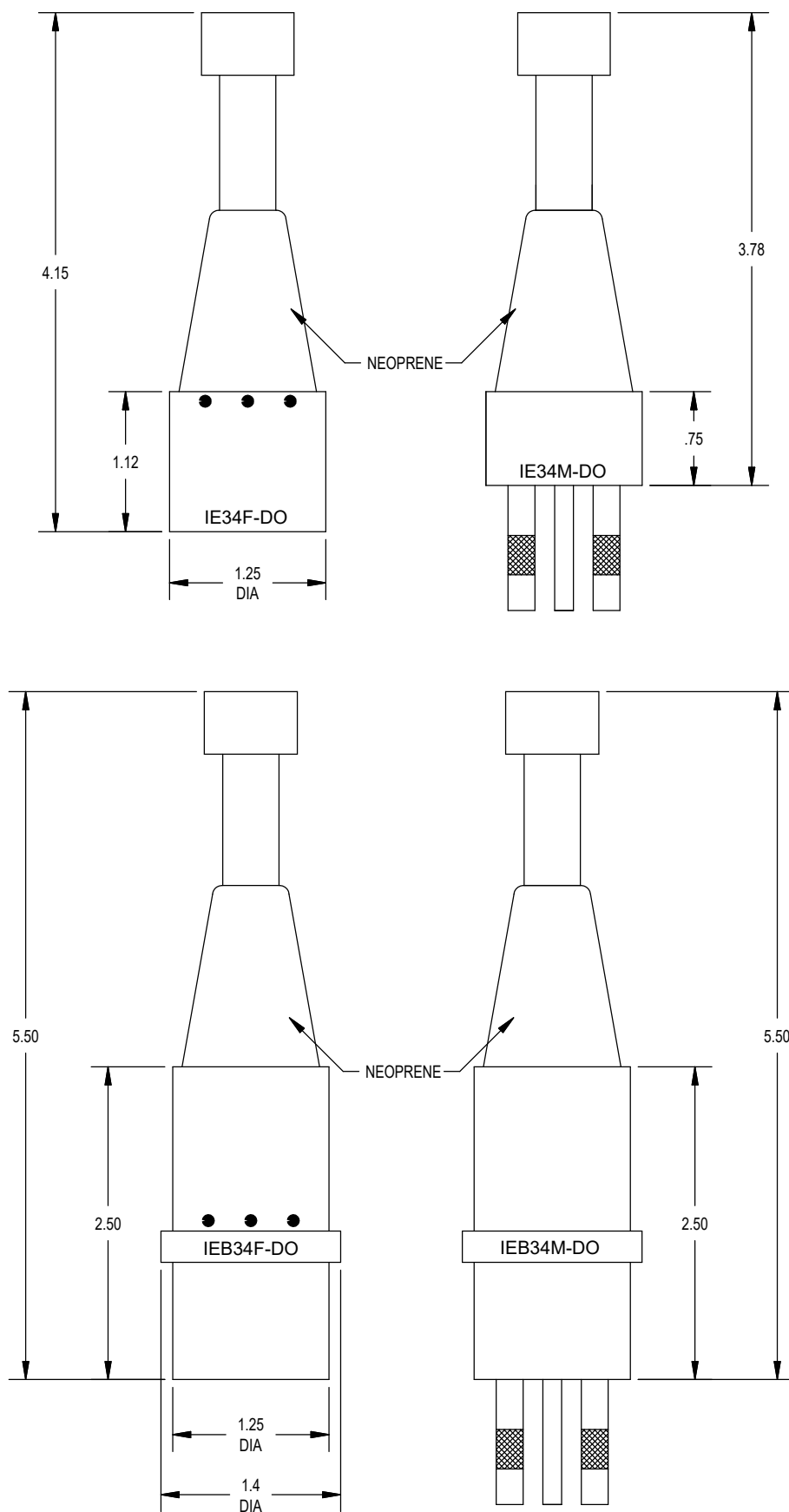


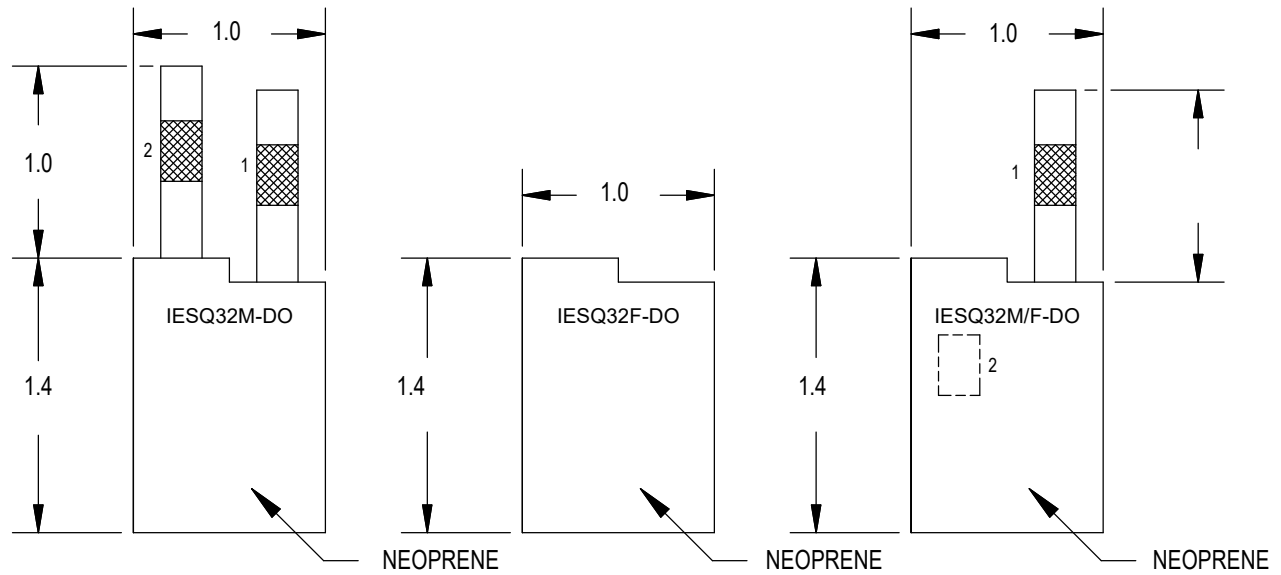


MOUNTING TORQUE FOR BC	not to exceed 100 in lbs
MATED PRESSURE RATING (psi)	5,000
DUMMY PLUG FOR IESQ32M-BC, IESQ32M	IESQ32F-DO *
DUMMY PLUG FOR IESQ32F-BC, IESQ32F	IESQ32M-DO *
DUMMY PLUG FOR IESQ32M/F-BC, IESQ32M/F	IESQ32M/F-DO *
* Dummy plugs found on Page 75 112. ** Shorted dummies available upon request. *** See chart for thread specifications. **** Specify M/F/MF	

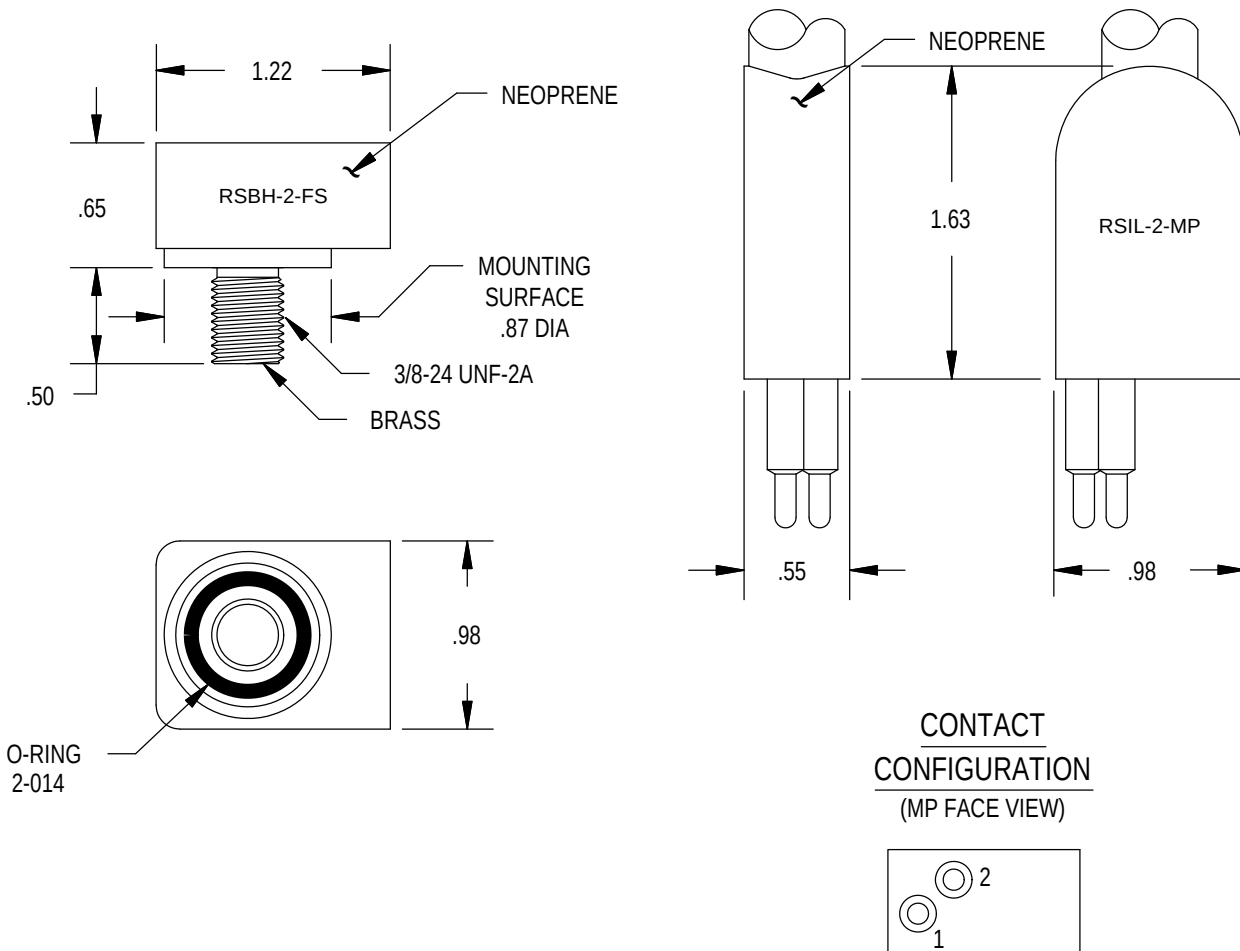
BULKHEAD	
PART NUMBER	A
IESQ32 **** -BC-1	.50
IESQ32 **** -BC-2	.75
IESQ32 **** -BC-3	1.00



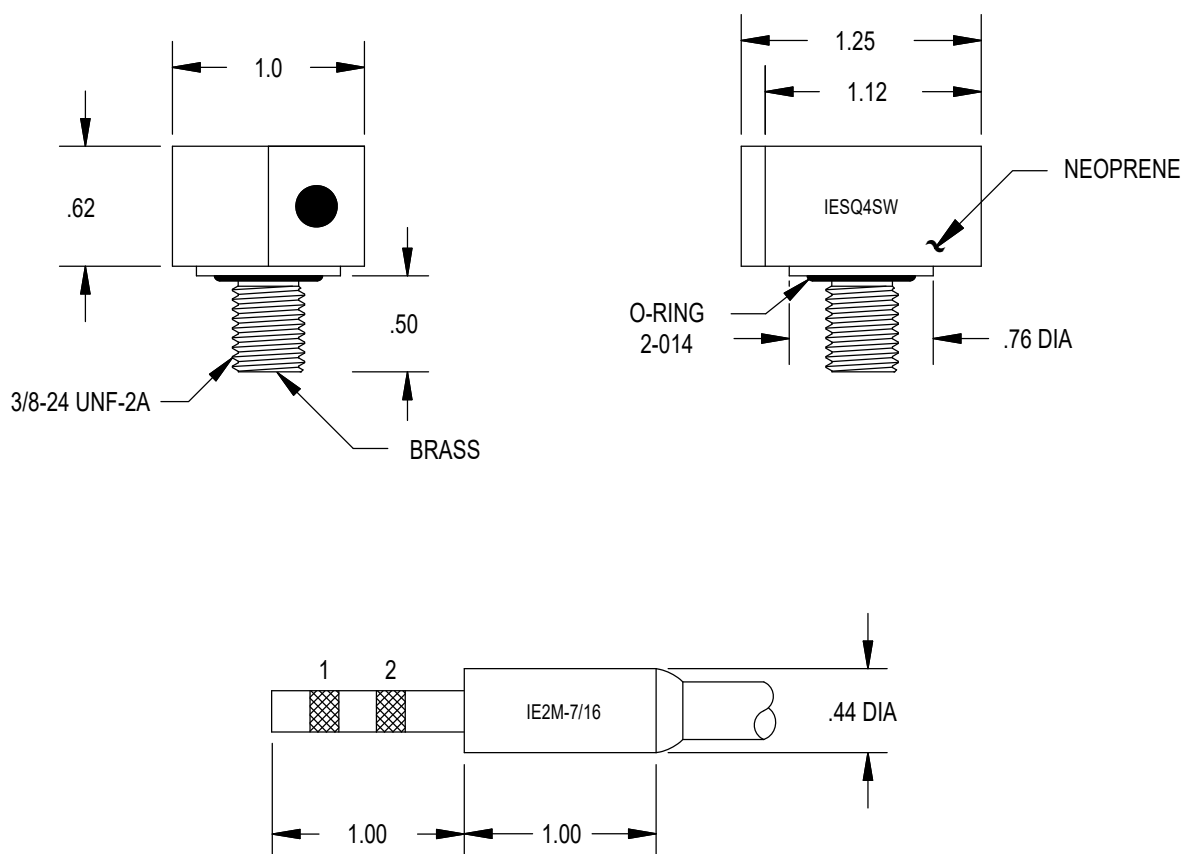




DESCRIPTION AND MATERIAL	• Molded neoprene. • Up to 200 VDC. • Up to 5,000 PSI. • Bulkhead switch design open face pressure rated to 5000 PSI. • Switches are normally open.
CABLE	• Connectors in this series are molded on a standard 24" length of SO cable.
USES	• Current meters. • Safety devices. • Device monitoring. • Light to heavy duty applications. • Hazardous environments.
GUIDELINES	• All mounting surfaces require a 32 finish. • Lubricate mating surfaces of RSBH/RSIL with 3M Silicone Spray or equivalent, DO NOT grease! Connectors must be lubricated on a regular bases. • Lubricate male pin of IE2M-7/16 liberally with Dow Corning #111 Valve Lubricant or equivalent and apply a small amount in the female socket. Connectors must be lubricated on a regular basis. • Lubricate o-rings with Dow Corning #111 Valve Lubricant or equivalent. • Avoid nicks and cuts around contacts as these are the sealing surfaces. • Elastomers can be seriously degraded if exposed to direct sunlight or high ozone levels for extended periods of time. • Do not over tighten bulkhead nuts. • Do not pull on cable to disconnect. • Avoid sharp bends at cable entry to connector.
ORDERING INFORMATION	• Bulkhead connectors do not come with nuts and washers. If required, please specify when ordering.

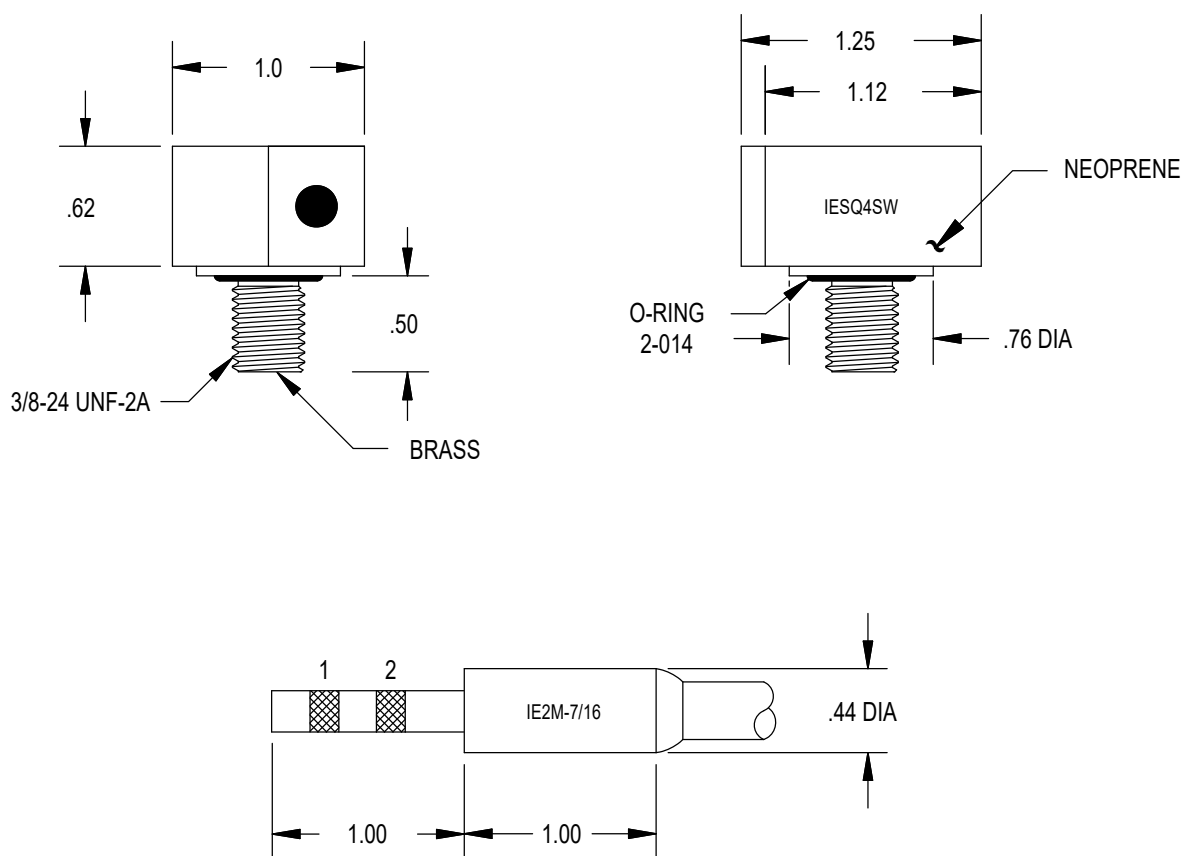


SWITCH RATINGS		CONNECTOR RATINGS	
CURRENT	0.5 A	MOUNTING TORQUE	not to exceed 100 in lbs
VOLTAGE	200VDC	MATED PRESSURE RATING (psi)	5,000
RESISTANCE	0.100 OHM	DUMMY PLUG FOR RSBH-2-FS	RSDC-2-MP
OPERATING TIME (MAX)	0.6 mS	DUMMY PLUG FOR RSIL-2-MP	RSDC-2-FS
RELEASE TIME (MAX)	0.1 mS		
NOTE: Bulkhead available in stainless steel. Standard 1/2" thread length. Bulkhead available with inboard leads + mating connector or inboard leads without mating connector.			



SWITCH RATINGS		CONNECTOR RATINGS	
CURRENT	0.5 A	MOUNTING TORQUE	not to exceed 100 in lbs
VOLTAGE	200VDC	MATED PRESSURE RATING (psi)	5,000
RESISTANCE	0.100 OHM	DUMMY PLUG FOR IESQ4SW	IE2M-7/16-DO *
OPERATING TIME (MAX)	0.6 mS	DUMMY PLUG FOR IE2M-7/16	IE2F-7/16-DO *
RELEASE TIME (MAX)	0.1 mS		
NOTE: Bulkhead available in stainless steel. Standard 1/2" thread length. Bulkhead available with inboard leads + mating connector or inboard leads without mating connector. * Shorted dummies (DS) available upon request.			

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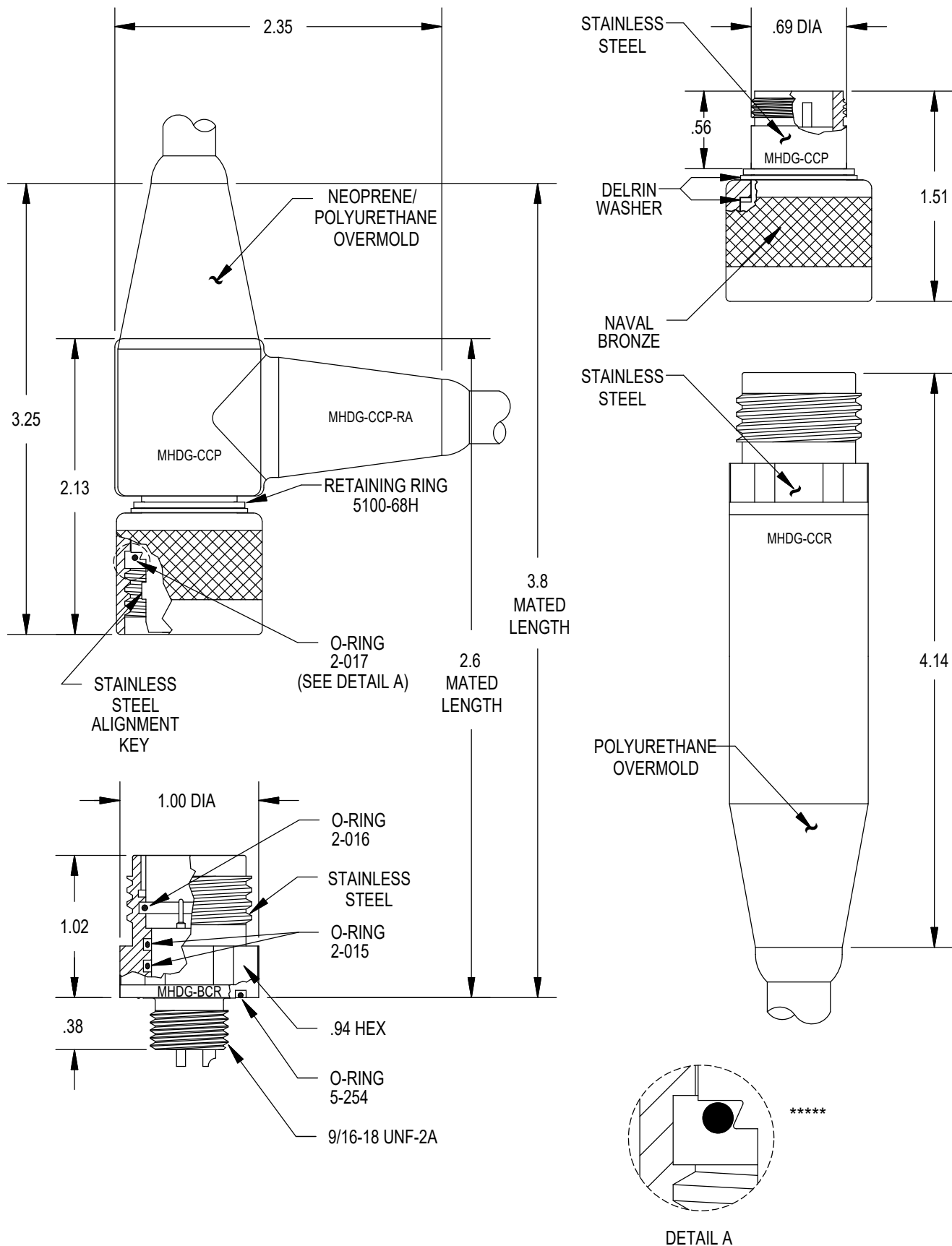


SWITCH RATINGS		CONNECTOR RATINGS	
CURRENT	0.5 A	MOUNTING TORQUE	not to exceed 100 in lbs
VOLTAGE	200VDC	MATED PRESSURE RATING (psi)	5,000
RESISTANCE	0.100 OHM	DUMMY PLUG FOR IESQ4SW	IE2M-7/16-DO *
OPERATING TIME (MAX)	0.6 mS	DUMMY PLUG FOR IE2M-7/16	IE2F-7/16-DO *
RELEASE TIME (MAX)	0.1 mS		
NOTE: Bulkhead available in stainless steel. Standard 1/2" thread length. Bulkhead available with inboard leads + mating connector or inboard leads without mating connector. * Shorted dummies (DS) available upon request.			

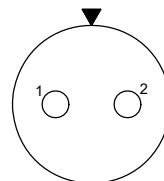
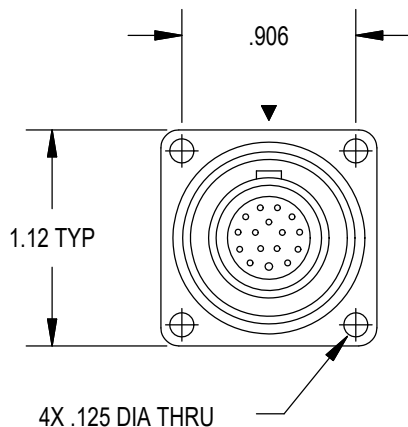
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MINIATURE HIGH DENSITY SERIES

DESCRIPTION AND MATERIAL	• 316 stainless steel passivated per QQ-P-35 Type VI with naval bronze engaging nut. • Special alloys are available upon request (contact factory). • Contains a removable glass reinforced epoxy insert. (Except for MHDG series and CCP's) • Up to 96 contacts. • Up to 600 VDC. • 10,000 PSI in mated condition (higher pressure rating available using special alloy metal shell; please contact factory). • Bulkhead connector design open face pressure rated to 5,000 psi. • MHD-CCR/CCP connectors can be overmolded with polyurethane. • Contacts are gold plated per MIL-G-45204.
CABLE	• Connector's amperage and voltage may be limited by the amperage and voltage ratings of the cable to which the connector is molded. • This series is not molded to cable unless specified at the time of order.
USES	• Signal telemetry. • Hazardous environment. • FCR is mounted by use of four equally spaced bolts around the flange surface. • FCR is used in place of the BCR when the use of a bulkhead nut and washer is impractical. • For all open face pressures above 5,000 PSI the BCR, FCR must be back potted (please contact the factory). • The CCR is used in a variety of environments where cable to cable termination is necessary.
GUIDELINES	• Mounting torque should not exceed 150 in lbs. for this series. • All mounting surfaces require a 32 finish. • Align indexes. • Keep o-ring grooves clean. • Avoid o-ring cuts and nicks. • Lubricate o-rings with Dow Corning #111 Valve Lubricant or equivalent. • Replace o-rings when re-using connectors. • Avoid contact with noxious solvents. • Elastomers can be seriously degraded if exposed to direct sunlight or high ozone levels for extended periods of time.

