

Micro-Quick® Control Connectors

Whether you have a need for an industrial connector for sensitive signal applications, or for connecting to photo eyes or to 12 and 18 mm proximity switches, Hubbell's Micro-Quick connector line is the best choice available today. Micro-Quick control connectors are made with the same high quality materials as the Mini-Quick line, resulting in the same industrial strength in a smaller package to fit your size, signal and wire gauge requirements.

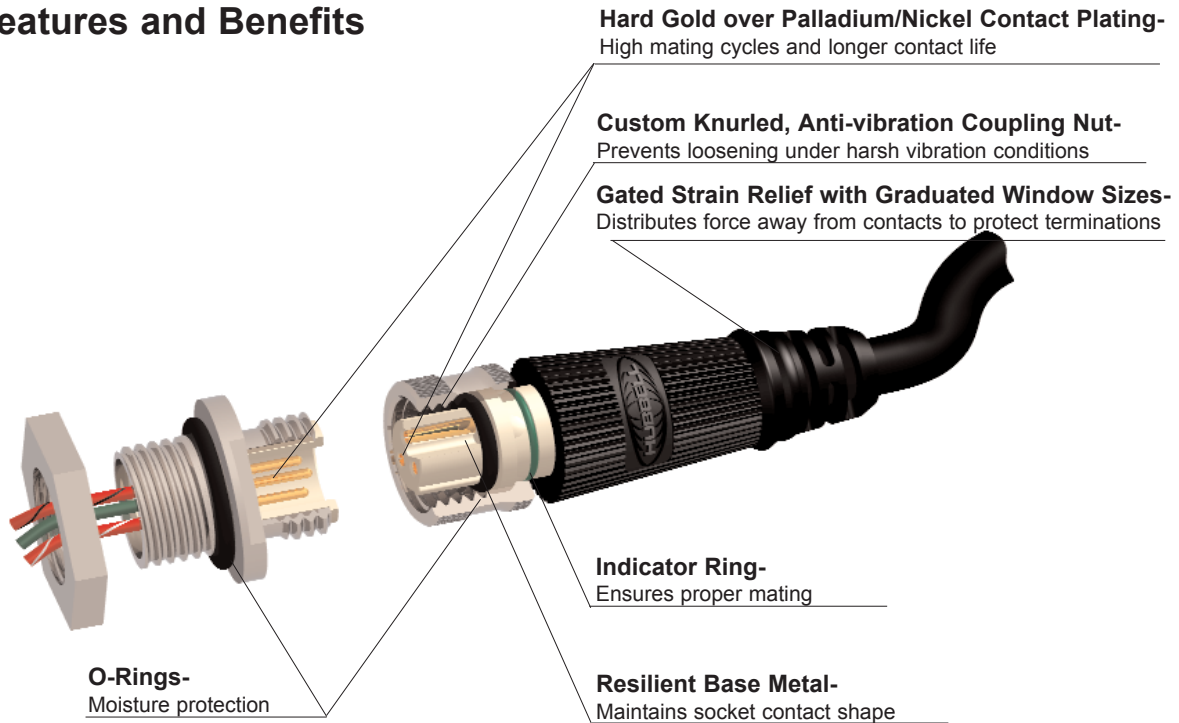
Hubbell's Micro-Quick line features:

- UL Listed connectors with UL Type 4, 4X, 12 and 13 environmental ratings.
- Beryllium copper socket contacts maintain continuity over time and reduce intermittencies.
- Gold over palladium nickel contact plating for superior conductivity and extended contact life.

As you would expect from Hubbell, Micro-Quick control connectors are the most durable and longest lasting micro connector available on the market today. Give us your harshest environment and we will give you a Micro-Quick connector that stands up to the job.

The Micro-Quick product offering is complete with straight and right angle molded on plugs and pre-wired receptacles available in 2 through 6 pole configurations with a variety of cable types and lengths. This line offers AC and DC key styles to prevent mismatching which can cause equipment damage. The **Hubbell Logic** chart helps you build the product you need quickly and easily.

