



# Mini-Sync® & Micro-Sync®

Connectors, Cable Assemblies, & Receptacles



EXPERIENCE. INNOVATION. EXPERTISE.

# Mini-Sync® & Micro-Sync®

Connectors, cable assemblies and receptacles

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# About Ericson Manufacturing

Founded in 1918 with over a century of innovation, experience and expertise has given Ericson the unique opportunity to offer the industry a comprehensive line of products, designed with exceptional worker safety in mind. Robust design and precision manufacturing set Ericson apart for quality products offering exceptionally long service life.

Ericson prides itself on building over 98% of it's products in the US and Canada, giving our customers a reliable and secure supply line.

Our custom engineered products are designed to meet critical customer requirements for their most challenging applications and exceed their expectations, for highly engineered quality built products.

Thank you for considering Ericson Manufacturing products.



**ERICSON®**  
SAFETY IS OUR STANDARD



# Mini-Sync® & Micro-Sync®

## Connectors, Cable Assemblies & Receptacles



### Industry Leading Features:

- NEMA 6P and IP68 Protection
- Made in the USA
- Compatible with U.S. and European sensors
- High-impact resistant contact carriers
- Corrosion resistant gold plated contacts
- Secure pin and contact crimp termination
- Mechanically keyed
- Field installable
- Stress and harsh environment resistant
- Vibration resistant
- Designed for low amperage AC or DC control systems
- Wide range of configuration alternatives available including male and female connections, 2 thru 12 pole pin-outs, straight 90° configurations and single or dual keyway



### Product Application Guide

Product	Connects To	Application
<b>Mini-Sync Connectors</b>	<ul style="list-style-type: none"> <li>• 12 &amp; 18mm Sensors &amp; Actuators</li> <li>• Solenoids &amp; Hydraulic Valves</li> <li>• Fractional HP Motors</li> <li>• Proximity, Pressure &amp; Limit Switches</li> <li>• Power Tools &amp; Foot Operated Switches</li> <li>• Controls For Cranes &amp; Hoists</li> </ul>	<ul style="list-style-type: none"> <li>• Material Handling Systems</li> <li>• Assembly &amp; Packaging Lines</li> <li>• Conveyors</li> <li>• OEM Machines &amp; Equipment</li> <li>• Robotics</li> <li>• Transportation Equipment</li> </ul>
<b>Micro-Sync Connectors</b>	<ul style="list-style-type: none"> <li>• M12 Sensors &amp; Actuators</li> <li>• Modular Controls and Solenoids</li> <li>• 12 &amp; 18mm Sensors &amp; Actuators</li> <li>• Photoelectric Switches</li> <li>• Proximity, Pressure &amp; Limit Switches</li> <li>• Hydraulic &amp; Pneumatic Valves</li> </ul>	<ul style="list-style-type: none"> <li>• Conveyors</li> <li>• Pick-N-Place Robots &amp; Machines</li> <li>• Assembly &amp; Packaging Lines</li> <li>• OEM Machines &amp; Equipment</li> <li>• Transfer Lines</li> <li>• Automated Machinery</li> </ul>

### Unique Features:



IP68 & NEMA 6P Protection



Brass, Gold Plated over Nickel contacts to ensure secure fit and connection



IP68 & NEMA6P protection. Stainless Steel contact sleeve



Sealing Caps available for inlets, outlets, plugs and connectors.



# MINI-SYNC®

## Selection Guide Overview



### 2-12 Pole / PVC Cable Assemblies – Male & Female, Straight & 90°

Materials	
Body	PVC
Contact Carrier	Nitrile Rubber
Contact Sleeve	Stainless Steel
Contact	Brass, Gold Plated over Nickel
Coupling Nut	Machined Aluminum, Black Anodized
Cable #*	#16 AWG Type PVC, 65 x #34 stranding 105°C
Certifications	UL Recognized, CSA Certified
Cable Diameters	2/C-.17" 3/C-.18" 4/C-.19" 5/C-.21" 6/C-.22"
Electrical	
Voltage Rating	600VAC
Contact Resistance	<5m Ω
Environmental	
Protection	IP68, NEMA 6P
Operating Temp	-20°C to 105°C

\*Consult the factory for custom wire length and a full range of wire management product accessories. See pg 17 for custom design cordsets.

\*\* Stainless steel available

### 2-12 Pole Receptacles

Materials	
Insert Materials	Nitrile Rubber
"O" Ring	Viton
Contact Sleeve	Stainless Steel
Shell	Machined Aluminum, Black Anodized**
Cable #*	#16 AWG Type PVC, 65 x #34 stranding 105°C
Electrical	
Voltage Rating	600VAC
Contact Resistance	<5m Ω
Environmental	
Protection	IP68, NEMA 6P
Operating Temp	-50C to 90C (UL) and -34C to 90C (CSA)

# Mini-Sync® Receptacle Selection Guide

## 2-12 Pole Receptacles



Poles	Face View	Electrical Rating	Wiring Code	Overall Length	MINI-SYNC Straight Male	MINI-SYNC Male 90°
2		13A / 600VAC	1- White 2-Black	12 in.	82MRC	82FRC
3		13A / 600VAC	1- Green 2- Black 3- White	12 in.	83MRC	83FRC
4		10A / 600VAC	1- Black 2- White 3- Red 4- Green	12 in.	84MRC	84FRC
5		8A / 600VAC	1- White 2- Red 3- Green 4- Orange 5-Black	12 in.	85MRC	85FRC
6		8A / 600VAC	1- White 2- Red 3- Green 4- Black 5- Orange 6- Blue	12 in.	86MRC	86FRC
6B		8A / 600VAC	1- White 2- Red 3- Green 4- Black 5- Orange 6- Blue	12 in.	86BMRC	86BFRC
8		8A / 600VAC	1- White 2- Red 3- Green 4- Black 5- Orange 6- Blue 7-Green 8- White-Blk.Tr.	12 in.	88MRC	88FRC
9		7A / 600VAC	1- Orange 2- Blue 3- Red-Blk.Tr. 4- Green-Blk.Tr. 5- White 6- Red 7- Green 8- White-Blk.Tr. 9- Black	12 in.	89MRC	89FRC
10		7A / 600VAC	1- Orange 2- Blue 3- White-Blk.Tr. 4- Red-Blk.Tr. 5- Green-Blk.Tr. 6- Orange-Blk.Tr. 7- Red 8- Green 9- Black 10- White	12 in.	810MRC	810FRC
12		7A / 600VAC	1- Orange 2- Blue 3- White-Blk.Tr. 4- Red-Blk.Tr. 5- Green-Blk.Tr. 6- Orange-Blk.Tr. 7- Blue-Blk.Tr. 8- Black-Wht.Tr. 9- Green 10- Red 11- White 12- Black	12 in.	812MRC	812FRC