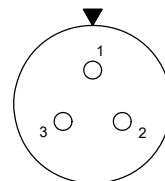


**CONTACT
CONFIGURATION**
(BCR FACE VIEW)



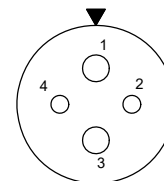
2#14

600VDC

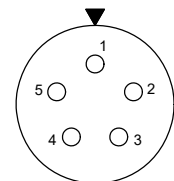


3#16

600VDC

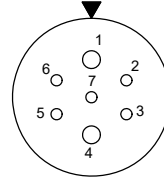


2#14

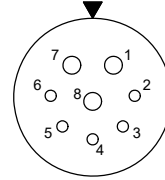
2#16
300VDC

5#16

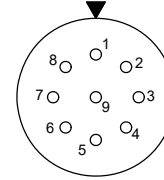
300VDC



2#16

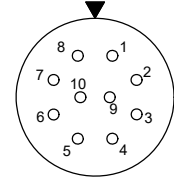
5#20
300VDC

3#16

5#20
300VDC

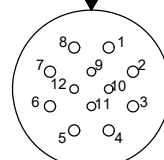
9#20

300VDC

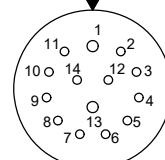


10#20

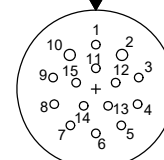
300VDC



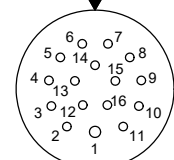
8#20

4#22
300VDC

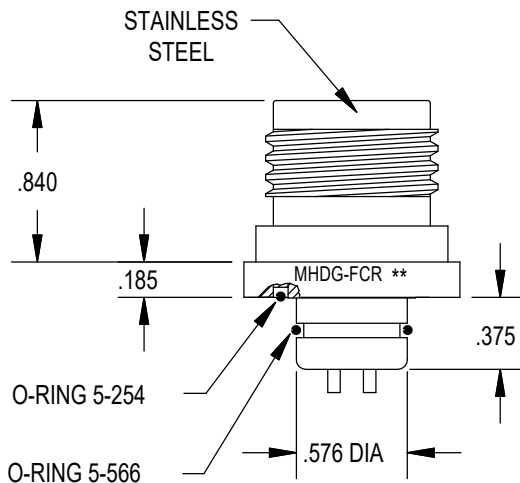
2#20

12#22
300VDC

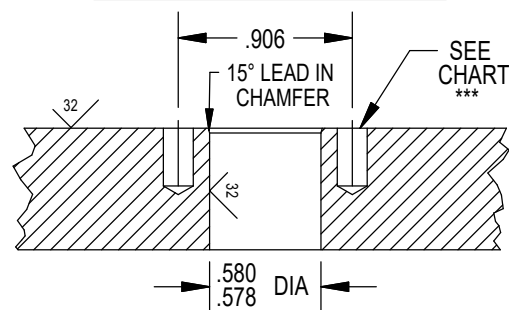
2#20

13#22
300VDC

1#20

15#22
300VDC

MOUNTING INSTRUCTIONS



MOUNTING TORQUE FOR MHDG-BCR	not to exceed 150 in lbs	MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR MHDG-BCR/FCR/CCR	MHDG-SCP	DUMMY PLUG FOR MHDG-CCP	MHDG-SCR

NOTE: CCP is not terminated to cable unless specified.

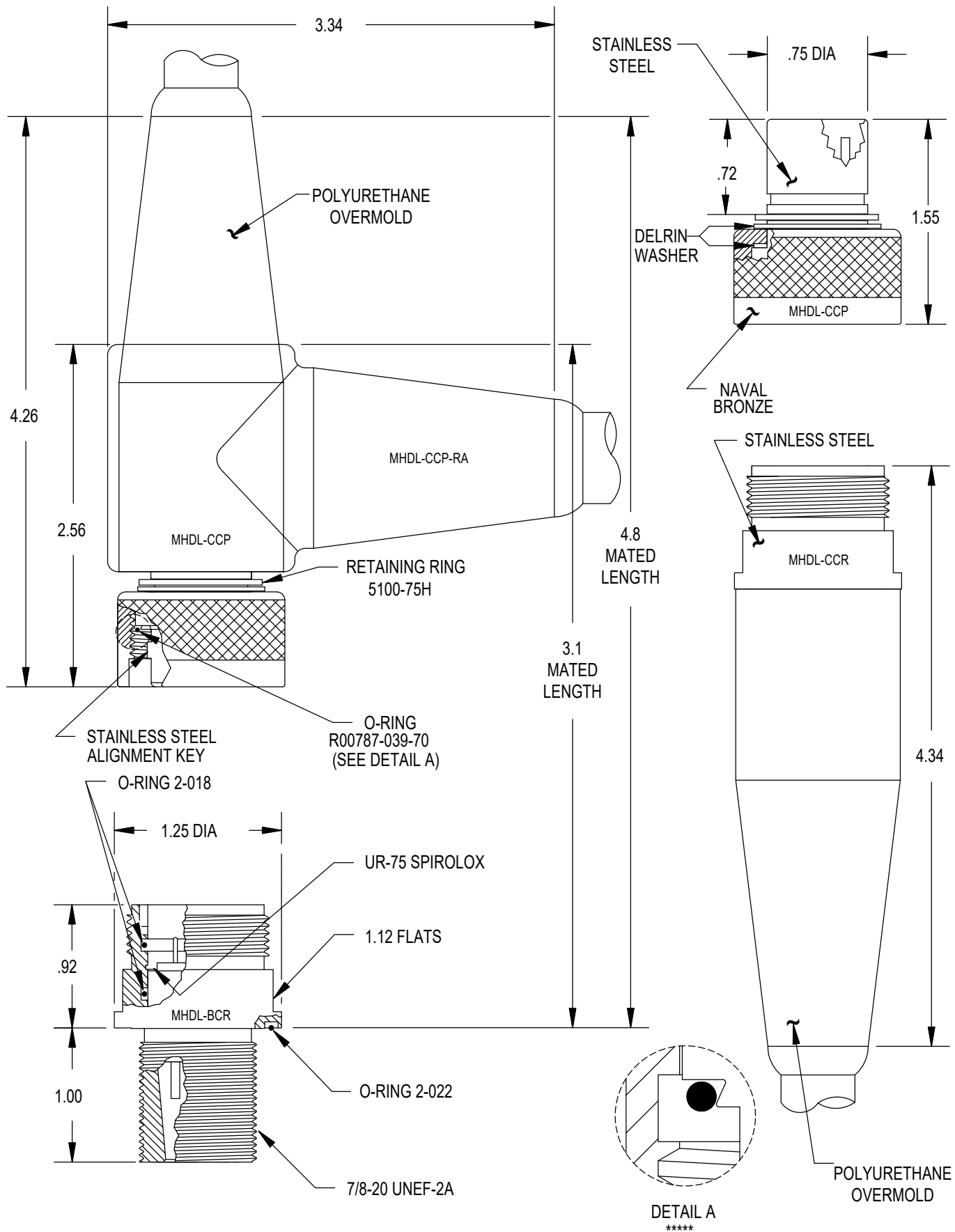
* Please specify number of contacts.

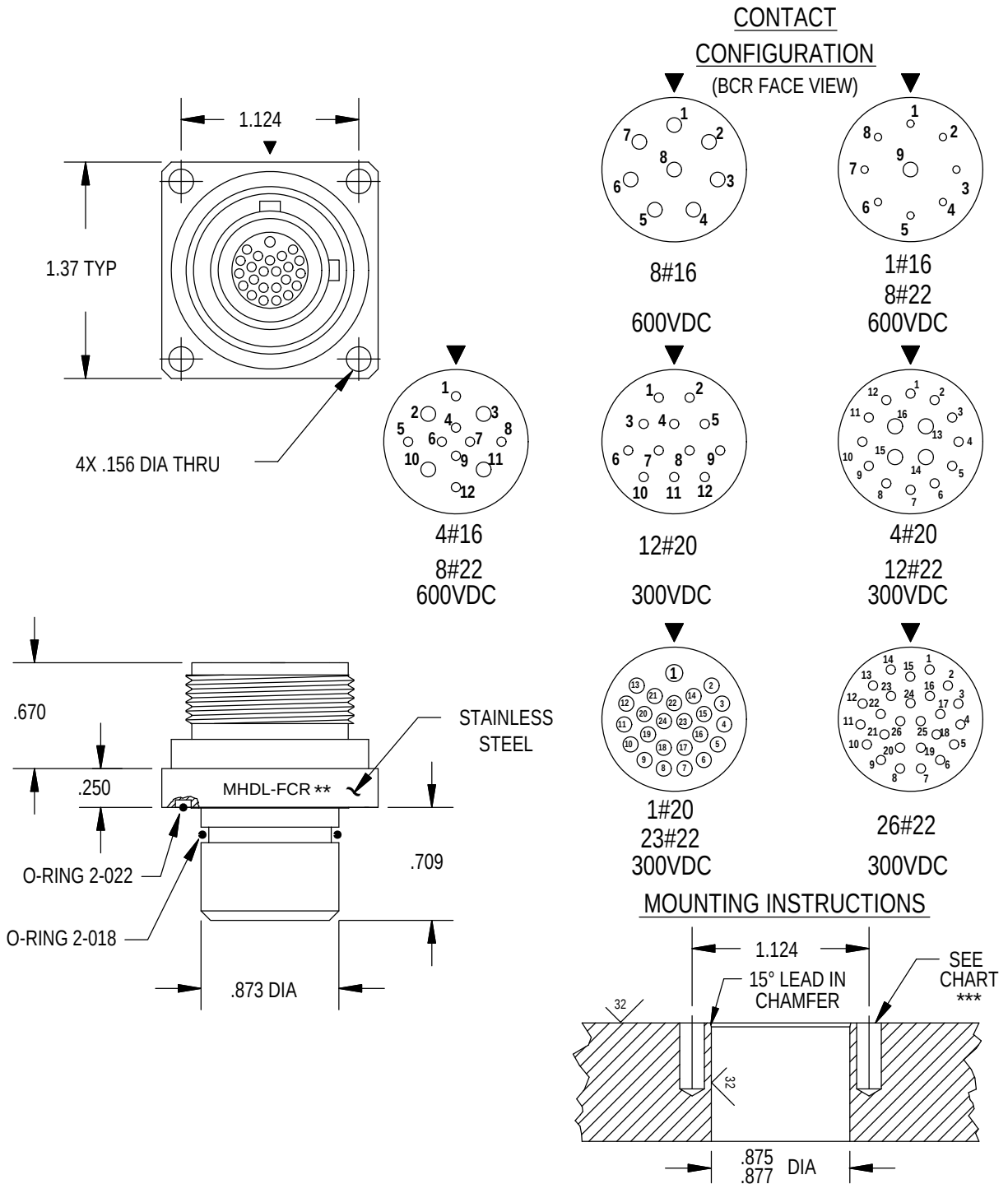
** Internal assembly same as MHDG-BCR (facing page).

*** Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter.

**** Oil filled version available. See section 86.

***** O-Ring installation tool available - Contact factory for further details.





MOUNTING TORQUE FOR MHDL-BCR	not to exceed 200 in lbs	MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR MHDL-BCR/FCR/CCR	MHDL-SCP	DUMMY PLUG FOR MHDL-CCP	MHDL-SCR

NOTE: CCP is not terminated to cable unless specified.

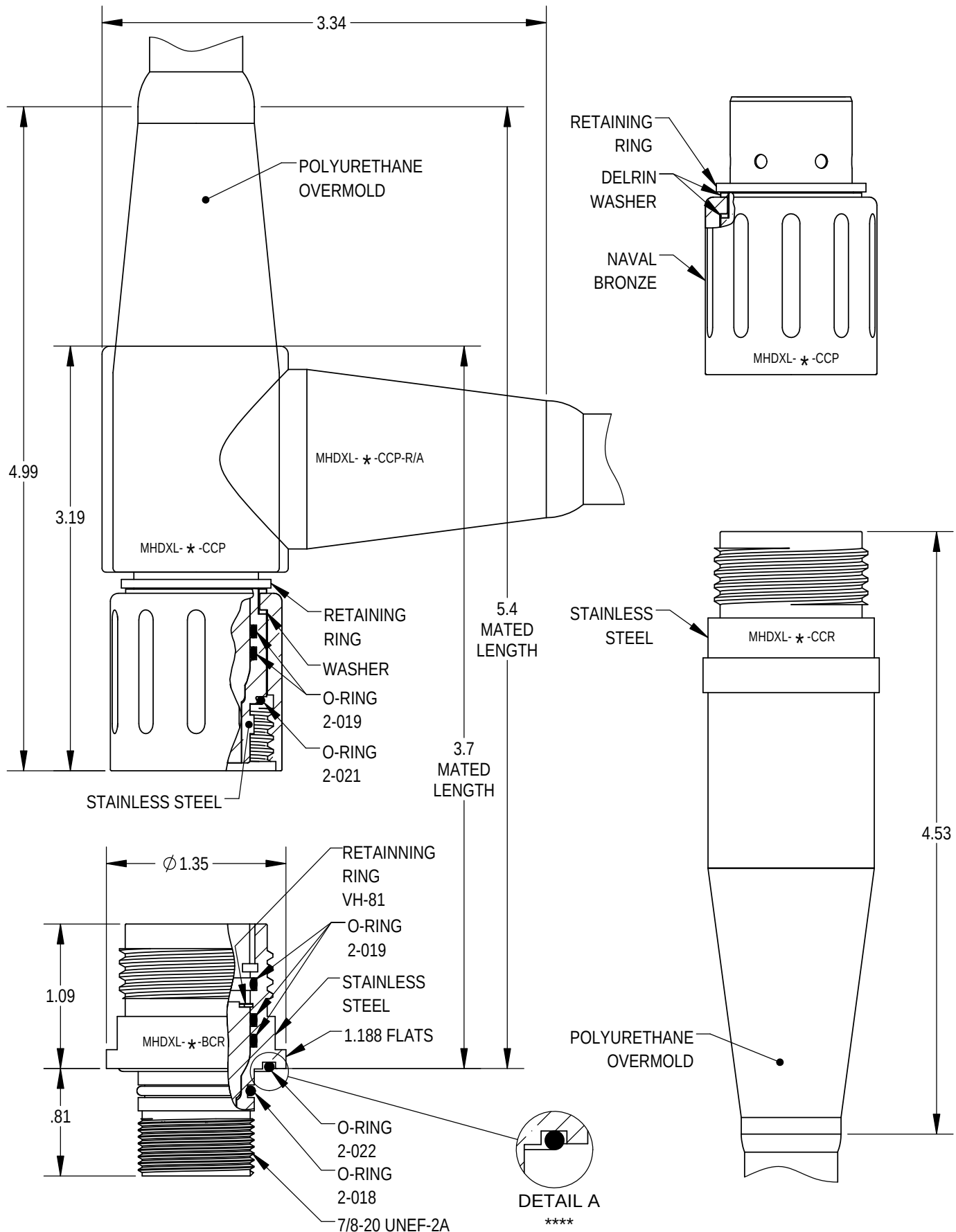
* Please specify number of contacts.

** Internal assembly same as MHDL-BCR (facing page).

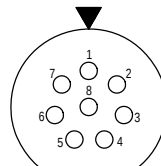
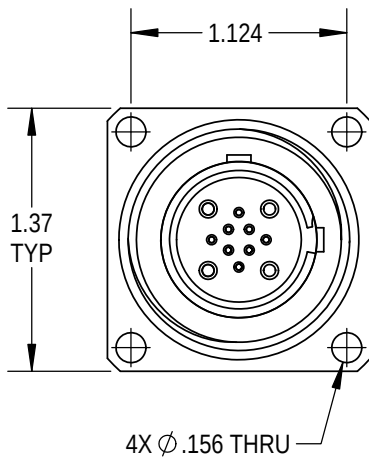
*** Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter.

**** Oil filled version available upon request. See section 86.

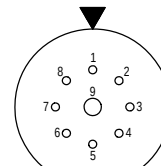
***** O-Ring installation tool available - Contact factory for further details.



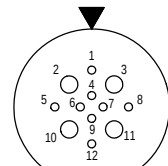
CONTACT
CONFIGURATION
(BCR FACE VIEW)



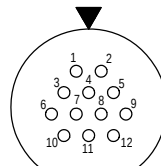
8#16
600 VDC



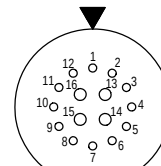
1#16, 8#22
600 VDC



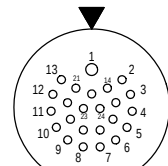
4#16, 8#22
600 VDC



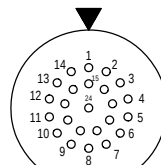
12#20
300 VDC



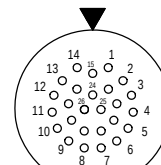
4#20, 12#22
300 VDC



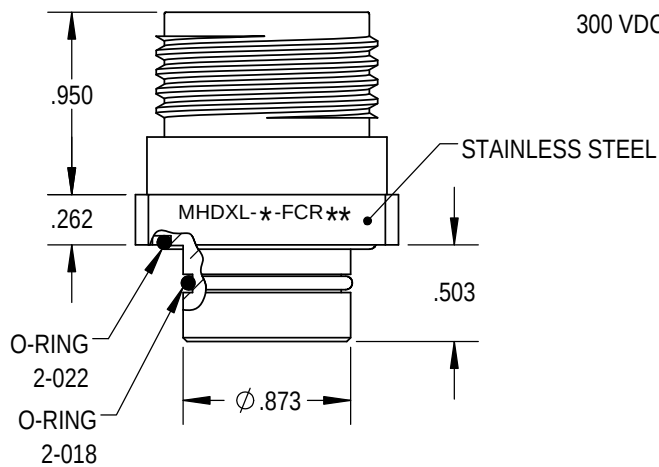
1#20, 23#22
300 VDC



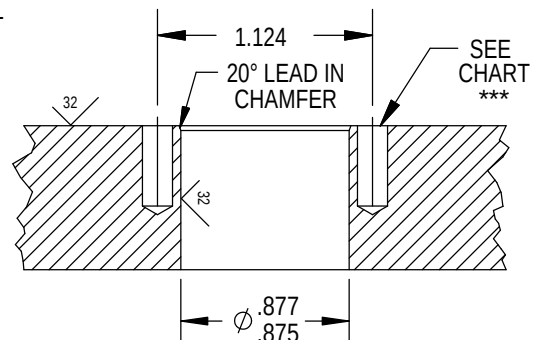
24#22
300 VDC



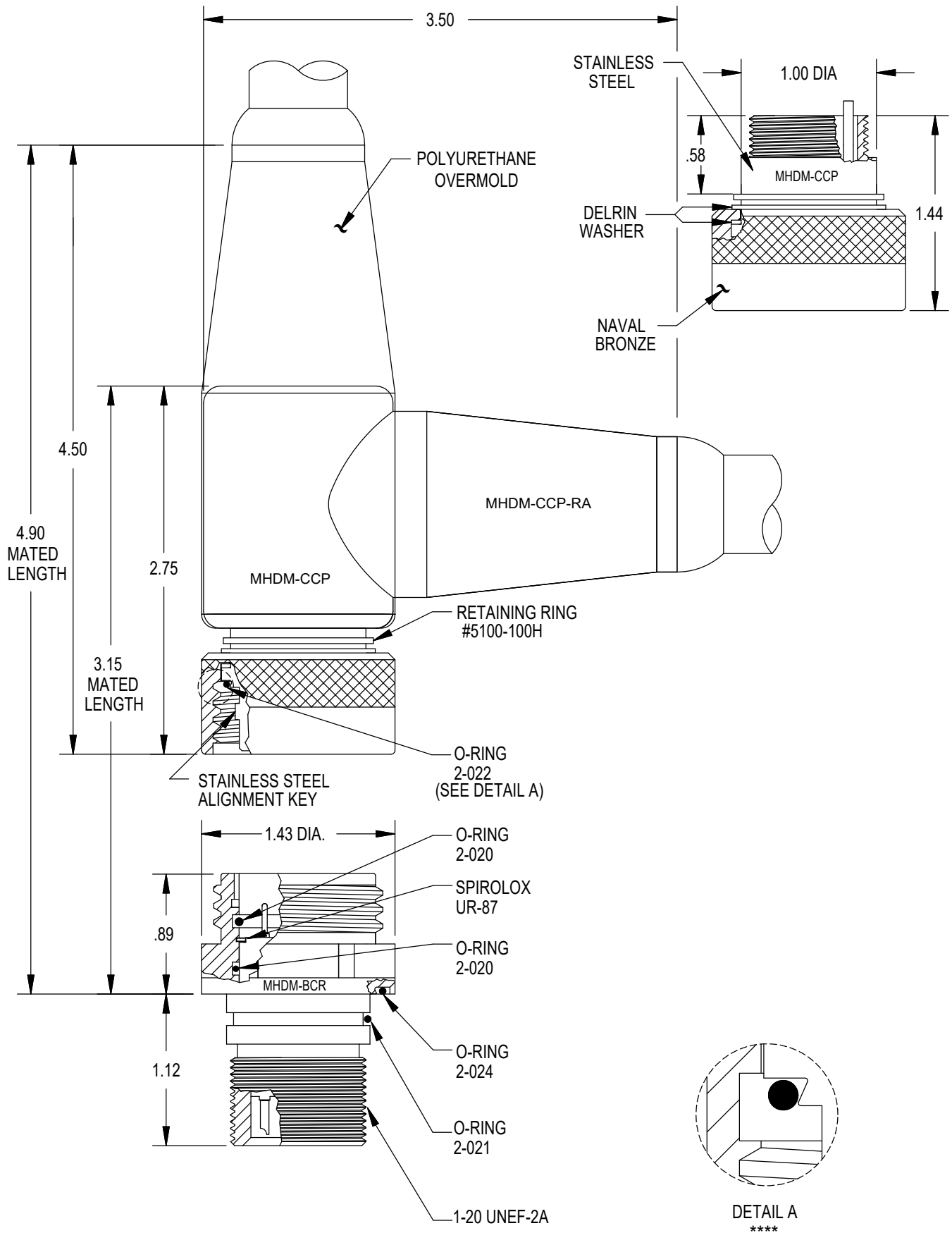
26#22
300 VDC

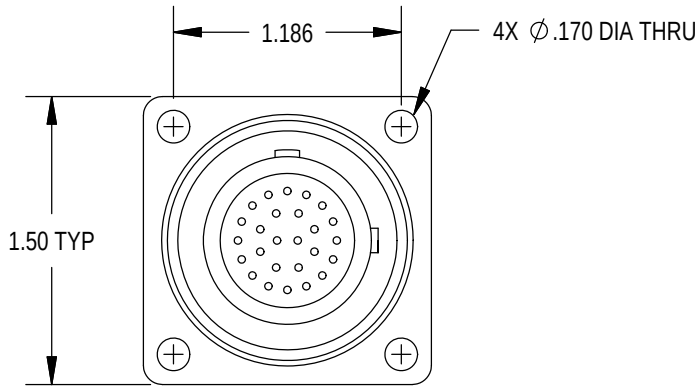


MOUNTING INSTRUCTIONS

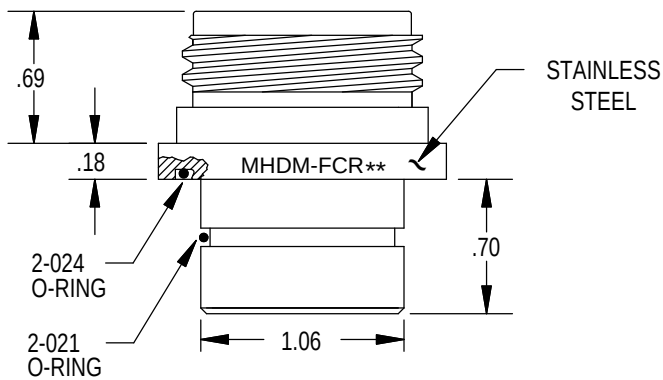
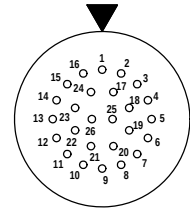
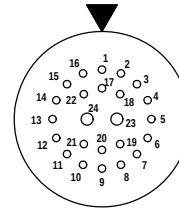


MOUNTING TORQUE FOR MHDXL-BCR	not to exceed 200 in lbs	MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR MHDXL-BCR/FCR/CCR	MHDXL-SCP	DUMMY PLUG FOR MHDXL-CCP	MHDXL-SCR
NOTE: CCP is not terminated to cable unless specified. * Please specify number of contacts. ** Internal assembly same as MHDXL-BCR (facing page). *** Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter. **** O-Ring installation tool available - Contact factory for further details.			

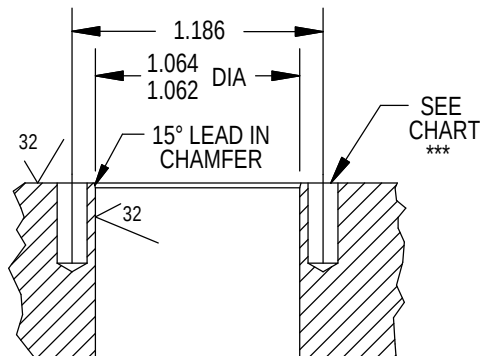




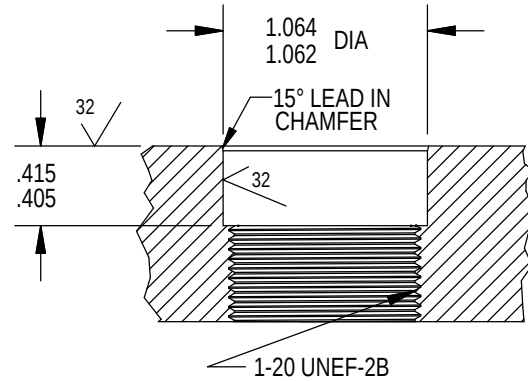
CONTACT CONFIGURATION (BCR FACE VIEW)



FCR MOUNTING INSTRUCTIONS



BCR MOUNTING INSTRUCTIONS



MOUNTING TORQUE FOR BCR	not to exceed 200 in lbs	MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR BCR	MHDM-SCP	DUMMY PLUG FOR CCP	MHDM-SCR

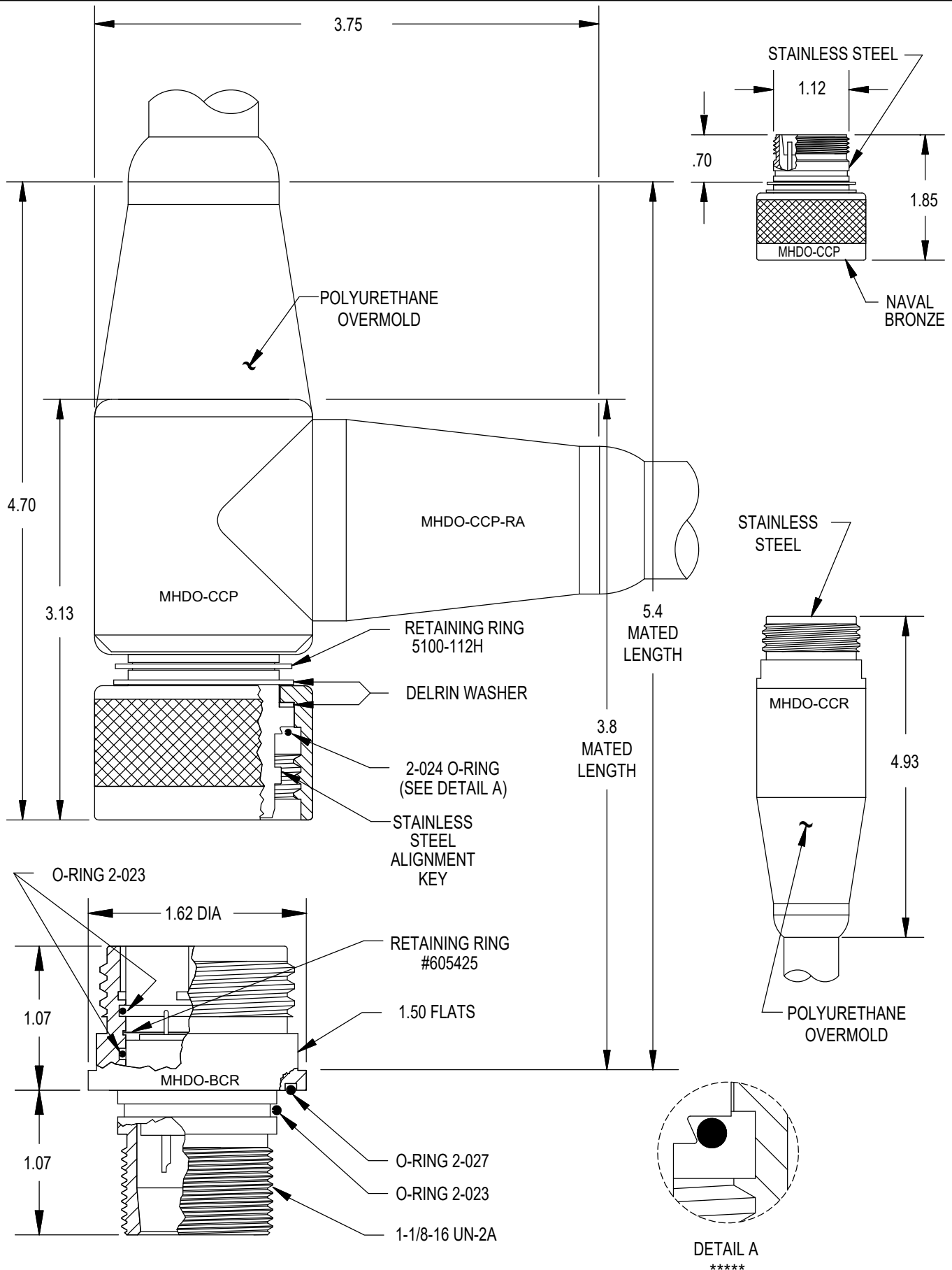
NOTE: CCP is not terminated to cable unless specified.

