

REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	TECHNICAL DATA SHEET RELEASE	-	-	-
A2	-	ADDED DESCRIPTION	10/27/17	-	-

TECHNICAL DATA:

1) MATERIALS:

CONNECTOR: MB2CKN0900 CHECKMATE
 OVERMOLD: TPE
 CABLE: KA-56645

2) ELECTRICAL:

INSULATION RESISTANCE (MIN): 5000M OHMS
 DIELECTRIC TEST VOLTAGE: 2200V

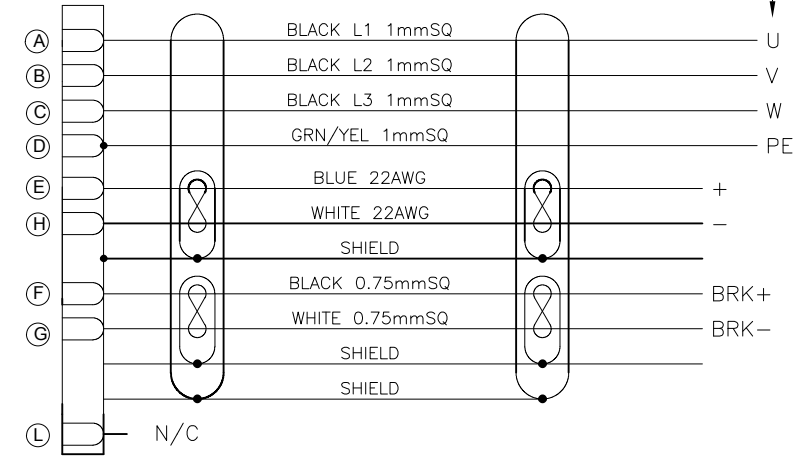
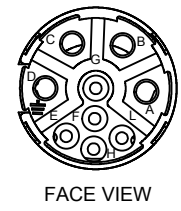
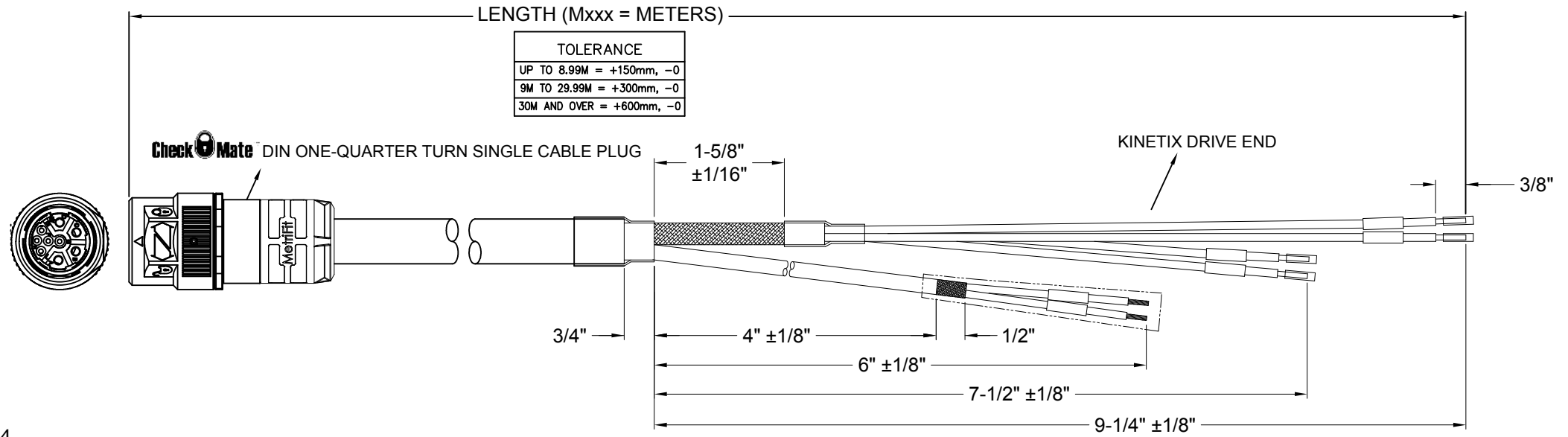
3) MECHANICAL:

