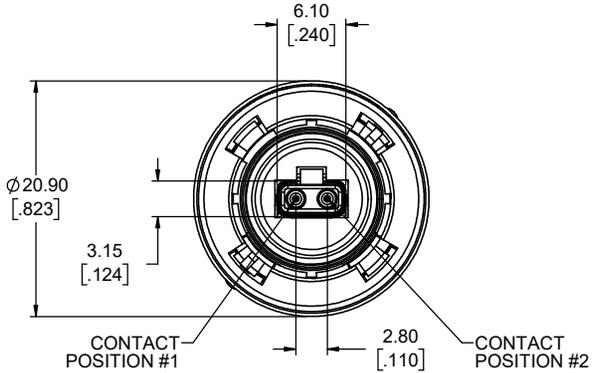
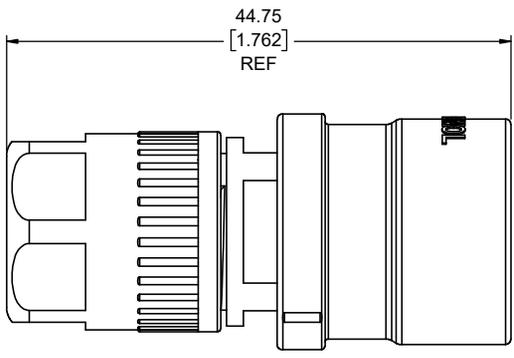


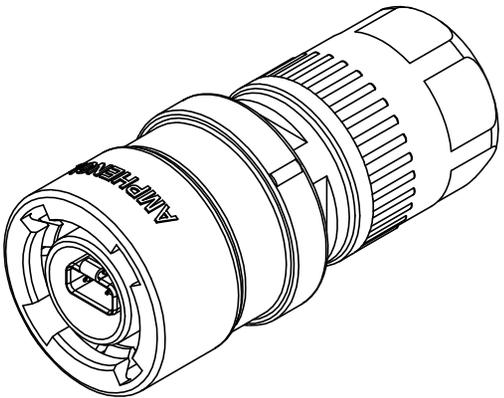
REVISIONS			
REV	DESCRIPTION, ECN, EAR NO.	DATE	APP'D
A	PRODUCT DRAWING (EAR 15028)	DEC03/21	K.L.



**ASSEMBLED PLUG VIEWS**  
SEE FOLLOWING SHEET FOR COMPONENTS



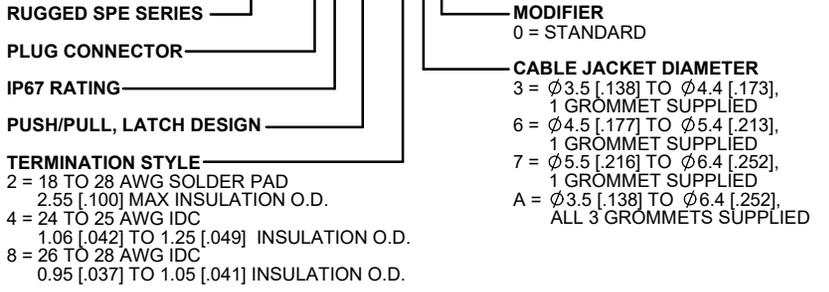
CONTACT POSITION	SIGNAL PER IEC 63171-6
1	BI_DA+
2	BI_DA-



**NOTES:**

- MATERIALS: ALL MATERIALS ARE RoHS COMPLIANT PER EU DIRECTIVE 2011/65/EU AND AMENDMENTS.
  - HOUSING, CAP, GLAND, & INSERTS: ENGINEERING THERMOPLASTIC, UL94V-0 FLAMMABILITY RATING, COLOUR: BLACK
  - IDC WIRE GUIDE: POLYCARBONATE, UL94V-0 FLAMMABILITY RATING, COLOUR: YELLOW FOR 24-25 AWG SIZE OR CLEAR FOR 26-28 AWG SIZE IDC
  - EMI SHIELD: STAINLESS STEEL PLATED WITH NICKEL
  - CONTACTS: COPPER ALLOY PLATED WITH NICKEL OVERALL, 0.76µm (30µ") GOLD ON THE MATING AREA AND GOLD FLASH ON THE TAILS
  - O-RING & GROMMET: SILICONE RUBBER, COLOUR: BLACK
  - RETAINING RING & WAVE SPRING: STAINLESS STEEL, PASSIVATED
- DESIGNED IN ACCORDANCE WITH IEC STANDARDS 63171-6 & 61076-2-010. COMPATIBLE WITH:
  - IEEE 802.3cg, 10BASE-T1L & -T1S
  - IEEE 802.3bw, 100BASE-T1
  - IEEE 802.3bp, 1000BASE-T1
  - IEEE 802.3bu, POWER OVER DATA LINES (PoDL)
- ENVIRONMENTAL CHARACTERISTICS:
  - OPERATING TEMPERATURE: -40°C TO +85°C
  - IP67 RATED PERFORMANCE PER IEC 60529, IN MATED CONDITION.
- ELECTRICAL CHARACTERISTICS:
  - CURRENT RATING: 4A
  - VOLTAGE RATING: 60VDC
  - CONTACT RESISTANCE: 20mΩ MAX
  - DIELECTRIC WITHSTANDING VOLTAGE:
    - 1000VDC CONTACT TO CONTACT
    - 2250VDC CONTACT TO SHIELD