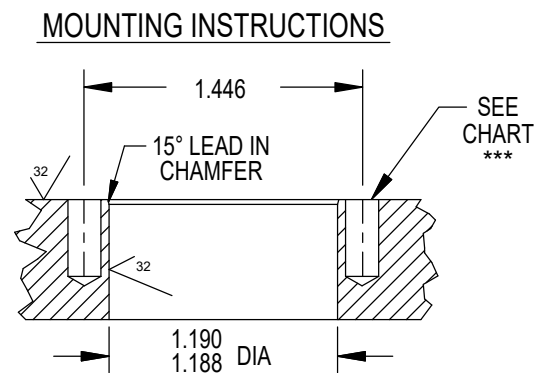
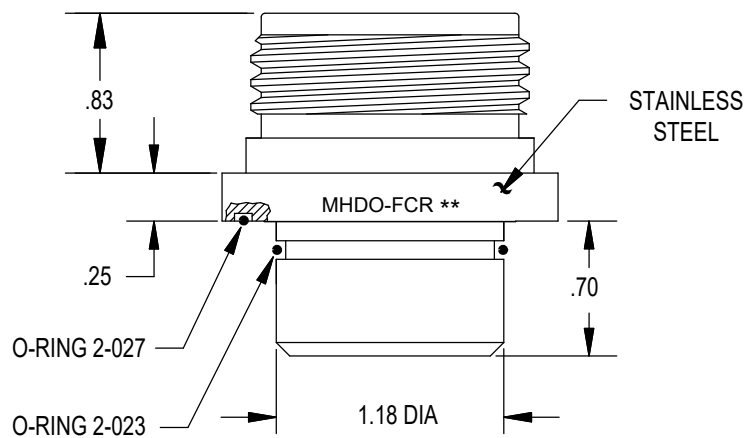
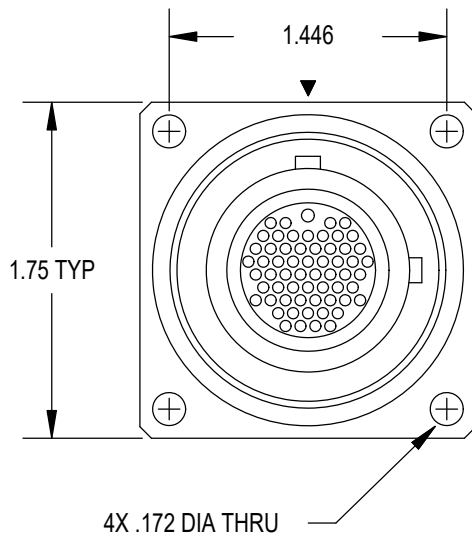
* Please specify number of contacts.

** Internal assembly is the same as the MHDM-BCR (facing page).

*** Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter.

**** O-Ring installation tool available - Contact factory for further details.





MOUNTING TORQUE FOR MHDO-BCR	not to exceed 200 in lbs	MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR MHDO-BCR/FCR/CCR	MHDO-SCP	DUMMY PLUG FOR MHDO-CCP	MHDO-SCR

NOTE: CCP and CCR are not terminated to cable unless specified.

* Please specify number of contacts.

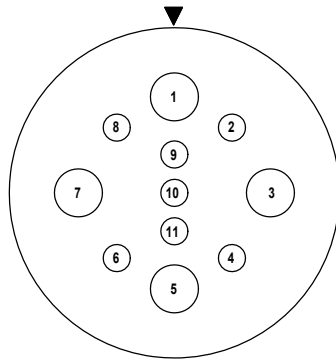
** Internal assembly same as MHDO-BCR (facing page).

*** Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter.

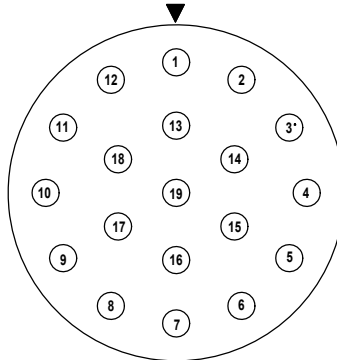
**** Oil filled version available. See section 86.

***** O-Ring installation tool available - Contact factory for further details.

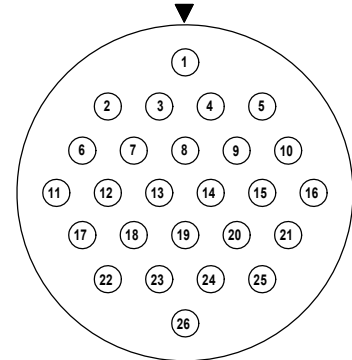
CONTACT
CONFIGURATION
(BCR FACE VIEW)



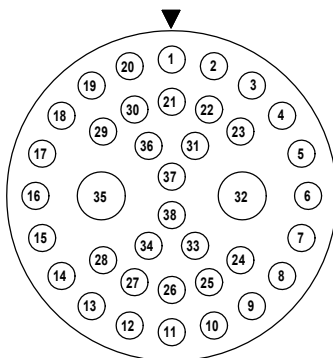
7#22
4#10
600VDC



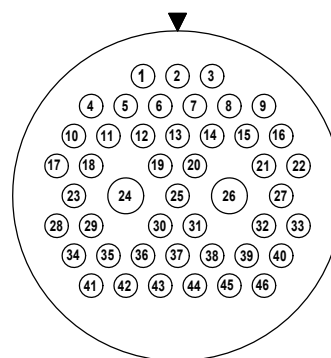
19#16
600VDC



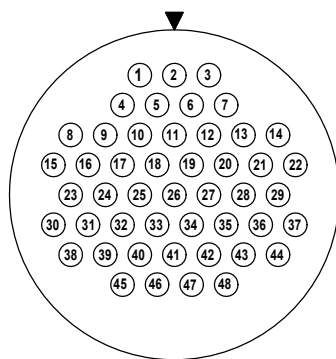
26#20
450VDC



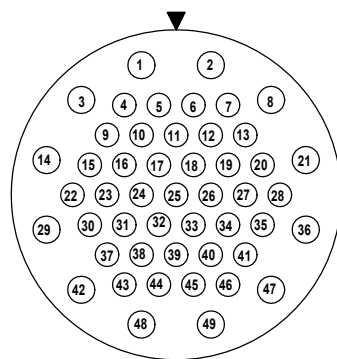
2#10
36#22
300VDC



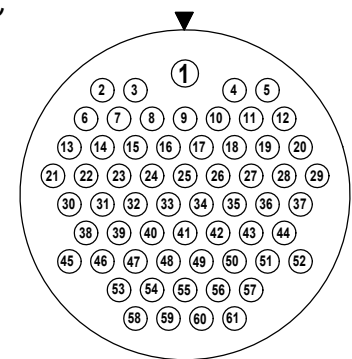
44#22
2#16
300VDC



48#22
300VDC

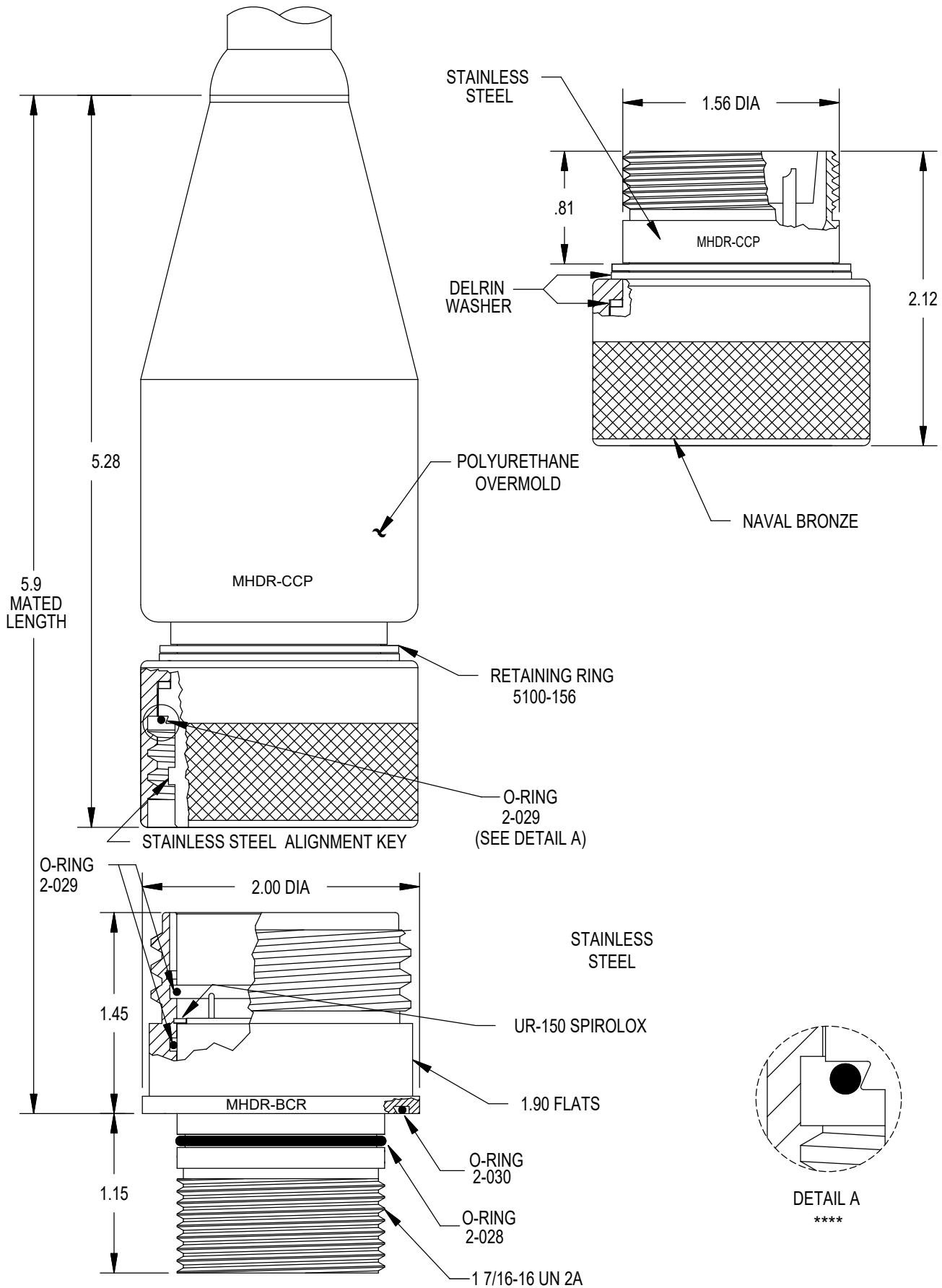


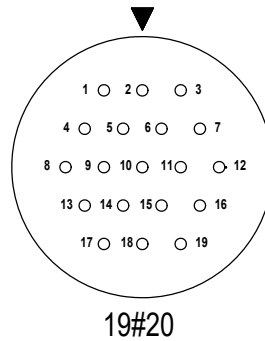
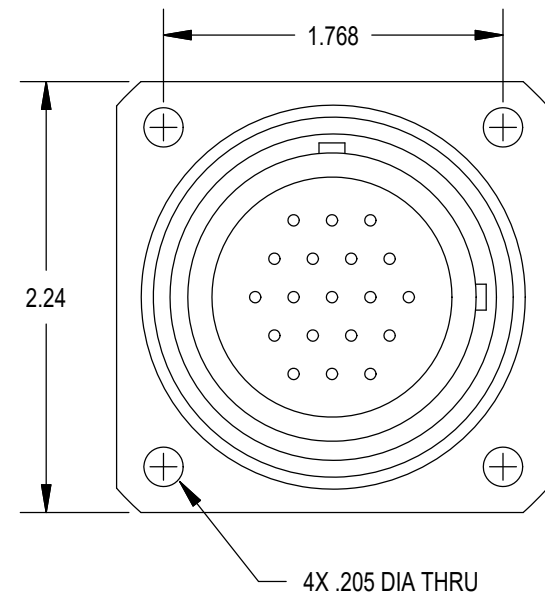
12#20
37#22
300VDC



1#20
60#22
300VDC

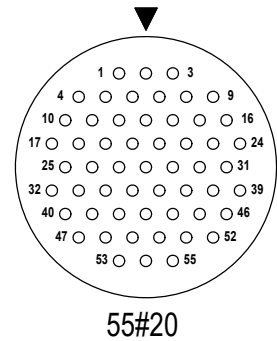
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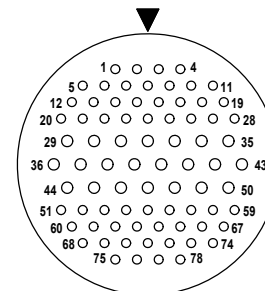
19#20

600VDC



55#20

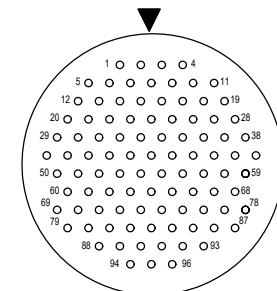
600VDC



22#20

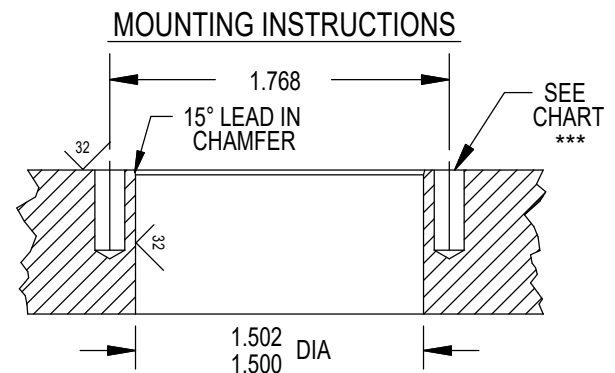
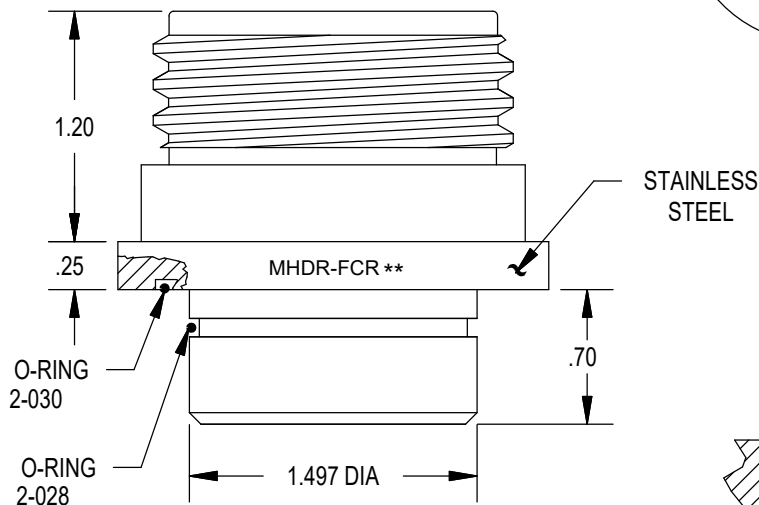
56#22

600VDC

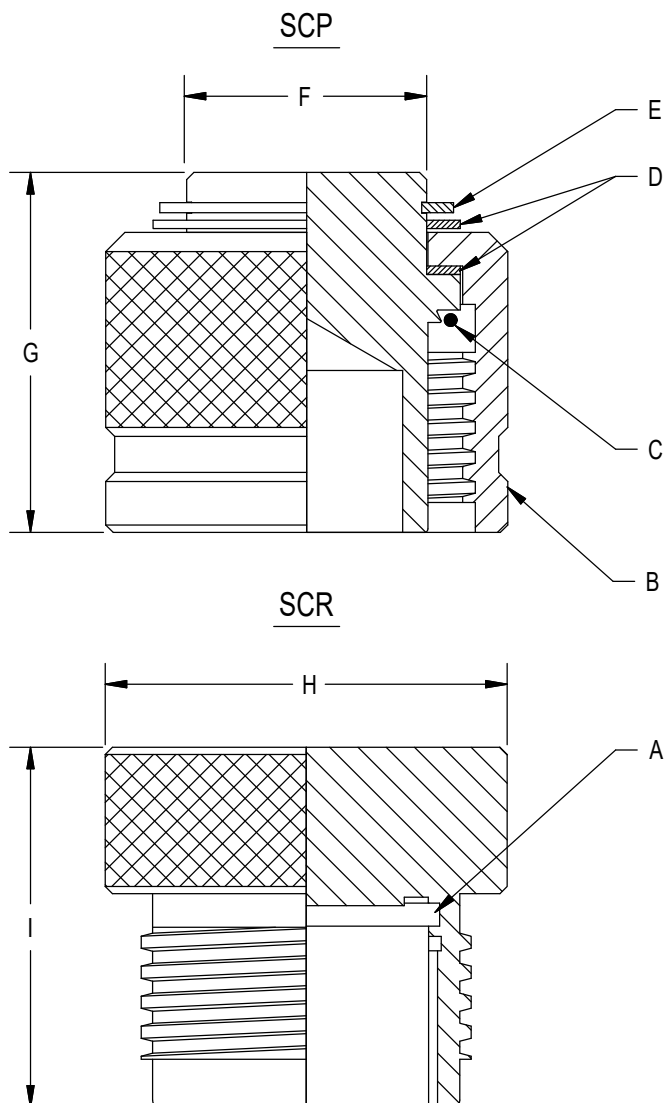


96#20

600VDC



MOUNTING TORQUE FOR MHDR-BCR	not to exceed 200 in lbs	MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR MHDR-BCR/FCR/CCR	MHDR-SCP	DUMMY PLUG FOR MHDR-CCP	MHDR-SCR
NOTE: CCP is not terminated to cable unless specified. * Please specify number of contacts. ** Internal assembly same as MHDR-BCR (facing page). *** Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter. **** O-Ring installation tool available - Contact factory for further details.			



CONNECTOR SIZE	MHDG	MHDL	MHDM	MHDO	MHDR
A O-RING	2-016	2-018	2-020	2-023	2-029
B ENGAGING NUT	605165	605280	602004	605450	602261
C O-RING	2-017	R00787-039-070	2-022	2-024	2-029
D DELRIN WASHER(2X)	605101	605273	602005	605430	602220
E RETAINING RING	5100-68	5100-75	5100-100	5100-112	5100-156
F DIA	.69	.75	1.00	1.12	1.56
G	1.05	.95	.97	1.25	1.45
H DIA	1.00	1.25	1.43	1.62	2.00
I	1.00	.90	.87	1.25	1.45
MATED PRESSURE RATING (psi)	10,000	10,000	10,000	10,000	10,000

DESCRIPTION AND MATERIAL

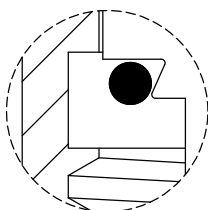
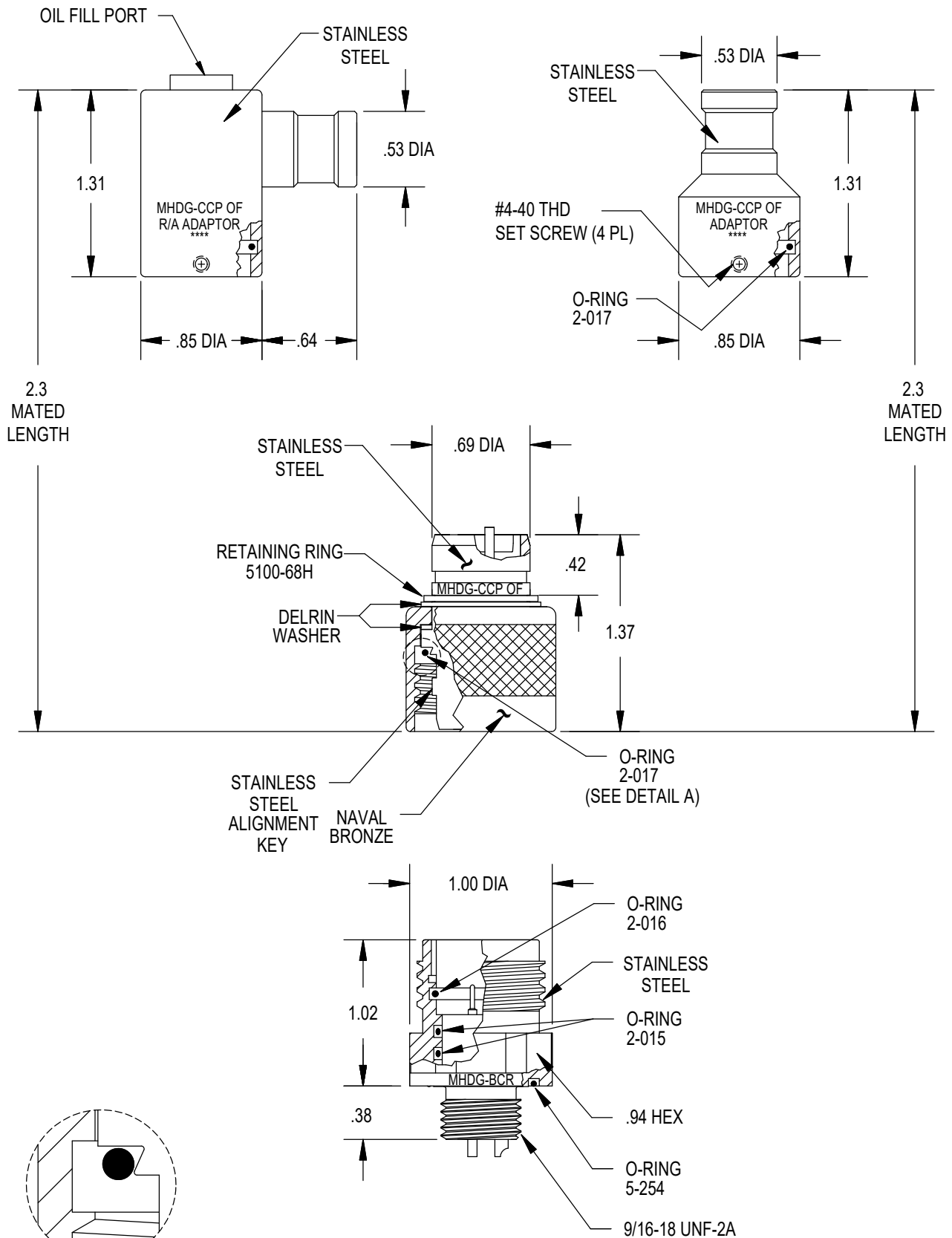
- 316 stainless steel passivated per QQ-P-35 Type VI with naval bronze engaging nut.
- Bulkhead connectors available as a threaded or flanged version with a removable glass reinforced epoxy insert. (Except for MHDG Series and CCP's)
- Up to 61 contacts.
- Up to 600 VDC.
- 5,000 PSI in mated condition.
- Bulkhead connector design open face pressure rated to 5,000 psi.
- Contacts are gold plated per MIL-G-45204.

USES

- For use with oil filled tubes.
- Signal telemetry.
- Hazardous environment.

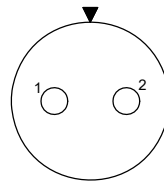
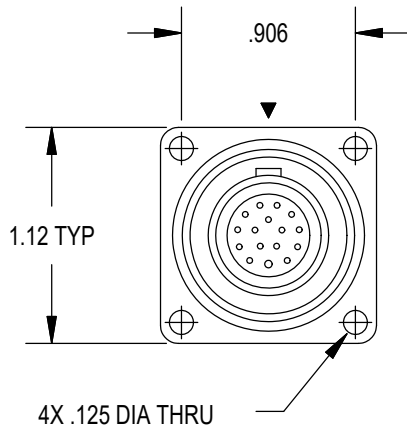
GUIDELINES

- Mounting torque should not exceed 150 in/lbs. for this series.
- All mounting surfaces require a 32 finish.
- Align indexes.
- Keep o-ring grooves clean.
- Avoid o-ring cuts and nicks.
- Lubricate o-rings with Dow Corning #111 Valve Lubricant or equivalent.
- Replace o-rings when re-using connectors.
- Avoid contact with noxious solvents.
- Elastomers can be seriously degraded if exposed to direct sunlight or high ozone levels for extended periods of time.
- Slight leakage of oil through CCP face may occur.

