

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: $\leq 59,0 \Omega/\text{km}$ (Section 0,34mm²)
- $\leq 26,0 \Omega/\text{km}$ (Section 0,75mm²)
- $\leq 19,5 \Omega/\text{km}$ (Section 1,00mm²)
- Insulation Resistance 20°C: $\leq 500 \text{ M}\Omega\text{xkm}$
- Test Voltage: 3 kVa.c.
- Operating Voltage: 1000Va.c.
- Capacitance 800 ÷ 1000Hz: $45 \pm 15 \text{ pF/m}$ - (2xAWG22)ST/SN (BUS)
- Characteristic Impedance at 10MHz: $110 \pm 10 \Omega$ - (2xAWG22)ST/SN (BUS)
- Capacitance 800 ÷ 1000Hz: $\leq 90 \text{ pF/m}$ (Conductor/Conductor) 4x1mm²
- $\leq 150 \text{ pF/m}$ (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: $\pm 30^\circ/\text{m}$
- 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

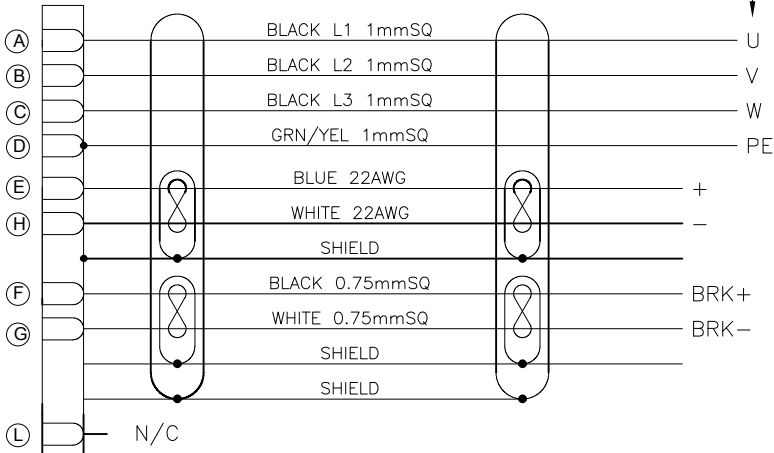
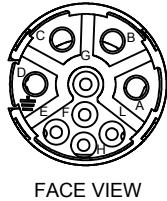
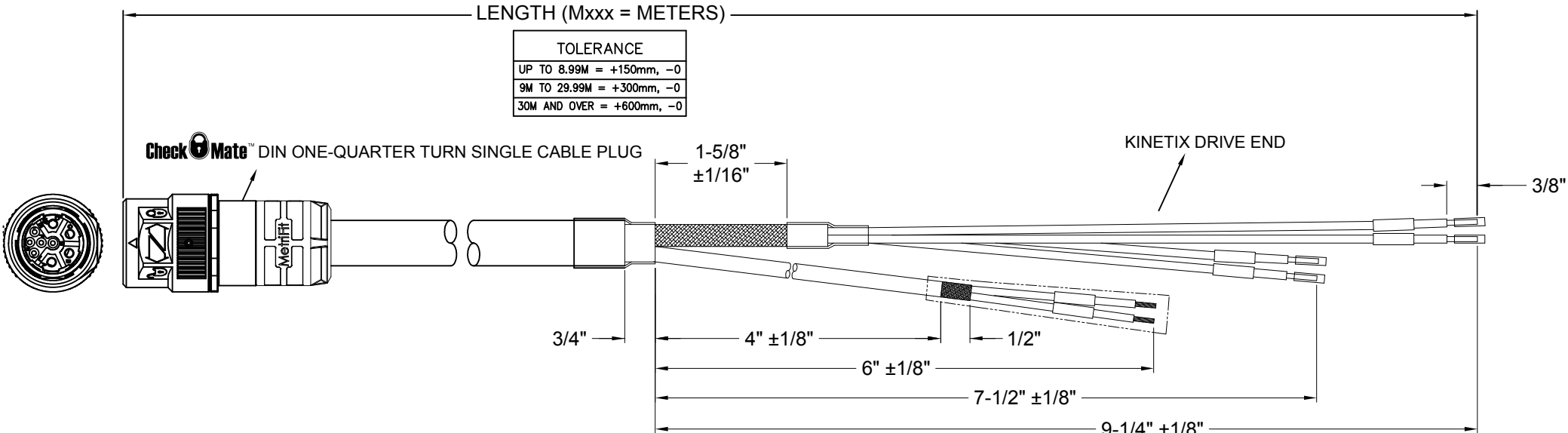
Halogen Free:

- 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



DO NOT SCALE DRAWING

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

Mouser Electronics

Authorized Distributor

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