**ORDERING CODE: M S P E - P 6 P 2 - X X 0**



UNLESS SPECIFIED OTHERWISE	DRAWN	R.DAMICO	SEPT1/21
PRIMARY UNITS MILLIMETRES	CHECKED	K.LAMBIE	DEC03/21
SECONDARY UNITS INCHES	M.E. APP'D		
REFERENCE IN PARENTHESES	Q.A. APP'D		
GENERAL TOLERANCES	DWG APPR.		
1 DECIMAL PLACE	ENG. REL. NO.	EAR 15028	
2 DECIMAL PLACES	REF.		
3 DECIMAL PLACES	THIRD ANGLE PROJECTION		
ANGULAR DEGREES	DO NOT SCALE DRAWING		

**Amphenol Canada Corp.**  
Commercial Products

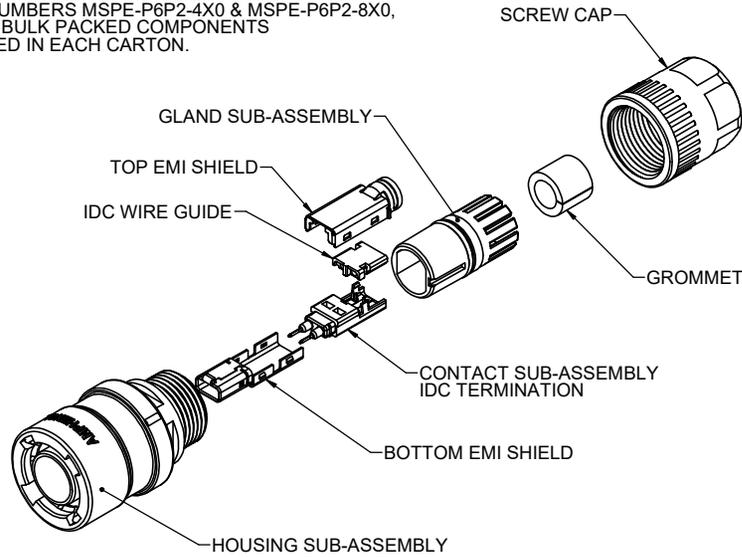
**MSPE SERIES, SINGLE PAIR ETHERNET, IP67 PLUG, PUSH/PULL, TERMINATION OPTIONS, RoHS COMPLIANT**

DWG. NO. **P-MSPE-P6P2-XX0** REV **A**

CODE ID NO. 03554 DWG SIZE: X SCALE: 3:1 SHEET 1 OF 3

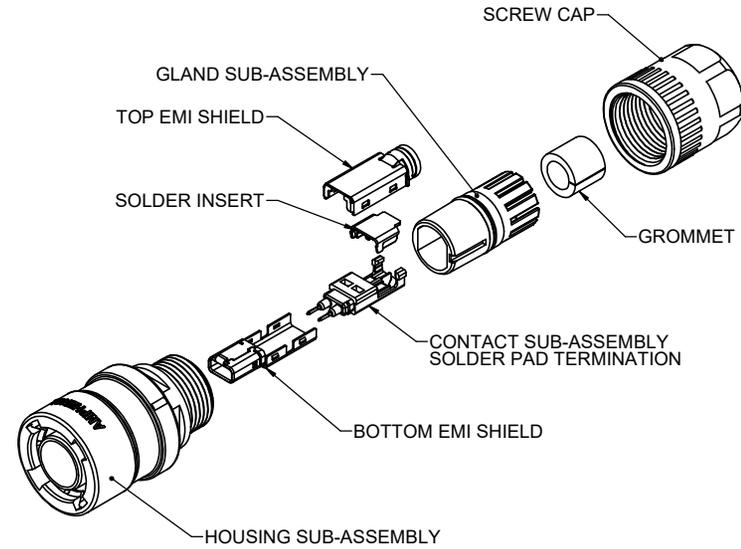
### IDC TERMINATION

PLUG COMPONENTS SUPPLIED FOR PART NUMBERS MSPE-P6P2-4X0 & MSPE-P6P2-8X0, TRAY & BULK PACKED COMPONENTS SUPPLIED IN EACH CARTON.