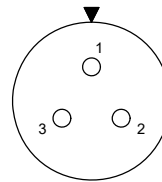


DETAIL A

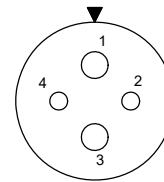
CONTACT CONFIGURATION (BCR FACE VIEW)



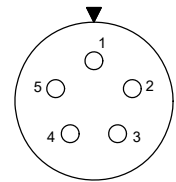
2#14
600VDC



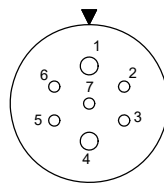
3#16
600VDC



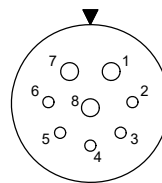
2#14
2#16
300VDC



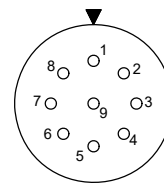
5#16
300VDC



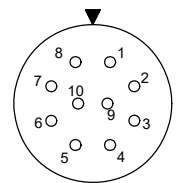
2#16
5#20
300VDC



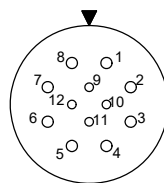
3#16
5#20
300VDC



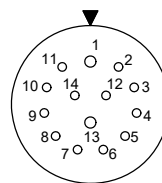
9#20
300VDC



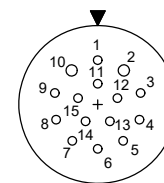
10#20
300VDC



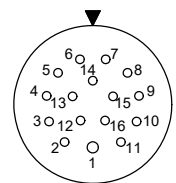
8#20
4#22
300VDC



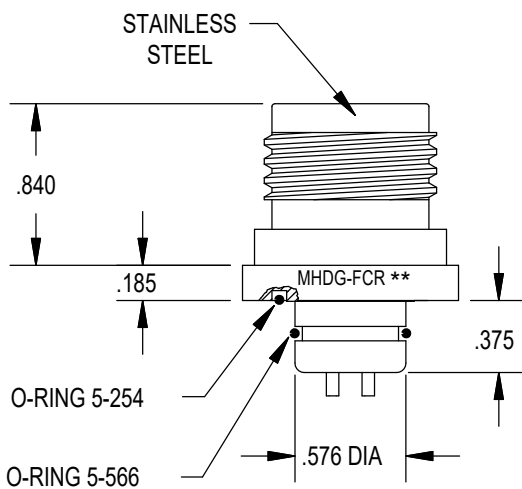
2#20
12#22
300VDC



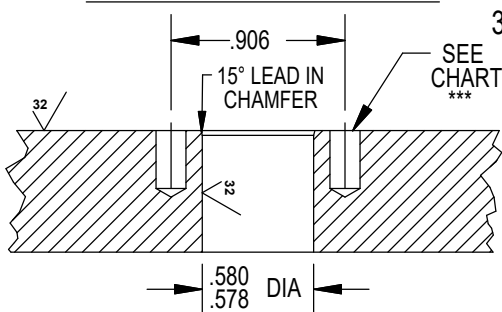
2#20
13#22
300VDC



1#20
15#22
300VDC



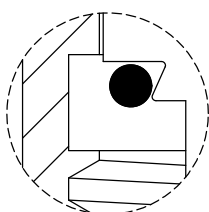
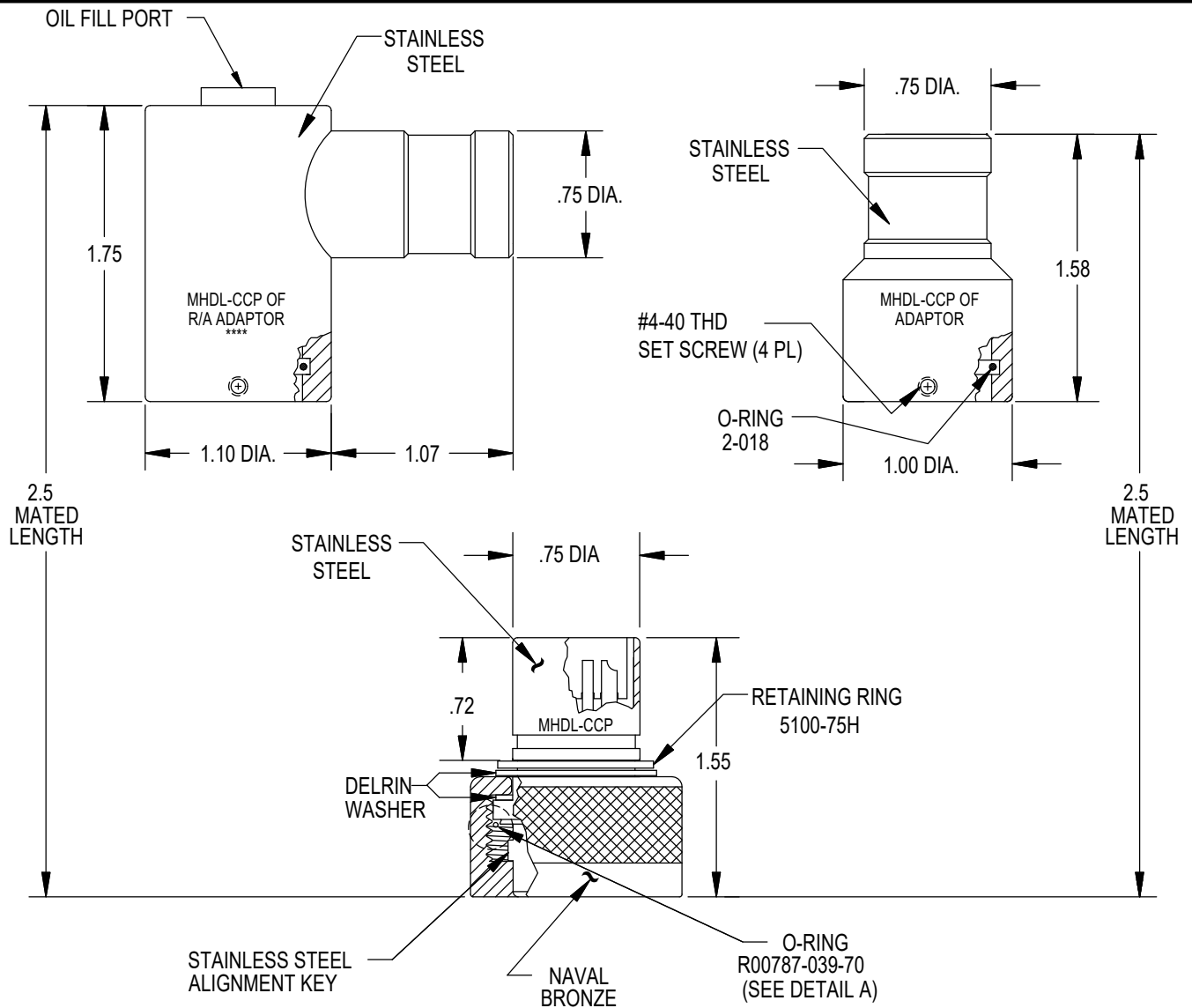
MOUNTING INSTRUCTIONS



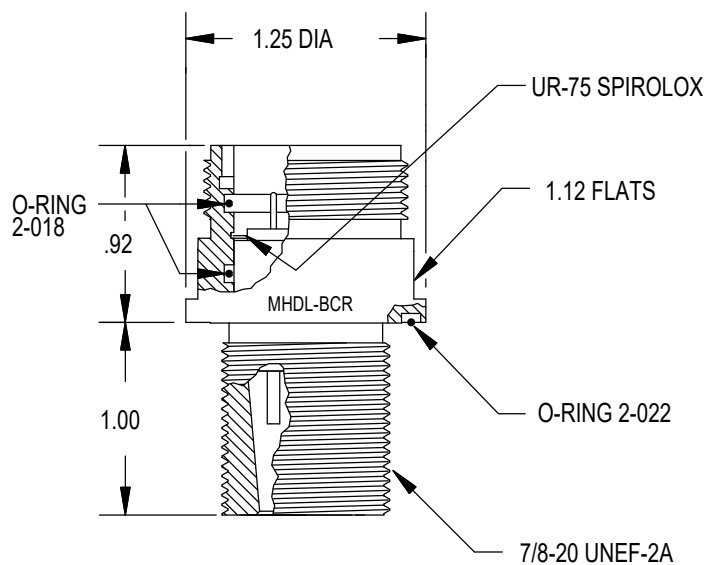
MOUNTING TORQUE FOR MHDG-BCR	not to exceed 150 in lbs	MATED PRESSURE RATING (psi)	5,000
DUMMY PLUG FOR MHDG-BCR/FCR/CCR	MHDG-SCP	DUMMY PLUG FOR MHDG-CCP	MHDG-SCR
* Please specify number of contacts. ** Internal assembly same as MHDG-BCR (facing page). *** Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter. **** OF adaptors should only be used with CCP-OF bodies. ***** O-Ring installation tool available - Contact factory for further details.			

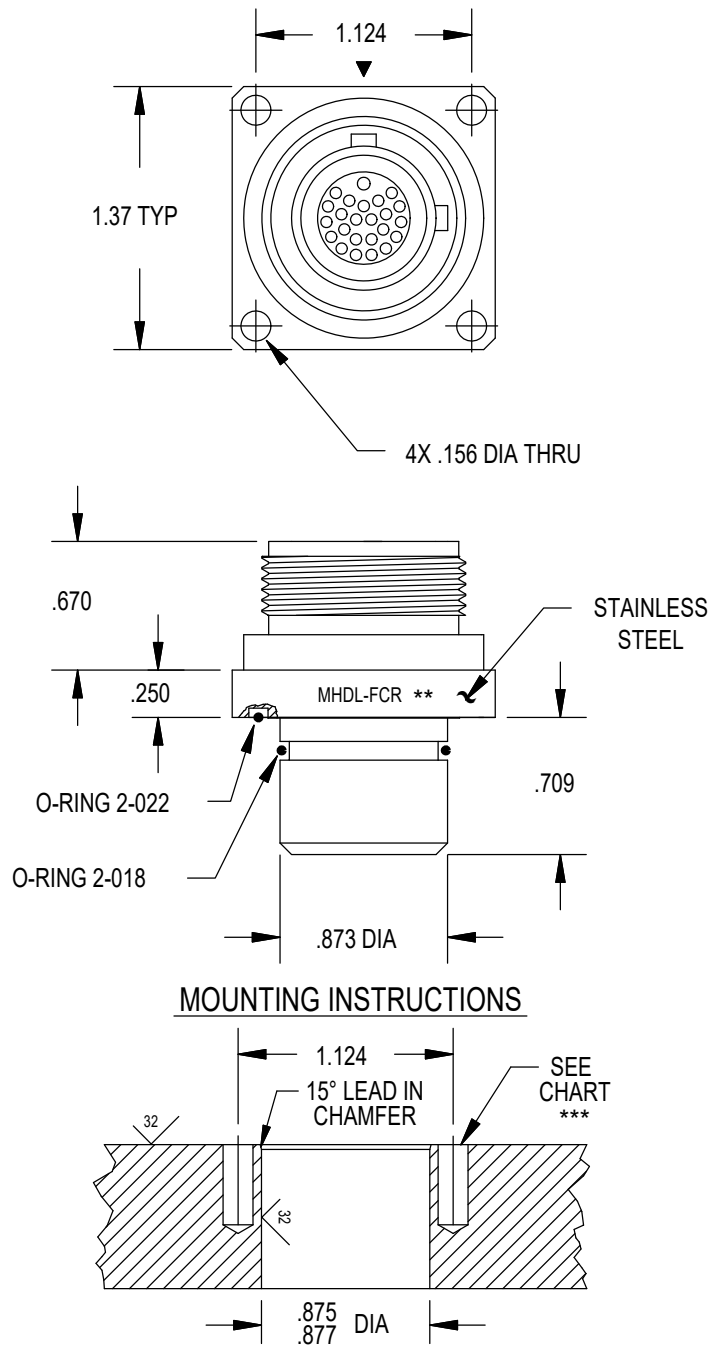
MHDL-OF

MINIATURE HIGH DENSITY SERIES - OIL FILLED



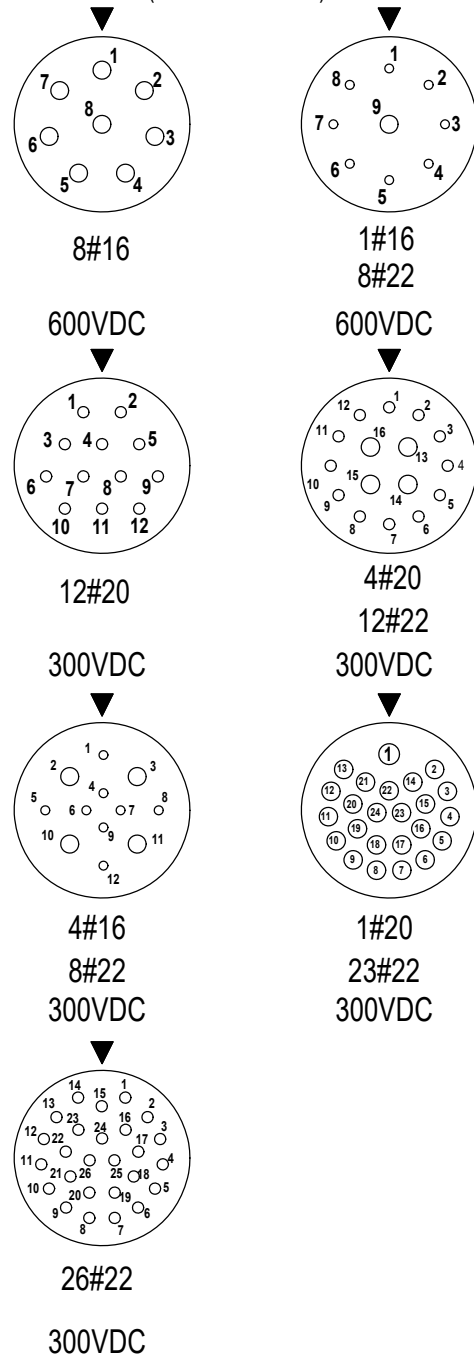
DETAIL A





MOUNTING INSTRUCTIONS

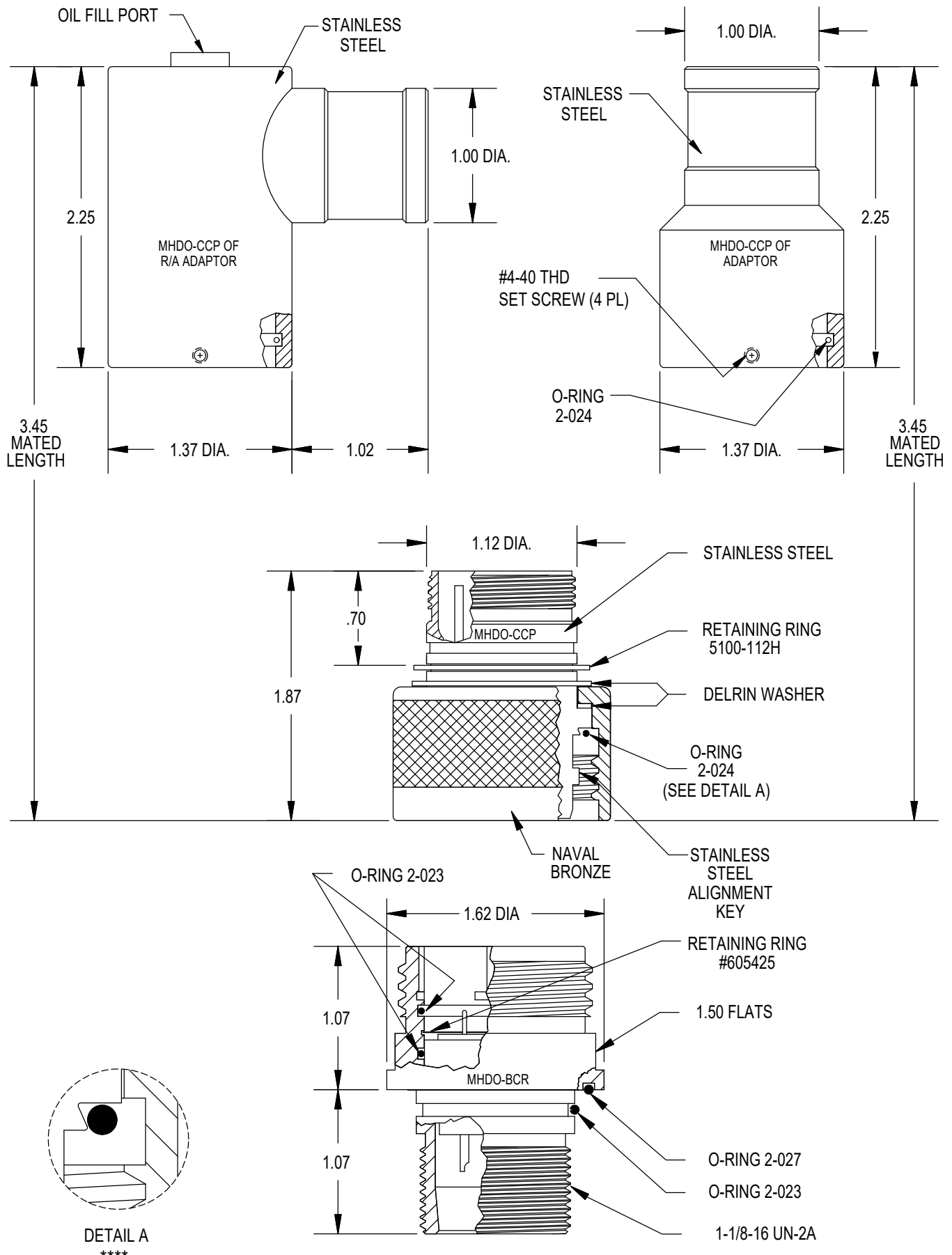
CONTACT CONFIGURATION (BCR FACE VIEW)

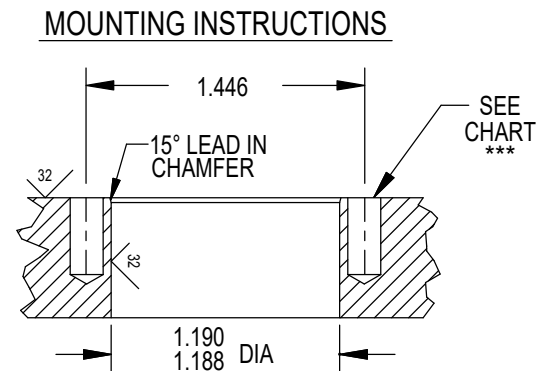
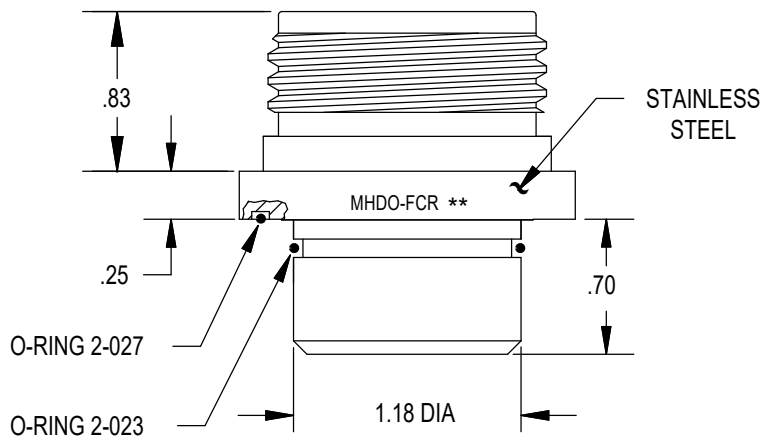
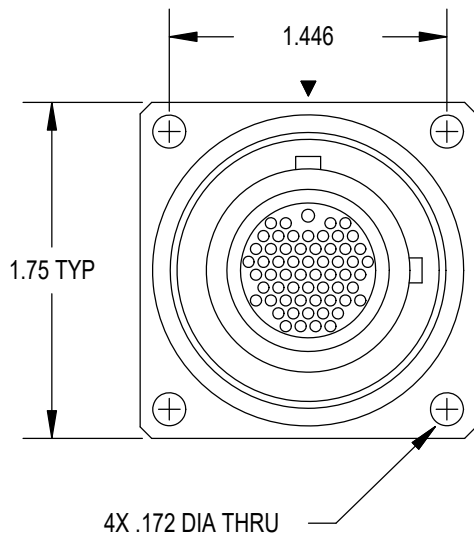


MOUNTING TORQUE FOR MHDL-BCR	not to exceed 200 in lbs	MATED PRESSURE RATING (psi)	5,000
DUMMY PLUG FOR MHDL-BCR/FCR/CCR	MHDL-SCP	DUMMY PLUG FOR MHDL-CCP	MHDL-SCR
* Please specify number of contacts. ** Internal assembly same as MHDL-BCR (facing page). *** Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter. **** O-Ring installation tool available - Contact factory for further details.			

MHDO-OF

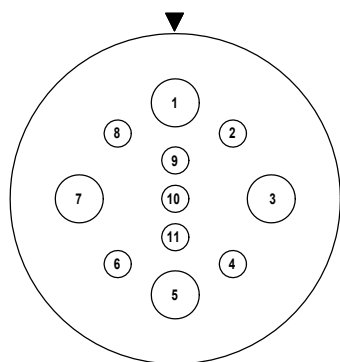
MINIATURE HIGH DENSITY SERIES - OIL FILLED



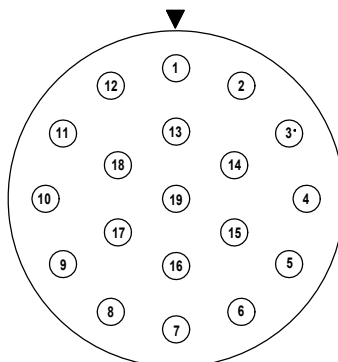


MOUNTING TORQUE FOR MHDO-BCR	not to exceed 200 in lbs	MATED PRESSURE RATING (psi)	5,000
DUMMY PLUG FOR MHDO-BCR/FCR/CCR	MHDO-SCP	DUMMY PLUG FOR MHDO-CCP	MHDO-SCR
* Please specify number of contacts. ** Internal assembly same as MHDO-BCR (facing page). *** Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter. **** O-Ring installation tool available - Contact factory for further information.			

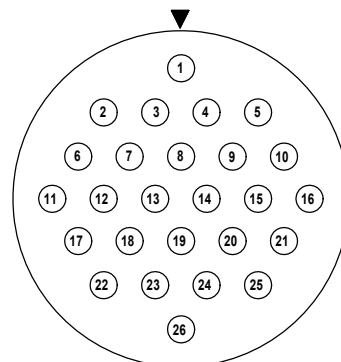
CONTACT CONFIGURATION (BCR FACE VIEW)



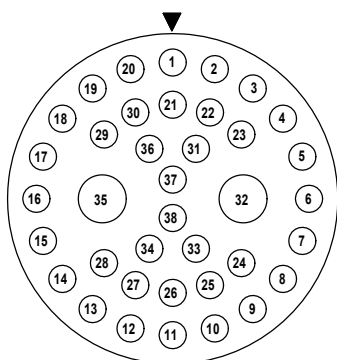
7#22
4#10
600VDC



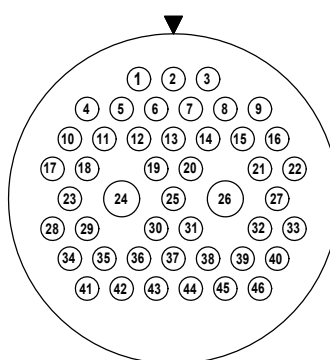
19#16
600VDC



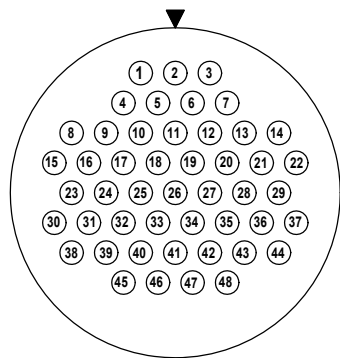
26#20
450VDC



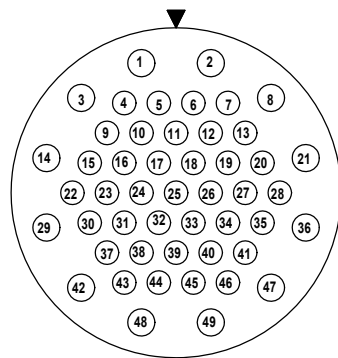
2#10
36#22
300VDC



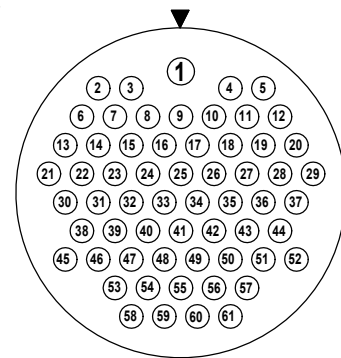
44#22
2#16
300VDC



48#22
300VDC



12#20
37#22
300VDC



1#20
60#22
300VDC

DESCRIPTION AND
MATERIAL

- Metal to metal key for position alignment.
- 316 stainless steel passivated per QQ-P-35 Type VI with naval bronze engaging nut.
- Special alloys are available upon request (contact factory).
- 8 contacts (#22) for 4 twisted pairs.
- Contacts are gold plated per MIL-G-45204.
- Working voltage up to 230 VDC.
- 10,000 PSI in mated condition (higher pressure rating available using special alloy metal shell; please contact factory).
- NET-CCR/CCP connectors are overmolded with polyurethane.

CABLE

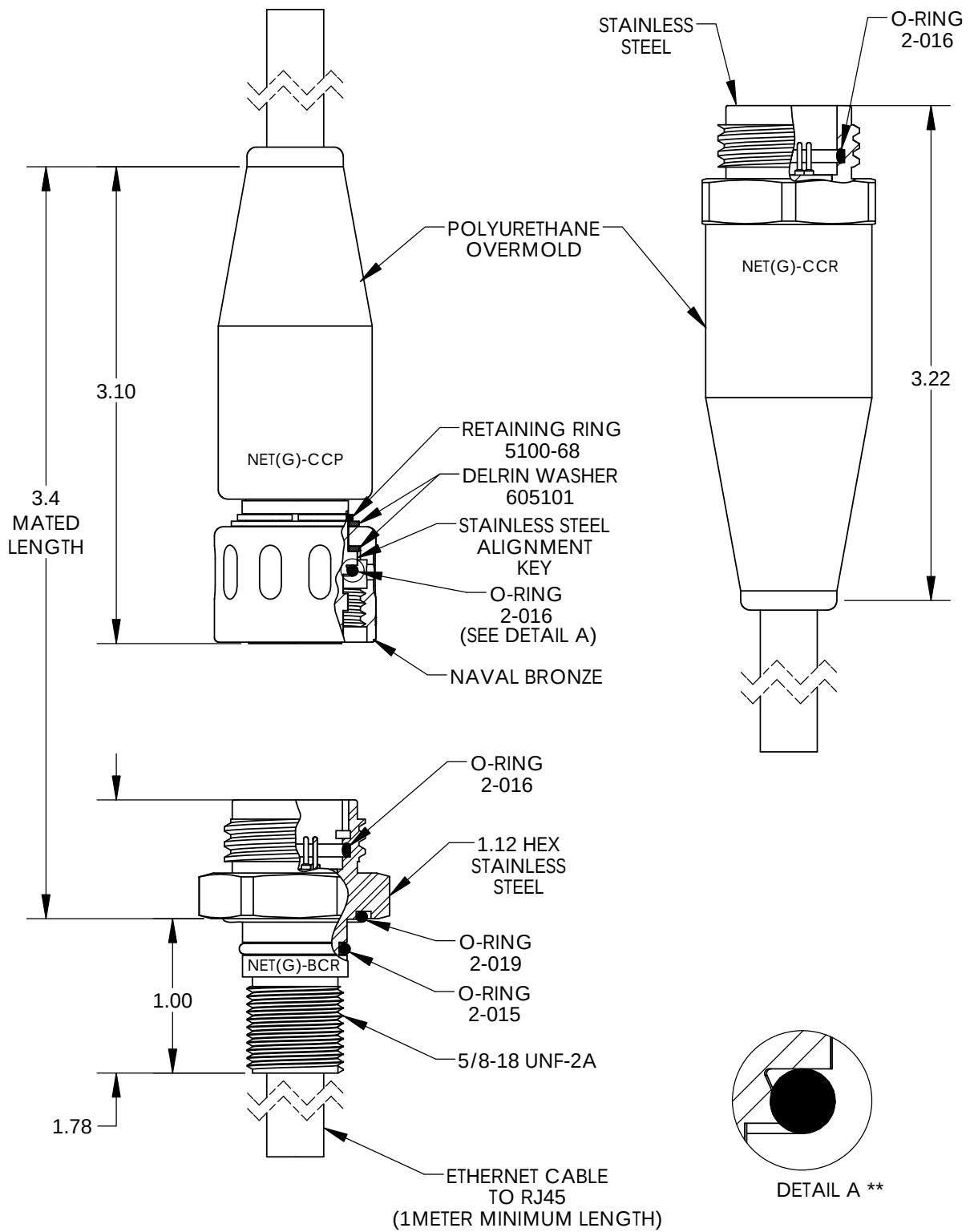
- Connector's amperage and voltage is limited by the amperage and voltage ratings of the cable to which the connector is molded.
- This series is molded to Teledyne Impulse qualified cable (maximum length 70 m for 1 Gbit/s transmissions). Customer specified cables can be used, but would require testing to verify data rate.

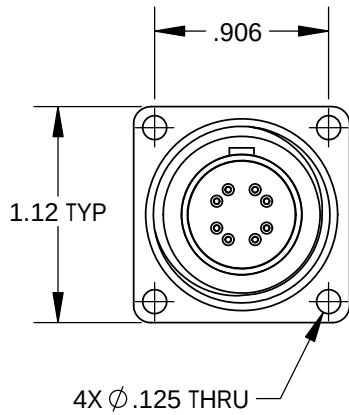
USES

- ROV applications.
- Signal telemetry.
- Hazardous environment.

