

***To Work In This Environment,
You Need The Right Connections***

Ultra-Lock™ Stainless Steel Connection System

Designed Specifically To Meet Plant Sanitation Requirements For:

Food • Beverage • Pharmaceutical • Personal Care Products

BradConnectivity™



Ultra-Lock™ Stainless Steel Connection System

Designed to withstand the rigors of plant sanitation wash-downs

Manufacturers of food & beverage, pharmaceutical and personal care products are required to adhere to strict government sanitation regulations in order to ensure the purity and safety of their products.

To meet these stringent standards, processing systems and handling equipment must be capable of withstanding frequent high temperature, high pressure wash-downs to prevent bacteria growth and cross contamination. The Ultra-Lock™ Stainless Steel product family was specifically designed to meet these requirements and to provide a high reliability connection system.

The Ultra-Lock Stainless Steel Connection System features:

■ **Material Compatibility**

All Ultra-Lock Stainless Steel materials have been tested and approved for use by Ecolab, a global provider of wash-down chemicals.:

- 316 stainless steel hardware
- 100°C rated overmold and cable jacket material
- Chemical-resistant EPDM O-ring
- High-temp engineered plastic contact carrier

The above components were tested in the following Ecolab chemical solutions:

P3-topax® 36 – Especially suitable for the removal of heavy fat and smoke resin residues.

P3-topax® 52 – Liquid acidic cleaning agent for foam cleaning of stainless steel. Especially suitable for the removal of acid-soluble residue (e.g., waterscale). Excellent fat removing properties. Can be used as an aluminum cleaner.

P3-topax® 58 – Liquid acidic cleaning agent based on organic acids.

P3-topax® 66 – Excellent removal of protein/tanning compounds (organic beer scale ingredients).

P3-topactive® – Liquid alkaline cleaning agent for TFC-hygiene procedures.

■ **IP69K Industrial Strength Seal**

The power behind the Ultra-Lock connection system lies in its radial O-ring seal design and “push-to-lock” connection technology. Threaded connectors are not always tightened correctly, compromising sealing integrity that can lead to intermittence, shorts and contamination. Ultra-Lock connectors have built-in reliability, creating a repeatable IP69K seal that can withstand wash-downs up to 1500 psi with one push. They are fast, simple and secure...each and every time.

■ **316 Stainless Steel Couplers**

Smooth-surfaced 316 stainless steel construction and M12-compatible, unthreaded connectors help prevent bacterial growth by limiting the areas where it can collect.

■ **Stress-Free Installation**

This enables fast, easy installation without turning the coupler. Assemblers simply *push down* to connect and *pull up* to disconnect, thus reducing assembly/disassembly time and ergonomic stress.



Ultra-Lock™ Stainless Steel Distribution Boxes

This new Ultra-Lock Stainless Steel distribution box provides IP67 resistance to moisture penetration when coupled with Ultra-Lock male connectors.

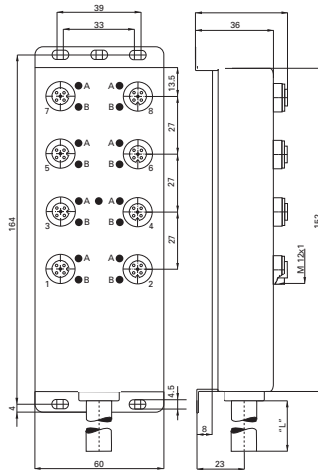
TECHNICAL DATA

Mechanical	
Housing	Stainless Steel
Contact Carrier	PBT
Shell Material	Stainless Steel
Contact	Phosphor Bronze
Contact Plating	Gold over Nickel
Cable Jacket	PVC
O-Ring	EPDM

Electrical	
Rated Voltage (IEC 60 664-1)	10-30V
Insulation Resistance (IEC 60 512-2)	>10 ⁹ Ω
Rated Current T amb. 40C (IEC 60 512-3)	4 Amps per I/O
Maximum Total Current	12 Amps
Contact Resistance (IEC 60 512-2)	<5mΩ

