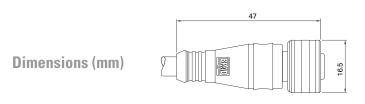
# **ULTRA-LOCK™ CORDSETS**

Ultra-Lock single-keyway M12 cordsets are available with three cable types and manufactured to optimize performance for your application.

- PVC for most standard applications.
- PUR for oil and coolant environments.
- TPE for welding areas and applications requiring repeated cable flexing.

Ultra-Lock cordsets are offered in single- or double-ended configurations. They come with Ultra-Lock connectors on the distribution box end and Ultra-Lock or threaded connectors on the device end. Using threaded connector ends allows immediate use of the Ultra-Lock system with existing threaded devices.





Mates with Ultra-Lock Compatible Sensors and Receptacles



Mechanical

Connector Body Contact Carrier

Locking Mechanism Contact

Contact Plating 0-Ring

Durability

Rated Voltage (IEC 60 664-1)

Insulation Resistance (IEC 60 512-2) Rated Current T amb. 40C (IEC 60 512-3) Contact Resistance (IEC 60 512-2)

**Environmental** 

Pollution Degree (IEC 60 664-1) Protection (IEC 60 529)

Operating Temperature

Certification

PUR PUR

Nickel Plated Brass

Male: Brass Female: Phosphor Bronze Gold over Nickel

Viton 30,000 Mate/Demate

3 & 4-Pole: 250V 5-Pole: 60V

 $>10^{9}\Omega$ 4 A  $<5m\Omega$ 

3

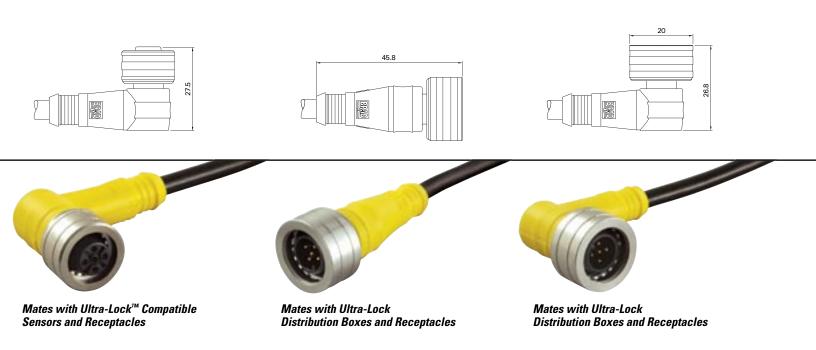
IP 67/68/69K -25°C / 90°C

CSA & UL

For additional product and technical information, visit woodhead.com/ultralock.

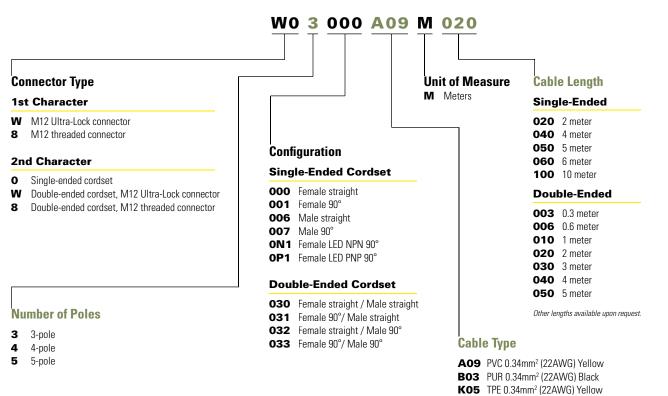


### **Designed For Performance And Reliability**



### ORDERING INFORMATION

Example: W03000A09M020 = Ultra-Lock single-ended cordset, 3-pole, female straight, PVC cable, 2 meters in length.

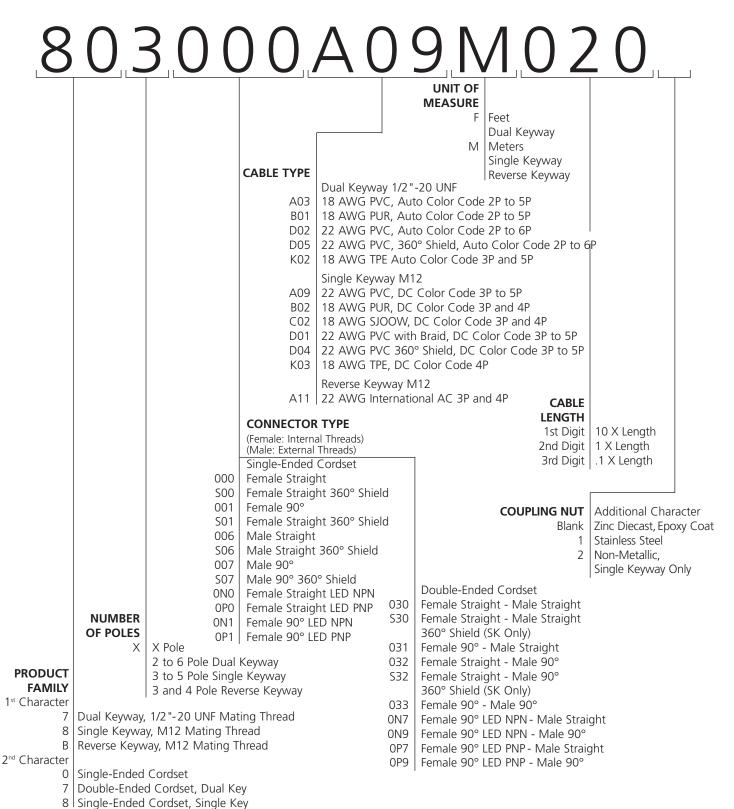


## Cordset Catalog Number Matrix

Below is an example of a properly constructed Cordset part number and how it translates to an actual part.