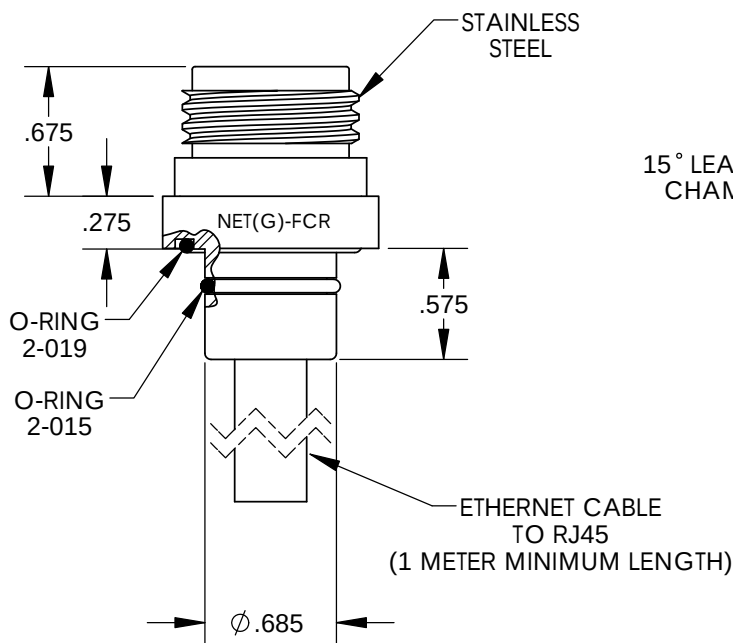
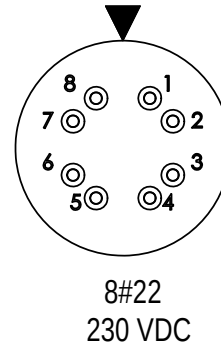
GUIDELINES

- FCR is mounted by use of four equally spaced bolts around the flange surface.
- FCR is used in place of the BCR when the use of a bulkhead nut and washer is impractical.
- Mounting torque should not exceed 150 in lbs. for this series.
- All mounting surfaces require a 32 finish.
- Align indexes.
- Keep o-ring grooves clean.
- Avoid o-ring cuts and nicks.
- Lubricate o-rings with Dow Corning #111 Valve Lubricant or equivalent.
- Replace o-rings when re-using connectors.
- Elastomers can be seriously degraded if exposed to direct sunlight or high ozone levels for extended periods of time.

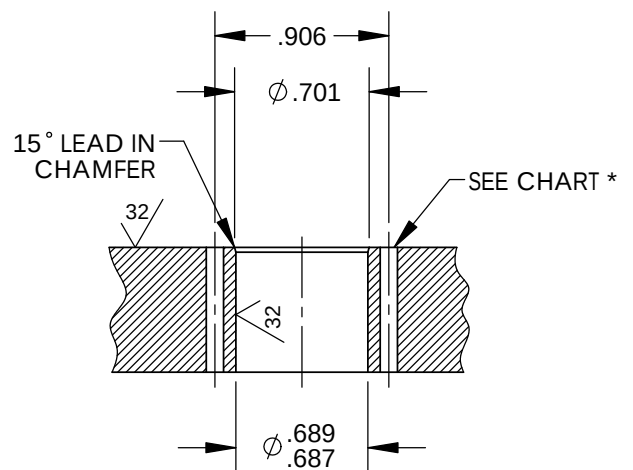




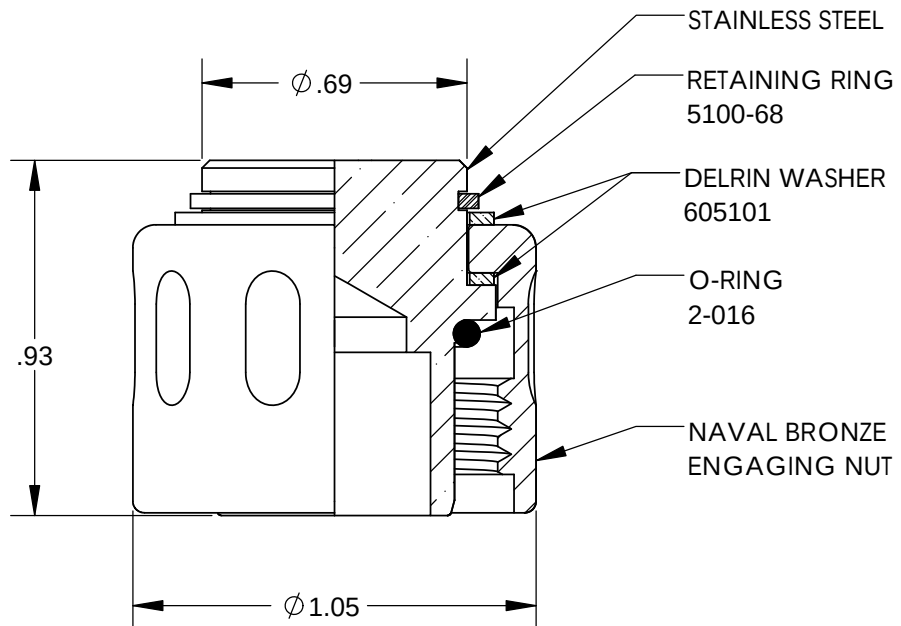
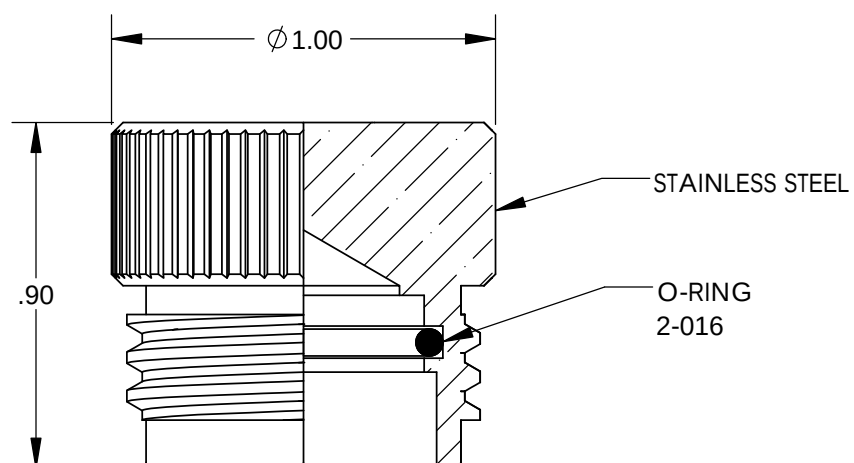
CONTACT CONFIGURATION (BCR FACE VIEW)

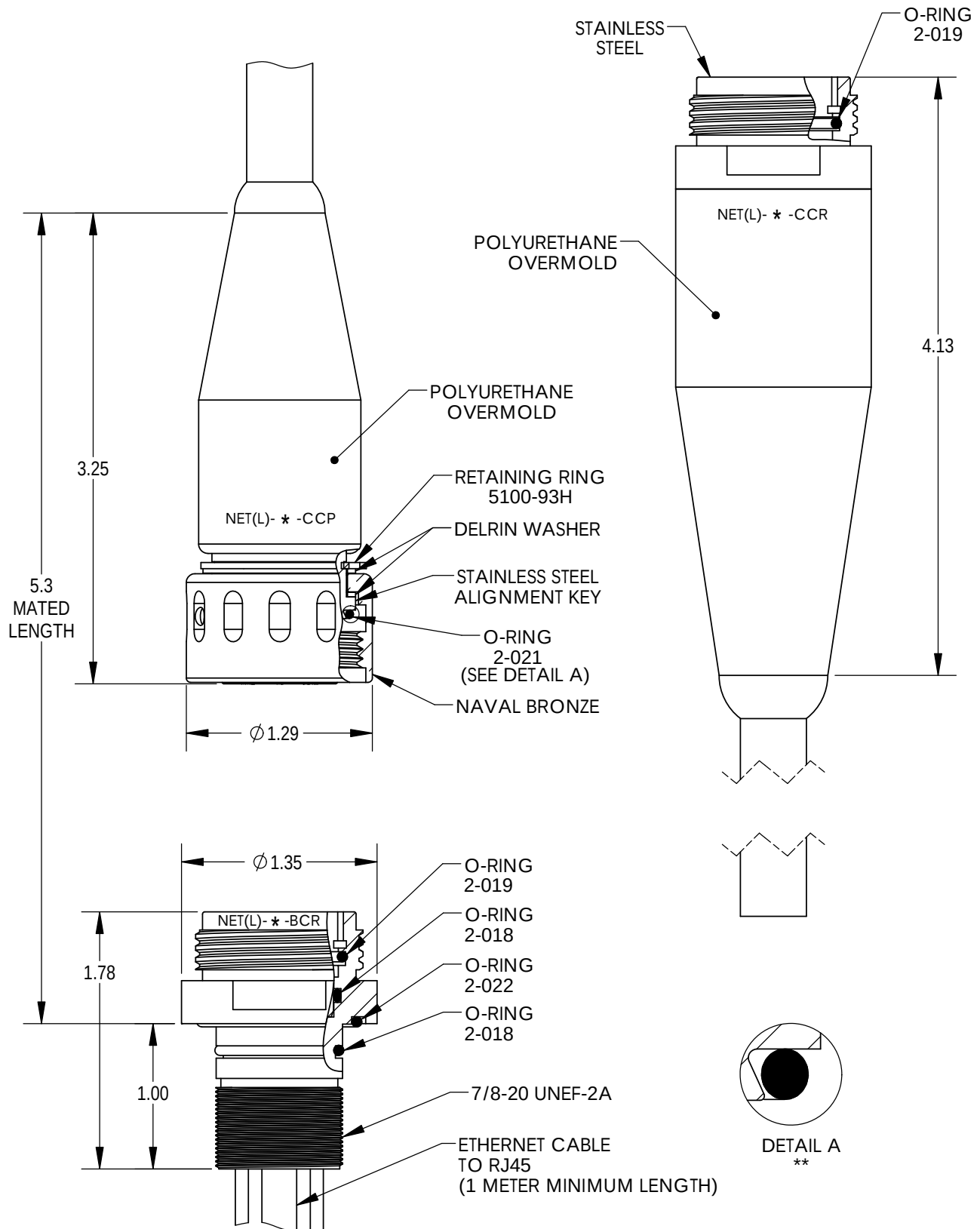


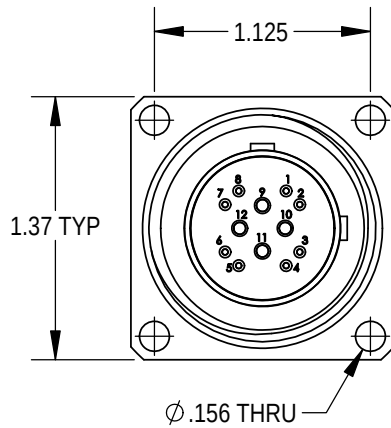
MOUNTING INSTRUCTIONS



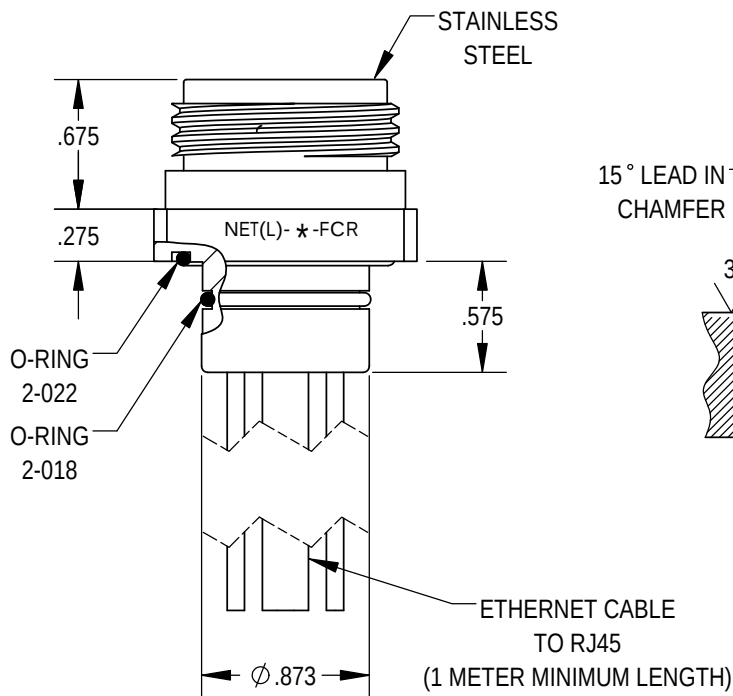
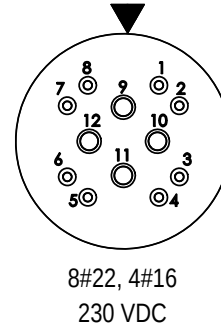
MOUNTING TORQUE FOR NET(G)-BCR	not to exceed 150 in lbs	MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR NET(G)-BCR/FCR/CCR	NET(G)-SCP	DUMMY PLUG FOR NET(G)-CCP	NET(G)-SCR
NOTE: * Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter. ** O-Ring installation tool available - contact factory for further details. *** Total assembly length not to exceed 70 meters for 1 Gbit transmission.			

SCPSCR

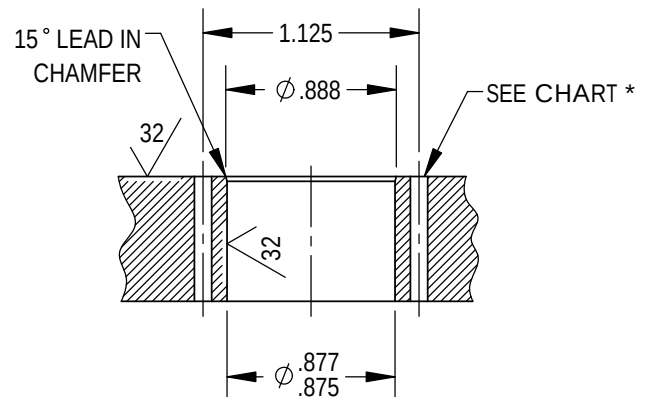




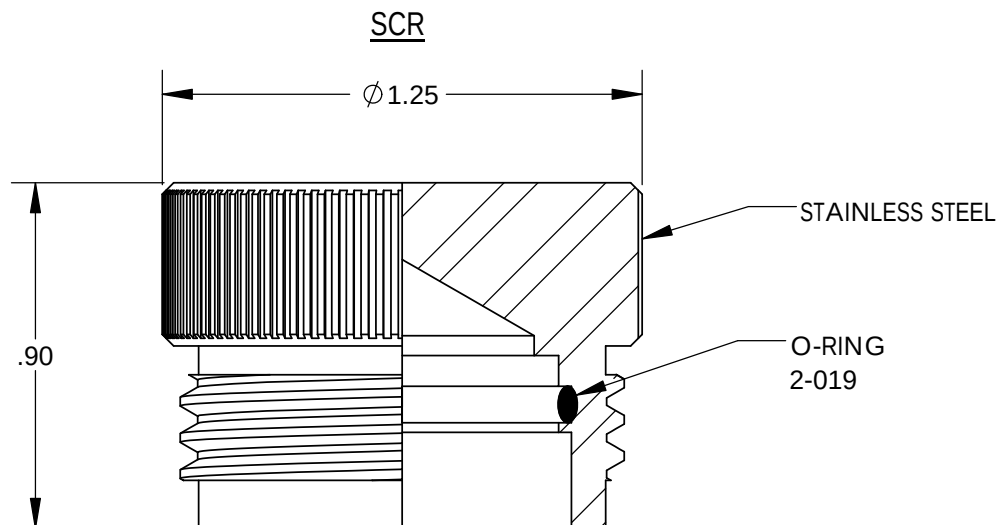
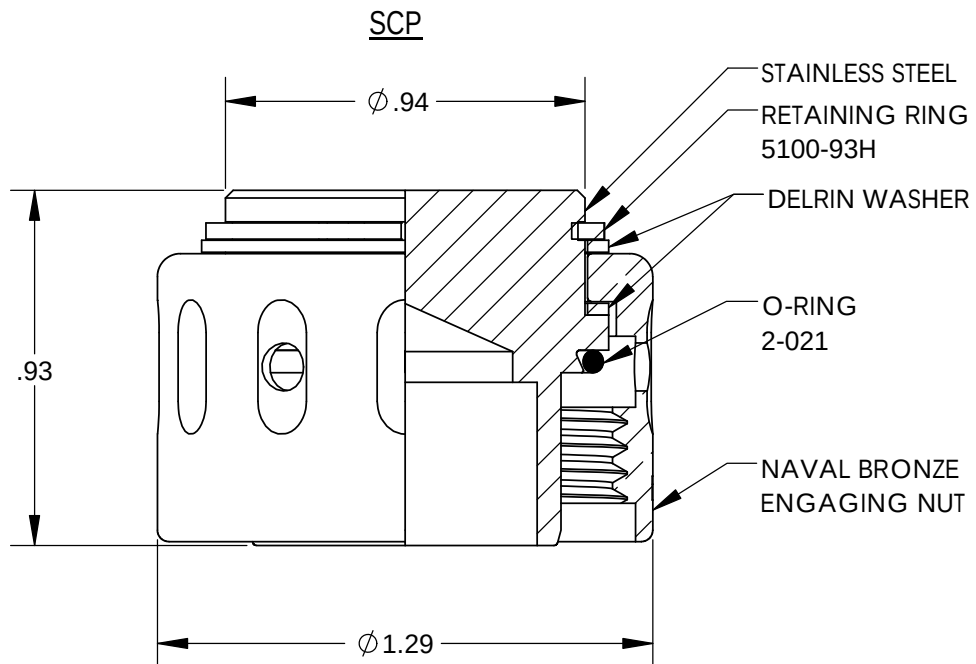
CONTACT CONFIGURATION (BCR FACE VIEW)



MOUNTING INSTRUCTIONS

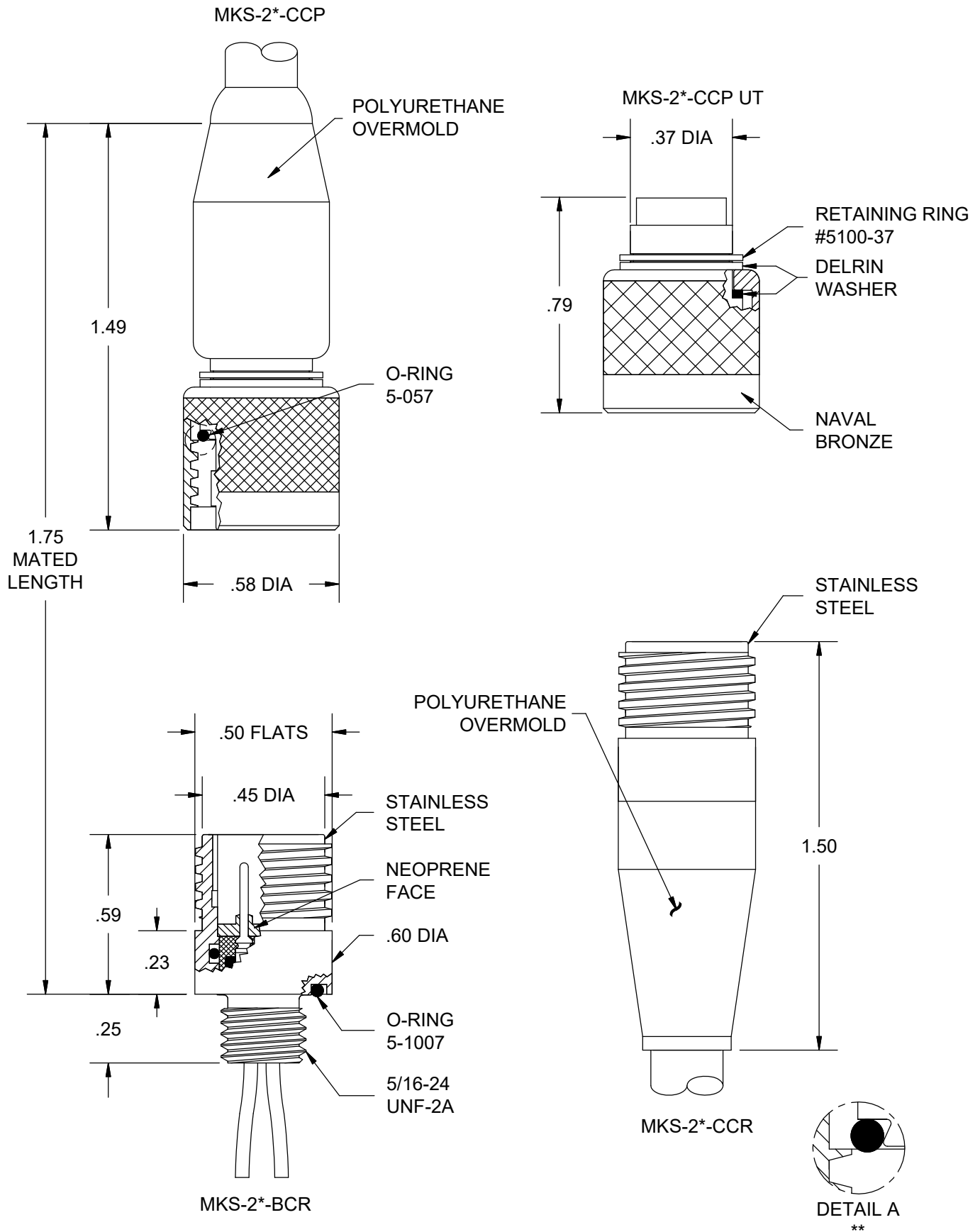


MOUNTING TORQUE FOR NET(L)-BCR	not to exceed 150 in lbs	MATED PRESSURE RATING (psi)	10,000
DUMMY PLUG FOR NET(L)-BCR/FCR/CCR	NET(L)-SCP	DUMMY PLUG FOR NET(L)-CCP	NET(L)-SCR
NOTE: * Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter. ** O-Ring installation tool available - contact factory for further details. *** Total assembly length not to exceed 70 meters for 1 Gbit transmission.			

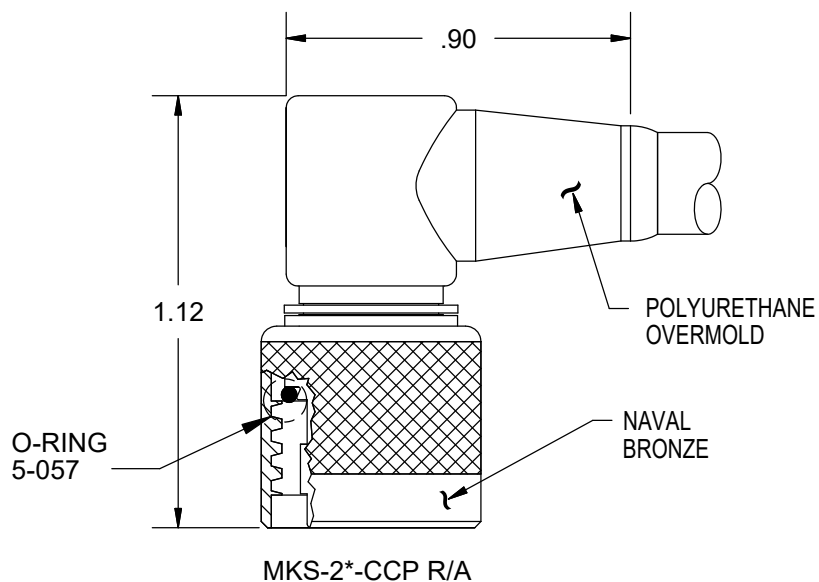
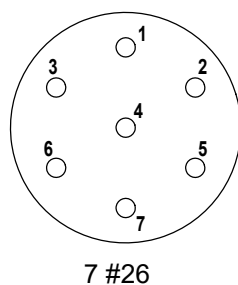
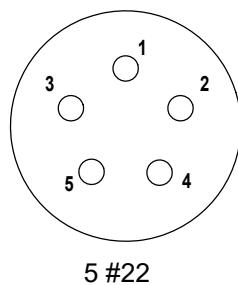


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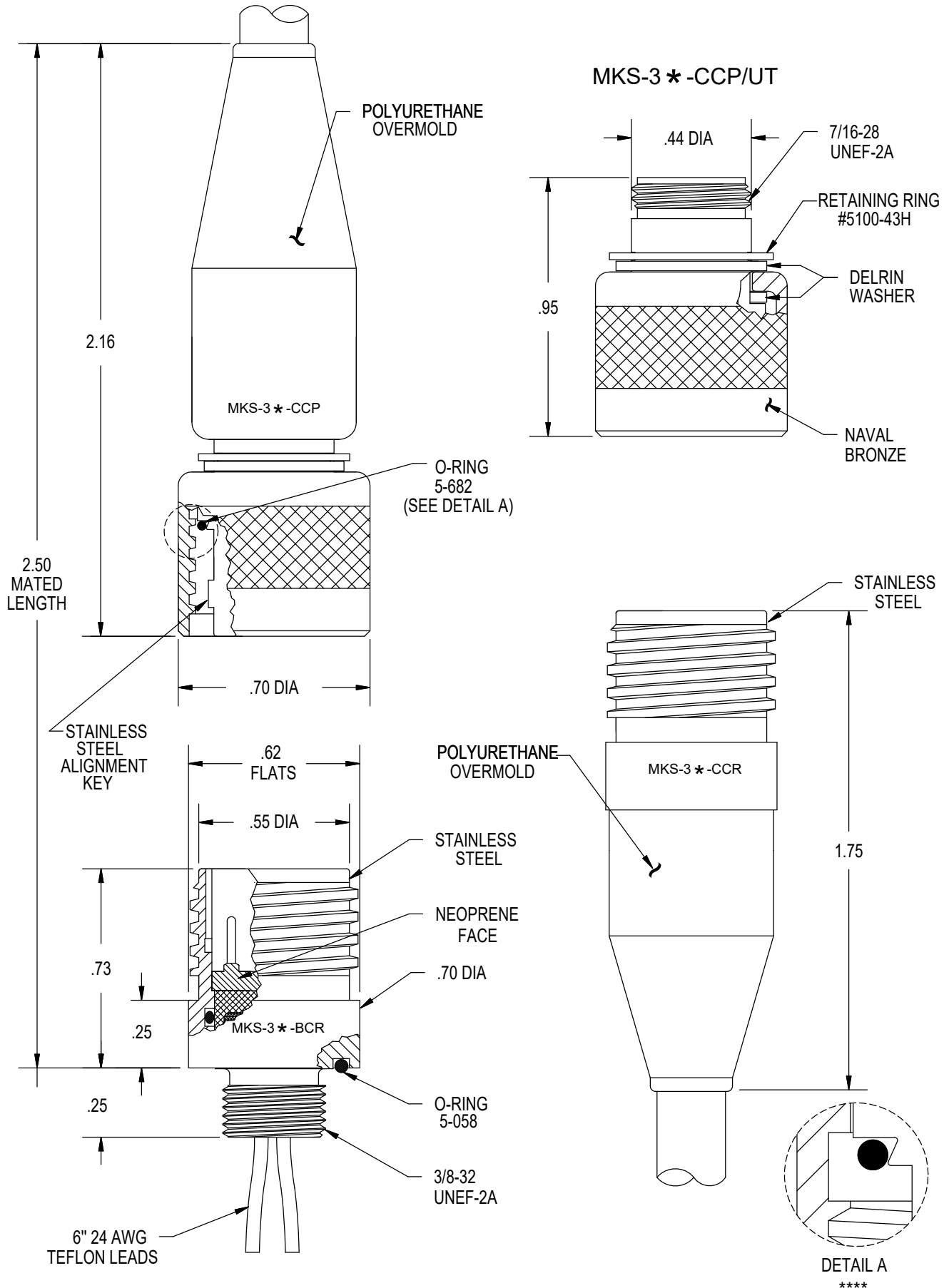
DESCRIPTION AND MATERIAL	• Metal to metal key for positive alignment. • 316 Stainless Steel passivated per QQ-P-35 Type VI with naval bronze engaging nut. • Special alloys are available upon request (contact factory). • 10,000 PSI in mated condition. • Bulkhead connector design open face pressure rated to 5000 PSI. • Contacts gold plated per MIL-G-45204. • Engaging nuts have Acme threads for rugged applications and for quick connection. • Working voltage - 300 VDC
CABLE	• CCP is not terminated to cable unless specified at the time of order • BCR has teflon leads, Type E per MIL 16878/4
USES	• Light and Heavy Duty applications. • Hazardous environment. • Power Transmission. • Signal Telemetry. • ROV applications.
GUIDELINES	• All mounting and sealing surfaces require a 32 finish. • Lubricate mating surfaces with 3M Silicone Spray or equivalent, DO NOT grease! Connectors must be lubricated on a regular basis. • Lubricate o-rings with Dow Corning #111 Valve Lubricant or equivalent. • Use Dust Caps and keep connectors clean to prevent damage in storage and service. • Keep o-ring grooves clean and avoid cuts, nicks and tears on rubber surfaces. • Elastomers can be seriously degraded if exposed to direct sunlight or high ozone levels for extended periods of time. • Clean plugs and receptacles with soap and fresh water. Rinse out with alcohol, allowing connector to air dry. • Replace o-rings when re-using connectors.



