

MINI-SYNC™ Devices
MICRO-SYNC™ Dual Keyway AC Devices
MICRO-SYNC™ Single Keyway DC Devices



Ericson Manufacturing Company now offers a wide range of quick disconnect interconnection products for industrial automation applications. These devices offer simplified wiring alternatives to hard wiring of solenoids, limit switches, photoelectric sensors and other control components. Ericson's MINI-SYNC™ and MICRO-SYNC™ devices are ideal for applications ranging from conveyors, assembly lines, robotics, cranes & hoists, automated machinery, medical equipment, portable lighting towers, machine tools and more. In the following pages you will find:

- MINI-SYNC™ Plugs, Sockets, Receptacles and Molded Cordsets
- MICRO-SYNC™ Dual Keyway Plugs, Sockets, Receptacles & Molded Cordsets
- MICRO-SYNC™ Single Keyway Plugs, Sockets, Receptacles & Molded Cordsets
- Easy to use charts and drawings simplify the selection/specification process making it quick and user friendly
- Comprehensive technical reference information including wiring diagrams and dimensional drawings

MINI-SYNC™ Devices

- UL Recognized and CSA Certified
- 2-pole through 12-pole devices
- #16 AWG chemical resistant PVC jacketed cable
- Standard cordset lengths of 3', 6', 12', 15' and 20'
- Polyurethane inserts
- Anodized Aluminum coupling nuts and receptacle shells
- NEMA Type 6P and IP67 and IP68 environmental ratings
- Gold-Plated contacts

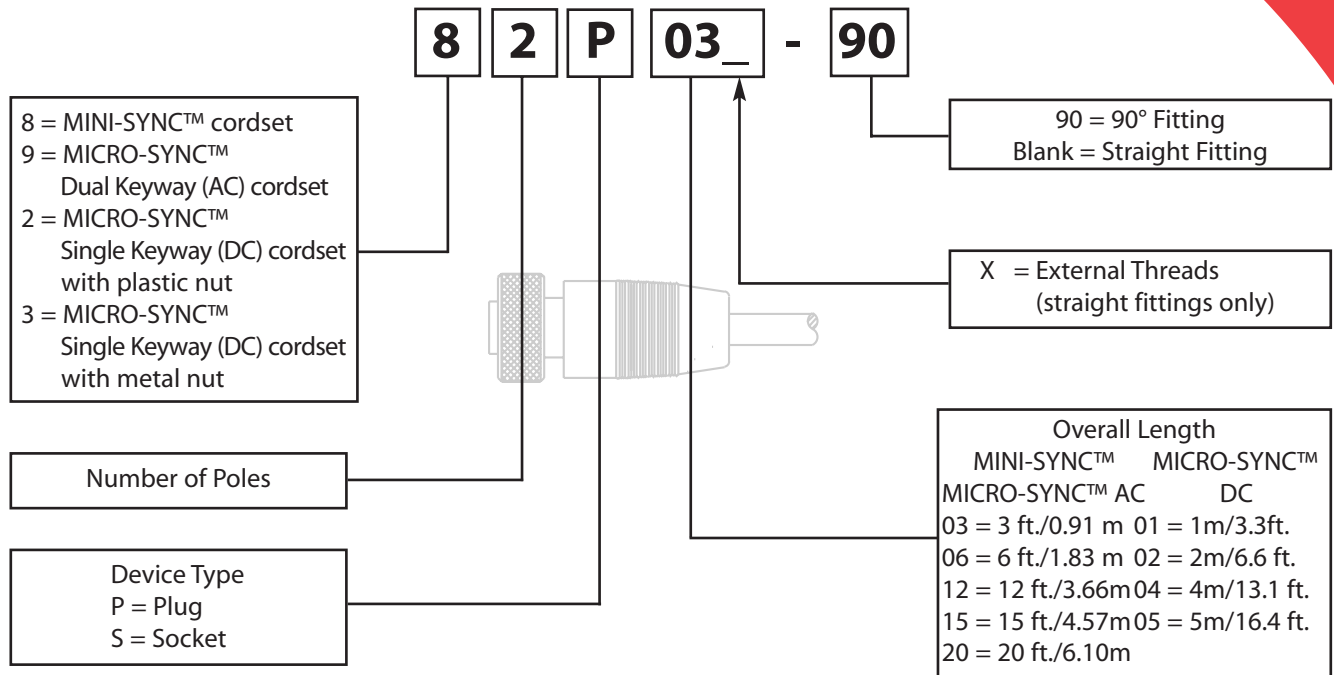
MICRO-SYNC™ Devices

- UL Recognized and CSA Certified
- 2-pole through 6-pole devices
- #22 AWG chemical resistant PVC jacketed cable
- Dual keyway standard cordset lengths of 6', 12', and 20'
- Single keyway standard cordset lengths of 2meters, 4m and 5m
- Polyurethane inserts
- Anodized Aluminum coupling nuts and receptacle shells
- Single keyway plugs, sockets and molded cordsets also available with chemical resistant plastic nuts
- NEMA Type 6P and IP67 and IP68 environmental ratings
- Anti-Vibration nuts ensure a secure connection
- Gold-Plated contacts

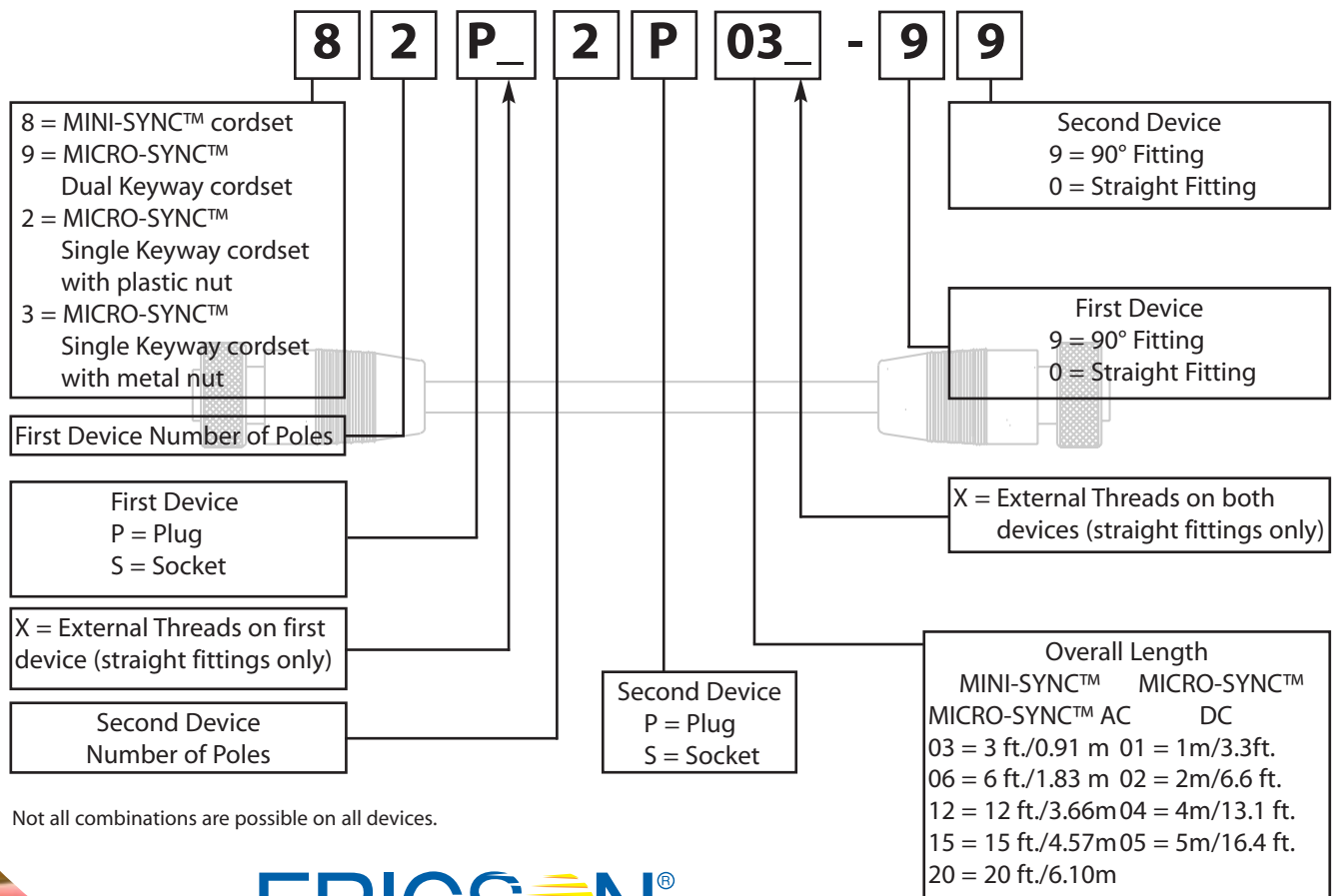
Custom Built Devices

As always you can turn to Ericson Manufacturing Company to engineer a solution to your quick disconnect application if you do not find a standard catalog item to fit your need. Contact the factory or your local sales representative to find out more.

