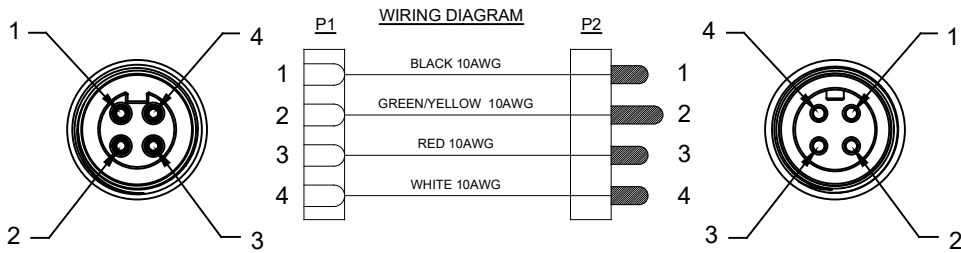
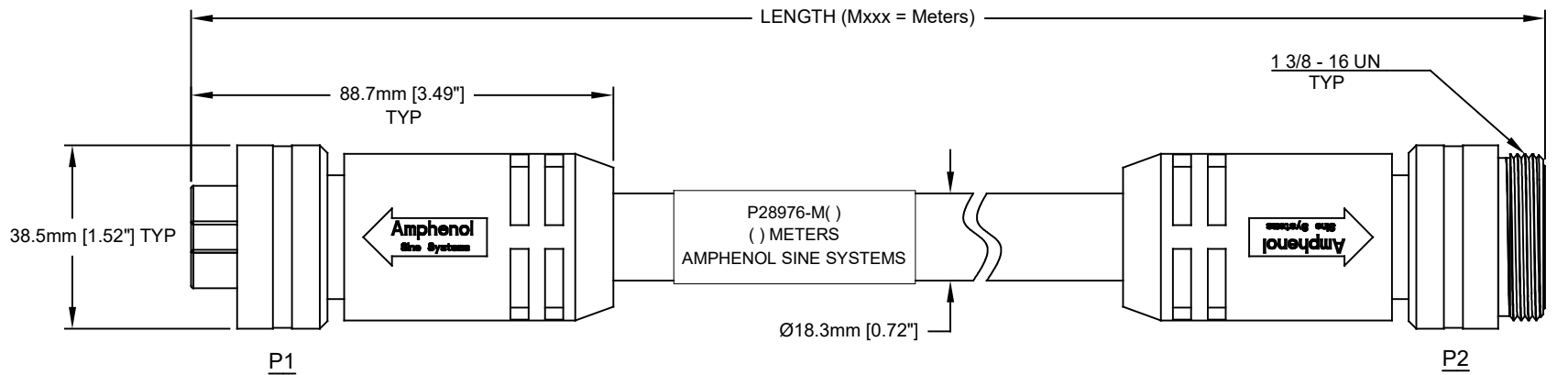


| REVISIONS |     |                              |           |     |      |
|-----------|-----|------------------------------|-----------|-----|------|
| REV       | ECO | DESCRIPTION                  | DATE      | BY  | APPR |
| A1        | -   | TECHNICAL DATA SHEET RELEASE | 12-MAY-14 | KMM | RFC  |



TECHNICAL DATA:

- 1) MATERIALS:  
COUPLING NUT: MACHINED ALUMINUM, ANODIZED  
INSULATION INSERT: THERMOPLASTIC, UL 94/V-0  
CONTACT: GOLD FLASH PLATING OVER COPPER ALLOY  
OVERMOLD MATERIAL: THERMOPLASTIC COLOR: BLACK  
CABLE RATING: UL LISTED DUAL RATED TC-ER/STOOW, CSA TYPE STOOW, FT4 FLAME RATING, 600V, 90°C DRY & 75°C WET (TC-ER), 105°C (STOOW)  
CABLE JACKET MATERIAL: PVC COLOR: BLACK  
CONDUCTOR INSULATION: PVC  
NUMBER OF CONDUCTORS: (4) 10AWG
- 2) ELECTRICAL DATA:  
CURRENT (MAX): 25A  
VOLTAGE (MAX): 600V AC/DC  
INSULATION RESISTANCE (MIN): 5000M OHMS  
DIELECTRIC TEST VOLTAGE: 2200V  
SHORT CIRCUIT AMPERAGE RATING: 65kA - BREAKERS AND FUSES
- 3) MECHANICAL DATA:  
TEMPERATURE RANGE: -40°C TO 90°C  
PROTECTION: IP67 (MATED CONDITION)  
MATING CYCLES: >500  
VIBRATION RESISTANCE PER MIL-STD-202 METHOD 204  
THERMAL SHOCK PER MIL-STD-202 METHOD 207  
48 HOUR SALT SPRAY PER MIL-STD-202 METHOD 101
- 4) RoHS COMPLIANT
- 5) UL 2237 LISTED ASSEMBLY  
UL FILE NUMBERS: E339703