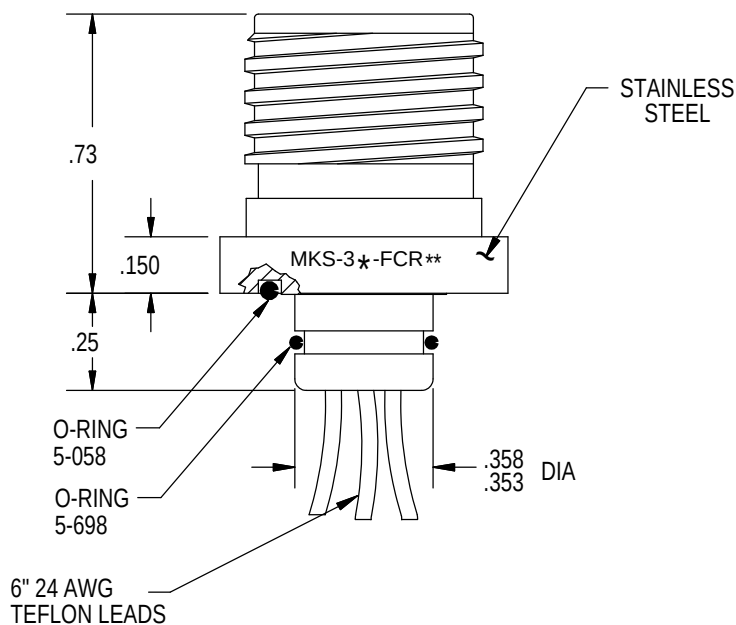
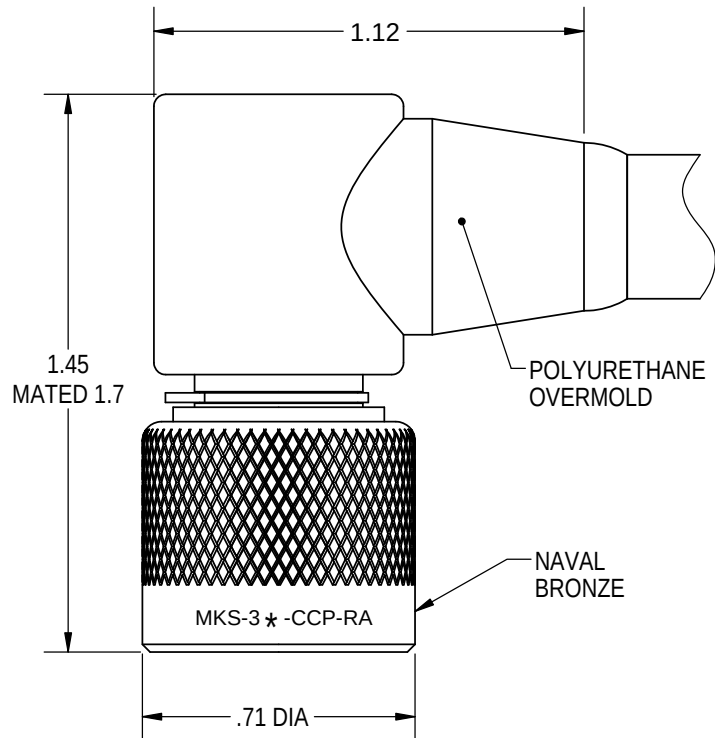
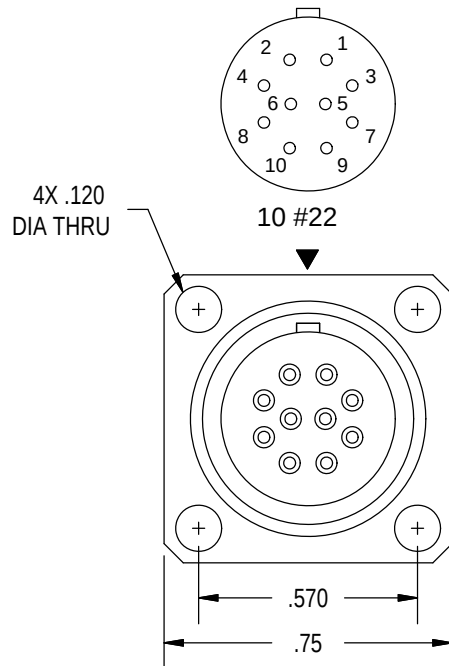
CONTACT CONFIGURATION
(BCR FACE VIEW)



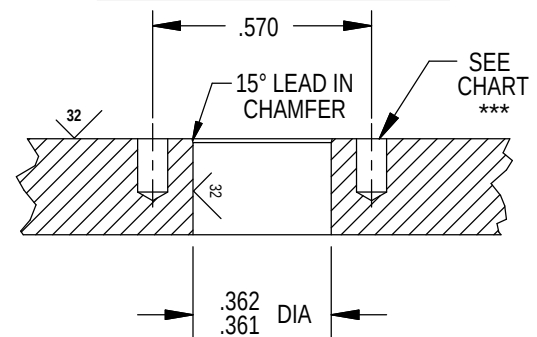
MOUNTING TORQUE FOR BCR	not to exceed 50 in-lbs	MATED PRESSURE RATING (psi)	10,000
See page 95 80 for SCP/SCR information			
NOTE: CCP is not terminated to cable unless specified. * Please specify number of contacts. ** O-Ring installation tool available - Contact factory for further details.			



CONTACT CONFIGURATION (BCR FACE VIEW)



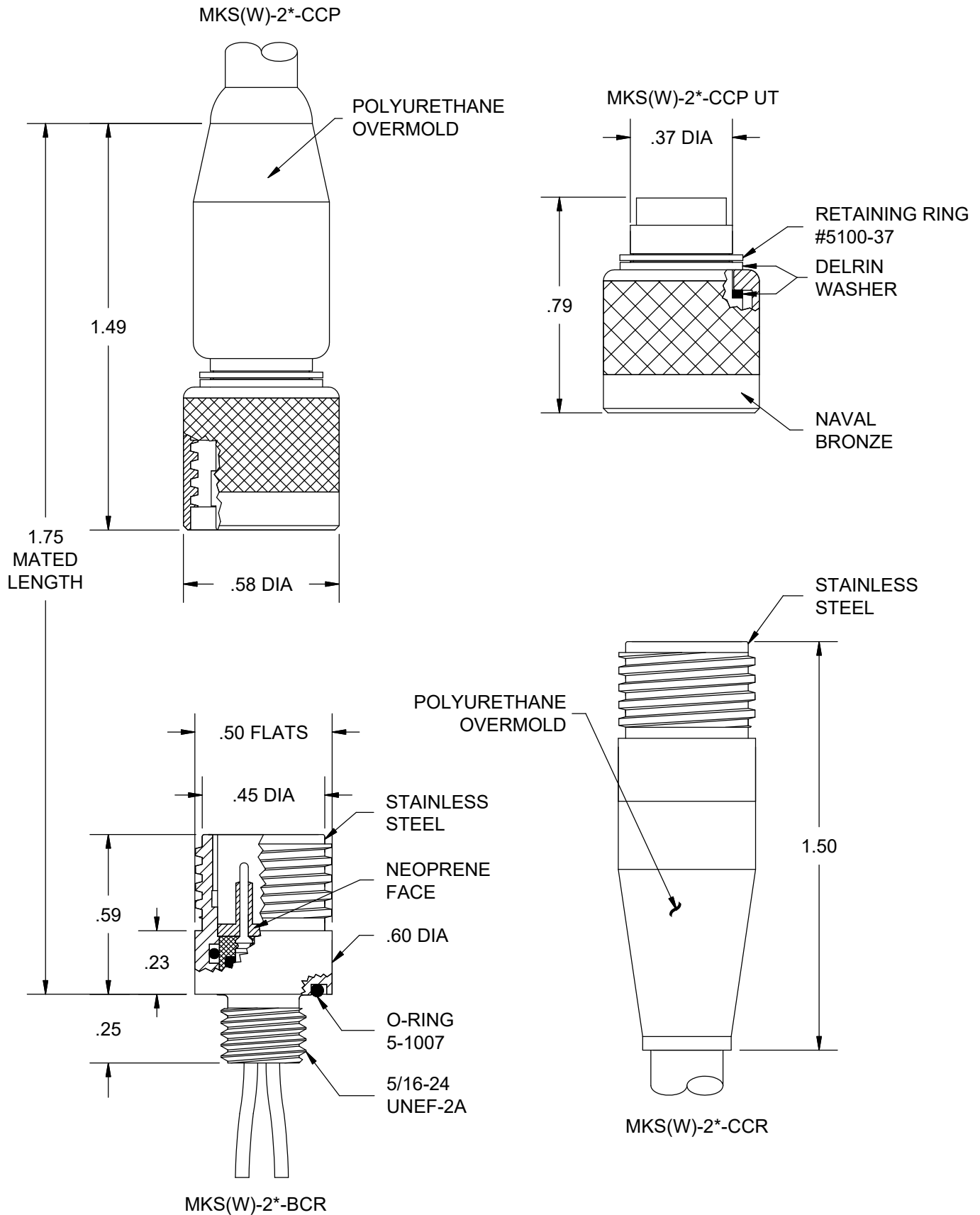
MOUNTING INSTRUCTIONS



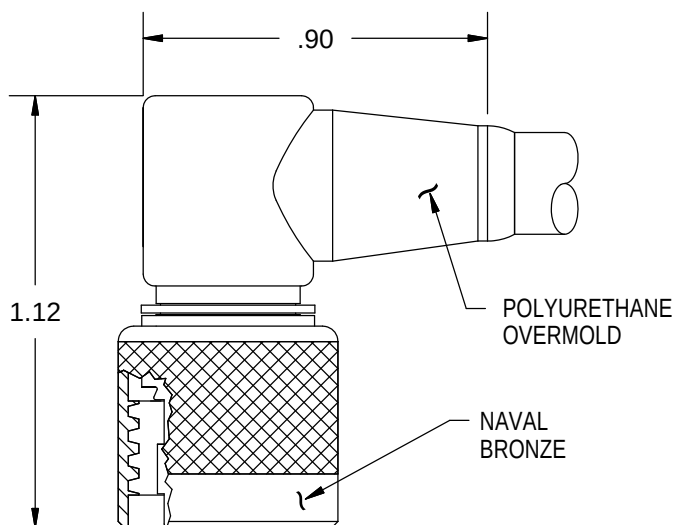
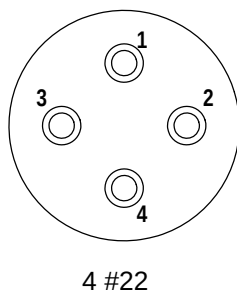
MOUNTING TORQUE FOR BCR	not to exceed 50 in lbs	MATED PRESSURE RATING (psi)	10,000
See pg. 9580 for SCP/SCR information			
NOTE: CCP is not terminated to cable unless specified. * Please specify number of contacts. ** Internal assembly same as MKS-3 *-BCR (facing page). *** Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter. **** O-Ring installation tool available - Contact factory for further details.			

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DESCRIPTION AND MATERIAL	• Splash Mate. • Metal to metal key for positive alignment. • 316 Stainless Steel passivated per QQ-P-35 Type VI with naval bronze engaging nut. • Special alloys are available upon request (contact factory). 10,000 • PSI in mated condition. • Bulkhead connector design open face pressure rated to 5000 PSI. • Contacts gold plated per MIL-G-45204. • Engaging nuts have Acme threads for rugged applications and for quick connection. • Working voltage for MKS-200/300/3L00/400-BCR/FCR/CCP is 300 VDC. • Working voltage for MKS-500/700/900-BCR/FCR/CCP is 600 VDC. • Individual contact sealing allows surface mating when wet.
CABLE	• CCP is not terminated to cable unless specified at the time of order. • MKS-200/300/3L00/400-BCR/FCR has Type E leads per MIL 16878/4. • MKS-500/700/900-BCR/FCR has Type EE leads per MIL 16878/5.
USES	• Light and Heavy Duty applications. • Hazardous environment. • Power Transmission. • Signal Telemetry. • ROV applications.
GUIDELINES	• All mounting and sealing surfaces require a 32 finish. • Lubricate mating surfaces with 3M Silicone Lubricant or equivalent, DO NOT grease! Connectors must be lubricated on a regular basis. • Lubricate o-rings with Dow Corning #111 Valve Lubricant or equivalent. • Use Dust Caps and keep connectors clean to prevent damage in storage and service. • Keep o-ring grooves clean and avoid cuts, nicks and tears on rubber surfaces. • Elastomers can be seriously degraded if exposed to direct sunlight or high ozone levels for extended periods of time. • Clean plugs and receptacles with soap and fresh water. Rinse out with alcohol, allowing connector to air dry. • Replace o-rings when re-using connectors.



CONTACT CONFIGURATION
(BCR FACE VIEW)

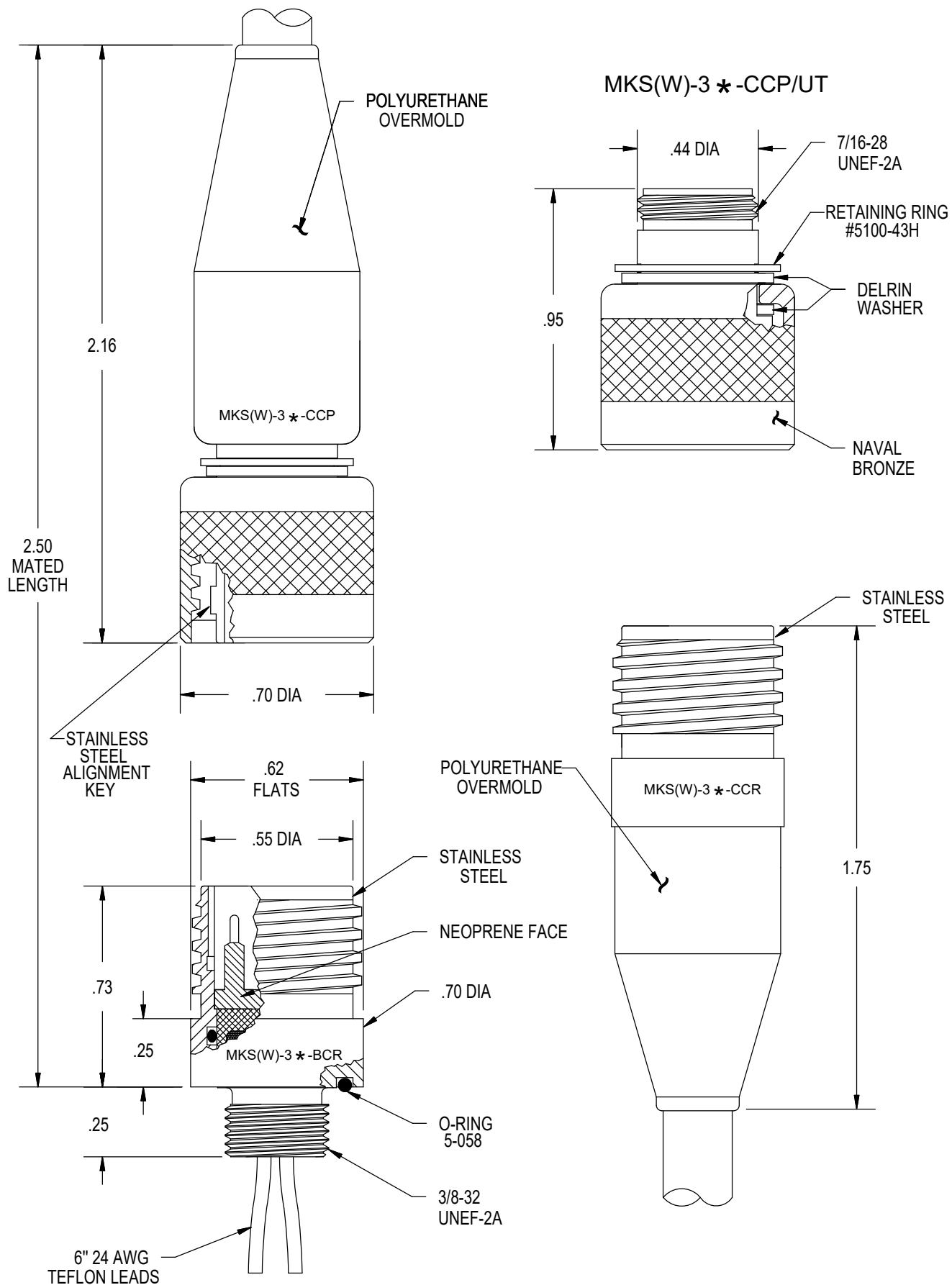


MKS(W)-2*-CCP R/A

MOUNTING TORQUE FOR BCR	not to exceed 50 in-lbs	MATED PRESSURE RATING (psi)	10,000
See page 95 80 for SCP/SCR information			
NOTE: CCP is not terminated to cable unless specified. * Please specify number of contacts. ** O-Ring installation tool available - Contact factory for further details.			

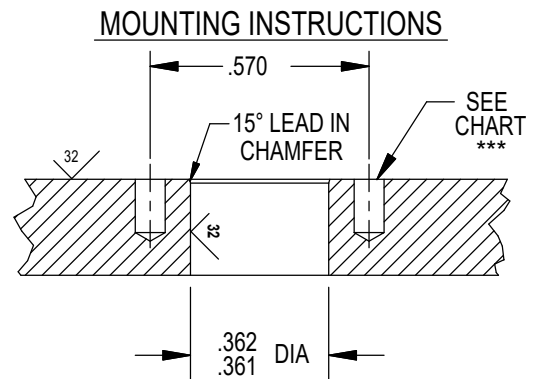
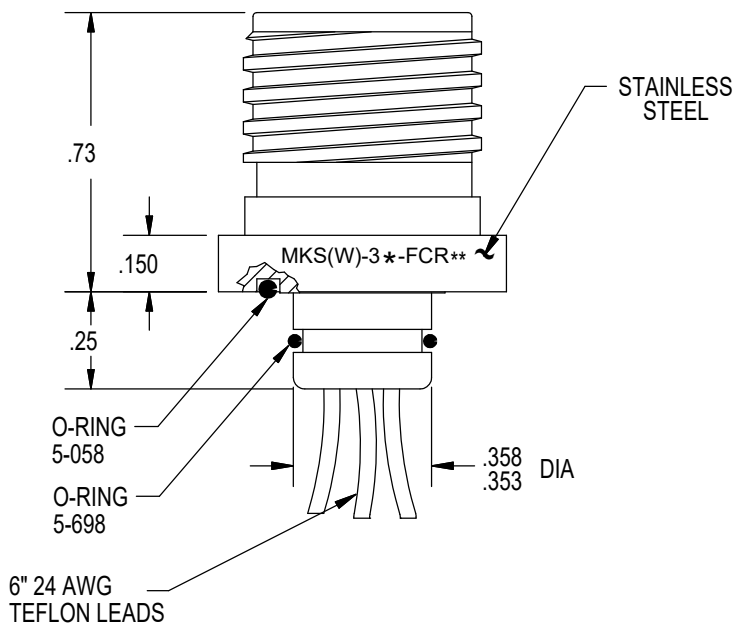
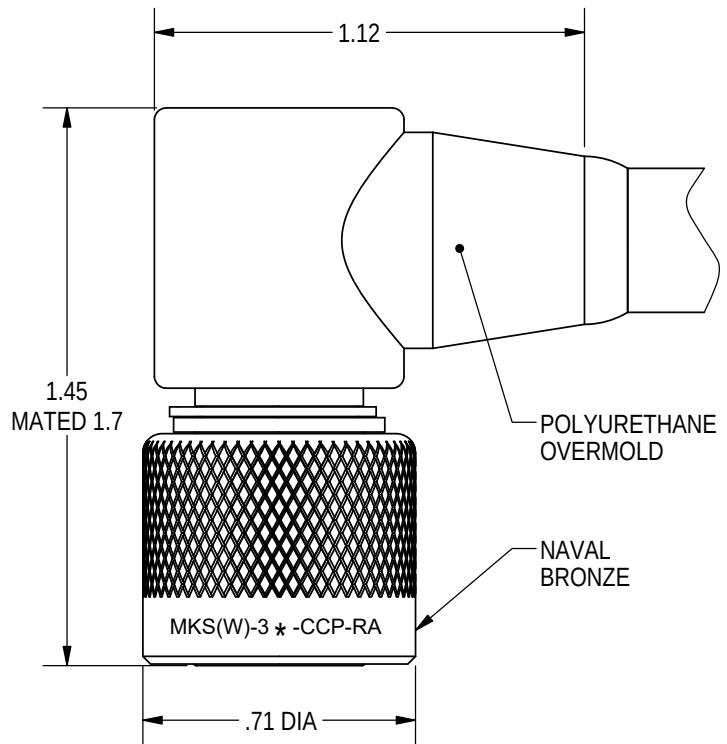
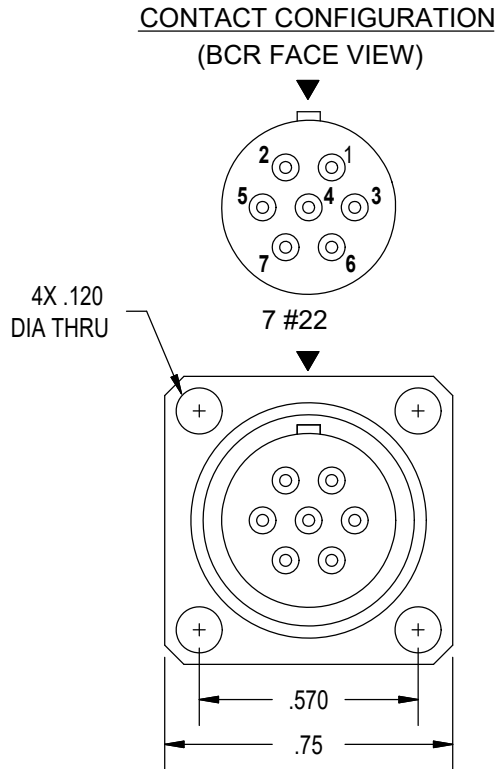
MKS(W)-3

METAL KEY SPLASH MATE RUBBER MOLDED
TITAN™ SERIES



MKS(W)-3

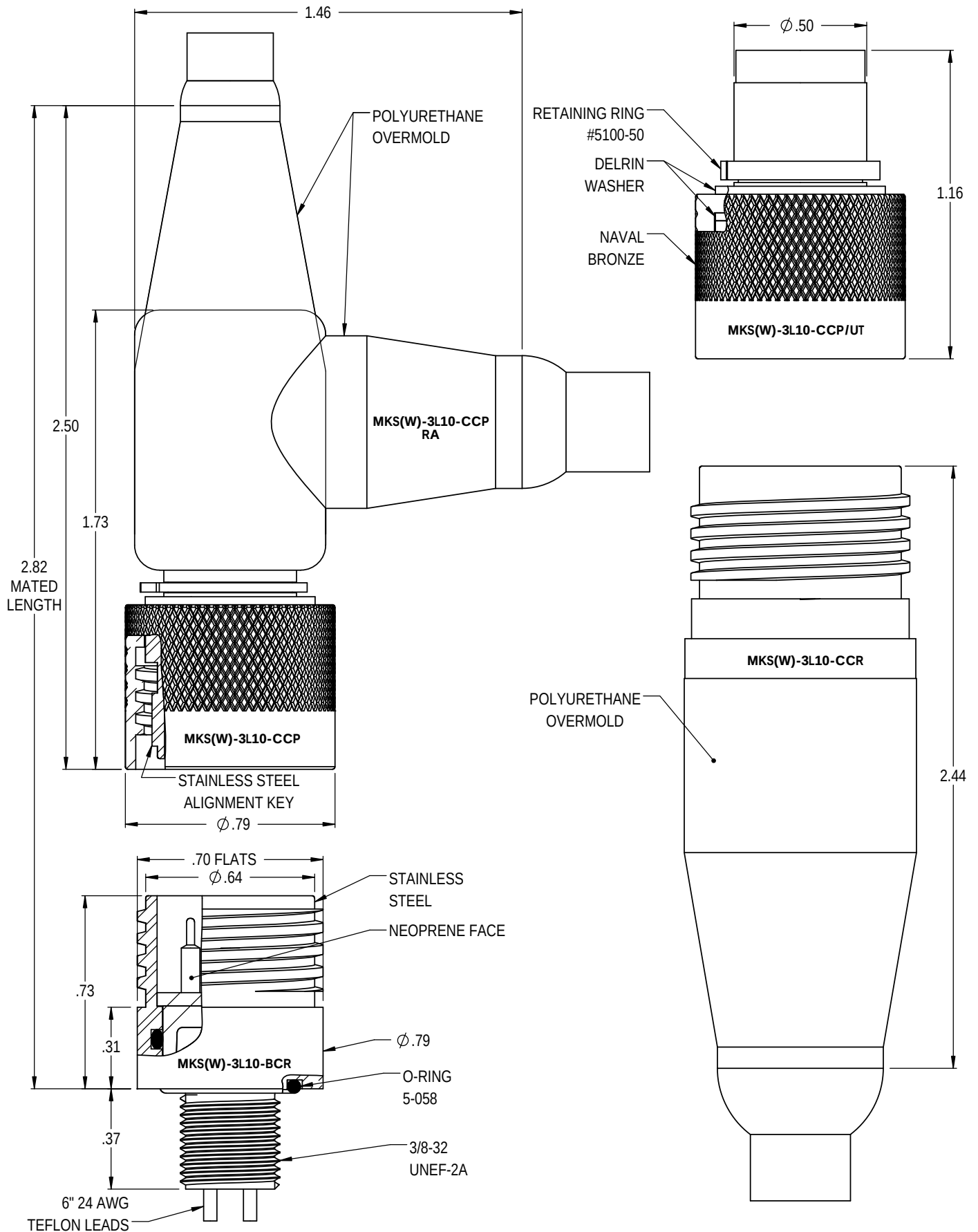
METAL KEY SPLASH MATE RUBBER MOLDED
TITAN™ SERIES



MOUNTING TORQUE FOR BCR	not to exceed 50 in lbs	MATED PRESSURE RATING (psi)	10,000
See pg. 9580 for SCP/SCR information			
NOTE: CCP is not terminated to cable unless specified. * Please specify number of contacts. ** Internal assembly same as MKS(W)-3* -BCR (facing page). *** Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter.			