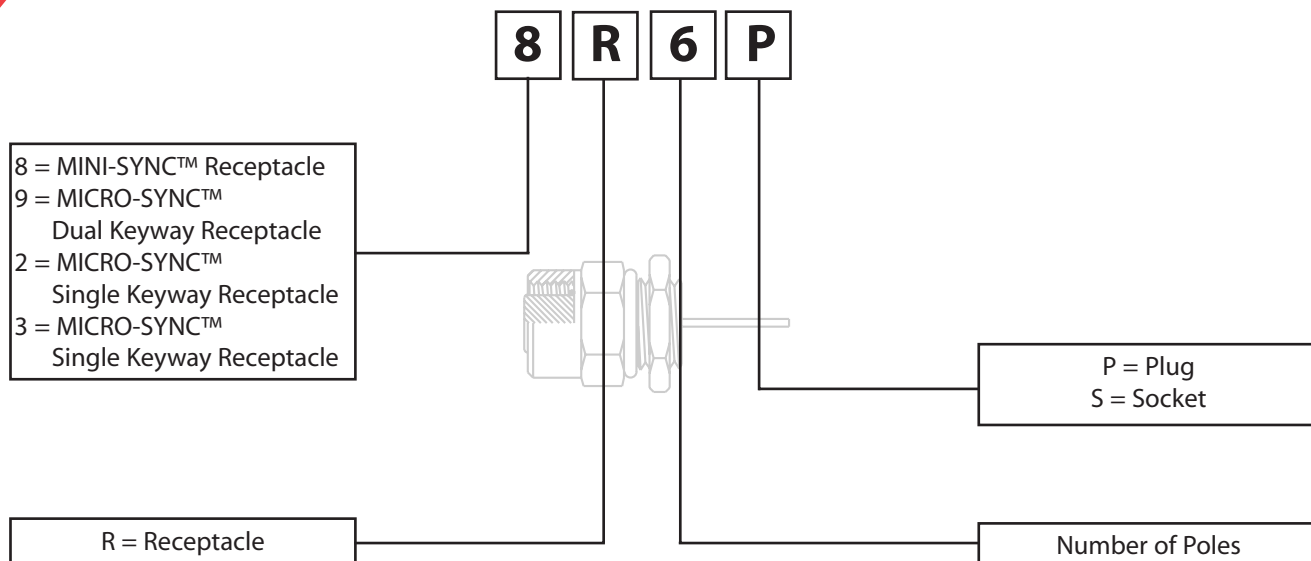
Cordset Assemblies with one device and one blunt end



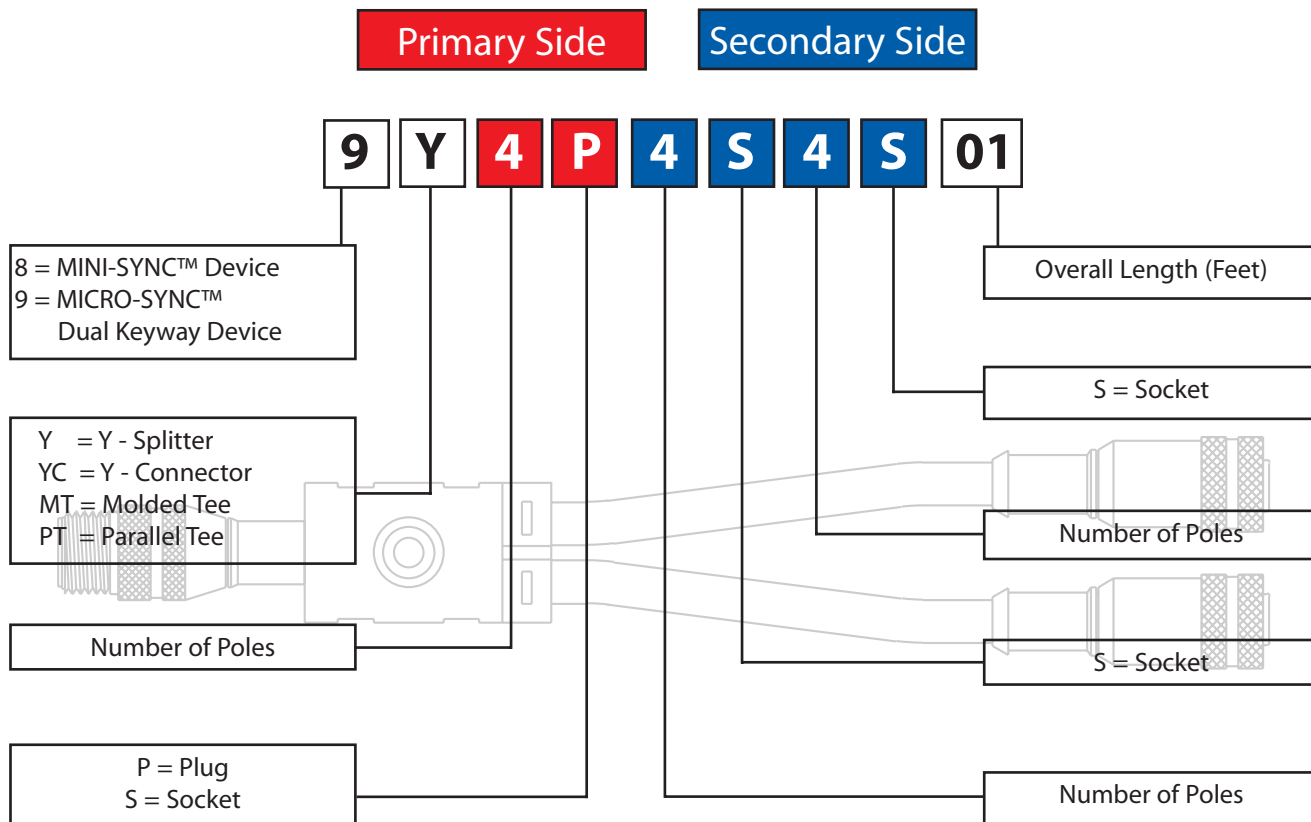
Cordset Assemblies with devices on both ends



Receptacles



Y-Splitters and Y-Connectors



Not all combinations are possible on all devices.

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MINI-SYNC™ SPECIFICATIONS

ELECTRICAL RATING:

VOLTAGE: 600v

CABLE ASSEMBLIES:

COUPLING NUT: Anodized Aluminum

CONTACTS: Copper Alloy, Gold - Plated

INSERT: Polyurethane

MOLDED HEADS: Polyurethane for straight connectors PVC for 90° Right angle connectors

CABLE: 16 AWG: PVC Insulated, fine stranded copper conductors, yellow oil resistant PVC jacketed 600V, STO, 105°C. UL Recognized, CSA Certified

PANEL MOUNT ASSEMBLIES:

SHELLS: Anodized Aluminum

CONTACTS: Copper Alloy, Gold - Plated

INSERTS: Ethylene propylene thermoplastic rubber "Santoprene"

WIRE: 16 AWG PVC Insulated, 600V. UL Recognized, CSA Certified

ENVIRONMENTAL:

PROTECTION: NEMA 6P, IP67 & IP68

OPERATING AMBIENT: -20° to 80°C.

CERTIFICATIONS:

UL: UL Recognized

CSA: CSA Certified

EMI / RFI SHIELDING:

MEETS OR EXCEEDS IEC DIRECTIVES:

IEC 1000-4-2	ESD, 5KV to 15KV in 2.5KV Steps
IEC 1000-4-3	RFI Immunity, 10V/m
IEC 1000-4-4	Fast Transient, 2K
IEC 1000-4-5	Surge, DC Immunity, 3.1KV
EN50141	Induced RF Immunity, 10V/m

Standard Panel Mounts:

- 22AWG, 80C, 600V, PVC Hookup Wire
- EPTR "Santoprene" Insert
- Lead Length 12 in.
- Epoxy Filled

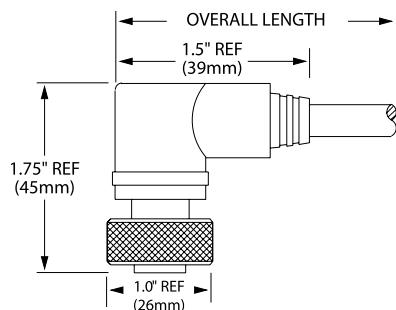
Standard Cable Assemblies:

- 16 AWG, PVC Yellow Jacketed Cable
- Polyurethane Insert
- Polyurethane (Straight) and PVC (90° Right Angle) Overmold
- Standard Length 3', 6', 12', 15', and 20'.