Environmental	
Pollution Degree (IEC 60 664-1)	3
Protection (IEC 60 529)	IP67 (IP69K Pending)
Operating Temperature	80°C

Certification
Pending



ORDERING INFORMATION

Description	w/integral Cable (5 meter)
Dual I/O per port	Part No.
8-Port, 5-Pole/4 wire-dual I/O per port	BKS805P-FBE-05

Ultra-Lock™ Stainless Steel Receptacles

Ultra-Lock receptacles give you greater flexibility because they are designed to accept both Ultra-Lock and standard M12 threaded stainless steel cordsets. Use of Ultra-Lock receptacles with Ultra-Lock cordsets provides IP69K resistance to moisture penetration.

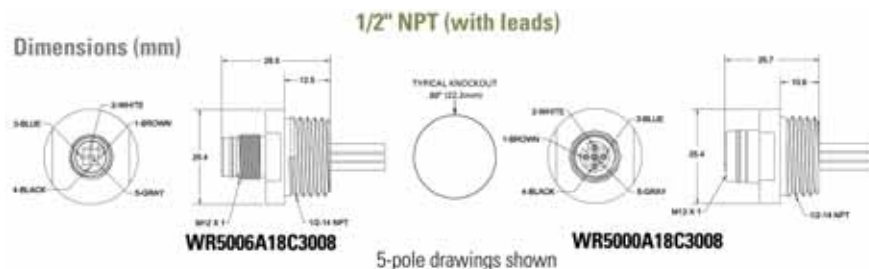
TECHNICAL DATA

Mechanical	
Receptacle Housing	316 Stainless Steel
Contact Carrier	PA 6.6
Contact	Male: Brass Female: Phosphor Bronze
Contact Plating	Gold over Nickel

Electrical	
Rated Voltage	4-Pole: 250V 5-Pole: 60V
Insulation Resistance (IEC 60 512-2)	>10 ⁹ Ω
Contact Resistance (IEC 60 512-2)	<5mΩ

Environmental	
Pollution Degree (IEC 60 664-1)	3
Protection (IEC 60 529)	IP 67/68/69K
Operating Temperature	-25°C / 100°C

Certification
CSA & UL



ORDERING INFORMATION

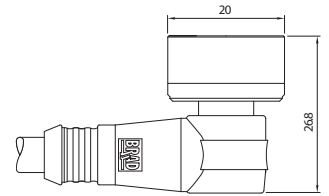
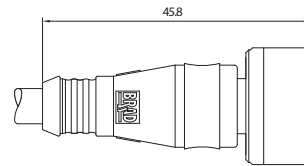
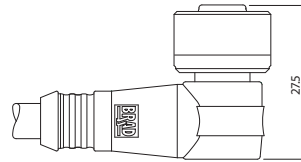
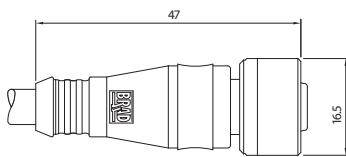
	Front Mount	
	1/2" (with leads)	
	4-Pole	5-Pole
	Part No.	Part No.
Male	WR4006A18C3008	WR5006A18C3008
Female	WR4000A18C3008	WR5000A18C3008

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

Ultra-Lock™ Stainless Steel Cordsets

Ultra-Lock cordsets are offered in single- or double-ended configurations. They come with Ultra-Lock connectors on the male end and Ultra-Lock or threaded connectors on the device end. Use of Ultra-Lock connectors on both ends provides IP69K resistance to moisture penetration. Using threaded connector ends allows immediate use of the Ultra-Lock system with existing threaded devices.