### SOLDER PAD TERMINATION

PLUG COMPONENTS SUPPLIED FOR PART NUMBER MSPE-P6P2-2X0, TRAY & BULK PACKED COMPONENTS SUPPLIED IN EACH CARTON.



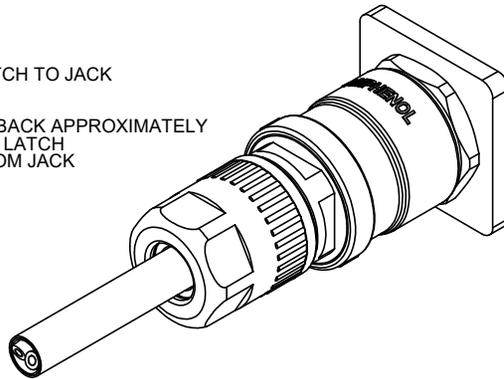
### PUSH / PULL FUNCTION

#### MATING

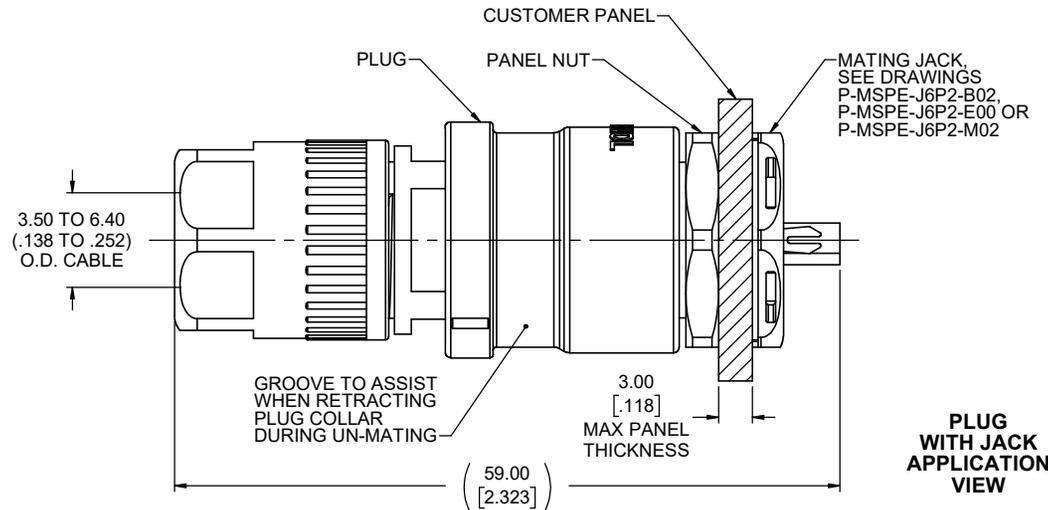
- ALIGN MATING AREA
- PUSH PLUG TO ENGAGE LATCH TO JACK

#### UN-MATING

- PULL FRONT PLUG COLLAR BACK APPROXIMATELY 1.2mm (.05") TO DIS-ENGAGE LATCH
- PULL PLUG TO UN-MATE FROM JACK



RECOMMENDED CABLE SPECIFICATIONS				
ITEMS		IDC 26 -28 AWG	IDC 24 - 25 AWG	SOLDER PAD
CONDUCTORS	SIZE	26 - 28 AWG	24 - 25 AWG	18 - 28 AWG
	STRANDS	7 STRANDS PER WIRE		
	MATERIAL	ANNEALED COPPER WIRE		
INSULATION OUTSIDE DIAMETER		Ø 0.95 - 1.05mm (Ø .037 - .041")	Ø 1.06 - 1.25mm (Ø .042 - .049")	Ø 2.55mm MAX (Ø .100" MAX)
BRAIDED SHIELD		TINNED COPPER		
JACKET OUTSIDE DIAMETER		Ø 3.50 - 6.40mm (Ø .138 - .252")		



**PLUG WITH JACK APPLICATION VIEW**

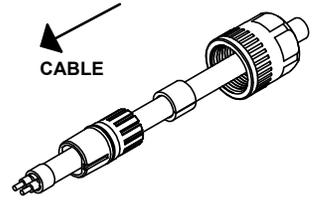
REVISIONS			
REV	DESCRIPTION, ECN, EAR NO.	DATE	APP'D
A	PRODUCT DRAWING (EAR 15028)	DEC03/21	K.L.