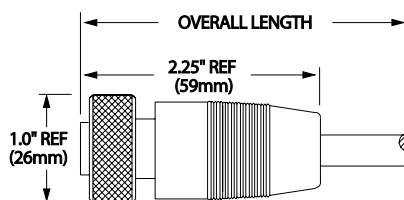
Terminator:

- Resistor 1/4 Watt 121 Ohm 1%
- Polyurethane Insert
- Polyurethane Overmold

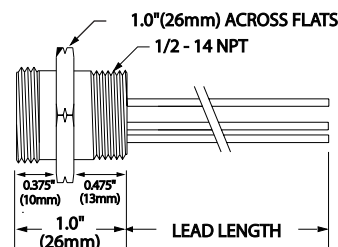
Male/Female 90°



Male/Female Straight



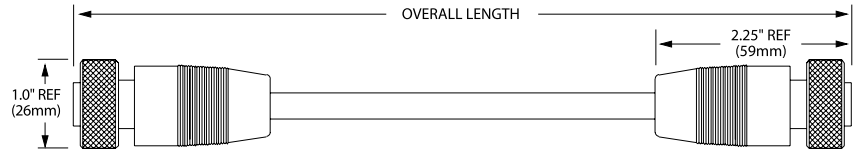
Receptacle



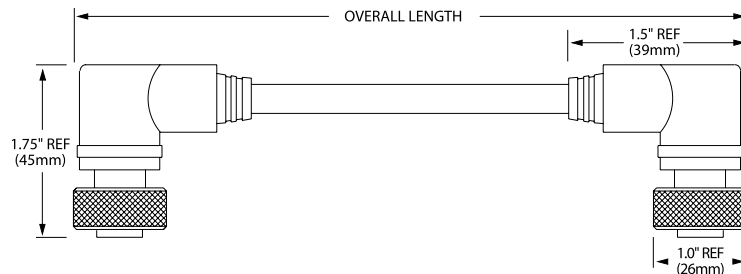
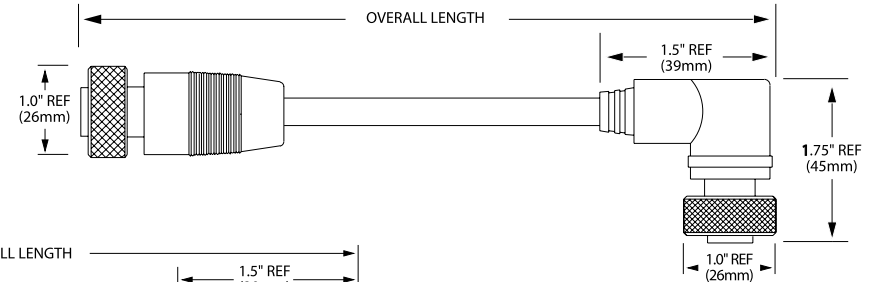
Devices with #16 AWG STO Cable

Poles & Rating	Faceview Male	Wiring Code	Overall Length (ft./m)	Male Straight	Male 90°	Female Straight	Female 90°	Male Receptacle 12 in. Leads	Female Receptacle 12 in. Leads
2 13A 600V		1-White 2-Black	3 ft./0.91m 6 ft./1.83m 12 ft./3.66m 15 ft./4.57m 20 ft./6.10m	82P03 82P06 82P12 82P15 82P20	82P03-90 82P06-90 82P12-90 82P15-90 82P20-90	82S03 82S06 82S12 82S15 82S20	82S03-90 82S06-90 82S12-90 82S15-90 82S20-90	8R2P	8R2S
3 13A 600V		1-Green 2-Black 3-White	3 ft./0.91m 6 ft./1.83m 12 ft./3.66m 15 ft./4.57m 20 ft./6.10m	83P03 83P06 83P12 83P15 83P20	83P03-90 83P06-90 83P12-90 83P15-90 83P20-90	83S03 83S06 83S12 83S15 83S20	83S03-90 83S06-90 83S12-90 83S15-90 83S20-90	8R3P	8R2S
4 10A 600V		1-Black 2-White 3-Red 4-Green	3 ft./0.91m 6 ft./1.83m 12 ft./3.66m 15 ft./4.57m 20 ft./6.10m	84P03 84P06 84P12 84P15 84P20	84P03-90 84P06-90 84P12-90 84P15-90 84P20-90	84S03 84S06 84S12 84S15 84S20	84S03-90 84S06-90 84S12-90 84S15-90 84S20-90	8R4P	8R4S
5 8A 600V		1-White 2-Red 3-Green 4-Orange 5-Black	3 ft./0.91m 6 ft./1.83m 12 ft./3.66m 15 ft./4.57m 20 ft./6.10m	85P03 85P06 85P12 85P15 85P20	85P03-90 85P06-90 85P12-90 85P15-90 85P20-90	85S03 85S06 85S12 85S15 85S20	85S03-90 85S06-90 85S12-90 85S15-90 85S20-90	8R5P	8R5S
6 8A 600V		1-White 2-Red 3-Green 4-Orange 5-Black 6-Blue	3 ft./0.91m 6 ft./1.83m 12 ft./3.66m 15 ft./4.57m 20 ft./6.10m	86P03 86P06 86P12 86P15 86P20	86P03-90 86P06-90 86P12-90 86P15-90 86P20-90	86S03 86S06 86S12 86S15 86S20	86S03-90 86S06-90 86S12-90 86S15-90 86S20-90	8R6P	8R6S

Straight Cable Assemblies



Straight to 90° Cable Assemblies

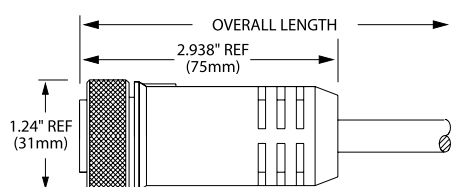


90° Cable Assemblies

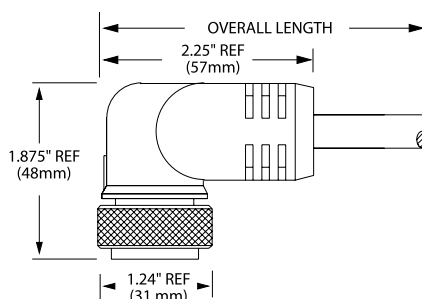
Devices with #16 AWG STO Cable

Poles & Rating	Faceview Male	Wiring Code	Overall Length (ft./m)	Male/Female Straight	Male/Female Straight to 90°	Male/Female 90°	Female/Male Straight to 90°
2 13A 600V		1-White 2-Black	3 ft./0.91m 6 ft./1.83m 12 ft./3.66m 15 ft./4.57m 20 ft./6.10m	82P2S03 82P2S06 82P2S12 82P2S15 82P2S20	82P2S03-09 82P2S06-09 82P2S12-09 82P2S15-09 82P2S20-09	82P2S03-99 82P2S06-99 82P2S12-99 82P2S15-99 82P2S20-99	82S2P03-09 82S2P06-09 82S2P12-09 82S2P15-09 82S2P20-09
3 13A 600V		1-Green 2-Black 3-White	3 ft./0.91m 6 ft./1.83m 12 ft./3.66m 15 ft./4.57m 20 ft./6.10m	83P3S03 83P3S06 83P3S12 83P3S15 83P3S20	83P3S03-09 83P3S06-09 83P3S12-09 83P3S15-09 83P3S20-09	83P3S03-99 83P3S06-99 83P3S12-99 83P3S15-99 83P3S20-99	83S3P03-09 83S3P06-09 83S3P12-09 83S3P15-09 83S3P20-09
4 10A 600V		1-Black 2-White 3-Red 4-Green	3 ft./0.91m 6 ft./1.83m 12 ft./3.66m 15 ft./4.57m 20 ft./6.10m	84P4S03 84P4S06 84P4S12 84P4S15 84P4S20	84P4S03-09 84P4S06-09 84P4S12-09 84P4S15-09 84P4S20-09	84P4S03-99 84P4S06-99 84P4S12-99 84P4S15-99 84P4S20-99	84S4P03-09 84S4P06-09 84S4P12-09 84S4P15-09 84S4P20-09
5 8A 600V		1-White 2-Red 3-Green 4-Orange 5-Black	3 ft./0.91m 6 ft./1.83m 12 ft./3.66m 15 ft./4.57m 20 ft./6.10m	85P5S03 85P5S06 85P5S12 85P5S15 85P5S20	85P5S03-09 85P5S06-09 85P5S12-09 85P5S15-09 85P5S20-09	85P5S03-99 85P5S06-99 85P5S12-99 85P5S15-99 85P5S20-99	85S5P03-09 85S5P06-09 85S5P12-09 85S5P15-09 85S5P20-09
6 8A 600V		1-White 2-Red 3-Green 4-Orange 5-Black 6-Blue	3 ft./0.91m 6 ft./1.83m 12 ft./3.66m 15 ft./4.57m 20 ft./6.10m	86P6S03 86P6S06 86P6S12 86P6S15 86P6S20	86P6S03-09 86P6S06-09 86P6S12-09 86P6S15-09 86P6S20-09	86P6S03-99 86P6S06-99 86P6S12-99 86P6S15-99 86P6S20-99	86S6P03-09 86S6P06-09 86S6P12-09 86S6P15-09 86S6P20-06

