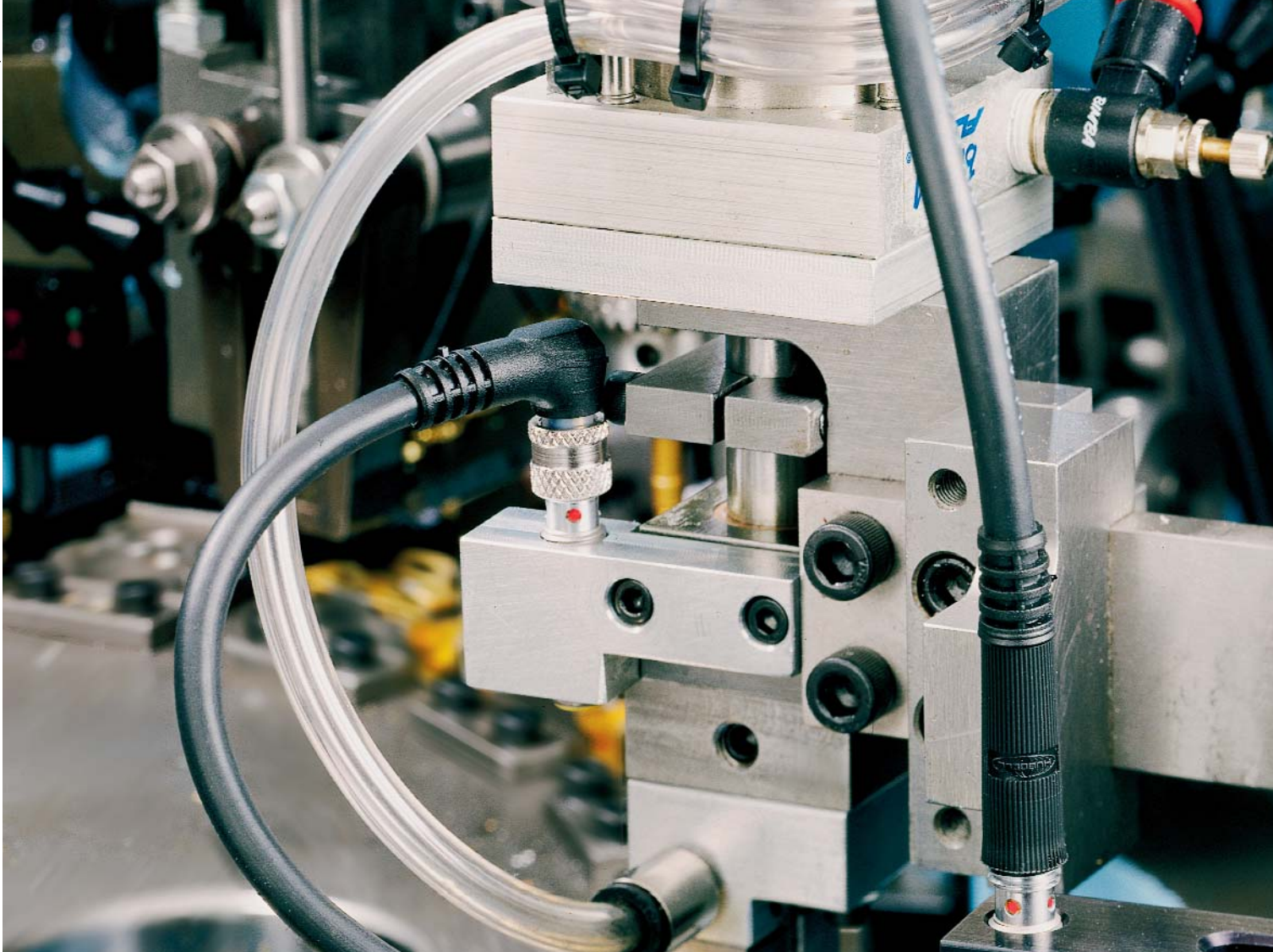




Nano-Quick™ Control Connectors

As time goes by, electronics get smaller and smaller. Industry demands for smaller photo eyes and 8 mm proximity switches have led to the demand for the connectors that mate with them; the Hubbell Nano-Quick connector meets that demand. As connectors get smaller, the components become smaller and more fragile and it becomes more important than ever to use the best and strongest materials to ensure a sturdy, long lasting connector. Hubbell Nano-Quick connectors meet your need for a tough connector in a tiny package.

