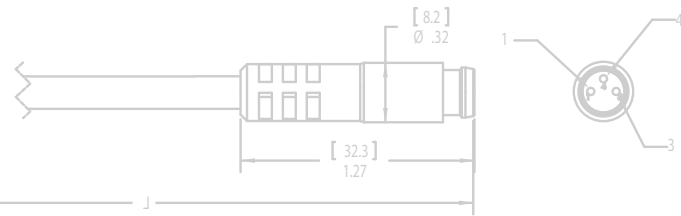


The M8 (NAN-series) is often referred to as a “pico” or “nano” connector. The small size makes it the perfect choice when space is limited. The M8 is commonly used with many of the miniature proximity, hall-effect and photo-electric sensors. The NAN series is available in 2 different versions; snap-on (available in 3, 4 and 6 pole) and thread-on (available in 3 and 4 pole). Male connectors in this series can be used to mate with both the snap-on and threaded female connectors. The male has threads and the small snap ring. Both snap-on and thread-on versions have the same water tight specifications (IP67) as well as the same voltage and amperage rating. It is simply customer preference as to which one suits their needs.

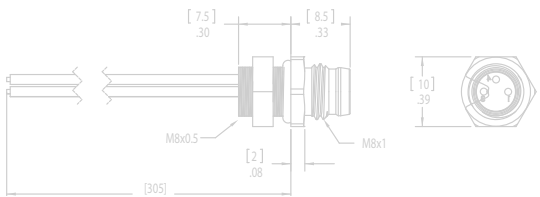
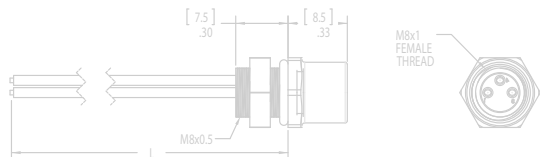
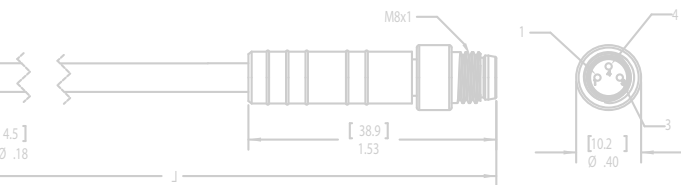
Snap-on Version

A snap-on connector is simply pushed onto the mating part and an audible snap can be heard as they lock together.



Thread-on Version

The thread-on is similar to the MIN-Series and Micro series in that there is a threaded coupling nut which is tightened when mating.



Contents

Cordsets	Part Number Matrix		J-3	
	Snap-On	Straight	J-4 ~ J-5	
		Right Angle	J-5	
		With LEDs	J-9	
	Thread-On	Straight	J-6 ~ J-7	
		Right Angle	J-7	
		Double Ended	J-8	
		With LEDs	J-9	
	Field Wireable Plugs			J-10 ~ J-11
	Cordset Accessories			
	Raw Cables		J-12	
Receptacles	Part Number Matrix		J-13	
	Index		J-14	
	Front Mount		J-15	
	Back Mount		J-15	
	PCB Back Mount		J-16	



NAN (M8) Series Cordsets

NAN Series Cordset Part Number Matrix



Not all options available with all cordsets, please consult factory.

NAN [] - [] - [] [] - [] - [] - []

Cable Type

Blank = PVC
P = PUR

Connection Style

Blank = Snap-On
T = Thread-On

Number of Conductors

3
4
6

Connector Configuration

MP = Male Plug
FP = Female Plug
MFP = Male / Female Extension
MFRP = Male Straight / Female Right Angle
MRFP = Male Right Angle / Female Straight

Transistor Type

PNP
NPN

R/A or Straight

Blank = Straight *
R = Right Angle **

* Unless the Connector Configuration is MFRP or MRFP
** If single ended cable, right angle connector to flying leads
If double ended cable, right angle on both connectors

Length in Meters

1M
2M
4M
5M
6M
10M
15M

Other lengths are available by request.