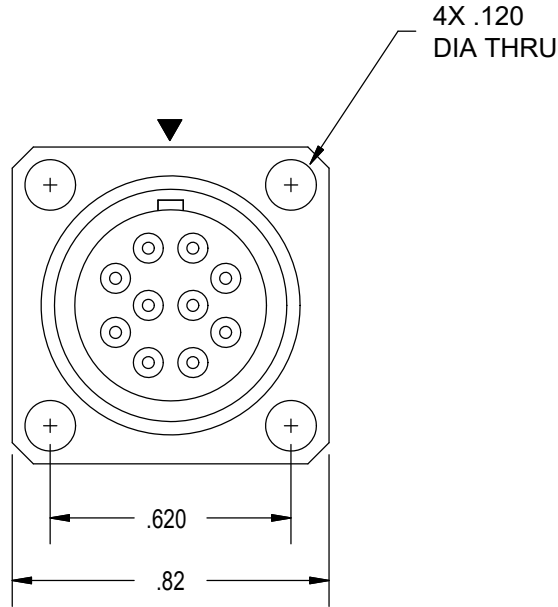
MKS(W)-3L10

METAL KEY SPLASH MATE RUBBER MOLDED
TITAN™ SERIES

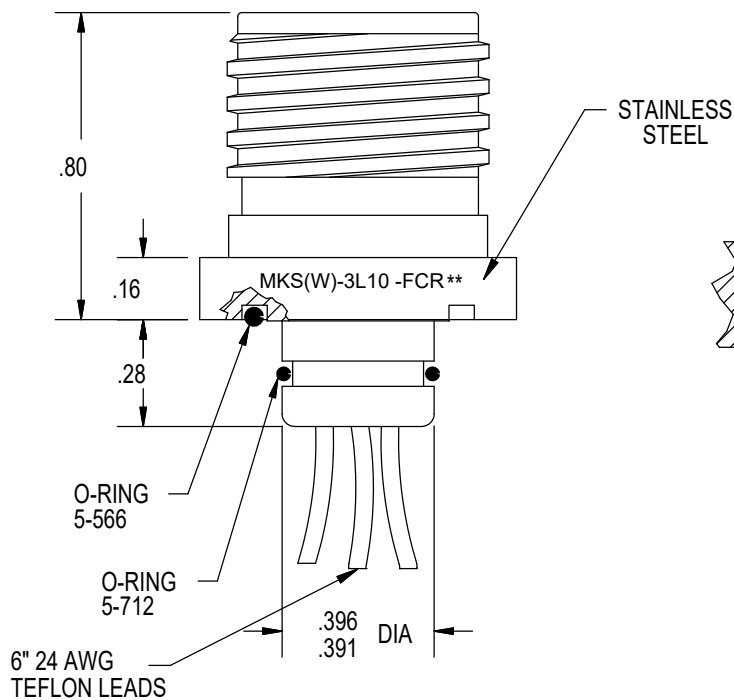
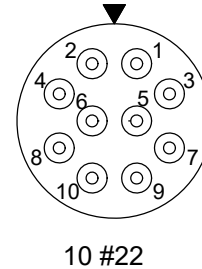


MKS(W)-3L10

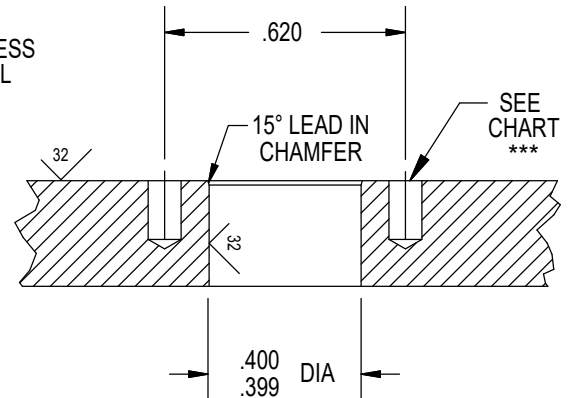
METAL KEY SPLASH MATE RUBBER MOLDED
TITAN™ SERIES



CONTACT CONFIGURATION (BCR FACE VIEW)



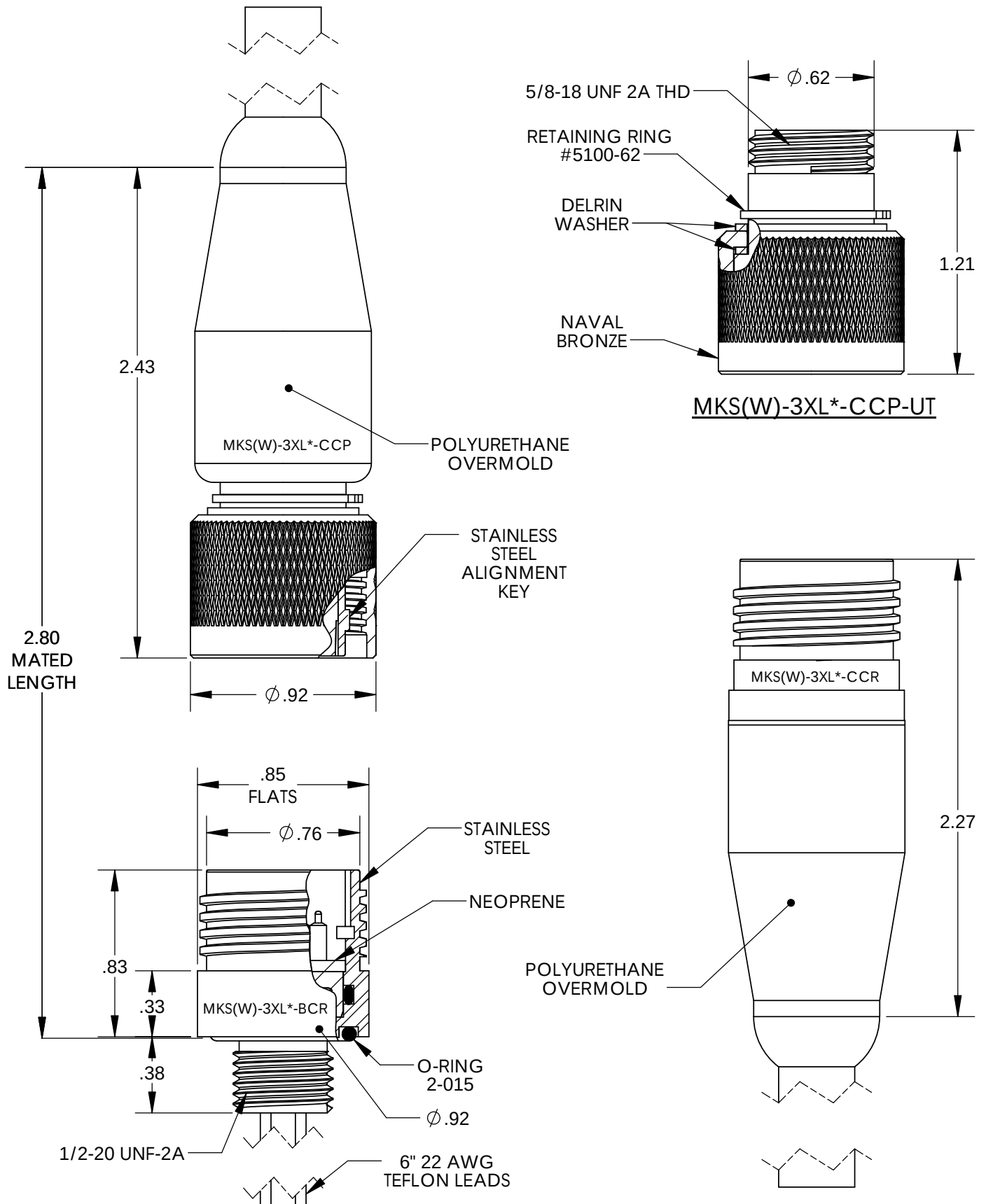
MOUNTING INSTRUCTIONS



MOUNTING TORQUE FOR BCR	not to exceed 50 in lbs	MATED PRESSURE RATING (psi)	10,000
NOTE: CCP is not terminated to cable unless specified. * Please specify number of contacts. **Internal assembly same as MKS(W)-3L10-BCR (facing page). *** Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter.			

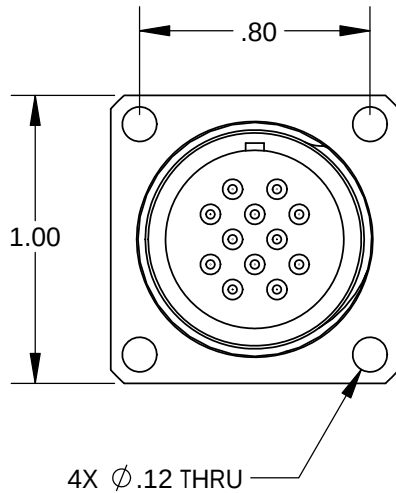
MKS(W)-3XL

METAL KEY SPLASH MATE RUBBER MOLDED
TITAN™ SERIES

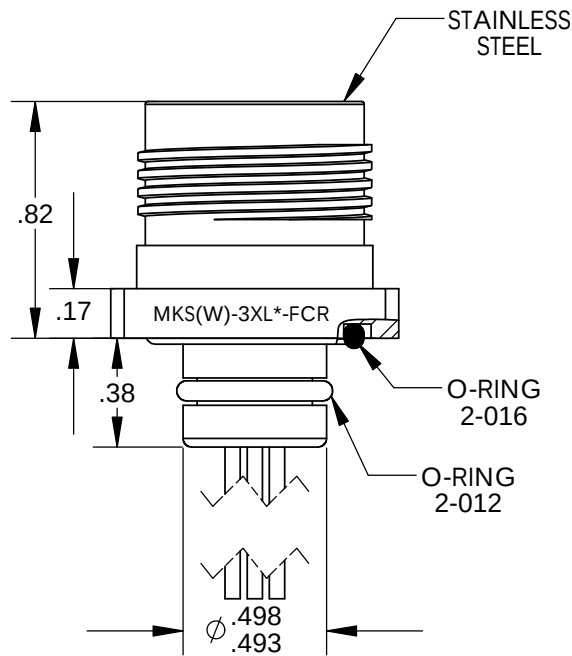
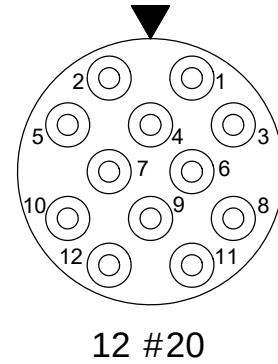


MKS(W)-3XL

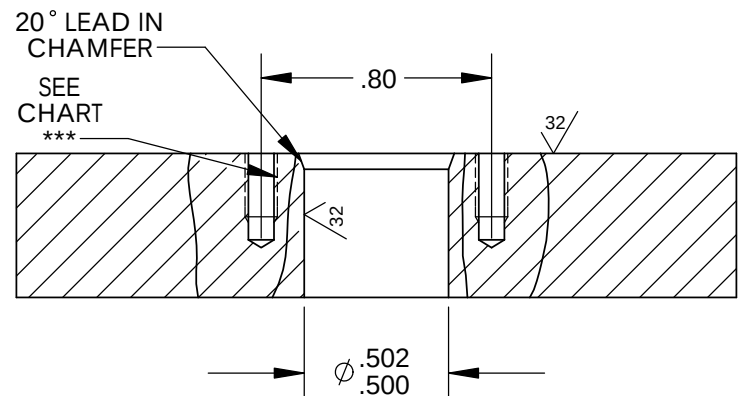
METAL KEY SPLASH MATE RUBBER MOLDED
TITAN™ SERIES



CONTACT CONFIGURATION (BCR FACE VIEW)



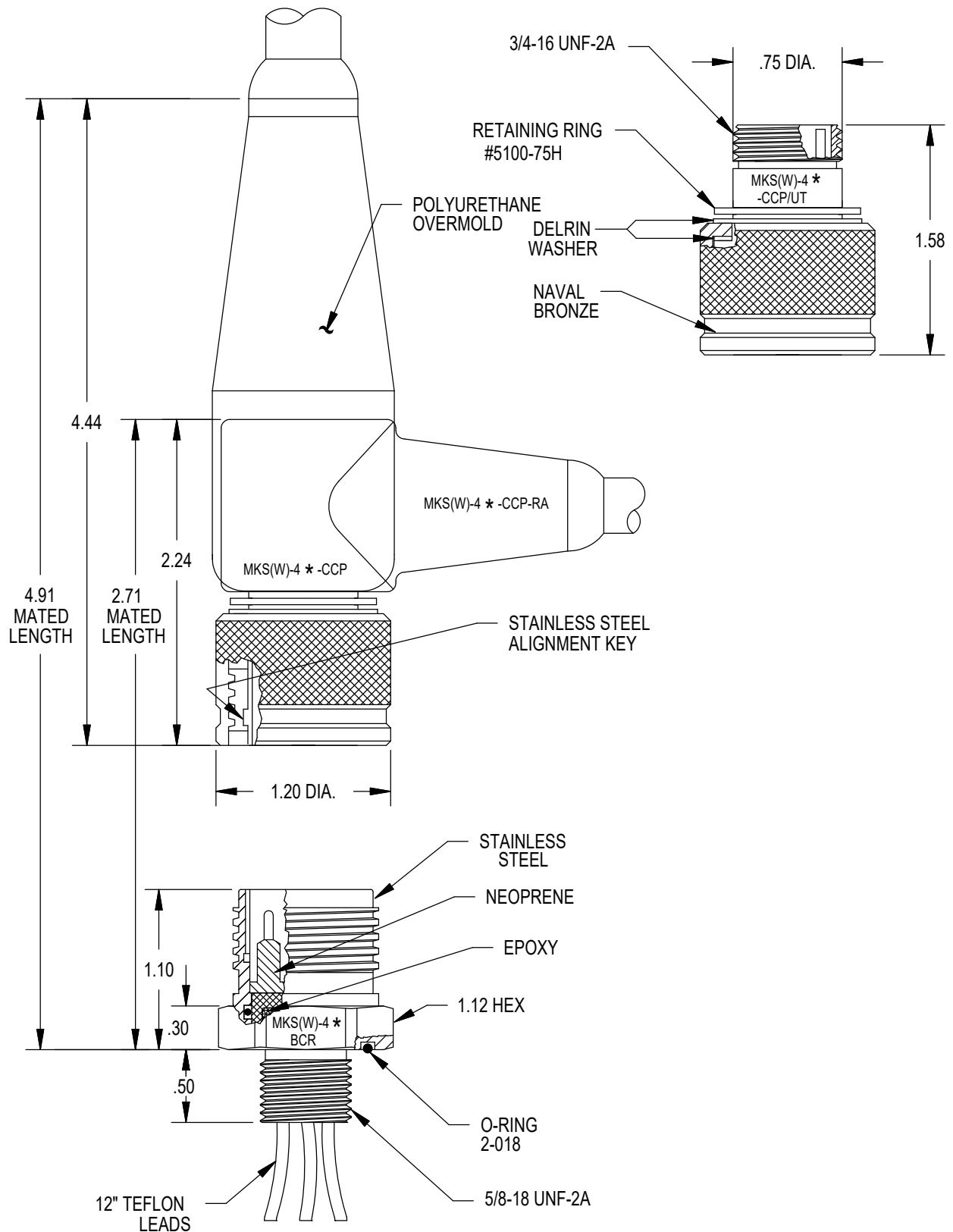
MOUNTING INSTRUCTIONS



MOUNTING TORQUE FOR BCR	not to exceed 50 in lbs	MATED PRESSURE RATING (psi)	10,000
NOTE: CCP is not terminated to cable unless specified. * Please specify number of contacts. **Internal assembly same as MKS(W)-3XL*-BCR (facing page). *** Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter.			

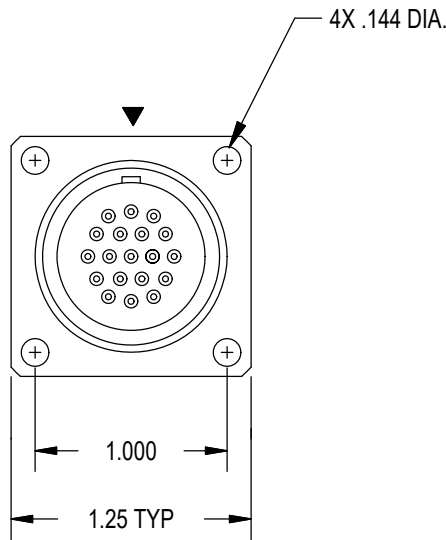
MKS(W)-4

METAL KEY SPLASH MATE RUBBER MOLDED
TITAN™ SERIES

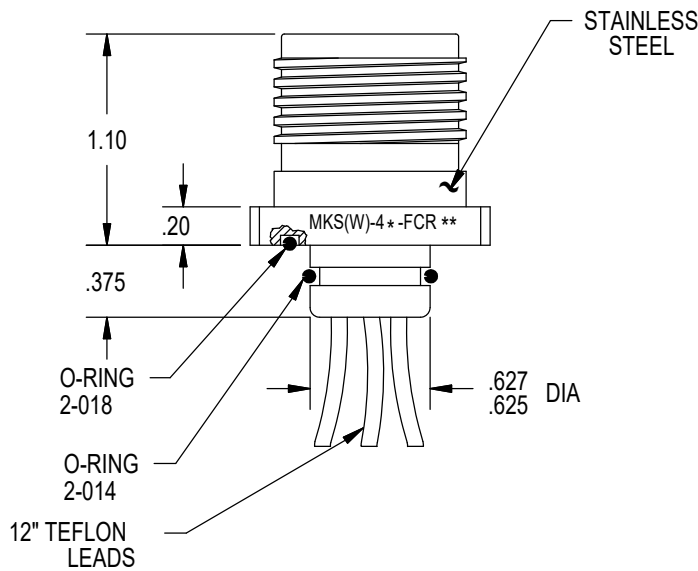
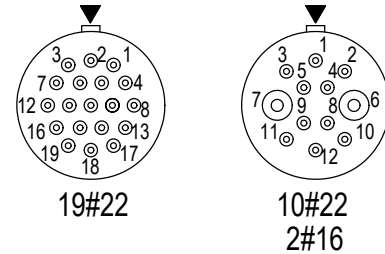


MKS(W)-4

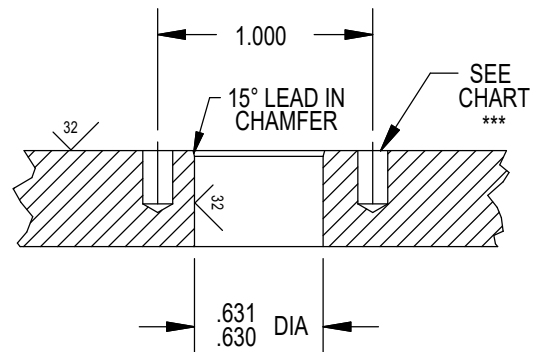
METAL KEY SPLASH MATE RUBBER MOLDED TITAN™ SERIES



CONTACT CONFIGURATION (BCR FACE VIEW)



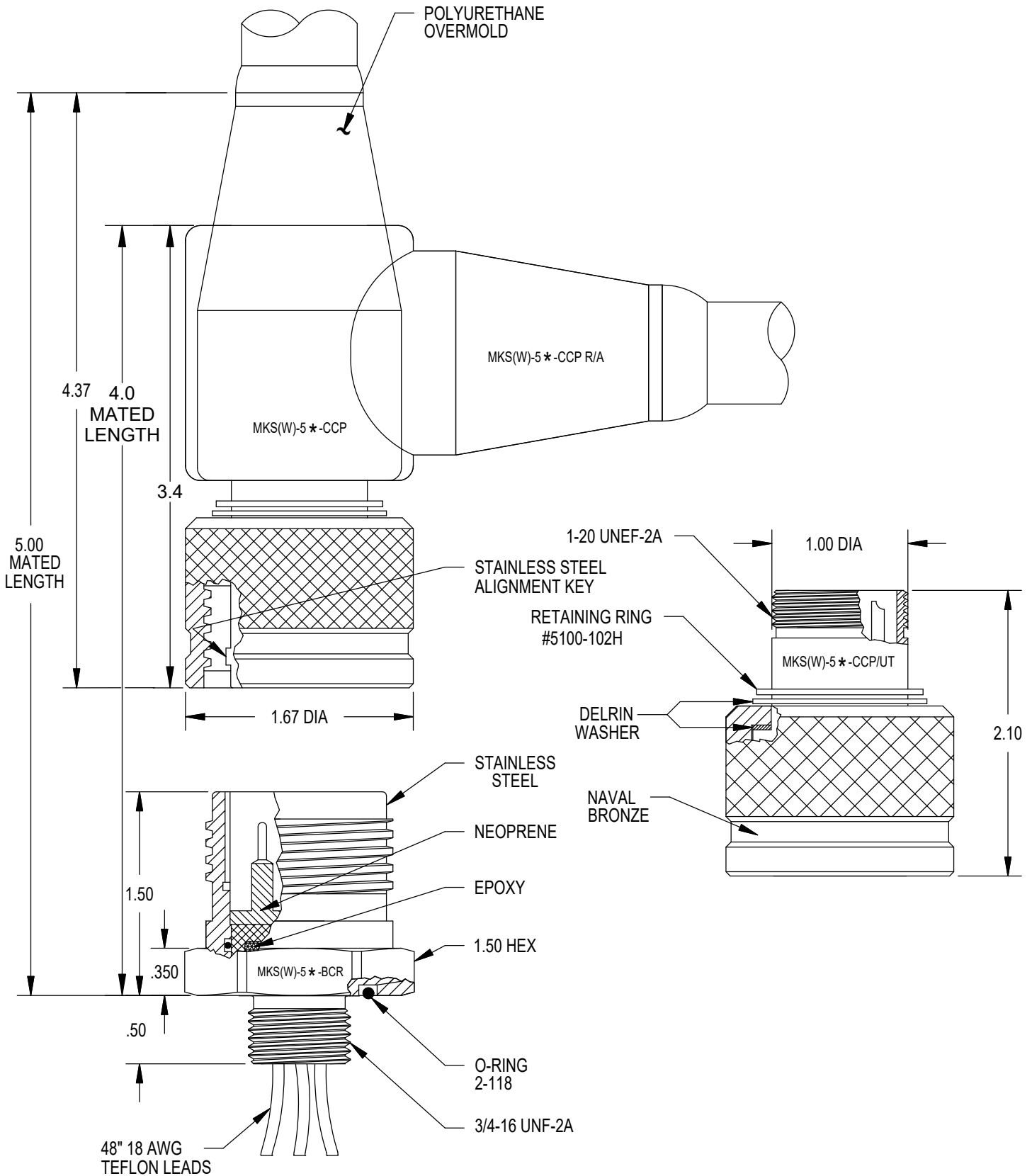
MOUNTING INSTRUCTIONS



MOUNTING TORQUE FOR BCR	not to exceed 100 in lbs	MATED PRESSURE RATING (psi)	10,000
See pg. 9580 for SCP/SCR information.			
NOTE: CCP is not terminated to cable unless specified. * Please specify number of contacts. ** Internal assembly same as MKS(W)-4*-BCR (facing page). *** Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter.			

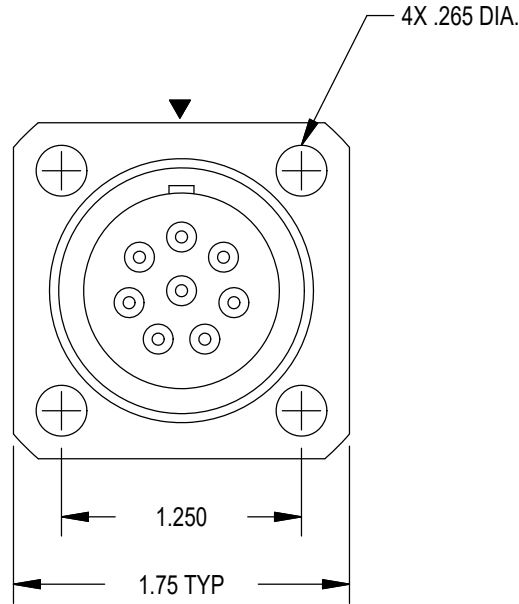
MKS(W)-5

METAL KEY SPLASH MATE RUBBER MOLDED
TITAN™ SERIES

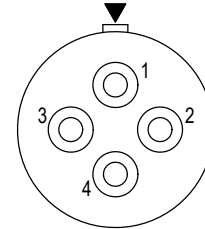


MKS(W)-5

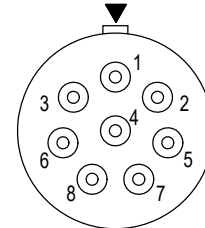
METAL KEY SPLASH MATE RUBBER MOLDED
TITAN™ SERIES



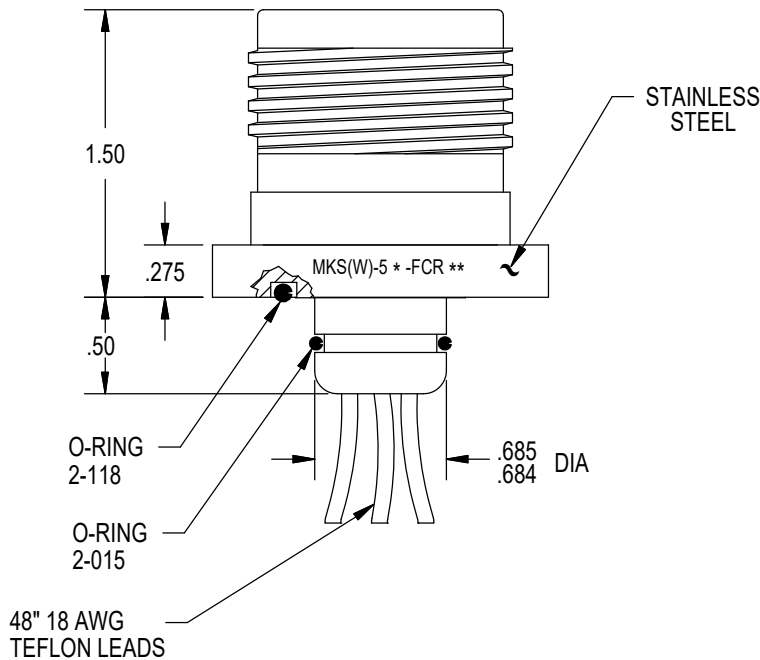
CONTACT CONFIGURATIONS (BCR FACE VIEW)



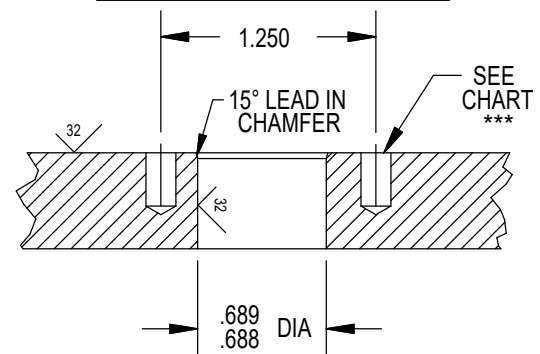
4#10



8#16



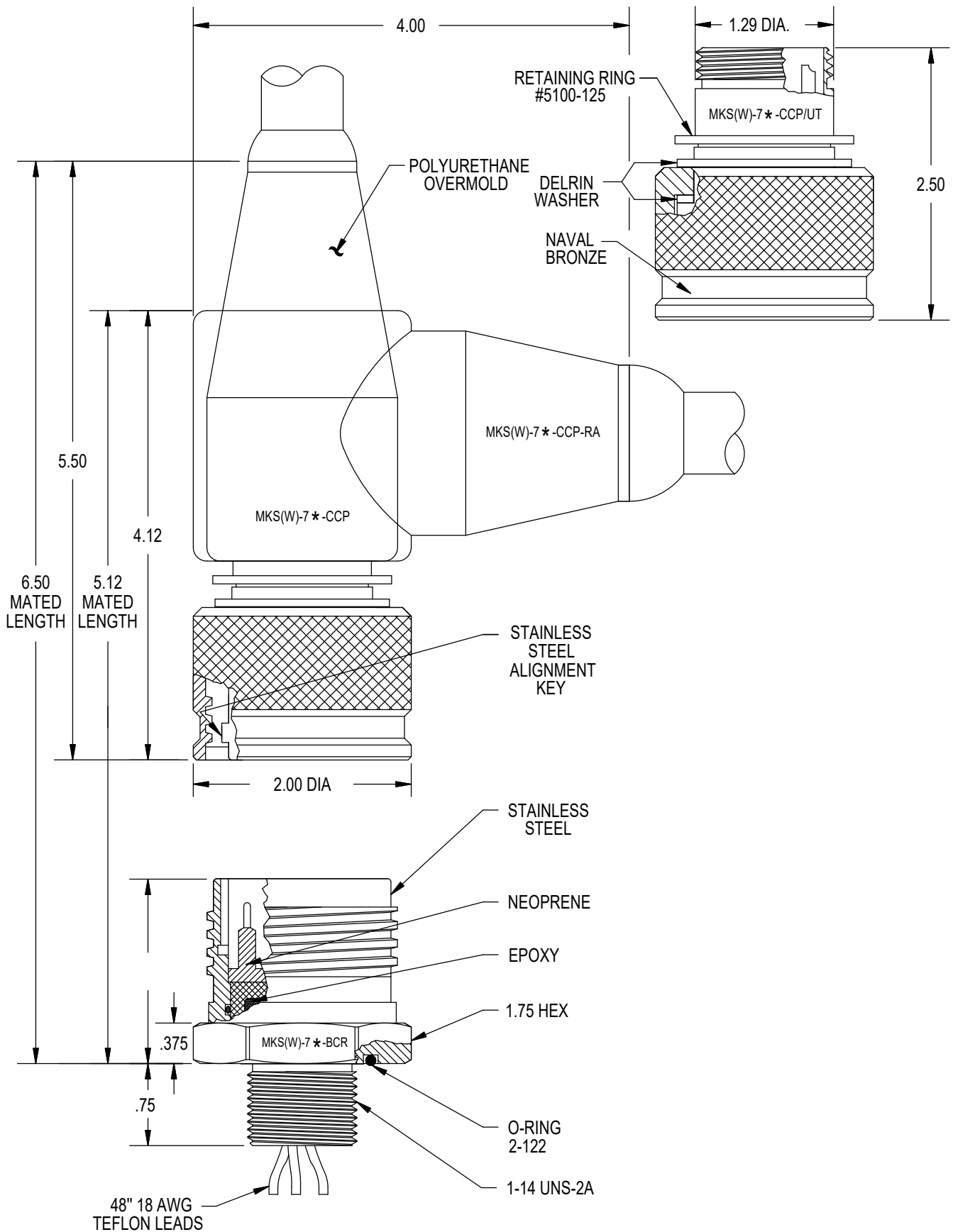
MOUNTING INSTRUCTIONS



MOUNTING TORQUE FOR BCR	not to exceed 165 in lbs	MATED PRESSURE RATING (psi)	10,000
See pg. 9580 for SCP/SCR information.			
NOTE: CCP is not terminated to cable unless specified. * Please specify number of contacts. ** Internal assembly same as MKS(W)-5* -BCR (facing page). *** Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter.			