# Mini-Sync® Receptacle Cordset Selection Guide

2-6 Pole, Male & Female – Straight & 90°



Poles	Face View	Electrical Rating	Wiring Code	Overall Length (ft./m.)	MINI-SYNC Straight Male	MINI-SYNC Male 90°	MINI-SYNC Straight Female	MINI-SYNC Female 90°
2	<b>MALE</b>  <b>FEMALE</b> 	13A / 600VAC	1- White 2- Black	3 ft. / 0.91 m.	82MS003A	82M9003A	82FS003A	82F9003A
				6 ft. / 1.83 m.	82MS006A	82M9006A	82FS006A	82F9006A
				12 ft. / 3.66 m.	82MS012A	82M9012A	82FS012A	82F9012A
				15 ft. / 3.66 m.	82MS015A	82M9015A	82FS015A	82F9015A
				20 ft. / 6.10 m.	82MS020A	82M9020A	82FS020A	82F9020A
3	<b>MALE</b>  <b>FEMALE</b> 	13A / 600VAC	1- Green 2- Black 3- White	3 ft. / 0.91 m.	83MS003A	83M9003A	83FS003A	83F9003A
				6 ft. / 1.83 m.	83MS006A	83M9006A	83FS006A	83F9006A
				12 ft. / 3.66 m.	83MS012A	83M9012A	83FS012A	83F9012A
				15 ft. / 3.66 m.	83MS015A	83M9015A	83FS015A	83F9015A
				20 ft. / 6.10 m.	83MS020A	83M9020A	83FS020A	83F9020A
4	<b>MALE</b>  <b>FEMALE</b> 	10A / 600VAC	1- Black 2- White 3- Red 4- Green	3 ft. / 0.91 m.	84MS003A	84M9003A	84FS003A	84F9003A
				6 ft. / 1.83 m.	84MS006A	84M9006A	84FS006A	84F9006A
				12 ft. / 3.66 m.	84MS012A	84M9012A	84FS012A	84F9012A
				15 ft. / 3.66 m.	84MS015A	84M9015A	84FS015A	84F9015A
				20 ft. / 6.10 m.	84MS020A	84M9020A	84FS020A	84F9020A
5	<b>MALE</b>  <b>FEMALE</b> 	8A / 600VAC	1- White 2- Red 3- Green 4- Orange 5- Black	3 ft. / 0.91 m.	85MS003A	85M9003A	85FS003A	85F9003A
				6 ft. / 1.83 m.	85MS006A	85M9006A	85FS006A	85F9006A
				12 ft. / 3.66 m.	85MS012A	85M9012A	85FS012A	85F9012A
				15 ft. / 3.66 m.	85MS015A	85M9015A	85FS015A	85F9015A
				20 ft. / 6.10 m.	85MS020A	85M9020A	85FS020A	85F9020A
6	<b>MALE</b>  <b>FEMALE</b> 	8A / 600VAC	1- White 2- Red 3- Green 4- Orange 5- Black 6- Blue	3 ft. / 0.91 m.	86MS003A	86M9003A	86FS003A	86F9003A
				6 ft. / 1.83 m.	86MS006A	86M9006A	86FS006A	86F9006A
				12 ft. / 3.66 m.	86MS012A	86M9012A	86FS012A	86F9012A
				15 ft. / 3.66 m.	86MS015A	86M9015A	86FS015A	86F9015A
				20 ft. / 6.10 m.	86MS020A	86M9020A	86FS020A	86F9020A