TEMPERATURE RANGE: -40°C TO 105°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) CABLE SPECIFICATIONS:

- NOMINAL O.D., 0.47" (11.9MM), JACKET COLOR: ORANGE DESINA RAL 2003, JACKET MATERIAL: POLYURETHANE (PUR).
 - Electrical Resistance at 20°C: ≤ 59,0 Ω/km (Section 0,34mm²)
 - ≤ 26,0 Ω/km (Section 0,75mm²)
 - ≤ 19,5 Ω/km (Section 1,00mm²)
 - Insulation Resistance 20°C: ≤ 500 MΩxkm
 - Test Voltage: 3 kVa.c.
 - Operating Voltage: 1000Va.c.
 - Capacitance 800 ÷ 1000Hz: 45 ± 15 pF/m - (2xAWG22)ST/SN (BUS)
 - Characteristic Impedance at 10MHz: 110 ± 10 Ω - (2xAWG22)ST/SN (BUS)
 - Capacitance 800 ÷ 1000Hz: ≤ 90 pF/m (Conductor/Conductor) 4x1mm²
 - ≤ 150 pF/m (Conductor/Shield) 4x1mm²
 - Temperature Range: -40°C to +80°C (static, dynamic and storage)
 - Minimum Bending Radius: 5 x Ø (Static Use) - 7 x Ø (Dynamic Use)
 - Max Speed: 300 m/min
 - Max Acceleration: 50 m/s²
 - Max Torsion: ± 30°/m
 - Chain length: 20m
 - Max Number of cycles: 5,000,000
- Flame Resistance:
- CEI 20-35-1-2, EN 50265-1-2, IEC 60332-1-2, UL VW-1, CSA FT1
- Halogen Free:
- CEI 20-37, EN 50267-2-1, IEC 60754-1
- Hydrocarbons and oil resistance:
- UL1581, VDE 0472 part 803 A/B, HD 22.10 S1, CNOMO E.03.40.150N

5) RoHS COMPLIANT



ROCKWELL P/N	AMPHENOL P/N
2090-CSBM1DF-18AAxx	P30627-Mxx
2090-CSBM1DF-18AA03	P30627-M3
2090-CSBM1DF-18AA05	P30627-M5
2090-CSBM1DF-18AA09	P30627-M9
2090-CSBM1DF-18AA10	P30627-M10
2090-CSBM1DF-18AA15	P30627-M15
2090-CSBM1DF-18AA20	P30627-M20

QUANTITY	PART NUMBER	DESCRIPTION	ITEM
MATERIALS LIST			
UNLESS OTHERWISE SPECIFIED		Amphenol	
1) All dimensions are in metric(mm).		Sine Systems - www.sineco.com	
2) Tolerances are as follows:		44724 Morley Drive	
1 PL DEC ±0.30		Clinton Township, MI 48036	
2 PL DEC ±0.15		SINGLE MOTOR CABLE, M23 CHECKMATE, 1000V HYBRID CABLE WITH 4 POWER (18AWG), 2 FEEDBACK (DIGITAL COMMUNICATION) AND 2 BRAKE CONDUCTORS, DRIVE-END FLYING LEADS	
3 PL DEC ±0.08			
3) Note reference = X		SIZE	REVISION
SIGNATURES		C-	A2
DATE		DWG NO:	C-P30627
DRAWN: MRF 10AUG15		SCALE:	NONE
CHECKED: AA 27OCT17		SHEET	1 OF 1
ENGINEER: RO			
APPROVAL: WS 27OCT17			
MATERIAL SPECIFICATIONS:			
PROCESS SPECIFICATIONS:			
NEXT ASSY:			



DO NOT SCALE DRAWING

TITLE: CABLE ASSEMBLY
 DWG NO: C-P30627-Mxx
 REV: A1
 SH: 1
 OF: 1