### 803000A09M020

Micro-Change® Single Keyway M12 3 Pole Female Straight Single-Ended Cordset, 22 AWG PVC Cable with DC Color Code, 2 meters long.



### Micro-Change® Cordsets

3P to 5P

# Single-Ended Cordsets Single Keyway M12

#22 AWG yellow PVC cables with or without braid – DC color code
Oil-resistant PVC jacket for all types of heavy-duty industrial environments
Highly reliable low-resistance contact design with gold/palladium nickel plating

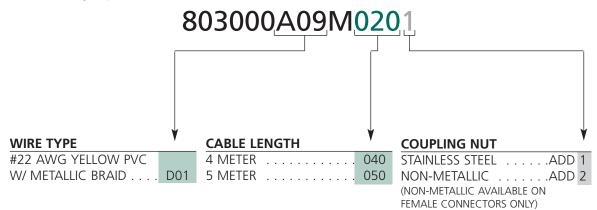
	3P	4P	5P
FEMALE FACE VIEW	1 2 3 3 4 5	2 3 5	1 2 3 3 4 5
COLOR CODE	1- brown 4- black 2- not used 5- not used 3- blue	1- brown 4- black 2- white 5- not used 3- blue	1- brown 4- black 2- white 5- gray 3- blue
VOLTAGE	250V AC/DC	250V AC/DC	250V AC/DC
CURRENT	4A	4A	4A
CONDUCTOR	#22-3	#22-4	#22-5

FEMALE	FIG	SINGLE-ENDED CORDSETS WITH #22 AWG PVC CABLE WITHOUT BRAID 2 METERS LONG			
STRAIGHT	1	803000A09M020	804000A09M020	805000A09M020	
90°	2	803001A09M020	804001A09M020	805001A09M020	
MATING RECEPTACLE*	5	8R3006A18A120	8R4006A18A120	8R5006A18A120	
MALE	FIG	SINGLE-ENDED CORDSETS WITH #22 AWG PVC CABLE WITHOUT BRAID 2 METERS LONG			
STRAIGHT	3	803006A09M020	804006A09M020	805006A09M020	
90°	4	803007A09M020	804007A09M020	805007A09M020	
MATING RECEPTACLE*	6	8R3A00A18A120	8R4A00A18A120	8R5A00A18A120	

### **CATALOG OPTIONS**

\*See Page 116 for additional Mating Receptacles

Use the following chart to modify your part's specifications



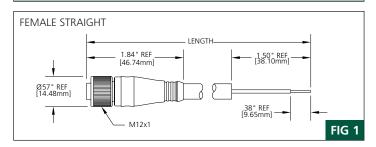


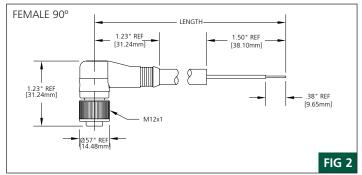
UL LISTED, FILE NO. E152210

CSA CERTIFIED, FILE NO. LR6837

# **Specifications**

### **CONNECTOR DIMENSIONS**



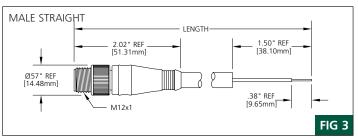


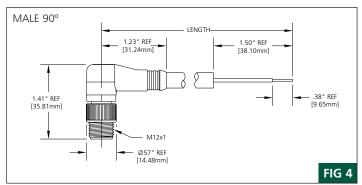
#### CONNECTOR FACE: NYLON 6/6 MOLDED BODY: PVC O-RING: NITRILE RUBBER COUPLING NUT: ZINC DIECAST W/ BLACK EPOXY COAT, OPTIONAL STAINLESS STEEL CATIFIED TYPE 303 OR NON-METALLIC BLACK DELRIN SO 9000 YELLOW #22 AWG PVC JACKET AND CABLE: PVC CONDUCTOR INSULATION OVER 26 X #36 COPPER STRANDING, 300V, UL STYLE 2661, CSA AWM I/II A/B, OPTIONAL 80% METALLIC BRAID OUTSIDE DIAMETER: WITHOUT BRAID WITH BRAID 3P - .18" (4.6mm) 3P - .23" (5.8mm) 4P - .20" (5.1mm) 4P - .25" (6.4mm) 5P - .23" (5.8mm) 5P - .26" (6.6mm) **ELECTRICAL VOLTAGE RATING:** 250 V AC/DC AMPERAGE: 3P - 4A 4P - 4A 5P - 4A ENVIRONMENTAL PROTECTION: IP 68, NEMA 6P AMBIENT OPERATING TEMP: -4° TO 221° F (-20° TO 105° C)

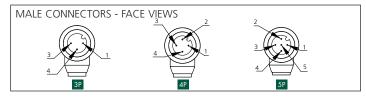
CERTIFICATIONS

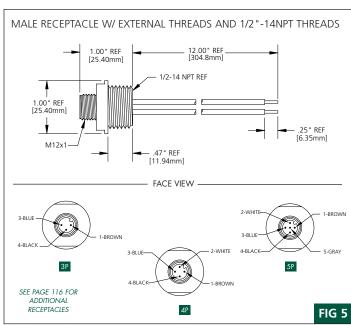
**MECHANICAL** 

# 









**RECEPTACLE DIMENSIONS** 