# Mini-Sync® Receptacle Cordet Selection Guide

## 6B-12 Pole, Male & Female – Straight & 90°

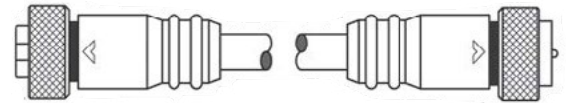


Poles	Face View	Electrical Rating	Wiring Code	Overall Length (ft./m.)	MINI-SYNC Straight Male	MINI-SYNC Male 90°	MINI-SYNC Straight Female	MINI-SYNC Female 90°
6B		8A / 600VAC	1- White 2- Red 3- Green 4- Black 5- Orange 6- Blue	3 ft. / 0.91 m.	86BMS003A	86BM9003A	86BFS003A	86BF9003A
				6 ft. / 1.83 m.	86BMS006A	86BM9006A	86BFS006A	86BF9006A
				12 ft. / 3.66 m.	86BMS012A	86BM9012A	86BFS012A	86BF9012A
				15 ft. / 3.66 m.	86BMS015A	86BM9015A	86BFS015A	86BF9015A
				20 ft. / 6.10 m.	86BMS020A	86BM9020A	86BFS020A	86BF9020A
7		7A / 600VAC	1- White 2- Red 3- Green 4- Black 5- Orange 6- Blue 7- Green	3 ft. / 0.91 m.	87MS003A	87M9003A	87FS003A	87F9003A
				6 ft. / 1.83 m.	87MS006A	87M9006A	87FS006A	87F9006A
				12 ft. / 3.66 m.	87MS012A	87M9012A	87FS012A	87F9012A
				15 ft. / 3.66 m.	87MS015A	87M9015A	87FS015A	87F9015A
				20 ft. / 6.10 m.	87MS020A	87M9020A	87FS020A	87F9020A
8		7A / 600VAC	1- White 2- Red 3- Green 4- Black 5- Orange 6- Blue 7- Green 8- White-Blk.Tr.	3 ft. / 0.91 m.	88MS003A	88M9003A	88FS003A	88F9003A
				6 ft. / 1.83 m.	88MS006A	88M9006A	88FS006A	88F9006A
				12 ft. / 3.66 m.	88MS012A	88M9012A	88FS012A	88F9012A
				15 ft. / 3.66 m.	88MS015A	88M9015A	88FS015A	88F9015A
				20 ft. / 6.10 m.	88MS020A	88M9020A	88FS020A	88F9020A
9		7A / 600VAC	1- Orange 2- Blue 3- Red-Blk.Tr. 4- Green-Blk.Tr. 5- White 6- Red 7- Green 8- White-Blk.Tr. 9- Black	3 ft. / 0.91 m.	89MS003A	89M9003A	89FS003A	89F9003A
				6 ft. / 1.83 m.	89MS006A	89M9006A	89FS006A	89F9006A
				12 ft. / 3.66 m.	89MS012A	89M9012A	89FS012A	89F9012A
				15 ft. / 3.66 m.	89MS015A	89M9015A	89FS015A	89F9015A
				20 ft. / 6.10 m.	89MS020A	89M9020A	89FS020A	89F9020A
10		7A / 600VAC	1- Orange 2- Blue 3- White-Blk.Tr. 4- Red-Blk.Tr. 5- Green-Blk.Tr. 6- Orange-Blk.Tr. 7- Red 8- Green 9- Black 10- White	3 ft. / 0.91 m.	810MS003A	810M9003A	810FS003A	810F9003A
				6 ft. / 1.83 m.	810MS006A	810M9006A	810FS006A	810F9006A
				12 ft. / 3.66 m.	810MS012A	810M9012A	810FS012A	810F9012A
				15 ft. / 3.66 m.	810MS015A	810M9015A	810FS015A	810F9015A
				20 ft. / 6.10 m.	810MS020A	810M9020A	810FS020A	810F9020A
12		7A / 600VAC	1- Orange 2- Blue 3- White-Blk.Tr. 4- Red-Blk.Tr. 5- Green-Blk.Tr. 6- Orange-Blk.Tr. 7- Blue-Blk.Tr. 8- Black-Wht.Tr. 9- Green 10- Red 11- White 12- Black	3 ft. / 0.91 m.	812MS003A	812M9003A	812FS003A	812F9003A
				6 ft. / 1.83 m.	812MS006A	812M9006A	812FS006A	812F9006A
				12 ft. / 3.66 m.	812MS012A	812M9012A	812FS012A	812F9012A
				15 ft. / 3.66 m.	812MS015A	812M9015A	812FS015A	812F9015A
				20 ft. / 6.10 m.	812MS020A	812M9020A	812FS020A	812F9020A



# Mini-Sync® Cable Assemblies Guide

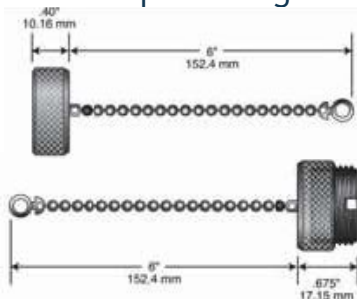
## PVC Cable Assemblies



Poles	Face View	Electrical Rating	Wiring Code	Overall Length (ft./m.)	MINI-SYNC Male/Female Straight	MINI-SYNC Male 90°/Female Straight	MINI-SYNC Male 90°/Female 90°	MINI-SYNC Female 90°/Straight Male
2		13A / 600VAC	1- White 2- Black	3 ft. / 0.91 m.	82FMS003A	82M9FS003A	82F9M9003A	82F9MS003A
				6 ft. / 1.83 m.	82FMS006A	82M9FS006A	82F9M9006A	82F9MS006A
				12 ft. / 3.66 m.	82FMS012A	82M9FS012A	82F9M9012A	82F9MS012A
				15 ft. / 3.66 m.	82FMS015A	82M9FS015A	82F9M9015A	82F9MS015A
				20 ft. / 6.10 m.	82FMS020A	82M9FS020A	82F9M9020A	82F9MS020A
3		13A / 600VAC	1- Green 2- Black 3- White	3 ft. / 0.91 m.	83FMS003A	83M9FS003A	83F9M9003A	83F9MS003A
				6 ft. / 1.83 m.	83FMS006A	83M9FS006A	83F9M9006A	83F9MS006A
				12 ft. / 3.66 m.	83FMS012A	83M9FS012A	83F9M9012A	83F9MS012A
				15 ft. / 3.66 m.	83FMS015A	83M9FS015A	83F9M9015A	83F9MS015A
				20 ft. / 6.10 m.	83FMS020A	83M9FS020A	83F9M9020A	83F9MS020A
4		10A / 600VAC	1- Black 2- White 3- Red 4- Green	3 ft. / 0.91 m.	84FMS003A	84M9FS003A	84F9M9003A	84F9MS003A
				6 ft. / 1.83 m.	84FMS006A	84M9FS006A	84F9M9006A	84F9MS006A
				12 ft. / 3.66 m.	84FMS012A	84M9FS012A	84F9M9012A	84F9MS012A
				15 ft. / 3.66 m.	84FMS015A	84M9FS015A	84F9M9015A	84F9MS015A
				20 ft. / 6.10 m.	84FMS020A	84M9FS020A	84F9M9020A	84F9MS020A
5		8A / 600VAC	1- White 2- Red 3- Green 4- Orange 5- Black	3 ft. / 0.91 m.	85FMS003A	85M9FS003A	85F9M9003A	85F9MS003A
				6 ft. / 1.83 m.	85FMS006A	85M9FS006A	85F9M9006A	85F9MS006A
				12 ft. / 3.66 m.	85FMS012A	85M9FS012A	85F9M9012A	85F9MS012A
				15 ft. / 3.66 m.	85FMS015A	85M9FS015A	85F9M9015A	85F9MS015A
				20 ft. / 6.10 m.	85FMS020A	85M9FS020A	85F9M9020A	85F9MS020A
6		8A / 600VAC	1- White 2- Red 3- Green 4- Orange 5- Black 6- Blue	3 ft. / 0.91 m.	86MS003A	86M9003A	86FS003A	86F9003A
				6 ft. / 1.83 m.	86MS006A	86M9006A	86FS006A	86F9006A
				12 ft. / 3.66 m.	86MS012A	86M9012A	86FS012A	86F9012A
				15 ft. / 3.66 m.	86MS015A	86M9015A	86FS015A	86F9015A
				20 ft. / 6.10 m.	86MS020A	86M9020A	86FS020A	86F9020A