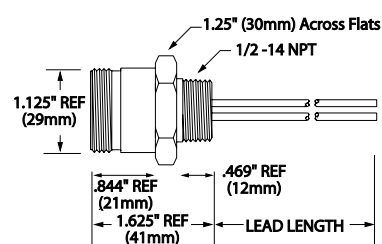
Straight Plugs



90° Plugs



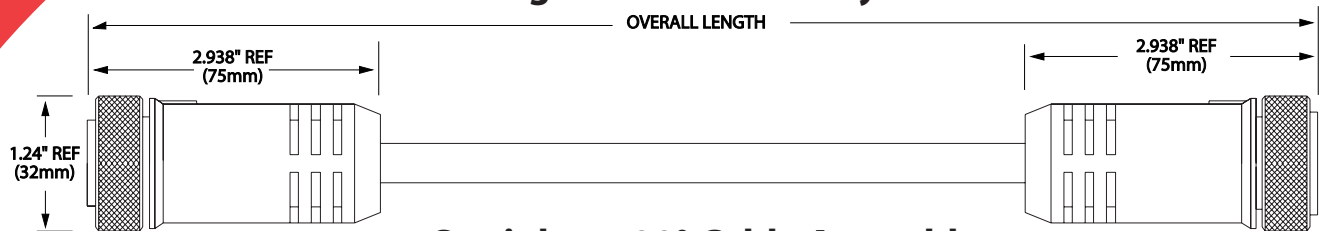
Receptacles



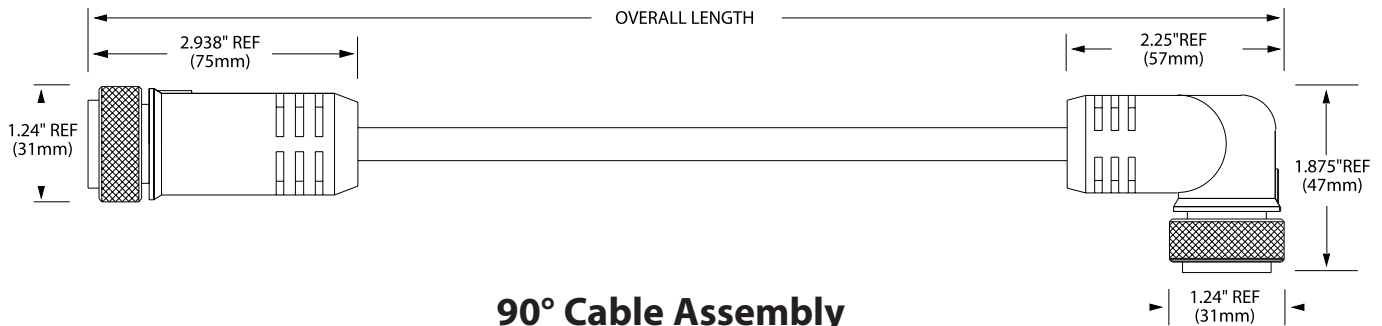
Devices with #16 AWG STO Cable

Poles & Rating	Faceview Male	Wiring Code	Overall Length (ft./m)	Male Straight	Male 90°	Female Straight	Female 90°	Male Recep.	Female Recep.
9 7A 600V		1-Orange 7-Green 2-Blue 8-White-Blk.Tr. 3-Red-Blk.Tr. 9-Black 4-Green-Blk.Tr. 5-White 6-Red	3 ft./0.91m 6 ft./1.83m 12 ft./3.66m 15 ft./4.57m 20 ft./6.10m	89P03 89P06 89P12 89P15 89P20	89P03-90 89P06-90 89P12-90 89P15-90 89P20-90	89S03 89S06 89S12 89S15 89S20	89S03-90 89S06-90 89S12-90 89S15-90 89S20-90	8R9P	8R9S
10 7A 600V		1-Orange 7-Red 2-Blue 8-Green 3-White-Blk.Tr. 9-Black 4-Red-Blk.Tr. 10-White 5-Green-Blk.Tr. 6-Orange-Blk.Tr.	3 ft./0.91m 6 ft./1.83m 12 ft./3.66m 15 ft./4.57m 20 ft./6.10m	810P03 810P06 810P12 810P15 810P20	810P03-90 810P06-90 810P12-90 810P15-90 810P20-90	810S03 810S06 810S12 810S15 810S20	810S03-90 810S06-90 810S12-90 810S15-90 810S20-90	8R10P	8R10S
12 7A 600V		1-Orange 7-Blue-Blk.Tr. 2-Blue 8-Black-Wht.Tr. 3-White-Blk.Tr. 9-Green 4-Red-Blk.Tr. 10-Red 5-Green-Blk.Tr. 11-White 6-Orange-Blk.Tr. 12-Black	3 ft./0.91m 6 ft./1.83m 12 ft./3.66m 15 ft./4.57m 20 ft./6.10m	812P03 812P06 812P12 812P15 812P20	812P03-90 812P06-90 812P12-90 812P15-90 812P20-90	812S03 812S06 812S12 812S15 812S20	812S03-90 812S06-90 812S12-90 812S15-90 812S20-90	8R12P	8R12S

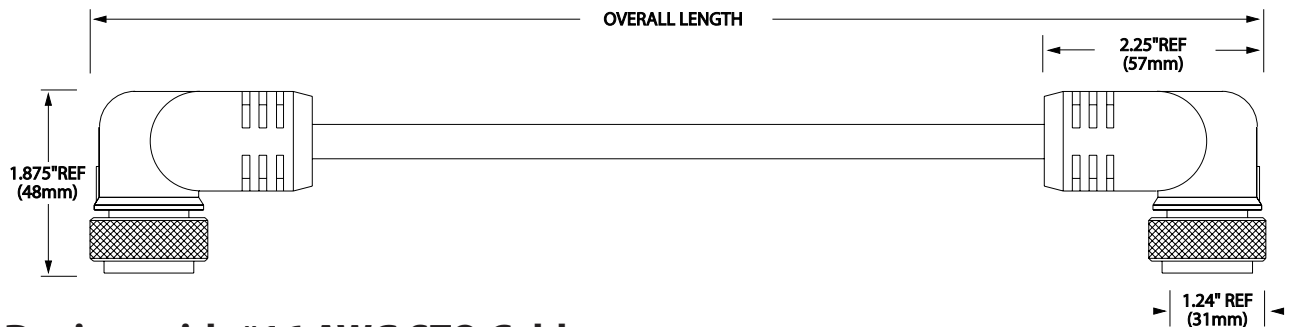
Straight Cable Assembly



Straight to 90° Cable Assembly



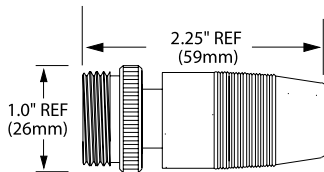
90° Cable Assembly



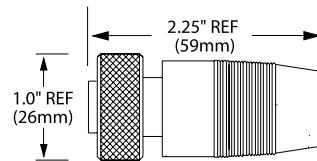
Devices with #16 AWG STO Cable

Poles & Rating	Faceview Male	Wiring Code	Overall Length (ft./m)	Male/Female Straight	Male/Female Straight to 90°	Male/Female 90°	Female/Male Straight to 90°
9 7A 600V		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./0.91m 6 ft./1.83m 12 ft./3.66m 15 ft./4.57m 20 ft./6.10m	89P9S03 89P9S06 89P9S12 89P9S15 89P9S20	89P9S03-09 89P9S06-09 89P9S12-09 89P9S15-09 89P9S20-09	89P9S03-99 89P9S06-99 89P9S12-99 89P9S15-99 89P9S20-99	89S9P03-09 89S9P06-09 89S9P12-09 89S9P15-09 89S9P20-09
10 7A 600V		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./0.91m 6 ft./1.83m 12 ft./3.66m 15 ft./4.57m 20 ft./6.10m	810P10S03 810P10S06 810P10S12 810P10S15 810P10S20	810P10S03-09 810P10S06-09 810P10S12-09 810P10S15-09 810P10S20-09	810P10S03-99 810P10S06-99 810P10S12-99 810P10S15-99 810P10S20-99	810S10P03-09 810S10P06-09 810S10P12-09 810S10P15-09 810S10P20-09
12 7A 600V		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./0.91m 6 ft./1.83m 12 ft./3.66m 15 ft./4.57m 20 ft./6.10m	812P12S03 812P12S06 812P12S12 812P12S15 812P12S20	812P12S03-09 812P12S06-09 812P12S12-09 812P12S15-09 812P12S20-09	812P12S03-99 812P12S06-99 812P12S12-99 812P12S15-99 812P12S20-99	812S12P03-09 812S12P06-09 812S12P12-09 812S12P15-09 812S12P20-09

