

**ORDERING CODE: M R D - B N 0 X - C B P - X X 0**

SERIES \_\_\_\_\_

CONNECTOR SIZE & MECHANISM  
B = 16mm SIZE WITH LATCH LOCK

HOUSING ORIENTATION & CONTACT TYPE  
N = MALE METAL HOUSING & SOCKET CONTACT

NUMBER OF CONTACTS \_\_\_\_\_  
02 TO 09 = TWO TO NINE CONTACTS  
(06 NOT INCLUDED)

CONTACT TERMINATION TYPE \_\_\_\_\_  
C = CABLE ASSY

CABLE ASSEMBLY TYPE \_\_\_\_\_  
B = SAME CONNECTOR AT BOTH ENDS

CABLE OPTION \_\_\_\_\_  
P = STANDARD CABLE PVC JACKET

SPECIALS  
0 = STANDARD

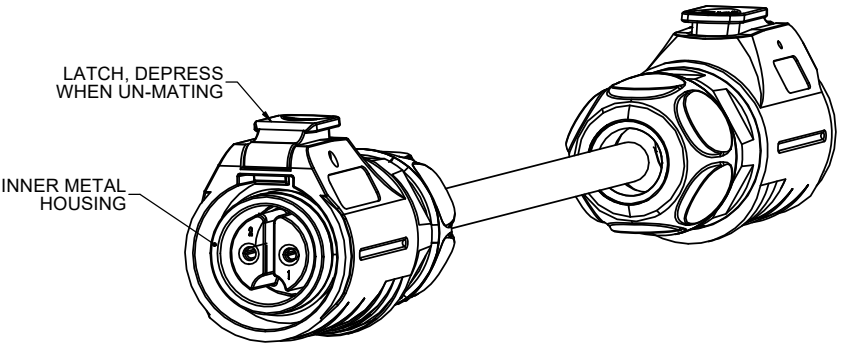
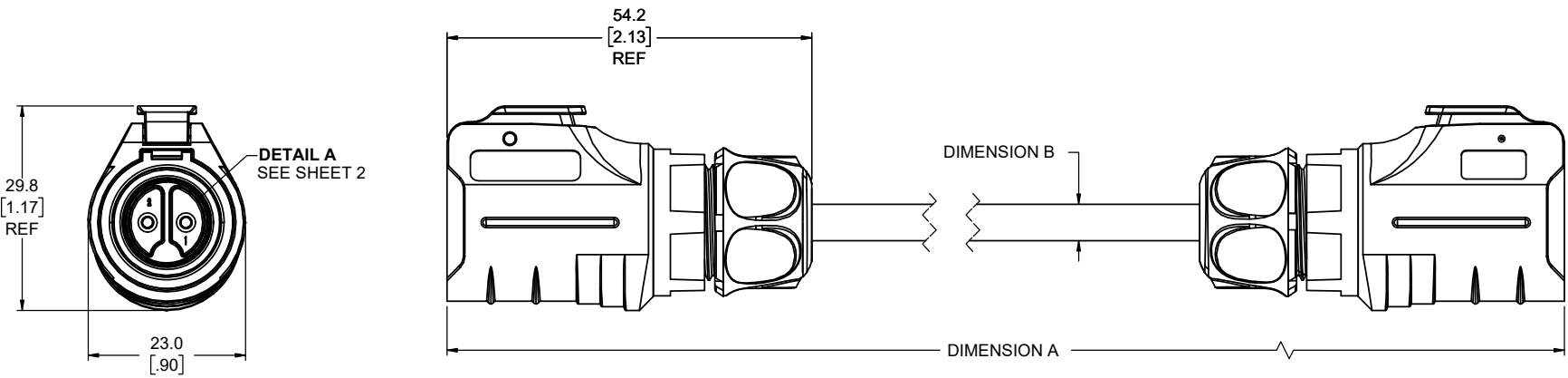
| CABLE LENGTH (DIMENSION 'A') |                               |
|------------------------------|-------------------------------|
|                              | LENGTH IN CM                  |
| 20 TO 99                     |                               |
| A0 TO A9                     | 1 METER + 0 TO 9 DECIMETERS   |
| B0 TO B9                     | 2 METERS + 0 TO 9 DECIMETERS  |
| C0 TO C9                     | 3 METERS + 0 TO 9 DECIMETERS  |
| D0 TO D9                     | 4 METERS + 0 TO 9 DECIMETERS  |
| E0 TO E9                     | 5 METERS + 0 TO 9 DECIMETERS  |
| F0 TO F9                     | 6 METERS + 0 TO 9 DECIMETERS  |
| G0 TO G9                     | 7 METERS + 0 TO 9 DECIMETERS  |
| H0 TO H9                     | 8 METERS + 0 TO 9 DECIMETERS  |
| J0 TO J9                     | 9 METERS + 0 TO 9 DECIMETERS  |
| K0 TO K9                     | 10 METERS + 0 TO 9 METERS     |
| L0 TO L9                     | 20 METERS + 0 TO 9 METERS     |
| M0 TO M9                     | 30 METERS + 0 TO 9 DECAMETERS |

CABLE LENGTH ORDERING CODE EXAMPLES:  
75cm = 75    6.3m = F3    25m = L5    80m = M5

| REVISIONS |                             |         |       |
|-----------|-----------------------------|---------|-------|
| REV       | DESCRIPTION, ECN, EAR NO.   | DATE    | APP'D |
| A         | PRODUCT DRAWING (EAR 15057) | FEB2/22 | K.L.  |