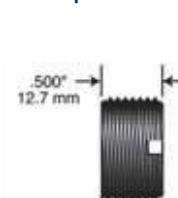
## Wire Management Accessories

### Closure Caps for Plugs & Receptacles



# of Poles	Plugs	Receptacles
2, 3, 4, 5, or 6 (A Size)	826AETCC	826AITCC
6 (B Size), 7, or 8	86B8ETCC	86B8ETCC
9, 10, or 12v	8912ETCC	8912ITCC

### Adapter for Joining 2 Cable Assemblies

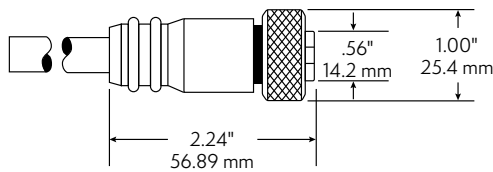


# of Poles	Plugs
2, 3, 4, 5, or 6 (A Size)	826AJAD
6 (B Size), 7, or 8	86B8JAD
9, 10, or 12	8912JAD

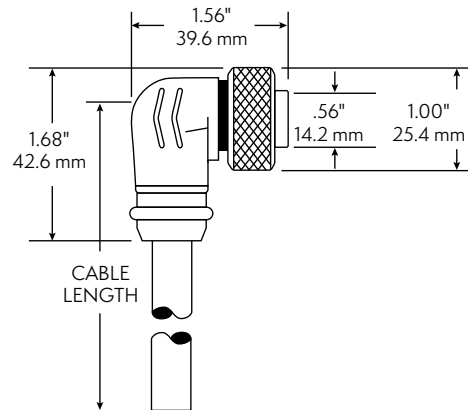
# Mini-Sync® Dimensions

## 2-6 Pole, Male & Female

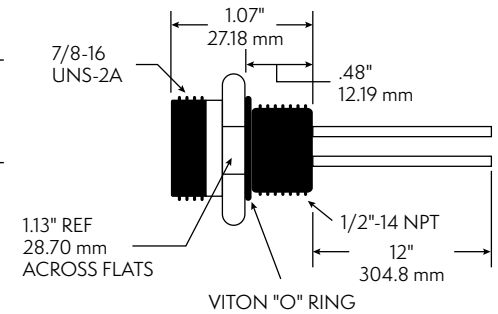
### Straight Connector



### 90° Connector

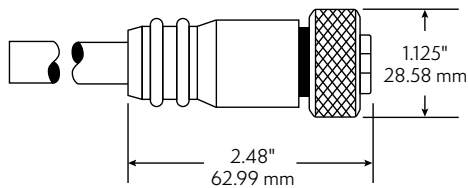


### Receptacle

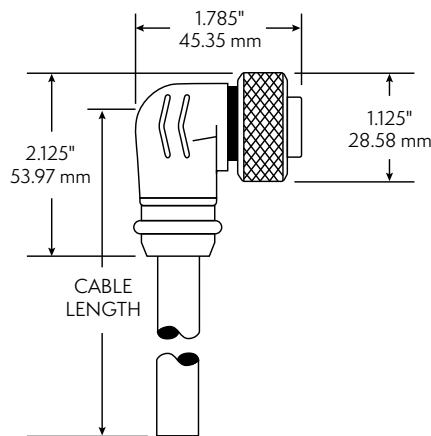


## 6B-8 Pole, Male & Female

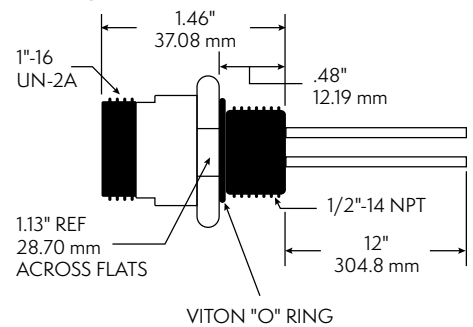
### Straight Connector



### 90° Connector

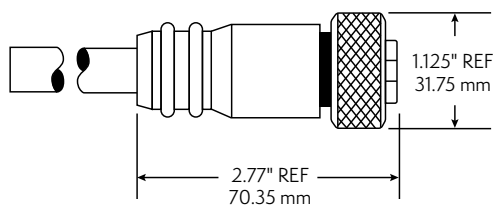


### Receptacle

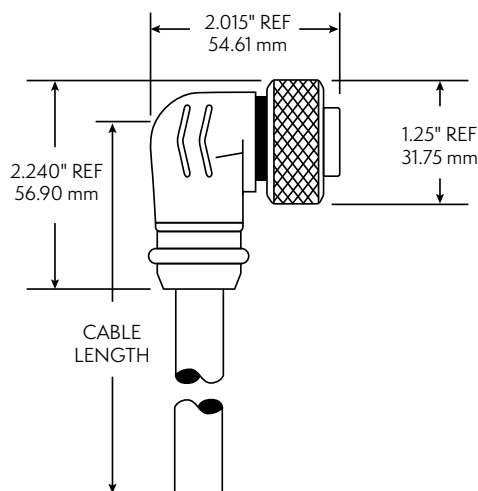


## 9-12 Pole, Male & Female

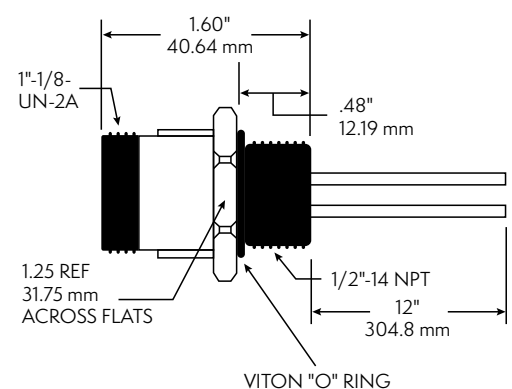
### Straight Connector



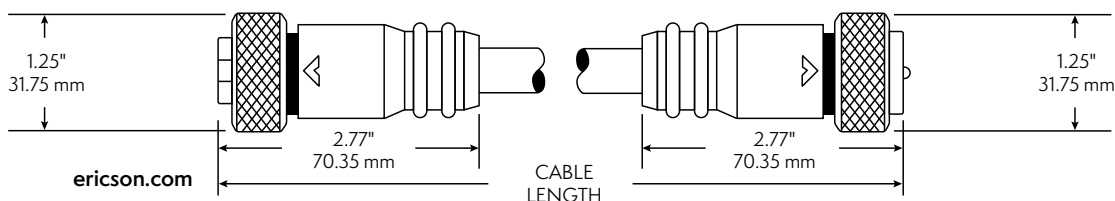
### 90° Connector



### Receptacle



## PVC Cable Assemblies, Male & Female Corset



# MICRO-SYNC®

## Selection Guide Overview



### Single Key (DC) and Dual Key (AC) – Male & Female, Straight & 90° / Cable Assemblies

Materials	
Body	PVC
"O" Ring	Nitrile Rubber
Contact Carrier	Zytel ST801
Contact	Brass, Gold Plated over Nickel
Coupling Nut	Machined Aluminum, Clear Anodized
Cable #*	#22 AWG PVC 26 x #36 stranding, 105°C, or #18 AWG PVC 41 x #34 stranding, 105°C
Certifications	UL Recognized, CSA Certified
Cable Diameters	#22 AWG PVC w/o braid 2/C-.17" 3/C-.18" 4/C-.19" 5/C-.21" 6/C-.22"
Electrical	
Voltage Rating	300V, AC & DC
Current Rating	#22 AWG 2 to 5 Pole – 4A, 6 Pole – 3A, #18 AWG – 5A
Contact Resistance	<5m Ω
Environmental	
Protection	IP68, NEMA 6P
Operating Temp	-20°C to 105°C

### Single Key (DC) and Dual Key (AC) – Receptacles

Materials	
Insert Materials	Zytel ST801
"O" Ring	Nitrile Rubber
Contact	Brass, Gold Plated over Nickel
Shell	Machined Aluminum, Clear Anodized
Lock Nut	Plated Steel
Wire	#22 AWG PVC Insulated 26 x #36 stranding, 80°C
Electrical	
Voltage Rating	300V, AC & DC
Current Rating	#22 AWG 2 to 5 Pole – 4A, 6 Pole – 3A, #18 AWG – 5A
Contact Resistance	<5m Ω
Environmental	
Protection	IP68, NEMA 6P
Operating Temp	-20°C to 105°C

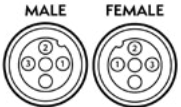