MINI-SYNC™ Male Terminator



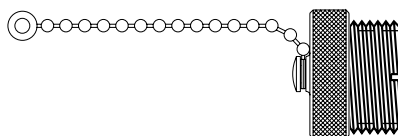
MINI-SYNC™ Female Terminator



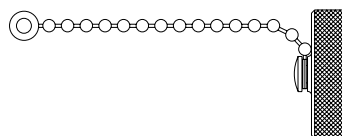
Poles & Rating	Faceview Male	Male Terminator ⁽¹⁾	Female Terminator ⁽¹⁾
5 8A 600V		85P	85S

Aluminum Closure Caps for Plugs and Receptacles

Plug Closure Cap



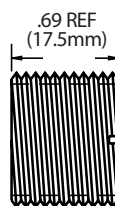
Receptacle Closure Cap



Selection Guide

For Poles:	Plugs	Receptacle
2, 3, 4, 5 and 6 Poles	826CP	826CR

Aluminum Adapter for Joining Two Cable Assemblies



Selection Guide

For Poles:	Thread	Catalog Number
2, 3, 4, 5 and 6 Poles	7/8 - 16UN-2A	826TA

Standard MINI-SYNC™ Wiring Sequence Panel Mounts and Cable Assemblies

Chart 1												
INDUSTRIAL	Contact#			1	2	3	4	5	6			
	Cable Conductor Color Sequence			WHT	BLK							
				GRN	BLK	WHT						
				BLK	WHT	RED	GRN					
				WHT	RED	GRN	ORG	BLK				
				WHT	RED	GRN	ORG	BLK	BLU			
1	2	3	4	5	6	7	8	9	10	11	12	
ORG	BLUE	RED/BLK	GRN/BLK	WHT	RED	GRN	WHT/BLK	BLK				
ORG	BLUE	WHT/BLK	RED/BLK	GRN/BLK	ORG/BLK	RED	GRN	BLK	WHT			
ORG	BLUE	WHT/BLK	RED/BLK	GRN/BLK	ORG/BLK	BLU/BLK	BLK/WHT	GRN	RED	WHT	BLK	

NOTES:

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MICRO-SYNC™ SPECIFICATIONS

ELECTRICAL RATING

VOLTAGE: Metal / Plastic - 300V

CABLE ASSEMBLIES

COUPLING NUT: Metal - Anodized Aluminum

Plastic - Nylon

CONTACTS: Metal - Copper Alloy

Plastic - Gold - Plated

INSERT: Metal - Nylon

Plastic - Nylon

MOLDED HEADS: Metal - Polyurethane

Plastic - Polyurethane

O-RINGS: Metal - N/A

Plastic - Viton

DUAL KEYWAY CABLE:

Metal / Plastic - 22 AWM: PVC insulated, fine stranded copper conductors, yellow oil resistant PVC jacketed, 300V, ST, 105°C. UL Recognized, CSA Certified

SINGLE KEYWAY CABLE:

Metal / Plastic - 22 AWM: PVC insulated, stranded copper conductors, yellow PVC jacketed, 300V, 90°C. UL Recognized, CSA Certified

PANEL MOUNT ASSEMBLIES

SHELLS: Metal - Anodized Aluminum

Plastic - Anodized Aluminum

CONTACTS: Metal - Copper Alloy

Plastic - Gold - Plated

INSERTS: Metal - Nylon

Plastic - N/A

WIRE: Metal / Plastic - 22 AWG PVC insulated, 300V UL Recognized, CSA Certified

ENVIRONMENTAL

PROTECTION: Metal / Plastic - NEMA 6P, IP 67 & IP 68

OPERATING AMBIENT: Metal / Plastic - -20° to 80°C

CERTIFICATIONS

UL: Metal / Plastic - UL Recognized

cUL: Metal / Plastic - Canadian UL Recognized

Standard Panel Mounts:

- 22AWG, 80C, 300V, PVC Hookup Wire
- Polyurethane Insert
- Lead Length 12 In.
- Epoxy Filled

Standard AC & DC Metal:

- 22 AWG, PVC Yellow Jacketed Cable
- Nylon Insert (Black for AC, Yellow for DC)
- Polyurethane, Yellow Overmold
- Length 36, 72, and 144 In. for AC
1, 2, and 4 Meters for DC

Standard DC Plastic:

- 22 AWM, PVC Yellow Jacketed Cable
- Nylon, Black Insert
- Polyurethane, Black Overmold
- Length 1, 2 and 4 Meters

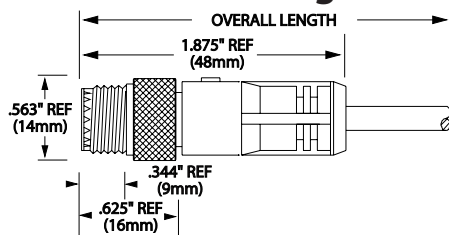
Y Splitter Assemblies:

- 22 AWG, Polyurethane Yellow Jacketed Cable
- Polyurethane Insert
- Polyurethane Overmold

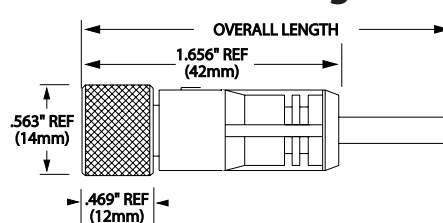
Micro-Sync™ Dual Keyway

AC Metal Plugs, Sockets & Receptacles

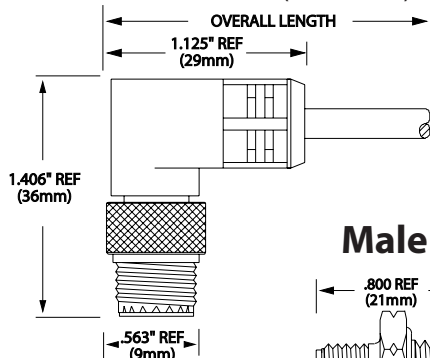
Male Straight



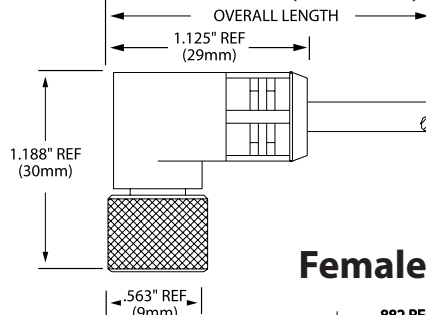
Female Straight



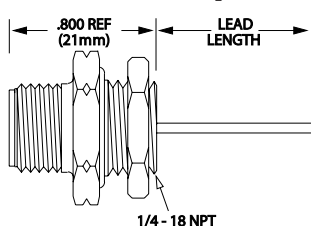
Male 90° (see note 2)



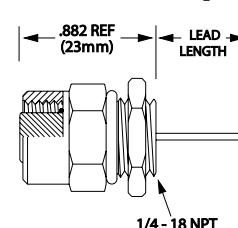
Female 90° (see note 2)