J

NAN (M8) Series

NAN (M8) Series Snap-On Cordsets

3 & 4 Conductor NAN Series Cordsets, 24AWG



Straight/Right Angle Male Cordsets | Snap-On Style | 60 Volt, 3 amps | IP67 Rating



Snap-On Style: Male Straight Plugs					
Connector Body Style	Part Number	Cables	Features	Color Code	Faceview
	NAN-3MP-**	Black PVC AWM 3 X 24 AWG 60V, 3A -40°C to +105°C 4.5mm OD	Industry Standard PVC	1. Brown 2. Not Used 3. Blue 4. Black	
	NANP-3MP-**	Black PUR AWM 3 X 24 AWG 60V, 3A -40°C to +80°C 4.5mm OD	Oil and Cutting Fluid Resistant Cut Resistant PUR		
	NAN-4MP-**	Black PVC AWM 4 X 24 AWG 60V, 3A -40°C to +105°C 4.5mm OD	Industry Standard PVC	1. Brown 2. White 3. Blue 4. Black	
	NANP-4MP-**	Black PUR AWM 4 X 24 AWG 60V, 3A -40°C to +80°C 4.5mm OD	Oil and Cutting Fluid Resistant Cut Resistant PUR		

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

J
NAN (M8) Series

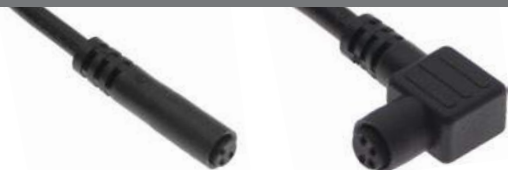


NAN (M8) Series Snap-On Cordsets

3 & 4 Conductor NAN Series Cordsets, 24AWG



Straight/Right Angle Female Cordsets | Snap-On Style | 60 Volt, 3 amps | IP67 Rating



Snap-On Style: Female Straight Plugs					
Connector Body Style	Part Number	Cables	Features	Color Code	Faceview
	NAN-3FP-**	Black PVC AWM 3 X 24 AWG 60V, 3A -40°C to +105°C 4.5mm OD	Industry Standard PVC	1. Brown 2. Not Used 3. Blue 4. Black	
	NANP-3FP-**	Black PUR AWM 3 X 24 AWG 60V, 3A -40°C to +80°C 4.5mm OD	Oil and Cutting Fluid Resistant Cut Resistant PUR		
	NAN-4FP-**	Black PVC AWM 4 X 24 AWG 60V, 3A -40°C to +105°C 4.5mm OD	Industry Standard PVC	1. Brown 2. White 3. Blue 4. Black	
	NANP-4FP-**	Black PUR AWM 4 X 24 AWG 60V, 3A -40°C to +80°C 4.5mm OD	Oil and Cutting Fluid Resistant Cut Resistant PUR		
Snap-On Style: Female Right Angle Plugs					
	NAN-3FP-**-R	Black PVC AWM 3 X 24 AWG 60V, 3A -40°C to +105°C 4.5mm OD	Industry Standard PVC	1. Brown 2. Not Used 3. Blue 4. Black	
	NANP-3FP-**-R	Black PUR AWM 3 X 24 AWG 60V, 3A -40°C to +80°C 4.5mm OD	Oil and Cutting Fluid Resistant Cut Resistant PUR		
	NAN-4FP-**-R	Black PVC AWM 4 X 24 AWG 60V, 3A -40°C to +105°C 4.5mm OD	Industry Standard PVC	1. Brown 2. White 3. Blue 4. Black	
	NANP-4FP-**-R	Black PUR AWM 4 X 24 AWG 60V, 3A -40°C to +80°C 4.5mm OD	Oil and Cutting Fluid Resistant Cut Resistant PUR		

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

J
NAN (M8) Series

NAN (M8) Series Thread-On Cordsets

3, 4 & 6 Conductor NAN Series Cordsets, 24/26AWG



Straight/Right Angle Male Cordsets | Thread-On Style | 60 Volt, 3 amps | IP67 Rating