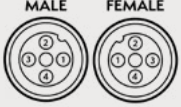
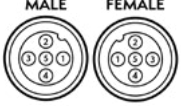
\*Consult the factory for custom wire length and a full range of wire management product accessories. See pg 17 for custom design cordsets.

\*\* Stainless steel available

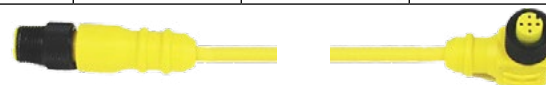
# Micro-Sync® Receptacle & Cordset Selection Guide

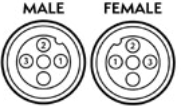
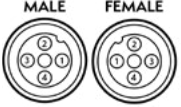
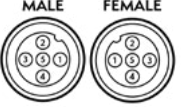
## Single Key (DC), Receptacles



Poles	Face View	Electrical Rating	Wiring Code	Overall Length (m./ft.)	MICRO-SYNC DC Male 1/2" NPT	MICRO-SYNC DC Male M14 x 1	MICRO-SYNC DC Female 1/4" NPT	MICRO-SYNC DC Female Back Panel
3		4A / 300VDC	1- Brown 2- N/A 3- Blue 4- Black	12 inches	93MRK2	93MRK4	93FRK1	93FRK3
4		4A / 300VDC	1- Brown 2- White	12 inches	94MRK2	94MRK4	94FRK1	94FRK3
5		4A / 300VDC	1- Brown 2- White 3- Blue 4- Black 5- Grey	12 inches	95MRK2	95MRK4	95FRK1	95FRK3

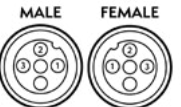
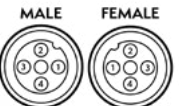
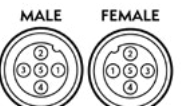
## Single Key (DC), Male & Female – Straight & 90°



Poles	Face View	Electrical Rating	Wiring Code	Overall Length (m./ft.)	MICRO-SYNC Straight Male	MICRO-SYNC Male 90°	MICRO-SYNC Straight Female	MICRO-SYNC Female 90°
3		4A / 300VDC	1- Brown 2- N/A 3- Blue 4- Black	2 m. / 6.6 ft.	93MSE2G	93M9E2G	93FS2G	93F92G
				4 m. / 13.1 ft.	93MSE4G	93M9E4G	93FS4G	93F94G
				5 m. / 16.3 ft.	93MSE5G	93M9E5G	93FS5G	93F95G
4		4A / 300VDC	1- Brown 2- White 3- Blue 4- Black	2 m. / 6.6 ft.	94MSE2G	94M9E2G	94FS2G	94F92G
				4 m. / 13.1 ft.	94MSE4G	94M9E4G	94FS4G	94F94G
				5 m. / 16.3 ft.	94MSE5G	94M9E5G	94FS5G	94F95G
5		4A / 300VDC	1- Brown 2- White 3- Blue 4- Black 5- Grey	3 ft. / 0.91 m.	95MSE2G	95M9E2G	95FS2G	95F92G
				6 ft. / 1.83 m.	95MSE4G	95M9E4G	95FS4G	95F94G
				12 ft. / 3.66 m.	95MSE5G	95M9E5G	95FS5G	95F95G

## Single Key (DC), Cable Assemblies



Poles	Face View	Electrical Rating	Wiring Code	Overall Length (ft./m.)	MICRO-SYNC DC Female/Male Straight
3		4A / 300VDC	1- Brown 2- N/A 3- Blue 4- Black	6 ft. / 1.8 m	93FMSE2G
				12 ft. / 3.6 m	93FMSE4G
				20 ft / 6.1 m	93FMSE5G
4		4A / 300VDC	1- Brown 2- White 3- Blue 4- Black	6 ft. / 1.8 m	94FMSE2G
				12 ft. / 3.6 m	94FMSE4G
				20 ft / 6.1 m	94FMSE5G
5		4A / 300VDC	1- Brown 2- White 3- Blue 4- Black 5- Grey	6 ft. / 1.8 m	95FMSE2G
				12 ft. / 3.6 m	95FMSE4G
				20 ft / 6.1 m	95FMSE5G