Male Receptacle



Female Receptacle



Assemblies with #22 AWG Cable

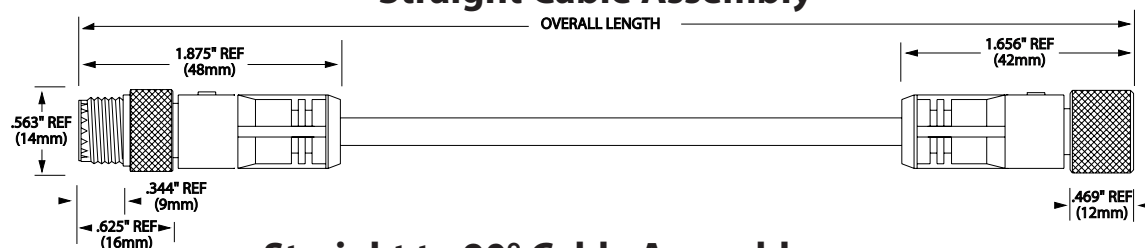
Poles & Rating	Faceview Male	Wiring Code	Overall Length (ft./m)	Male Straight	Female Straight	Male Receptacle 12 in. Leads	Female Receptacle 12 in. Leads
2 3A 300V		1-Brown 2-Blue	6 ft./1.83 m 12 ft./3.66m 20 ft./6.10m	92P06 92P12 92P20	92S06 92S12 92S20	9R2P	9R2S
3 3A 300V		1-Green 2-Red-Blk. Tr. 3-Red-White Tr.	6 ft./1.83m 12 ft./3.66m 20 ft./6.10m	93P06 93P12 93P20	93S06 93S12 93S20	9R3P	9R3S
4 3A 300V		1-Red-Blk. Tr. 2-Red-White Tr. 3-Red 4-Green	6 ft./1.83m 12 ft./3.66m 20 ft./6.10m	94P06 94P12 94P20	94S06 94S12 94S20	9R4P	9R4S
5 3A 300V		1-Red-White Tr. 2-Red 3-Green 4-Red-Yellow Tr. 5-Red-Black Tr.	6 ft./1.83m 12 ft./3.66m 20 ft./6.10m	95P06 95P12 95P20	95S06 95S12 95S20	9R5P	9R5S
6 3A 300V		1-Red-White Tr. 2-Red 3-Green 4-Red-Yellow Tr. 5-Red-Black Tr. 6-Red-Blue Tr.	6 ft./1.83m 12 ft./3.66m 20 ft./6.10m	96P06 96P12 96P20	96S06 96S12 96S20	9R6P	9R6S

1. For 90° device add - 90 to end of catalog number. Example: 93P06 becomes 93P06-90 & 93S06 becomes 93S06-90.

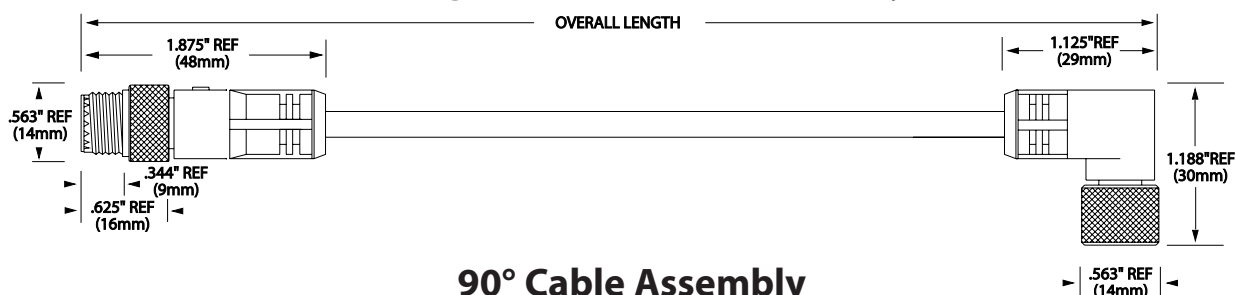
Micro-Sync™ Dual Keyway

AC Metal Cable Assemblies

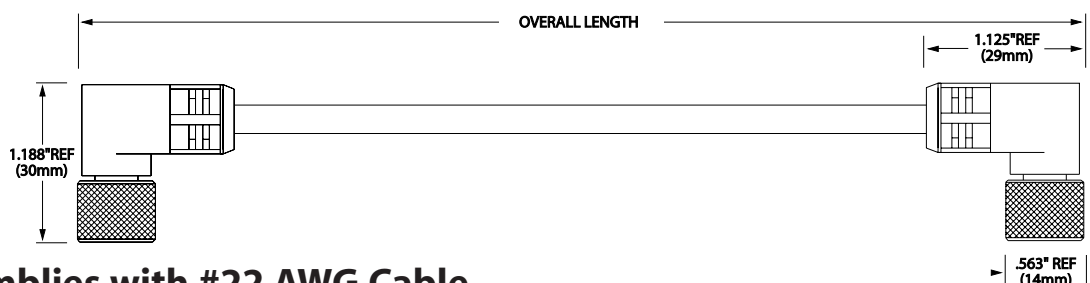
Straight Cable Assembly



Straight to 90° Cable Assembly



90° Cable Assembly



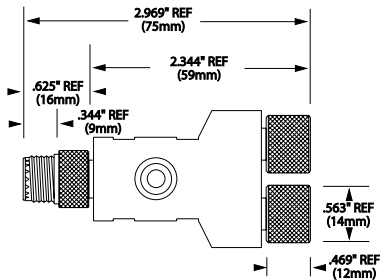
Assemblies with #22 AWG Cable

Poles & Rating	Faceview Male	Wiring Code	Overall Length (ft./m)	Male/Female Straight	Male/Female Straight to 90°	Male/Female 90°	Female/Male Straight to 90°
2 3A 300V		1-Brown 2-Blue	6 ft./1.83 m 12 ft./3.66m 20 ft./6.10m	92P2S06 92P2S12 92P2S20	92P2S06-09 92P2S12-09 92P2S20-09	92P2S06-99 92P2S12-99 92P2S20-99	92S2P06-09 92S2P12-09 92S2P20-09
3 3A 300V		1-Green 2-Red-Blk. Tr. 3-Red-White Tr.	6 ft./1.83m 12 ft./3.66m 20 ft./6.10m	93P3S06 93P3S12 93P3S20	93P3S06-09 93P3S12-09 93P3S20-09	93PS06-99 93P3S12-99 93P3S20-99	93S3P06-09 93S3P12-09 93S3P20-09
4 3A 300V		2-Red-White Tr. 3-Red 4-Green	6 ft./1.83m 12 ft./3.66m 20 ft./6.10m	92P2S06B 92P2S12B 92P2S20B	94P4S06-09 94P4S12-09 94P4S20-09	94P4S06-99 94P4S12-99 94S4P20-99	94S4P06-09 94S4P12-09 94S4P20-09
5 3A 300V		1-Red-White Tr. 2-Red 3-Green 4-Red-Yellow Tr. 5-Red-Black Tr.	6 ft./1.83m 12 ft./3.66m 20 ft./6.10m	93P3S06 93P3S12 93P3S20	95P5S06-09 95P5S12-09 95P5S20-09	95P5S06-99 95P5S12-99 95P5S20-99	95S5P06-09 95S5P12-09 95S5P20-09
6 3A 300V		1-Red-White Tr. 2-Red 3-Green 4-Red-Yellow Tr. 5-Red-Black Tr. 6-Red-Blue Tr.	6 ft./1.83m 12 ft./3.66m 20 ft./6.10m	96P6S06 96P6S12 96P6S20	96P6S06-09 96P6S12-09 96P6S20-09	96P6S06-99 96P6S12-99 96P6S20-99	96S6P06-09 96S6P12-09 96S6P20-09

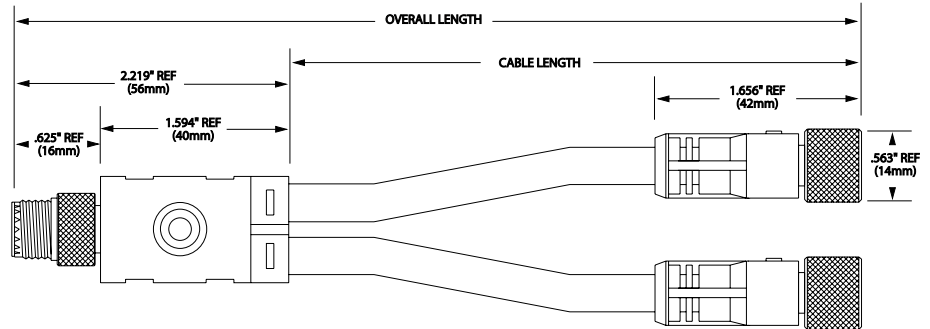
Micro-Sync™ Dual Keyway

Y-Splitters & Y-Connectors

Y-Connector



Y-Splitter



Assemblies with #22 AWG Cable

Poles & Rating	Faceview Male	Wiring Code	Wiring Diagram	Overall Length (ft./m)	Y-Connector		Y-Splitter	
					Male/Female Female	Female/Female Female	Male/Female Female	Female/Female Female
2 3A 300V		1-Brown 2-Blue		12"	9YC2P2S2S	9YC2S2S2S	9Y2P2S2S01	9Y2S2S2S01
3 3A 300V		1-Green 2-Red-Blk. Tr. 3-Red-White Tr.		12"	9YC3P3S3S	9YC3S3S3S	9Y3P3S3S01	9Y3S3S3S01
4 3A 300V		1-Red-Blk. Tr. 2-Red-White Tr. 3-Red 4-Green		12"	9YC4P4S4S	9YC4S4S4S	9Y4P4S4S01	9Y4S4S4S01
5 3A 300V		1-Red-White Tr. 2-Red 3-Green 4-Red-Yellow Tr. 5-Red-Black Tr.		12"	9YC5P5S5S	9YC5S5S5S	9Y5P5S5S01	9Y5S5S5S01
6 3A 300V		1-Red-White Tr. 2-Red 3-Green 4-Red-Yellow Tr. 5-Red-Black Tr. 6-Red-Blue Tr.		12"	9YC6P6S6S	9YC6S6S6S	9Y6P6S6S01	9Y6S6S6S01