**NOTES:**

- ALL MATERIALS TO BE RoHS COMPLIANT PER EU DIRECTIVE 2011/65/EU AND AMENDMENTS.  
MRD CONNECTOR
  - OUTER HOUSINGS & END CAP: THERMOPLASTIC PBT, UL FLAMMABILITY RATING 94V-0, OUTDOOR RATING F1, BLACK
  - INNER HOUSING & LATCH: ZINC ALLOY, CHROME PLATED
  - GROMMET & O-RINGS: SILICONE RUBBER
  - CONTACTS: COPPER ALLOY, GOLD OVER NICKEL PLATED
 CABLE: PER UL AWM 2464, 300V, VW-1, STRANDED COPPER CONDUCTORS WITH PVC INSULATION, BLACK PVC JACKET
- ENVIRONMENTAL PROTECTION: IP67 PER IEC 60529 IN MATED CONDITION.
- OPERATING TEMPERATURE: -40°C TO +80°C
- SEE TABLE ON SHEET 2 FOR ADDITIONAL CHARACTERISTICS.
- CABLE ASSEMBLY PIN-OUT IS FROM CONNECTOR POSITION 1 AT ONE END TO POSITION 1 AT THE OTHER END (2 TO 2, 3 TO 3, ETC.).
- MRD CONNECTORS IN THIS CABLE ASSEMBLY WILL MATE WITH FEMALE CONNECTORS WITH PIN CONTACTS PER DRAWINGS P-MRD-BX0X-L13-000 OR P-MRD-BX0X-M1X-000.



**MALE CONNECTOR WITH SOCKET CONTACTS  
(BOTH ENDS OF CABLE)**



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|                            |                        |           |          |
|----------------------------|------------------------|-----------|----------|
| UNLESS SPECIFIED OTHERWISE | DRAWN                  | A.NONG    | JAN24/22 |
| PRIMARY UNITS MILLIMETERS  | CHECKED                |           |          |
| SECONDARY INCHES           | M.E. APP'D             |           |          |
| REFERENCE IN PARENTHESES   | Q.A. APP'D             |           |          |
| GENERAL TOLERANCES         | DWG APPR.              | K.LAMBIE  | FEB2/22  |
| 1 DECIMAL PLACE            | ENG. REL. NO.          |           |          |
| 2 DECIMAL PLACES           | REF.                   | EAR 15057 |          |
| 3 DECIMAL PLACES           | THIRD ANGLE PROJECTION |           |          |
| ANGULAR DEGREES            | DO NOT SCALE DRAWING   |           |          |

**Amphenol Canada Corp.**  
Commercial Products

**MRD SERIES CABLE ASSEMBLY, MALE CONNECTOR WITH METAL HOUSING & SOCKET CONTACTS AT BOTH ENDS, 2-5 & 7-9 POSITIONS, RoHS COMPLIANT**

DWG. NO. **P-MRD-BN0X-CBP-XX0** REV **A**

CODE ID NO. 03554 DWG SIZE: X SCALE: 2:1 SHEET 1 OF 2

| REVISIONS |                             |         |       |
|-----------|-----------------------------|---------|-------|
| REV       | DESCRIPTION, ECN, EAR NO.   | DATE    | APP'D |
| A         | PRODUCT DRAWING (EAR 15057) | FEB2/22 | K.L.  |

**END VIEWS FOR CONTACT MATING AREA**

|                              |   |   |   |   |   |   |   |
|------------------------------|---|---|---|---|---|---|---|
| DETAIL A VIEW<br>(SCALE 3:1) |   |   |   |   |   |   |   |
| NUMBER OF CONTACTS           | 2 | 3 | 4 | 5 | 7 | 8 | 9 |

**CABLE ASSEMBLY CHARACTERISTICS**

| CABLE ASSEMBLY PART NUMBER | DIMENSION B  | CABLE CONDUCTOR SIZE | VOLTAGE RATING | CURRENT RATING | DIELECTRIC WITHSTANDING VOLTAGE |
|----------------------------|--------------|----------------------|----------------|----------------|---------------------------------|
| MRD-BN02-CBP-XX0           | 6.3<br>[.25] | 16 AWG               | 300 VAC        | 10A            | 2500 VDC                        |
| MRD-BN03-CBP-XX0           | 6.7<br>[.26] | 16 AWG               |                |                |                                 |
| MRD-BN04-CBP-XX0           | 7.3<br>[.29] | 16 AWG               |                |                |                                 |
| MRD-BN05-CBP-XX0           | 5.3<br>[.21] | 22 AWG               | 250 VAC        | 5A             | 1500 VDC                        |
| MRD-BN07-CBP-XX0           | 5.8<br>[.23] | 22 AWG               |                |                |                                 |
| MRD-BN08-CBP-XX0           | 6.0<br>[.24] | 22 AWG               |                |                |                                 |
| MRD-BN09-CBP-XX0           | 6.8<br>[.27] | 22 AWG               |                |                |                                 |



|                            |                        |           |                      |
|----------------------------|------------------------|-----------|----------------------|
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| PRIMARY UNITS MILLIMETERS  | CHECKED                |           |                      |
| SECONDARY INCHES           | M.E. APP'D             |           |                      |
| REFERENCE IN PARENTHESES   | Q.A. APP'D             |           |                      |
| GENERAL TOLERANCES         | DWG APPR.              | K.LAMBIE  | FEB2/22              |
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| ANGULAR DEGREES            |                        |           |                      |

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DWG. NO. **P-MRD-BN0X-CBP-XX0** REV **A**

CODE ID NO. 03554 | DWG SIZE: X | SCALE: 2:1 | SHEET 2 OF 2