# Micro-Sync® Receptacle & Cordset Selection Guide



## Dual Key (AC), Receptacles

Poles	Face View	Electrical Rating	Wiring Code	Overall Length (ft./m.)	MICRO-SYNC Straight Male	MICRO-SYNC Male 90°	MICRO-SYNC Straight Female	MICRO-SYNC Female 90°
2		4A / 300VAC	1- Brown 2- Blue	12 Inches	72MRK2	72MRK1	72FRK1	72FRK3
3		4A / 300VAC	1- Brown 2- Red/Black 3- Red/White	12 Inches	73MRK2	73MRK1	73FRK1	73FRK3
4		4A / 300VAC	1- Red/Black 2- Red/White 3- Red 4- Green	12 Inches	74MRK2	74MRK1	74FRK1	74FRK3
5		4A / 300VAC	1- Red/White 2- Red 3- Green 4- Red/Yellow 5- Red/Black	12 Inches	75MRK2	75MRK1	75FRK1	75FRK3
6		4A / 300VAC	1- Red/White 2- Red 3- Green 4- Red/Yellow 5- Red/Black 6- Red/Blue	12 Inches	76MRK2	76MRK1	76FRK1	N/A

## Dual Key (AC), Male & Female – Straight & 90°



Poles	Face View	Electrical Rating	Wiring Code	Overall Length (ft./m.)	MICRO-SYNC Straight Male	MICRO-SYNC Male 90°	MICRO-SYNC Straight Female	MICRO-SYNC Female 90°
2		4A / 300VAC	1- Brown 2- Blue	6 ft. / 1.8 m.	72MSE006F	72M9E006F	72FS006F	72F9006F
				12 ft. / 3.6 m.	72MSE012F	72M9E012F	72FS012F	72F9012F
				20 ft. / 6.1 m.	72MSE020F	72M9E020F	72FS020F	72F9020F
3		4A / 300VAC	1- Brown 2- Red/Black 3- Red/White	6 ft. / 1.8 m.	73MSE006F	73M9E006F	73FS006F	73F9006F
				12 ft. / 3.6 m.	73MSE012F	73M9E012F	73FS012F	73F9012F
				20 ft. / 6.1 m.	73MSE020F	73M9E020F	73FS020F	73F9020F
4		4A / 300VAC	1- Red/Black 2- Red/White 3- Red 4- Green	6 ft. / 1.8 m.	74MSE006F	74M9E006F	74FS006F	74F9006F
				12 ft. / 3.6 m.	74MSE012F	74M9E012F	74FS012F	74F9012F
				20 ft. / 6.1 m.	74MSE020F	74M9E020F	74FS020F	74F9020F
5		4A / 300VAC	1- Red/White 2- Red 3- Green 4- Red/Yellow 5- Red/Black	6 ft. / 1.8 m.	75MSE006F	75M9E006F	75FS006F	75F9006F
				12 ft. / 3.6 m.	75MSE012F	75M9E012F	75FS012F	75F9012F
				20 ft. / 6.1 m.	75MSE020F	75M9E020F	75FS020F	75F9020F
6		4A / 300VAC	1- Red/White 2- Red 3- Green 4- Red/Yellow 5- Red/Black 6- Red/Blue	6 ft. / 1.8 m.	76MSE006F	76M9E006F	76FS006F	76F9006F
				12 ft. / 3.6 m.	76MSE012F	76M9E012F	76FS012F	76F9012F
				20 ft. / 6.1 m.	76MSE020F	76M9E020F	76FS020F	76F9020F



# Micro-Sync® Receptacle Selection Guide

## Dual Key (AC), Cable Assemblies



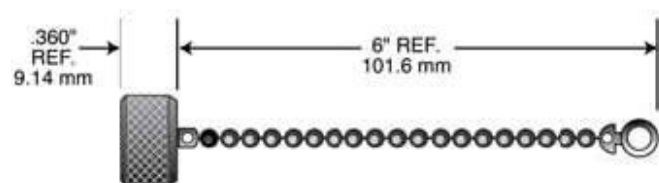
Poles	Face View	Electrical Rating	Wiring Code	Overall Length (ft./m.)	MICRO-SYNC DC Female/Male Straight
2		4A / 300VAC	1- Brown 2- Blue	6 ft. / 1.8 m	72FMSE006F
				12 ft. / 3.6 m	72FMSE012F
				20 ft / 6.1 m	72FMSE020F
3		4A / 300VAC	1- Brown 2- N/A 3- Blue 4- Black	6 ft. / 1.8 m	73FMSE006F
				12 ft. / 3.6 m	73FMSE012F
				20 ft / 6.1 m	73FMSE020F
4		4A / 300VAC	1- Brown 2- White 3- Blue 4- Black 5- Grey	6 ft. / 1.8 m	74FMSE006F
				12 ft. / 3.6 m	74FMSE012F
				20 ft / 6.1 m	74FMSE020F
5		4A / 300VAC	1- Brown 2- White 3- Blue 4- Black 5- Grey	6 ft. / 1.8 m	75FMSE006F
				12 ft. / 3.6 m	75FMSE012F
				20 ft / 6.1 m	75FMSE020F
6		4A / 300VAC	1- Red/White 2- Red 3- Green 4- Red/Yellow 5- Red/Black 6- Red/Blue	6 ft. / 1.8 m	76FMSE006F
				12 ft. / 3.6 m	76FMSE012F
				20 ft / 6.1 m	76FMSE020F

\*Consult the factory for custom wire length and a full range of wire management product accessories. See pg 17 for custom design cordsets.