Micro-Sync™ Dual Keyway

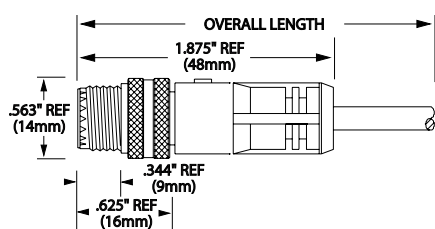
Notes

[illegible]

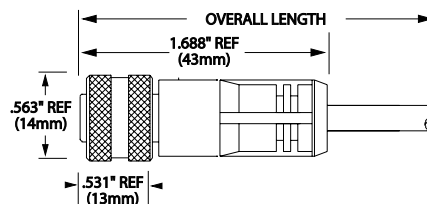
Micro-Sync™ Single Keyway

DC Metal Plugs, Sockets & Receptacles

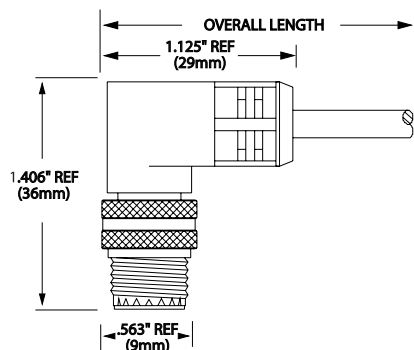
Male Straight



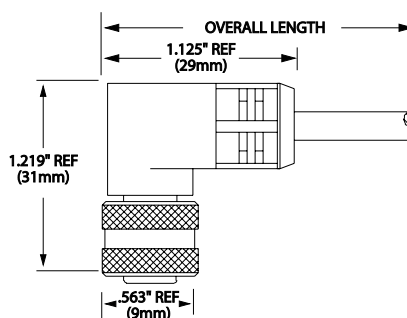
Female Straight



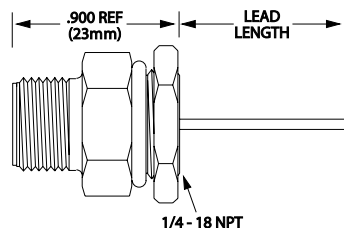
Male 90° (see note 2)



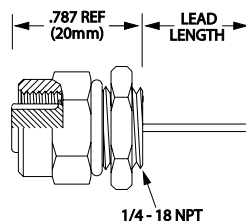
Female 90° (see note 2)



Male Receptacle



Female Receptacle



Assemblies with #22 AWG Cable

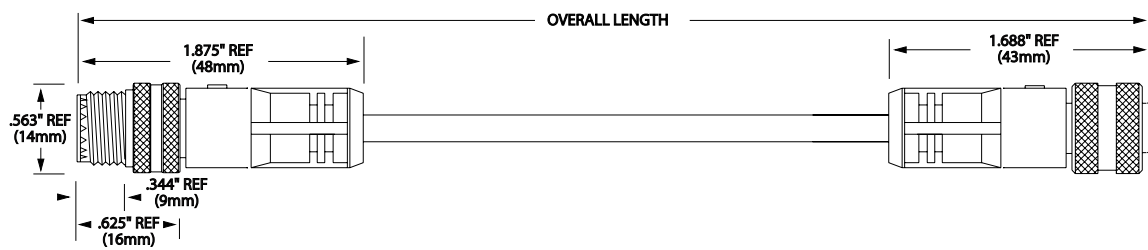
Poles & Rating	Faceview Male	Wiring Code	Overall Length (ft./m)	Male Straight	Female Straight	Male Receptacle .3 m Leads	Female Receptacle .3 m Leads
3 3A 300V		1-Brown 2-Not Used. 3-Blue 4-Black	6.6 ft./2m 13.1 ft./4m 16.4 ft./5m	33P02 33P04 33P05	33S02 33S04 33S05	3R3P	3R3S
4 3A 300V		1-Brown 2-White 3-Blue 4-Black	6.6 ft./2m 13.1 ft./4m 16.4 ft./5m	34P02 34P04 34P05	34S02 34S04 34S05	3R4P	3R4S
5 3A 300V		1-Brown 2-White 3-Blue 4-Black 5-Gray	6.6 ft./2m 13.1 ft./4m 16.4 ft./5m	35P02 35P04 35P05	35S02 35S04 35S05	3R5P	3R5S

1. For 90° device add - 90 to end of catalog number. Example: 34P05 becomes 34P05-90 & 34S05 becomes 34S05-90.

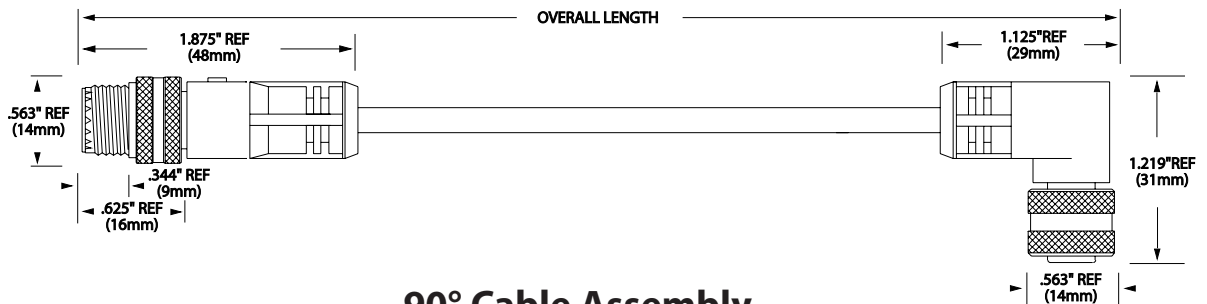
Micro-Sync™ Single Keyway

DC Metal Cable Assemblies

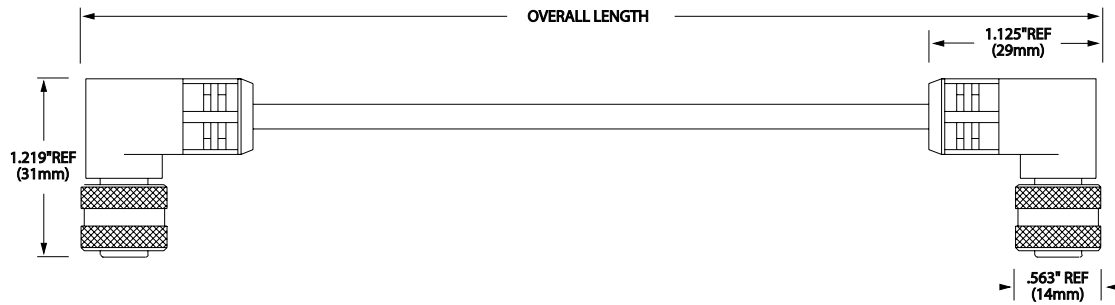
Straight Cable Assembly



Straight to 90° Cable Assembly



90° Cable Assembly



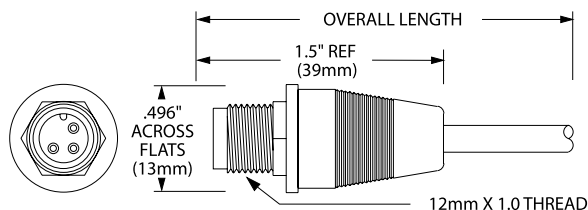
Assemblies with #22 AWG Cable

Poles & Rating	Faceview Male	Wiring Code	Overall Length ft./m)	Male/Female Straight	Male/Female Straight to 90°	Male/Female 90°	Female/Male Straight to 90°
3 3A 300V		1-Brown 2-Not Used 3-Blue 4-Black	6.6 ft./2m 13.1 ft./4m 16.4 ft./5m	33P3S02 33P3S04 33P3S05	33P3S02-09 33P3S04-09 33P3S05-09	33P3S02-99 33P3S04-99 33P3S05-99	33S3P02-09 33S3P04-09 33S3P05-09
4 3A 300V		1-Brown 2-White 3-Blue 4-Black	6.6 ft./2m 13.1 ft./4m 16.4 ft./5m	34P4S02 34P4S04 34P4S05	34P4S02-09 34P4S04-09 34P4S05-09	34P4S02-99 34P4S04-99 34P4S05-99	34S4P02-09 34S4P04-09 34S4P05-09
5 3A 300V		1-Brown 2-White 3-Blue 4-Black 5-Gray	6.6 ft./2m 13.1 ft./4m 16.4 ft./5m	35P5S02 35P5S04 35P5S05	35P5S02-09 35P5S04-09 35P5S05-09	35P5S02-99 35P5S04-99 35P5S05-99	35S5P02-09 35S5P04-09 35S5P05-09