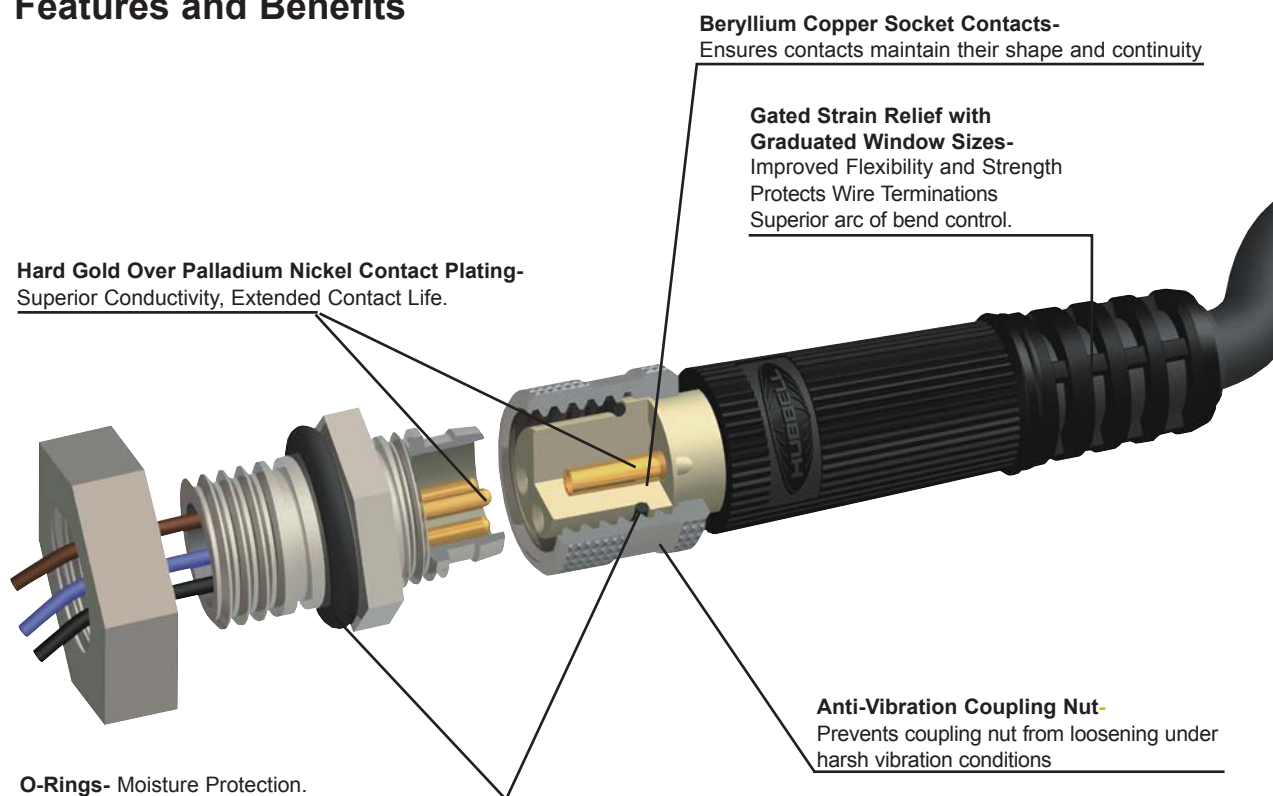
Hubbell's Nano-Quick line features:

- 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.
- Snap type coupling option in addition to standard threaded coupling nut; both with UL 4X rating.

Nano-Quick control connectors may be small, but they are also Hubbell industrial connectors, so you can count on them to perform for you.

The Nano-Quick Control Connector product offering consists of 3 and 4 pole straight and right angle female plugs in a variety of cable types and lengths and male pre-wired receptacles. The Nano-Quick **Hubbell Logic** chart will help you to build your custom connector quickly and easily.

Nano-Quick® Control Connectors Features and Benefits



Features

- Nickel plated brass coupling nuts and receptacle shells.
- Black overmold and cable.
- Insulgrip connector body design.
- UL Listed cable assemblies and receptacles.

Benefits

- Plating resists corrosion in high abuse environments.
- Cable assembly resists dirt and blends with environment giving a clean look to the installation.
- Ergonomic connector body has an industrial look.
- Third party certified for electrical, mechanical and environmental performance.

Material Specifications

Insulator Materials	Nylon 6/6, White	Cable	#24 AWG -	PVC jacket, Black, PVC conductor insulation,
Contact Materials	Pins - Brass, Sockets			Copper braid - 85% coverage, Stranding 19/36
	Sockets - Beryllium copper		#24 AWG -	TPE jacket, Black, PVC conductor insulation,
Contact Plating	Hard gold over palladium/nickel			Stranding - 19/36
Overmold Material	Polyurethane, Black	Strain Relief		20 pounds min per UL 2238
Coupling Nut, Metallic	Nickel plated brass			
Receptacle Shell	Nickel plated brass			

Electrical Specifications

Voltage Rating	125VAC/75VDC
Amperage	3&4P=4A
Contact Resistance	≤ 5 mΩ
Isolation Resistance	≥ 1000 MΩ

Environmental Specifications

Moisture Protection	UL Type 4, 4X, 12 and 13
Ingress Protection	IP67
Operating Temperature	PVC Cable: -20° to 105° C 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

Nano-Quick® Control Connectors

3 - 4 Pole Plugs & Receptacles

Choose the appropriate configuration from the Selector below.