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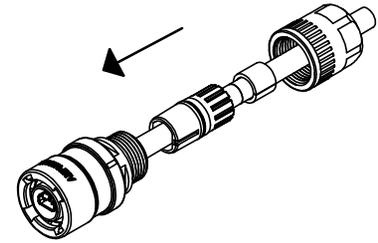
UNLESS SPECIFIED OTHERWISE	DRAWN	R.DAMICO	SEPT1/21
PRIMARY UNITS MILLIMETRES	CHECKED	K.LAMBIE	DEC03/21
SECONDARY UNITS INCHES	M.E. APP'D		
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2 DECIMAL PLACES	REF.		
3 DECIMAL PLACES	THIRD ANGLE PROJECTION		
ANGULAR DEGREES	DO NOT SCALE DRAWING		

<b>Amphenol Canada Corp.</b> Commercial Products			
MSPE SERIES, SINGLE PAIR ETHERNET, IP67 PLUG, PUSH/PULL, TERMINATION OPTIONS, RoHS COMPLIANT			
DWG. NO.	P-MSPE-P6P2-XX0		REV A
CODE ID NO. 03554	DWG SIZE: X	SCALE: NTS	SHEET 2 OF 3

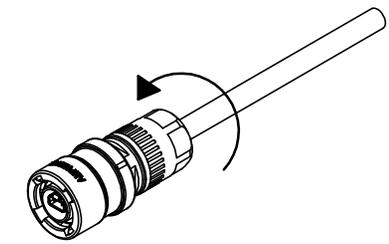
REVISIONS			
REV	DESCRIPTION, ECN, EAR NO.	DATE	APP'D
A	PRODUCT DRAWING (EAR 15028)	DEC03/21	K.L.



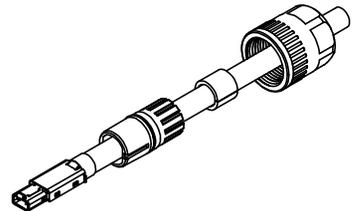
**STEP 1**  
SLIDE THE GLAND SUB-ASSY, GROMMET  
AND SCREW CAP ONTO THE BARE CABLE  
PRIOR TO PLUG INSTALLATION



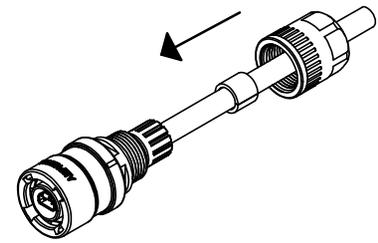
**STEP 4**  
SLIDE THE GLAND SUB-ASSY  
INTO THE HOUSING SUB-ASSY



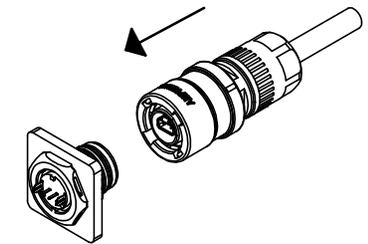
**STEP 7**  
SCREW THE END CAP  
UNTIL HAND TIGHT



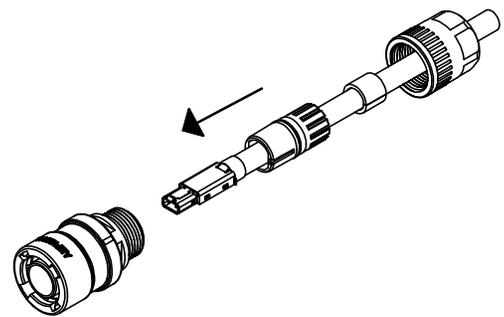
**STEP 2**  
ASSEMBLE PLUG CONNECTOR  
TO CABLE



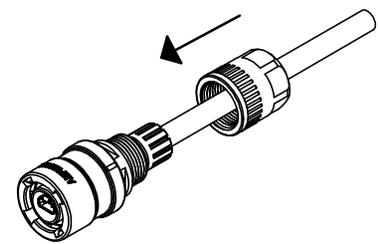
**STEP 5**  
SLIDE THE GROMMET  
INTO THE GLAND SUB-ASSY



**STEP 8**  
INSERT THE MSPE PUSH PULL  
PLUG ASSEMBLY INTO THE JACK HOUSING  
(AMPHENOL ENGRAVING INDICATES TOP SIDE)



**STEP 3**  
SLIDE THE ASSEMBLED CABLE  
INTO THE HOUSING SUB-ASSY



**STEP 6**  
SLIDE THE END CAP  
ONTO TO THE HOUSING SUB-ASSY



# FIELD ASSEMBLY PROCEDURE

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MSPE SERIES, SINGLE PAIR ETHERNET, IP67 PLUG, PUSH/PULL, TERMINATION OPTIONS, RoHS COMPLIANT			
DWG. NO.		REV	A
CODE ID NO. 03554	DWG SIZE: X	SCALE: 1:1	SHEET 3 OF 3