\*\* Stainless steel available

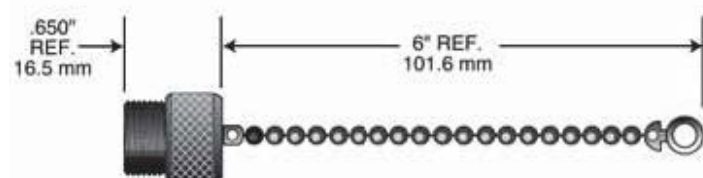
## Wire Management Accessories

### Closure Caps for Plugs and Receptacles with *Internal* Threads



Single Key (M12)	Dual Key (1/2-20)
9ETSKCC	7ETDKCC

### Closure Caps for Plugs and Receptacles with *External* Threads

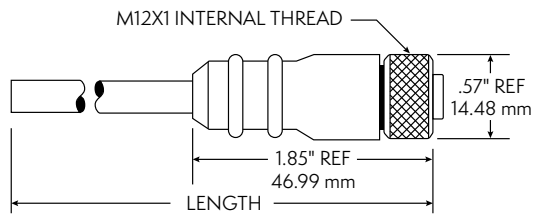


Single Key (M12)	Dual Key (1/2-20)
9ITSKCC	9ITSKCC

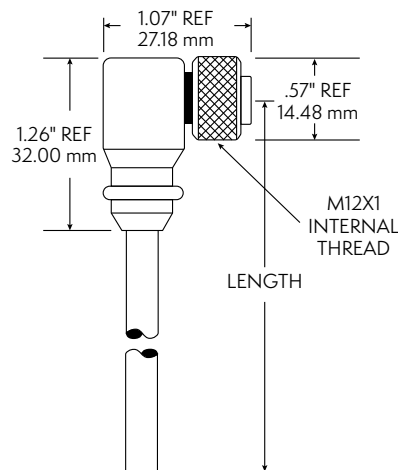
# Micro-Sync® Dimensions

## Single Key (DC), Male & Female – Straight & 90°

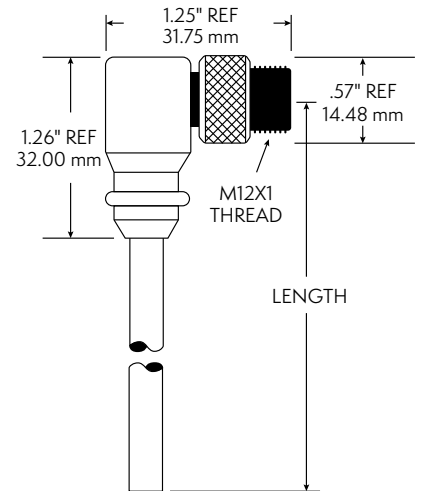
### Female Straight



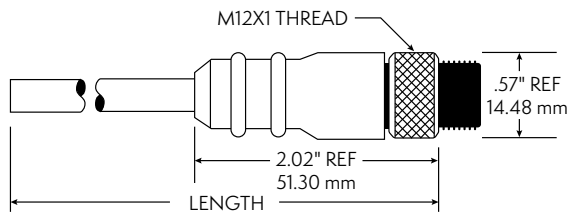
### Female 90°



### Male 90°

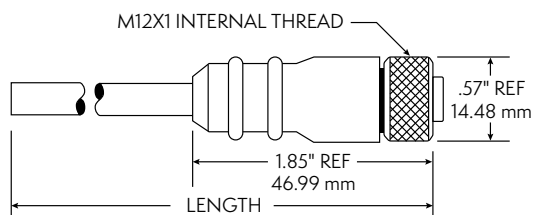


### Male Straight

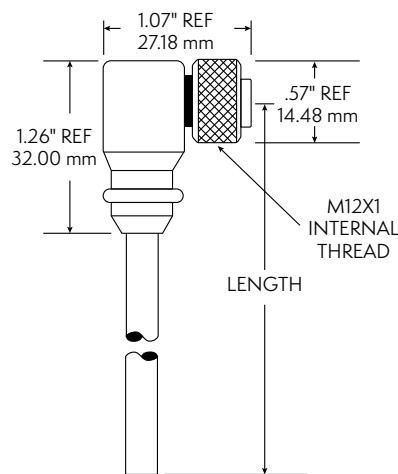


## Dual Key (AC), Male & Female – Straight & 90°

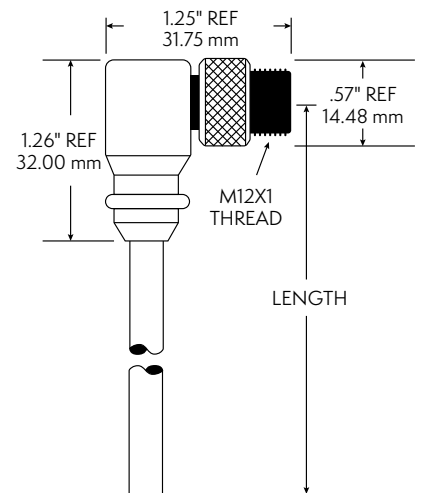
### Female Straight



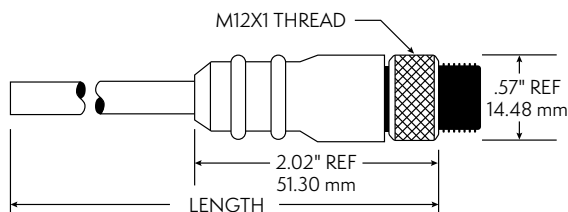
### Female 90°



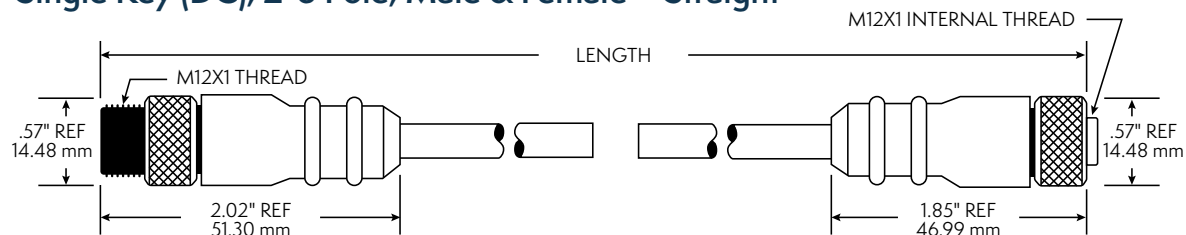
### Male 90°



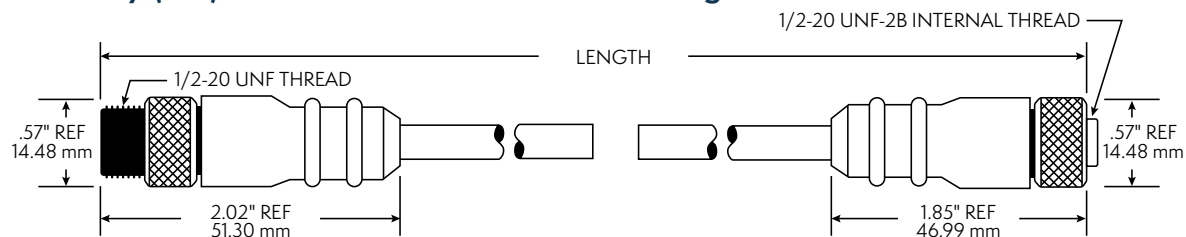
### Male Straight



## Single Key (DC), 2-6 Pole, Male & Female – Straight



## Dual Key (AC), 2-6 Pole, Male & Female – Straight

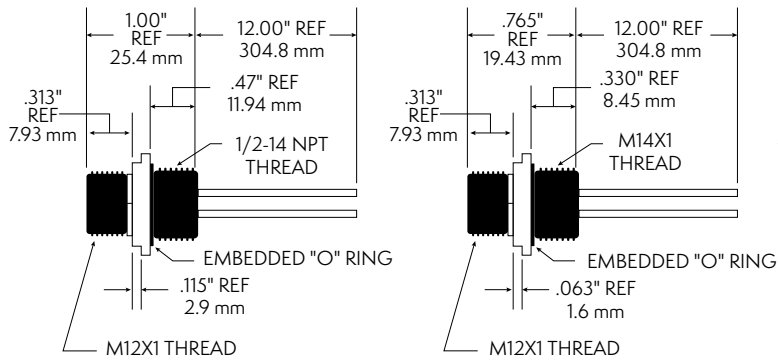


