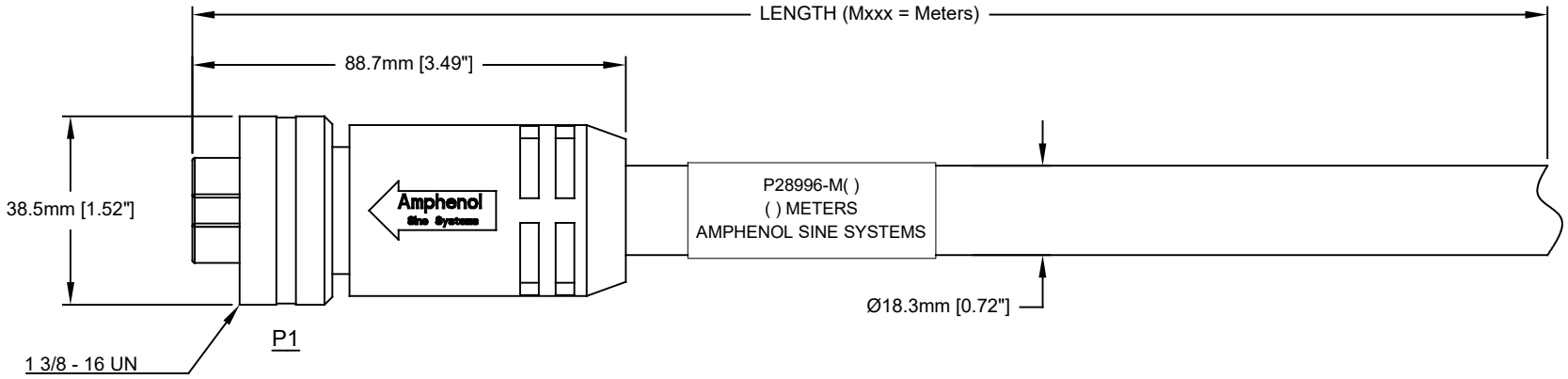
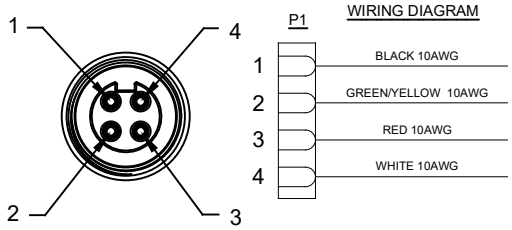
REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	TECHNICAL DATA SHEET RELEASE	12-MAY-14	KMM	RFC





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

Amphenol P/N	ROCKWELL P/N	MOLEX	TURCK
P28996-M*	280-PWRM35E-M*	C04000A48M*	GKDA40-*M
P28996-M1	280-PWRM35E-M010	C04000A48M010	GKDA40-010M
P28996-M2	280-PWRM35E-M020	C04000A48M020	GKDA40-020M
P28996-M3	280-PWRM35E-M030	C04000A48M030	GKDA40-030M
P28996-M5	280-PWRM35E-M050	C04000A48M050	GKDA40-050M
P28996-M10	280-PWRM35E-M100	C04000A48M100	GKDA40-100M

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"

PART NUMBER	DESCRIPTION	ITEM
QUANTITY	MATERIALS LIST	

UNLESS OTHERWISE SPECIFIED
1) All dimensions are in metric(mm).
2) Tolerances are as follows:
1 PL DEC ±0.30 | Fractions ±1/64
2 PL DEC ±0.15 | Angles ±1°
3 PL DEC ±0.08
3) Note reference = X

MATERIAL SPECIFICATIONS:
PROCESS SPECIFICATIONS:
NEXT ASS'Y:

SIGNATURES		DATE
DRAWN:	KMM	12-MAY-14
CHECKED:	MRF	12-MAY-14
ENGINEER:	KMM	
APPROVAL:	RFC	12-MAY-14
CUSTOMER:		

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Amphenol
Sine Systems - www.sine-amphenol.com
44724 Morley Drive
Clinton Township, MI 48036

M35 POWERBOSS LITE, 4 PIN, FEMALE-STR, 10 AWG, TC-ER/STOOW, PVC JACKET

SIZE	TYPE	DWG NO:	REVISION
	C-	P28996-Mxxx	A1

SCALE: FULL | C-P28996 | SHEET 1 OF 1

TITLE: M35 PB LITE, 4 PIN, F-STR, 10AWG, TC-ER/STOOW, PVC
DWG NO: C-P28996-Mxxx
REV: A1
SH: 1
OF: 1

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