Dimensions (mm)



Mates with Ultra-Lock Compatible Sensors and Receptacles

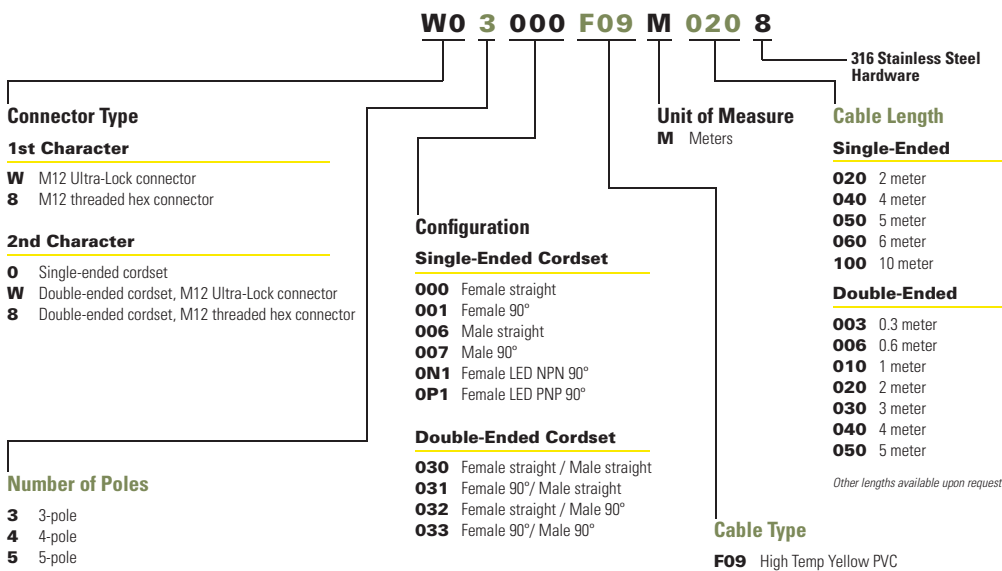
Mates with Ultra-Lock Compatible Sensors and Receptacles

Mates with Ultra-Lock Distribution Boxes and Receptacles

Mates with Ultra-Lock Distribution Boxes and Receptacles

ORDERING INFORMATION

Example: W03000A09M0208 = Ultra-Lock single-ended cordset, 3-pole, female straight, PVC cable, 2 meters in length, 316 stainless steel hardware.



TECHNICAL DATA

Mechanical

Connector Body	High Temp PVC
Contact Carrier	PA 6.6
Locking Mechanism	316 Stainless Steel
Contact	Male: Brass Female: Phosphor Bronze
Contact Plating	Gold over Nickel
O-Ring	EPDM
Durability	30,000 Mate/Demate

Electrical

Rated Voltage (IEC 60 664-1)	3 & 4-Pole: 250V 5-Pole: 60V
Insulation Resistance (IEC 60 512-2)	>10 ⁹ Ω
Rated Current T amb. 40C (IEC 60 512-3)	4 A
Contact Resistance (IEC 60 512-2)	<5mΩ

Environmental

Pollution Degree (IEC 60 664-1)	3
Protection (IEC 60 529)	IP 67/68/69K
Operating Temperature	-25°C / 100°C