Micro-Quick® Control Connectors Features and Benefits



Features	Benefits
<ul style="list-style-type: none"> Nickel plated brass coupling nuts and receptacle shells. Beryllium copper socket contacts. Standard #22 AWG cable 85% copper braid coverage. Black overmold and cable. Insulgrip connector body design. 	<ul style="list-style-type: none"> Plating resists corrosion in high abuse environments. Strong, resilient base metal ensures contacts maintain their shape and continuity over time. Cable resists nicks and abrasions and provides shielding when braid is terminated. Cable assembly resists dirt and blends with environment giving a clean look to the installation. Ergonomic connector body has an industrial look.

Material Specifications	
Insulator Materials	Nylon 6/6, White
Contact Materials	Pins - Brass Sockets - Beryllium copper
Contact Plating	Hard gold over palladium/nickel
Overmold Material	Glass filled polyurethane, Black
Coupling Nut, Metallic	Nickel plated brass
Coupling Nut, Nylon	Nylon 6/6, Black
Receptacle Shell	Nickel plated brass
Cable	#22 AWG - PVC jacket (black) PVC conductor insulation Copper braid - 85% coverage Stranding - 19/34
	#18 AWG - TPE jacket (black) PVC conductor insulation Stranding - 41/34
Strain Relief	#22 AWG - 20 pounds min per UL2238 #18 AWG - 30 pounds min per UL 2238

Electrical Specifications	
Voltage Rating	300VDC/300VAC
Amperage	#22 AWG - 2&3P=5A, 4&5P=4A, 6P=3A #18 AWG - 2&3P=8A, 4P=6A, 5P=5A
Contact Resistance	≤ 5 mΩ
Isolation Resistance	≥ 1000 MΩ

Environmental Specifications	
Moisture Protection	UL Type 4, 4X, 12 and 13
Ingress Protection	IP67 Suitability
Operating Temperature	#22 AWG PVC cable: -20°C to 105° C #18 AWG TPE cable: -40°C to 105° C
Corrosion Resistance	500 hours salt spray per MIL-STD-1344, Method 1001
Vibration Resistance	10 - 2,000 Hz @15g per MIL-STD-1344, Method 2005

Certifications	
UL 2238 and UL50, File No. E192071	CSA Certified, C22.2 No. 182.3 and CSA C22.2 No. 94

Micro-Quick® Control Connectors Inverse Key 3 - 4 Pole Plugs & Receptacles

Choose the appropriate configuration from the Selector below.

Hubbell Logic Configurator

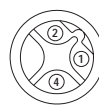

For example, Catalog Number **MCMS3312** is derived as follows:

DEVICE TYPE	COUPLING NUT MATERIAL	BODY STYLE	KEY STYLE	POLES	CONDUCTOR TYPE	CABLE LENGTH (m)
MC= Plug, Female	M = Metallic N = Nylon	A = Right Angle S = Straight	3 = Inverse	3 4	1 = #22 AWG PVC Cable 2 = #18 AWG TPE Cable	** 2 4 5 ** Replace w / length
↓	↓	↓	↓	↓	↓	↓
MC	M	S	3	3	1	2

Availability of specific items may vary. Consult factory for delivery. Consult the factory for additional cable lengths or cable types.

3 - 4 Pole Inverse Key Plugs

Catalog numbers using #22 AWG PVC cable are listed below. For #18 AWG TPE cable, change the conductor type per the **Hubbell Logic** chart above.

Poles	Male Face Shown Female - mirror image	Cable Length	Female Plugs		Poles	Male Face Shown Female - mirror image	Female Plugs	
			Straight	Right Angle			Straight	Right Angle
3		6.56 ft (2m)	MCMS3312	MCMA3312	4		MCMS3412	MCMA3412
		13.12 ft (4m)	MCMS3314	MCMA3314			MCMS3414	MCMA3414
		16.40 ft (5m)	MCMS3315	MCMA3315			MCMS3415	MCMA3415
		All other lengths ^λ	MCMS331**	MCMA331**			MCMS341**	MCMA341**

^λ Replace ** with length required in feet. For nylon coupling nuts, replace "M" with "N" per the ordering chart above.
Example: change MCMA2314 to MCNA2314.