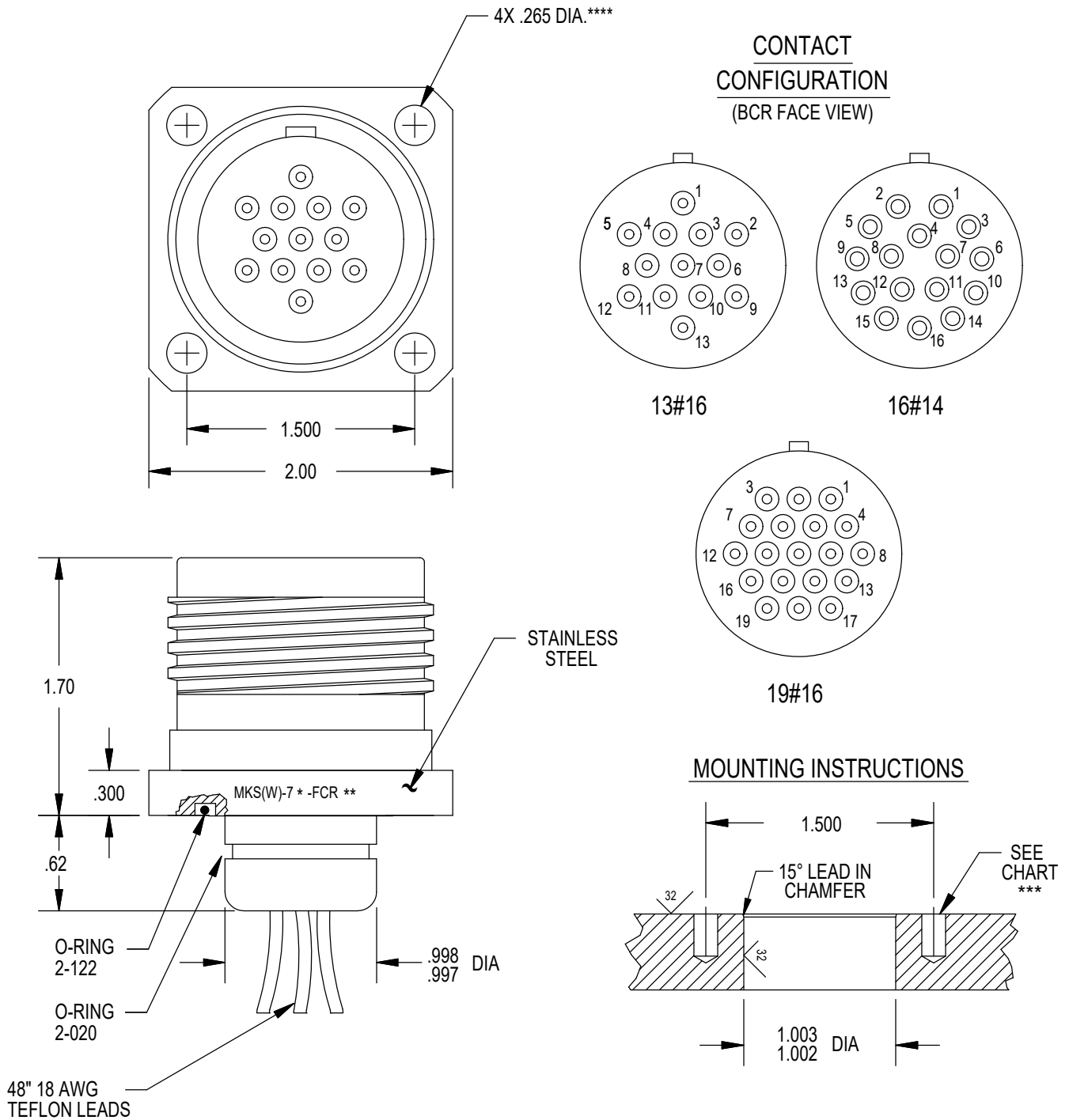
MKS(W)-7

METAL KEY SPLASH MATE RUBBER MOLDED
TITAN™ SERIES



MKS(W)-7

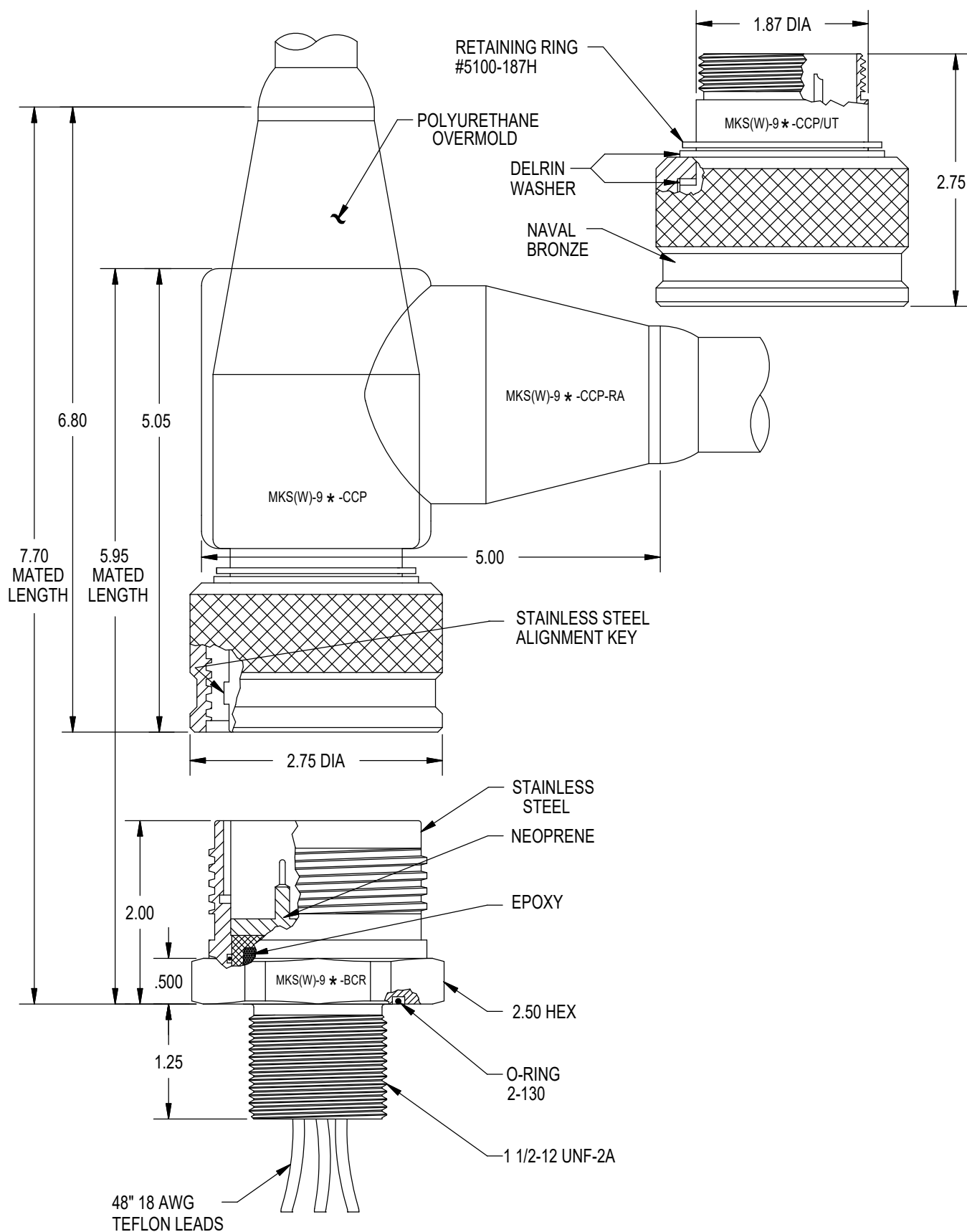
METAL KEY SPLASH MATE RUBBER MOLDED
TITAN™ SERIES



MOUNTING TORQUE FOR BCR	not to exceed 225 in lbs	MATED PRESSURE RATING (psi)	10,000
See pg. 9580 for SCP/SCR information.			
NOTE: CCP is not terminated to cable unless specified. * Please specify number of contacts. ** Internal assembly same as MKS(W)-7 * -BCR (facing page). *** Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter. **** Modified M6 socket head cap bolts are available.			

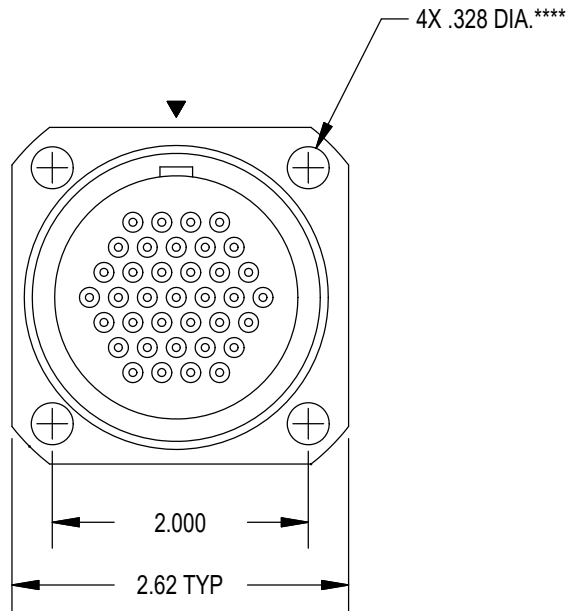
MKS(W)-9

METAL KEY SPLASH MATE RUBBER MOLDED
TITAN™ SERIES

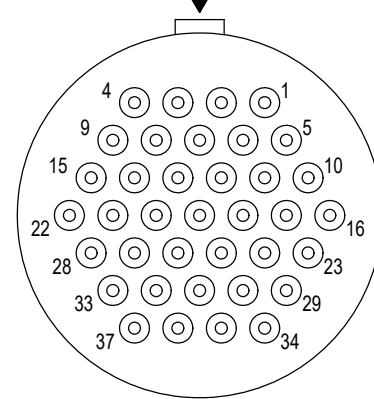


MKS(W)-9

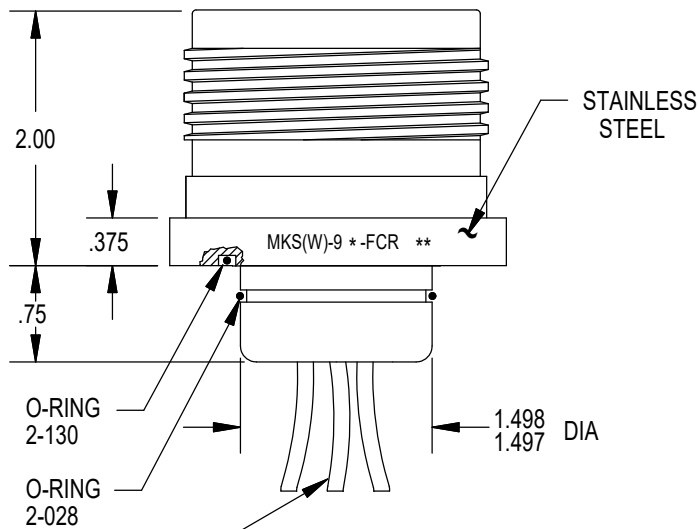
METAL KEY SPLASH MATE RUBBER MOLDED
TITAN™ SERIES



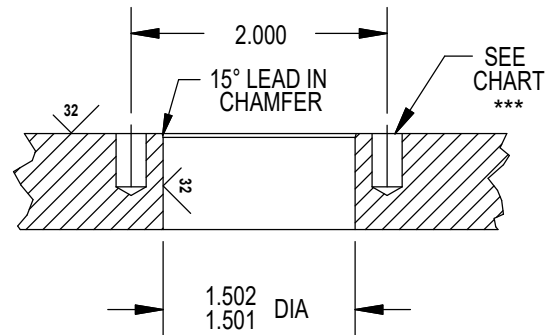
**CONTACT
CONFIGURATION**
(BCR FACE VIEW)



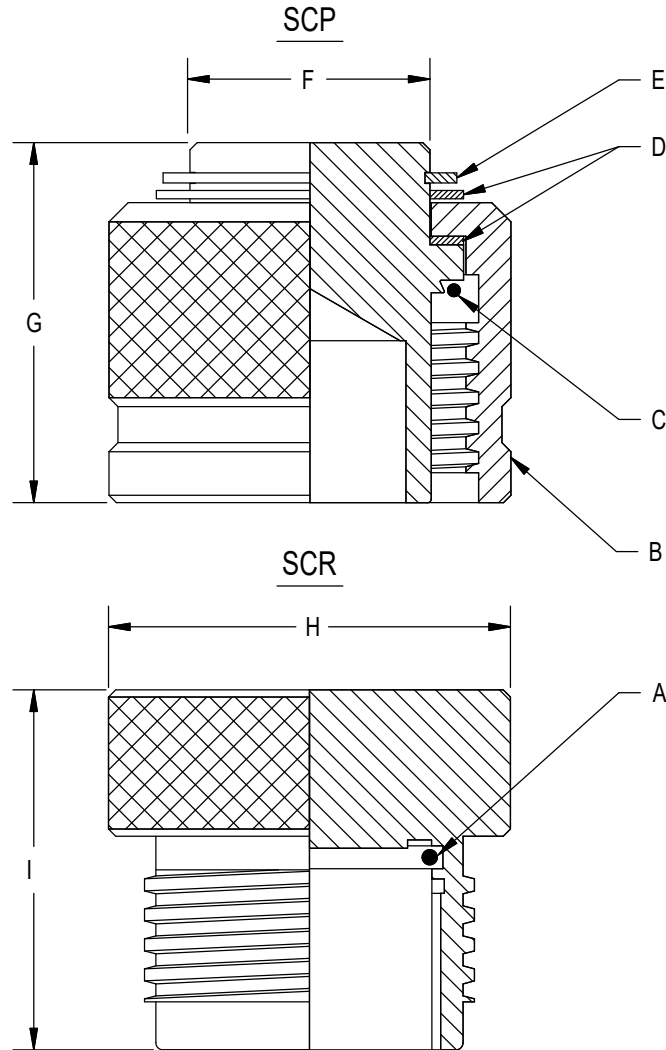
37#16



MOUNTING INSTRUCTIONS



MOUNTING TORQUE FOR BCR	not to exceed 335 in lbs	MATED PRESSURE RATING (psi)	10,000
See pg. 9580 for SCP/SCR information.			
NOTE: CCP is not terminated to cable unless specified. * Please specify number of contacts. ** Internal assembly same as MKS(W)-9 *-BCR (facing page). *** Blind tapped hole not to penetrate bulkhead, minimum full thread depth 2 times bolt diameter. **** Modified M8 socket head cap bolts are available.			



CONNECTOR SIZE	MKS-200	MKS-300	MKS-400	MKS-500	MKS-700	MKS-900
A O-RING	5-712	5-682	2-018	2-022	2-028	2-032
B ENGAGING NUT	452110	453115	462525	472527	482623	483107
C O-RING	5-057	5-682	5-003	2-023	2-028	2-033
D DELRIN WASHER(2X)	452101	453001	462530	472501	482618	483101
E RETAINING RING	5100-37	5100-43	5100-75	5100-102	5100-125	5100-187
F DIA	.37	.44	.76	1.00	1.29	1.87
G	.65	.75	1.15	1.50	1.87	2.00
H DIA	.60	.71	1.20	1.67	2.00	2.67
I	.58	.75	1.10	1.50	1.60	2.10
SCR MATED PRESSURE RATING(psi)	10,000	10,000	10,000	2,000	2,000	1,000
SCP MATED PRESSURE RATING(psi)	10,000	10,000	10,000	10,000	10,000	10,000
* Metal shell SCP/SCR are not splash mate						
** 10,000 psi rated splash mate dummies available upon request.						
*** MKS-300-SCP LP (50 psi) available upon request.						
**** MKS(W)-3L10 uses splash mate dummies only.						

CONNECTOR TERMINOLOGY

CONNECTOR TERMINOLOGY

BC	Bulkhead connector, no locking sleeve	FS	Female socket, neoprene standard has sockets, inverted has pins
BCL	Bulkhead connector locking, glass reinforced epoxy, with locking sleeve thread	FSD HP	Female socket, dummy, high pressure (>4000PSI), neoprene
BCP	Bulkhead connector plug, glass reinforced epoxy, mates with CCR	FSD LP	Female socket, dummy, low pressure (<4000PSI), neoprene
BCR	Bulkhead connector receptacle, glass reinforced epoxy or metal shell, mates with CCP	*-FLS-P	Female locking sleeve, nylon, for RM* or VM* connectors. * defines size of locking sleeve
BH	Bulkhead receptacle, splash mate series, neoprene with brass or stainless steel body	*-FLS-S	Female locking sleeve, stainless steel for RM* or VM* connectors. * defines size of locking sleeve
CCP	Cable connector plug, glass reinforced epoxy or metal shell, can be terminated to cable with neoprene or polyurethane overmold, mates with BCR, FCR, CCR	HD	Heavy duty or high density, depending on connector series
CCR	Cable connector receptacle, glass reinforced epoxy or metal shell, can be terminated to cable with neoprene or polyurethane overmold, mates with BCP, CCP	HP	High pressure
CIP	Contact insert plug, glass reinforced epoxy insert, used in metal shell BCP, CCP	HV	High voltage
CIR	Contact insert receptacle, glass reinforced epoxy insert, used in metal shell BCR, CCR, FCR	IE	Underwater pluggable series
DC	Dummy connector, neoprene, splash mate series	IE55	Rubber molded metal shell series
DLS*/F	Delrin locking sleeve, female, splash mate series. * defines size of locking sleeve	IE55V	Inverted rubber molded metal shell series
DLS*/M	Delrin locking sleeve, male, splash mate series. * defines size of locking sleeve	IE55W	Splash mate IE55 subminiature series
DSP	Dummy sealing plug, glass reinforced epoxy, stainless steel or aluminum, dummies off BCR, FCR, CCR	IERD	Underwater pluggable right angle bulkhead connector, neoprene, 1 pin/socket, 2 contacts
DSR	Dummy sealing receptacle, glass reinforced epoxy, stainless steel or aluminum, dummies off BCP, CCP	IESQ	Underwater pluggable connector, neoprene, 2 pins/sockets, 2 or 4 contacts
FCR	Flange connector receptacle, metal shell, mates with CCP	IL	Inline, neoprene, splash mate series
FIB	Field installable boot, neoprene, special type of RM* or VM* connector	LP	Low pressure
		LPBH	Low profile bulkhead connector, neoprene, splash mate series
		LPDC	Low profile dummy connector, neoprene, splash mate series
		LPIL	Low profile inline connector, neoprene, splash mate series
		LPMBH	Low profile mini bulkhead connector, neoprene, splash mate series
		LPMDC	Low profile mini dummy connector, neoprene, splash mate series

CONNECTOR TERMINOLOGY

LPMIL	Low profile mini inline connector, neoprene, splash mate series	MPD LP	Male plug dummy, low pressure, (<4000PSI), neoprene
MBH	Mini bulkhead connector, neoprene, splash mate series	MSA*	Metal shell aluminum, * defines shell size
MCBH	Micro mini bulkhead connector, neoprene, splash mate series	MSS*	Metal shell stainless steel, * defines shell size
MCBH (WB)	Micro mini bulkhead connector, waterblocked, neoprene, splash mate series	OF	Oil filled, CCP with stainless steel shell and adapter or glass reinforced epoxy with extended body
MCDC	Micro mini dummy connector, neoprene, splash mate series	OM	Overmold, neoprene, field installable version of splash mate series
MCDLS/*	Micro mini Delrin locking sleeve, splash mate series, * designates male (M) or female (F)	P	Plastic, nylon
MCIL	Micro mini inline connector, neoprene, splash mate series	PBC	Pigtail bulkhead connector, glass reinforced epoxy, no locking sleeve available, inboard leads
MDC	Mini dummy connector, neoprene, splash mate series	PBCL	Pigtail bulkhead connector locking, glass reinforced epoxy, locking sleeve available, inboard leads
MHD*	Miniature high density metal shell connector. * defines size of connector	PBCLM	Pigtail bulkhead connector, locking mounting, glass reinforced epoxy, face seal, locking sleeve available, inboard leads
MIL	Mini inline connector, neoprene, splash mate series	PBH/PIL	Bulkhead receptacle, splash mate series, polyurethane with brass or stainless steel body
MKA	Metal key Titan connector, aluminum	PBOF	Pressure balanced oil filled
MKA(W)	Metal key Titan connector, aluminum splash mate	PC	Protective Cap
MKS	Metal key Titan connector, stainless steel	PIL	Inline, polyurethane, splash mate series
MKS(W)	Metal key Titan connector, stainless steel, splash mate	PNA	Penetrator, aluminum or stainless steel body, neoprene or polyurethane overmold, water blocked using glass reinforced epoxy insert
-MLS-P	Male locking sleeve, nylon, for RM or VM* connectors, * defines size of locking sleeve	RA	Right angle
-MLS-S	Male locking sleeve, stainless steel, for RM or VM* connectors, * defines size of locking sleeve	RM*	Rubber molded connector, * defines size of connector
MOM	Mini overmold connector, neoprene, field installable version of splash mate series	RM*-BCL	Stainless steel bulkhead connector, mates with RM*-FS connector, * defines size of connector
MP	Male plug, neoprene, standard has pins, inverted has sockets	RMH	Rubber molded hermaphrodite, 1 pin + 1 socket
MPD HP	Male plug dummy, high pressure, (>4000PSI), neoprene	S OR SS	Stainless steel

CONNECTOR TERMINOLOGY

SCP Sealing cap plug, glass reinforced epoxy, stainless steel or aluminum, dummies off BCR, FCR and CCR

SCR Sealing cap receptacle, glass reinforced epoxy, stainless steel or aluminum, dummies off BCP, CCP

SL Rubber molded slip on connector, RMA and VMA only

UT Unterminated

VM* Inverted rubber molded connector, * defines size of connector

VM*-BCL Inverted stainless steel bulkhead connector, mates with VM*-FS connector, * defines size of connector

VS* Inverted glass reinforced epoxy connector, mates with VM*-FS connector, * defines size of connector

XP Extended plastic locking sleeve

XS* Glass reinforced epoxy connector, * defines size of connector

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APPROVAL						
PREPARED BY	CHECKED BY	ENGINEERING	PRODUCTION	QUALITY	SALES	GENERAL MANAGER
Binh Le	Kathy Ring	Jennifer Swaner	Mark Sturhann	Gary Zing	Andy Gardner	Jeff Hecker
Date:10/30/2018	Date:10/31/2018	Date:11/01/2018	Date:11/02/2018	Date:11/01/2018	Date:11/01/2018	Date: 11/05/2018

REVISION HISTORY			
AUTHORITY	REV	DATE	DESCRIPTION
151009-01	2015-A	10/09/15	UPDATED SOLIDWORKS & RELEASED TECHNICAL MANUAL
160128-02	2016-A	02/08/16	UPDATED GENERAL INFORMATION SECTION
160427-02	2016-B	04/27/16	UPDATED GENERAL INFORMATION SECTION: PAGE D3
160523-02	2016-C	05/23/16	UPDATED GENERAL INFORMATION SECTION: PAGE D3 ADDED PAGE D-4 AND BLANK
160823-01	2016-D	08/23/16	- 65 111 & 65121: ADD BOOT MCOM-2/3/4/5/6/8 - 85 32 & 85 33: ADD NEW PAGE FOR MHDXL - 87 13, 83 14, 87 15: ADD NEW PAGE FOR NET(L) - PAGE 95 03: 5/16-24 UNF-2A WAS 5/16-24 UNEF-2A - PAGE XIII: ADD MHDXL - PAGE XIV: ADD NET(L)
160923-01	2016-E	10/28/16	- 87 13: ADD DIMENSION & THREAD CALLOUT - 87 14: CORRECT NUMBER FOR BCR FACE VIEW
180124-01	2018-A	01/24/18	- 95 06: CORRECT DIMENSIONS: 1.7 WAS 1.80 AND .71 DIA WAS .70 DIA. - 95 42: CORRECT DIMENSIONS: 1.7 WAS 1.80 AND .71 DIA WAS .70 DIA.
180618-01	2018-B	06/18/18	- 95:43: ADD MKS(W)-3L10-CCP-RA. CHANGE DIMENSON TO ϕ .79 WAS ϕ .78.
181030-01	2018-C	10/30/18	1. PAGE D-1: CHANGE USA-HEADQUARTERS TO USA. CHANGE EUROPEAN HEADQUARTERS TO EUROPE. REMOVE TELEDYNE OIL & GAS AND AL/FL/GA/LA/MS/TX. 2. PAGE D-2: MOVE USA (CONTINUED) TO PAGE D-1. REMOVE MALAYSIA, SOUTH KOREA, CHINA. 3. PAGE D-3: REMOVE LATIN AMERICA (BRAZIL, MEXICO, CHILE). ADD DASCO TO CANADA. 4. CHANGE PAGE E: REMOVE CURRENT PAGE AND REPLACE WITH FOLLOWING STATEMENT: TELEDYNE IMPULSE TERMS AND CONDITIONS OF SALES CAN BE FOUND ON OUR WEB SITE. WWW.TELEDYNEIMPULSE.COM DELETED: BLANK PAGE AFTER PAGE D-4, PAGE F, PAGE G, PAGE H.
ANDY G.	2024-A	07/22/24	UPDATED PAGE D-1 & DELETED PAGE D-2, D-3.
ANDY G.	2024-B	11/15/24	PAGE 70 04 & 70 06: ADDED MATING TORQUE CCP TO BCR/CCR/FCR.
ANDY G.	2026-A	04/09/26	UPDATED AS PER REDLINES, ADDED IE55 HEX CONNECTORS.