Hubbell Logic Configurator

For example, Catalog Number **NCTA3105** is derived as follows:

DEVICE TYPE	RETENTION STYLE	BODY STYLE	POLES	CABLE TYPE	CABLE LENGTH (m)
NC= Plug, Female	T = Threaded, Locking S = Snap On	A = Right Angle S = Straight	3 4	1 = #24 AWG PVC Cable 2 = #24 AWG TPE Cable	** 02 05 ** Replace w / length
NC	T	A	3	1	05

Availability of specific items may vary. Consult factory for delivery. Use this chart to build plugs to meet any application need. Consult the factory for additional cable lengths or cable types.

3 - 4 Pole Female Plugs

Catalog numbers using #24 AWG PVC cable are listed below. For #24 AWG TPE cable, change the cable type per the **Hubbell Logic** chart above.

Poles	Female Face Shown	Cable Length	Threaded, Locking		Snap Together	
			Straight	Right Angle	Straight	Right Angle
3		6.56 ft/2m	NCTS3102	NCTA3102	NCSS3102	NCSA3102
		16.40 ft (5m)	NCTS3105	NCTA3105	NCSS3105	NCSA3105
		All other lengths [^]	NCTS31**	NCTA31**	NCSS31**	NCSA31**
4		6.56 ft (2m)	NCTS4102	NCTA4102	NCSS4102	NCSA4102
		16.40 ft (5m)	NCTS4105	NCTA4105	NCSS4102	NCSA4105
		All other lengths [^]	NCTS41**	NCTA41**	NCSS41**	NCSA41**

[^] Replace ** with length required in feet. For snap on retention style, replace "T" with "S" per the ordering chart above.
Example: change NCTA3105 to NCSA3105.

Hubbell Logic Configurator

For example, Catalog Number **NBCS3D** is derived as follows:

DEVICE TYPE	RETENTION STYLE	BODY STYLE	POLES	CONDUCTOR TYPE
NB= Receptacle, Male	C = Combination	S = Straight	3 4	D = 0.25m #24 AWG discrete wire
NB	C	S	3	D

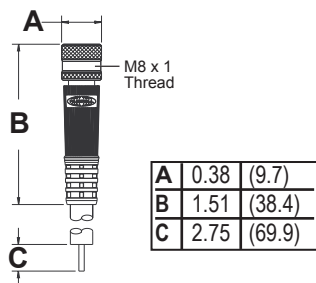
3 - 4 Pole Male Receptacles

Poles	Male Face Shown	Male Receptacle		Poles	Male Face Shown	Male Receptacle	
		Rear Thread Style				Rear Thread Style	
		M8 x 1				M8 x 1	
3		NBCS3D		4		NBCS4D	

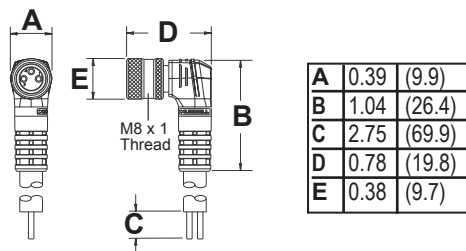
[^] Replace ** with length required in feet.

Nano-Quick® Control Connectors 3 - 4 Pole Plugs & Receptacles

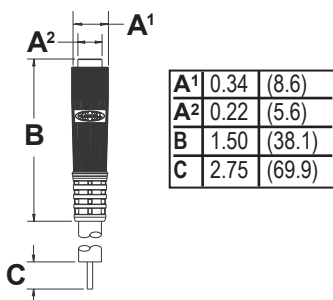
Straight Female Locking Plug



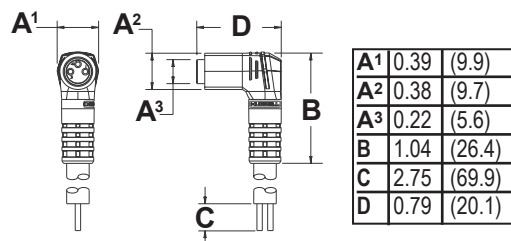
Right Angle Female Locking Plug



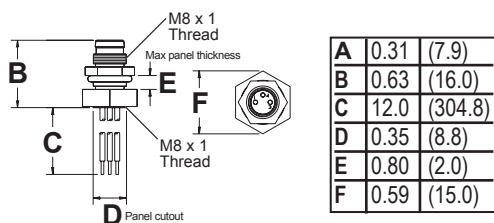
Straight Female Snap Together Plug



Right Angle Female Snap Together Plug



Male Combination Receptacle



Cable Diameters By Cable Type

Number of Conductors	#24 AWG PVC	#24 AWG TPE
3	0.21" (5.3)	0.21" (5.3)
4	0.21" (5.3)	0.21" (5.3)

Conductor Color Code

Contact Number	3 Pole	4 Pole
1	Brown	Brown
2	Not Used	White
3	Blue	Blue
4	Black	Black

All dimensions are shown in inches (mm)