# Micro-Sync® Dimensions

## Single Key (DC), Male Receptacles

1/2" NPT

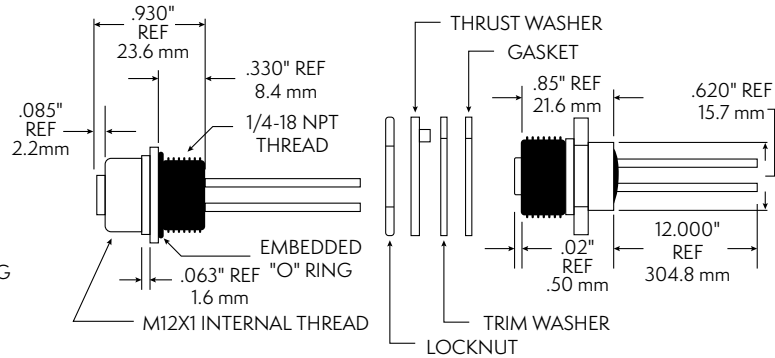
M14x1



## Single Key (DC), Female Receptacles

1/4" NPT

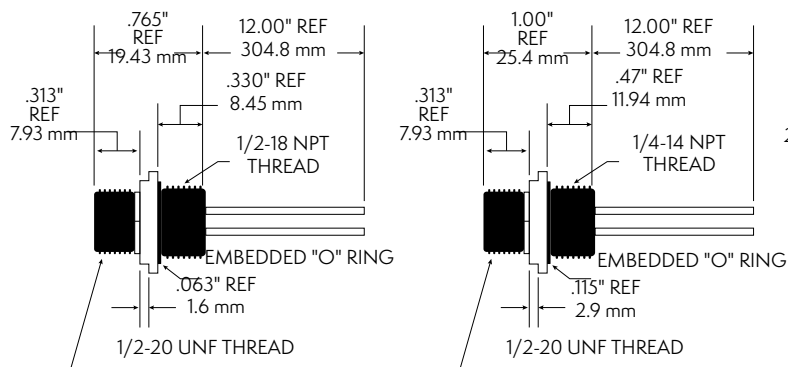
Back Panel Mount



## Dual Key (AC), Male Receptacles

1/4" NPT

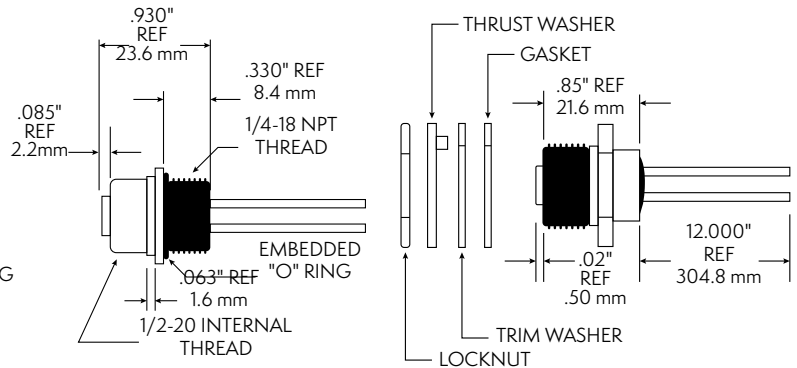
1/2" NPT



## Dual Key (AC), Female Receptacles

1/4" NPT

Back Panel Mount



# Custom Design Ordering Guide

## Step 1: Connector Type

Choose one.

Mini-Sync

Single - AC Only

Micro-Sync

Single - DC

Dual - AC

## Step 2: Configuration Style

Choose one for each.

Configuration Style – End 1

Female: Straight (FS)

Male: Straight (MS)

Female: 90° (F9)

Male: 90° (M9)

Configuration Style – End 2 (if applicable)

Female: Straight (FS)

Male: Straight (MS)

Female: 90° (F9)

Male: 90° (M9)

Number of Poles (1-12) \_\_\_\_\_

## Step 3: Cable Length (ft.)

Choose one.

3 ft.

15 ft.

6 ft.

20 ft.

12 ft.

Other: \_\_\_\_\_

## Step 4: Amperage/Voltage

Choose one.

600VAC

300V, AC & DC

7A

4A

8A

10A

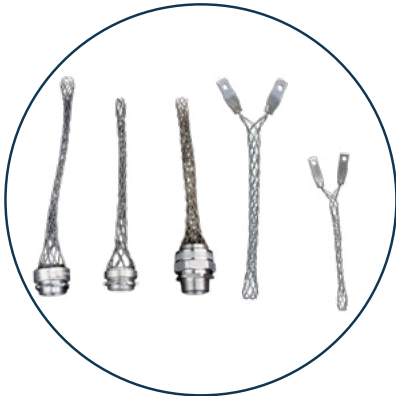
13A

## Step 5: Other

Notes: \_\_\_\_\_

## Related Products:

*Click on an image for more product information.*



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