| TOLERANCE                  |                             |
|----------------------------|-----------------------------|
| 0-2.99 M = +100.0/-25.0mm  | 0-9.99 FT = +4" / -1"       |
| 3-8.99 M = +150.0/-25.0mm  | 10.00-29.99 FT = +6" / -1"  |
| 9-14.99 M = +300.0/-25.0mm | 30.00-49.99 FT = +12" / -1" |
| 15-OVER M = +450.0/-25.0mm | 50 FT-OVER = +18" / -1"     |

| Amphenol P/N | ROCKWELL P/N     | MOLEX         | TURCK           |
|--------------|------------------|---------------|-----------------|
| P28976-M*    | 280-PWRM35A-M*   | CC4030A48M*   | GSDAGKDA40-*M   |
| P28976-M1    | 280-PWRM35A-M010 | CC4030A48M010 | GSDAGKDA40-010M |
| P28976-M2    | 280-PWRM35A-M020 | CC4030A48M020 | GSDAGKDA40-020M |
| P28976-M3    | 280-PWRM35A-M030 | CC4030A48M030 | GSDAGKDA40-030M |
| P28976-M5    | 280-PWRM35A-M050 | CC4030A48M050 | GSDAGKDA40-050M |
| P28976-M10   | 280-PWRM35A-M100 | CC4030A48M100 | GSDAGKDA40-100M |

|                                                                                                           |             |                                                                                                                                                                                                                                                                      |             |             |                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                           | PART NUMBER |                                                                                                                                                                                                                                                                      | DESCRIPTION |             | ITEM                                                                                                                                                                                                                                                |
| QUANTITY                                                                                                  |             | MATERIALS LIST                                                                                                                                                                                                                                                       |             |             |                                                                                                                                                                                                                                                     |
| UNLESS OTHERWISE SPECIFIED                                                                                |             | SIGNATURES                                                                                                                                                                                                                                                           |             | DATE        | <div>Amphenol</div> <div>Sine Systems - <a href="http://www.amphenol-sine.com">www.amphenol-sine.com</a><br/>44724 Morley Drive<br/>Clinton Township, MI 48036</div> <div>M35 POWERBOSS LITE, 4 PIN, M/F,<br/>10 AWG, TC-ER/STOOW, PVC JACKET</div> |
| 1) All dimensions are in metric(mm).                                                                      |             | DRAWN:                                                                                                                                                                                                                                                               | KMM         | 12-MAY-14   |                                                                                                                                                                                                                                                     |
| 2) Tolerances are as follows:<br>1 PL DEC ±0.30<br>2 PL DEC ±0.15<br>3 PL DEC ±0.08                       |             | CHECKED:                                                                                                                                                                                                                                                             | MRF         | 12-MAY-14   |                                                                                                                                                                                                                                                     |
| Fractions ±1/64<br>Angles ±1°                                                                             |             | ENGINEER:                                                                                                                                                                                                                                                            | KMM         |             |                                                                                                                                                                                                                                                     |
| 3) Note reference =  |             | APPROVAL:                                                                                                                                                                                                                                                            | RFC         | 12-MAY-14   |                                                                                                                                                                                                                                                     |
| MATERIAL SPECIFICATIONS:                                                                                  |             | CUSTOMER:                                                                                                                                                                                                                                                            |             |             |                                                                                                                                                                                                                                                     |
| PROCESS SPECIFICATIONS:                                                                                   |             | THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPHENOL CORPORATION. NO RIGHTS OF REPRODUCTION ARE IMPLIED. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS. |             |             |                                                                                                                                                                                                                                                     |
| NEXT ASSY:                                                                                                |             | SIZE                                                                                                                                                                                                                                                                 | TYPE        | DWG NO.     | REVISION                                                                                                                                                                                                                                            |
|                                                                                                           |             |                                                                                                                                                                                                                                                                      | C-          | P28976-Mxxx | A1                                                                                                                                                                                                                                                  |
|                                                                                                           |             | SCALE                                                                                                                                                                                                                                                                | FULL        | C-P28976    | SHEET 1 OF 1                                                                                                                                                                                                                                        |

TM-435 PB LITE, 4 PIN, M/F, 10AWG, TC-ER/STOOW, PVC JACKET  
REV: A1  
Sht: 1  
Of: 1

# Mouser Electronics

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