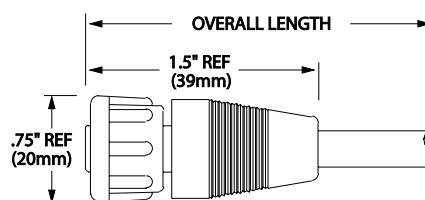
Micro-Sync™ Single Keyway

DC Plugs, Sockets & Receptacles, Non-Metallic Nut

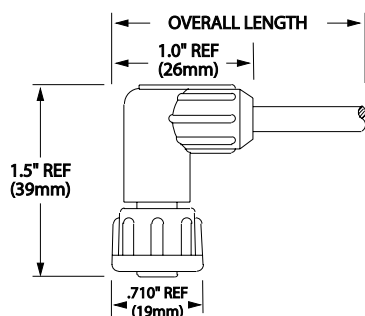
Male Straight



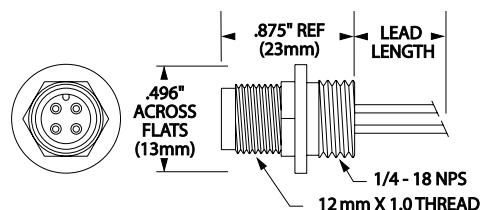
Female Straight



Female 90°



Male Receptacle



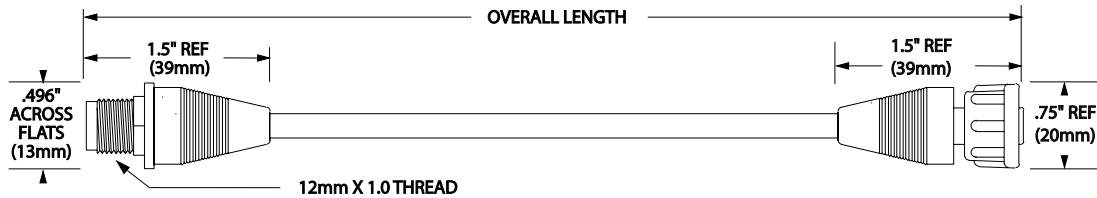
Poles & Rating	Faceview Male	Wiring Code	Overall Length (ft./m)	Male Straight	Female Straight	Female 90°	Male Receptacle .3 Meter Leads
3 3A 300V		1-Brown 2-Not Used 3-Blue 4-Black	6.6 ft./2m 13.1 ft./4m 16.4 ft./5m	23P02 23P04 23P05	23S02 23S04 23S05	23S02-90 23S04-90 23S05-90	2R3P
4 3A 300V		1-Brown 2-White 3-Blue 4-Black	6.6 ft./2m 13.1 ft./4m 16.4 ft./5m	24P02 24P04 24P05	24S02 24S04 24S05	24S02-90 24S04-90 24S05-90	2R4P
5 3A 300V		1-Brown 2-White 3-Blue 4-Black 5-Gray	6.6 ft./2m 13.1 ft./4m 16.4 ft./5m	25P02 25P04 25P05	25S02 25S04 25S05	25S02-90 25S04-90 25S05-90	2R5P

1. Consult factory for product availability.

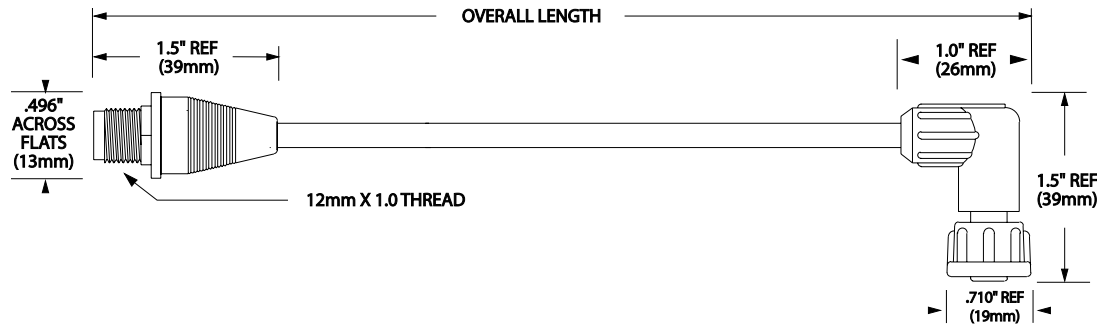
Micro-Sync™ Single Keyway

DC Cable Assemblies with Non-Metallic Nut

Male/Female Straight



Male/Female Straight to 90°



Poles & Rating	Faceview Male	Wiring Code	Overall Length (ft./m)	Male/Female Straight	Male/Female Straight to 90°
3 3A 300V		1-Brown 2-Not Used 3-Blue 4-Black	6.6 ft./2m 13.1 ft./4m 16.4 ft./5m	23P3S02 23P3S04 23P3S05	23P3S02-09 23P3S04-09 23P3S05-09
4 3A 300V		1-Brown 2-White 3-Blue 4-Black	6.6 ft./2m 13.1 ft./4m 16.4 ft./5m	24P4S02 24P4S04 24P4S05	24P4S02-09 24P4S04-09 24P4S05-09
5 3A 300V		1-Brown 2-White 3-Blue 4-Black 5-Gray	6.6 ft./2m 13.1 ft./4m 16.4 ft./5m	25P5S02 25P5S04 25P5S05	25P5S02-09 25P5S04-09 25P5S05-09

1. Consult factory for product availability.

Micro-Sync™ Dual Keyway

Wiring Sequence Diagrams

Standard MICRO-SYNC™ Wiring Sequence Panel Mounts and Cable Assemblies

DC-Single Keyway	Contact#	1	2	3	4	5
		—	—	BRN	BLU	
	Cable Conductor	BRN	—	BLU	BLK	
	Color Sequence	BRN	WHT	BLU	BLK	
		BRN	WHT	BLU	BLK	GRY

(—) Indicates contact not used

AC-Dual Keyway	Contact#	1	2	3	4	5	6
		BRN	BLU				
	Cable Conductor	GRN	RED/BLK	RED/WHT			
	Color Sequence	RED/BLK	RED/WHT	RED	GRN		
		RED/WHT	RED	GRN	RED/YEL	RED/BLK	
		RED/WHT	RED	GRN	RED/YEL	RED/BLK	RED/BLU

NOTES:

Characteristics Defined By The CEI 70-1 - IEC 529 - IEC 144 - UTE C 20-010 - DIN 40050 Standards

		Second Digit - Protection against the penetration of liquids								
		IP_0	IP_1	IP_2	IP_3	IP_4	IP_5	IP_6	IP_7	IP_8
										
First Digit - Protection against persons - touching and ingress of solid foreign objects		Non protected								
										
IP 0_	Without protection	IP 00								
IP 1_	Protection against touching with the hand and solid objects greater than 50mm dia.	IP 10	IP 11	IP 12						
IP 2_	Protection against touching with the finger and solid objects greater than 12mm dia.	IP 20	IP 21	IP 22	IP 23					
IP 3_	Protection against touching with tools, wires, etc. more than 2.5mm thick and solid objects greater than 2.5mm dia.	IP 30	IP 31	IP 32	IP 33	IP 34				
IP 4_	Protection against touching with tools, wires, etc. more than 1mm thick and solid objects greater than 1mm dia.	IP 40	IP 41	IP 42	IP 43	IP 44				
IP 5_	Unlimited protection against contact with live parts and damaging deposits of dust	IP 50				IP 54	IP 55			
IP 6_	Unlimited protection against contact with live parts and any penetration of dust	IP 60					IP 65	IP 66	IP 67	IP 68

In some countries a third digit (for mechanical security) is added.

NEMA & IP Degrees of Protection

Designation	Intended Use and Description	Construction Requirements
3	Outdoor use primarily to provide a degree of protection against rain, sleet, windblown dust and damage from external ice formation.	Splashproof (IP44)
4	Indoor and outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water, hose-directed water and damage from external ice formation.	Watertight (IP67)
4X	Indoor and outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, hose-directed water and damage from external ice formation.	Watertight (IP67)
6	Indoor and outdoor use primarily to provide a degree of protection against hose-directed water, splashing water, and the entry of water during occasional temporary submersion at a limited depth and damage from external ice formation.	Watertight (IP67)
12, 12K	Indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping non-corrosive liquids.	Splashproof (IP44)

This information is provided only as a general guide. No specific recommendation is intended. As each application may vary, testing should be conducted by the user in the intended environment.