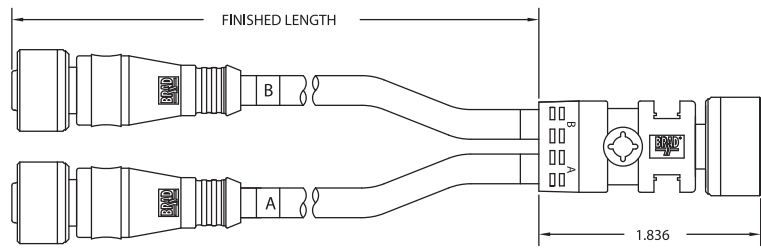
Certification

CSA & UL

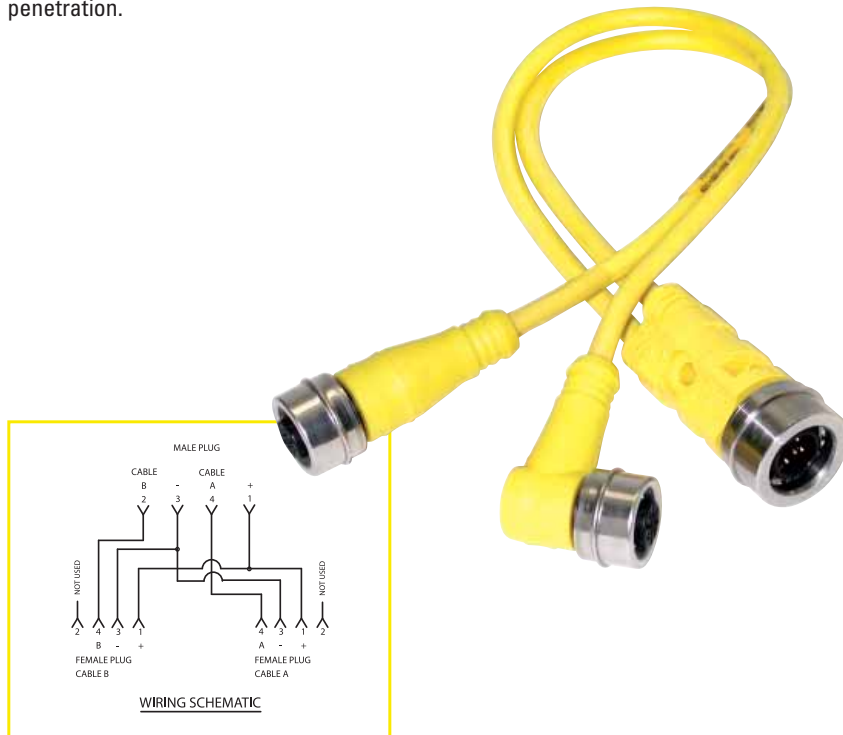
Ultra-Lock™ Stainless Steel In-Line Splitters

Ultra-Lock In-Line Splitters allow you to service two devices through just one connection to the Ultra-Lock dual-I/O distribution box. Splitters are available with straight or right-angle connectors on the device ends.

In-Line Splitters are offered with Ultra-Lock connectors on all ends or with threaded stainless steel connectors on the device ends. Use of Ultra-Lock connectors on all ends provides IP69K resistance to moisture penetration.



Dimensions (mm)



TECHNICAL DATA

Mechanical

Connector Body	High Temp PVC
Contact Carrier	PA 6.6
Locking Mechanism	316 Stainless Steel
Contact	Male: Brass Female: Phosphor Bronze
Contact Plating	Gold over Nickel
O-Ring	EPDM
Durability	30,000 Mate/Demate

Electrical

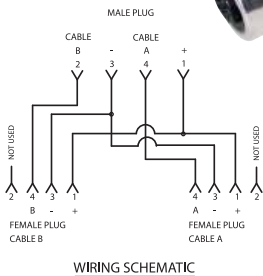
Rated Voltage (IEC 60 664-1)	250V
Insulation Resistance (IEC 60 512-2)	>10 ⁹ Ω
Rated Current T amb. 40C (IEC 60 512-3)	4 A
Contact Resistance (IEC 60 512-2)	<5mΩ

Environmental

Pollution Degree (IEC 60 664-1)	3
Protection (IEC 60 529)	IP 67/68/69K
Operating Temperature	-25°C / 100°C

Certification

CSA & UL



ORDERING INFORMATION

WW 4 A30 F09 M 020 8

Connector Type

1st Character (Device End)

- W** Ultra-Lock™ connector
- 8** Single-keyway, M12 threaded hex connector

2nd Character (Distribution Box End)

- W** Ultra-Lock connector

Number of Poles

- 4** 4-pole (male end)

Configuration

- A30** Female straight connectors
- A31** Female 90° connectors

Unit of Measure

M Meters

Cable Length

Standard Lengths

- 003** 0.3 meter
- 006** 0.6 meter
- 010** 1.0 meter
- 020** 2.0 meter
- 030** 3.0 meter
- 040** 4.0 meter
- 050** 5.0 meter

Cable Type

F09 High Temp Yellow PVC

316 Stainless Steel Hardware



**INDUSTRIAL
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