Hubbell Logic Configurator

For example, Catalog Number **MBMS33314** is derived as follows:

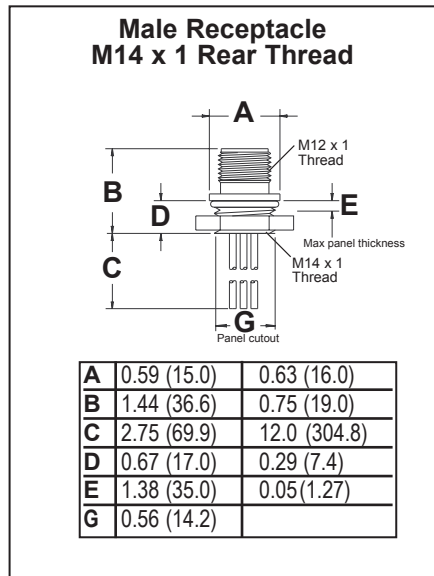
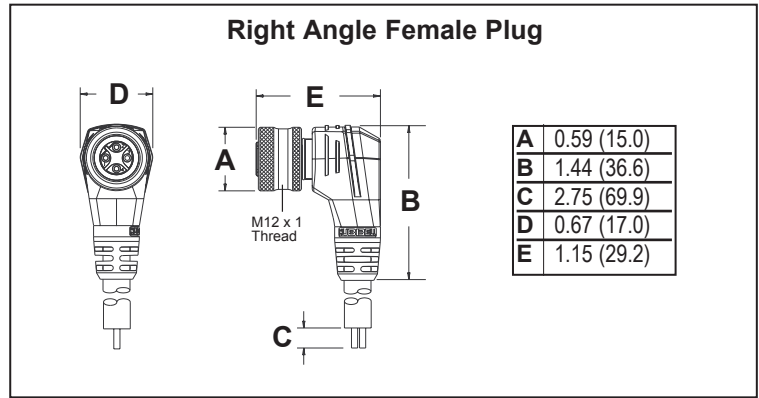
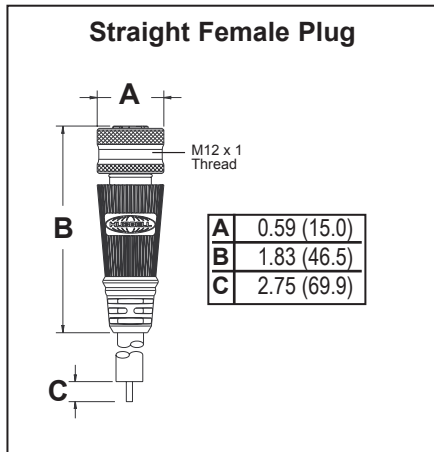
DEVICE TYPE	COUPLING NUT MATERIAL	BODY STYLE	KEY STYLE	POLES	CONDUCTOR TYPE	REAR THREAD STYLE
MB= Receptacle, Male	M = Metallic	S = Straight	3 = Inverse	3 4	3 = #22 AWG PVC Discrete Wire 4 = #18 AWG PVC Discrete Wire	14 = M14x1 ^λ
↓	↓	↓	↓	↓	↓	↓
MB	M	S	3	3	3	14

3 - 4 Pole Inverse Key Receptacles

Catalog numbers using #22 AWG PVC discrete wire are listed below. For #18 AWG PVC discrete wire, change the conductor type per the **Hubbell Logic** chart above.

Poles	Male Face Shown Female - mirror image	Male Receptacle Rear Thread Style		Poles	Male Face Shown Female - mirror image	Male Receptacle Rear Thread Style	
		M14 x 1				M14 x 1	
3		MBMS33314		4		MBMS34314	

Micro-Quick® Control Connectors Inverse Key 3 - 4 Pole Plugs & Receptacles



Cable Diameters By Cable Type

Contact Number	3 Pole	4 Pole
1	Brown	Brown
2	Blue	Blue
3	Not Used	Black
4	Green/Yellow	Green/Yellow

Conductor Color Code

Number of Conductors	#22 AWG PVC	#18 AWG TPE
3	0.21" (5.30)	0.24" (6.1)
4	0.22" (5.68)	0.26" (6.6)

ACCESSORIES

Dust Caps

Closure caps protect plugs and receptacles when not in use. Thread is M12X1.