Thread-On Style: Male Straight Plugs

Connector Body Style	Part Number	Cables	Features	Color Code	Faceview
	NAN-T-3MP-**	Black PVC AWM 3 X 24 AWG 60V, 3A -40°C to +105°C 4.5mm OD	Industry Standard PVC	1. Brown 2. Not Used 3. Blue 4. Black	 M8 x 1
	NANP-T-3MP-**	Black PUR AWM 3 X 24 AWG 60V, 3A -40°C to +80°C 4.5mm OD	Oil and Cutting Fluid Resistant Cut Resistant PUR		
	NAN-T-4MP-**	Black PVC AWM 4 X 24 AWG 60V, 3A -40°C to +105°C 4.5mm OD	Industry Standard PVC	1. Brown 2. White 3. Blue 4. Black	 M8 x 1
	NANP-T-4MP-**	Black PUR AWM 4 X 24 AWG 60V, 3A -40°C to +80°C 4.5mm OD	Oil and Cutting Fluid Resistant Cut Resistant PUR		
	NAN-T-6MP-**	Black PVC AWM 6 X 26 AWG 60V, 3A -40°C to +105°C 4.5mm OD	Industry Standard PVC	1. Brown 2. White 3. Blue 4. Black 5. Gray 6. Pink	 M8 x 1

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "-SS" suffix. (e.g. NAN-T-4MP-1M becomes NAN-T-4MP-1M-SS)

J
NAN (M8) Series

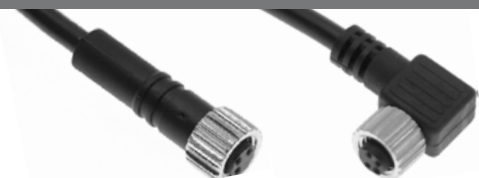



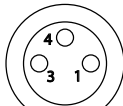

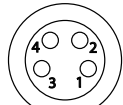

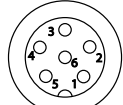
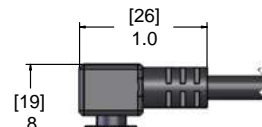
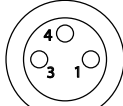
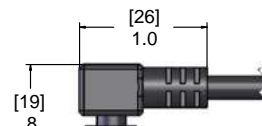
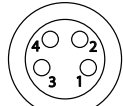
NAN (M8) Series Thread-On Cordsets

3, 4 & 6 Conductor NAN Series Cordsets, 24/26AWG



Straight/ Right Angle Female Cordsets | Thread-On Style | 60 Volt, 3 amps | IP67 Rating



Thread-On Style: Female Straight Plugs					
Connector Body Style	Part Number	Cables	Features	Color Code	Faceview
	NAN-T-3FP-**	Black PVC AWM 3 X 24 AWG 60V, 3A -40°C to +105°C 4.5mm OD	Industry Standard PVC	1. Brown 2. Not Used 3. Blue 4. Black	 M8 x 1
	NANP-T-3FP-**	Black PUR AWM 3 X 24 AWG 60V, 3A -40°C to +80°C 4.5mm OD	Oil and Cutting Fluid Resistant Cut Resistant PUR		
	NAN-T-4FP-**	Black PVC AWM 4 X 24 AWG 60V, 3A -40°C to +105°C 4.5mm OD	Industry Standard PVC	1. Brown 2. White 3. Blue 4. Black	 M8 x 1
	NANP-T-4FP-**	Black PUR AWM 4 X 24 AWG 60V, 3A -40°C to +80°C 4.5mm OD	Oil and Cutting Fluid Resistant Cut Resistant PUR		
	NAN-T-6FP-**	Black PVC AWM 6 X 26 AWG 60V, 3A -40°C to +105°C 4.5mm OD	Industry Standard PVC	1. Brown 2. White 3. Blue 4. Black 5. Gray 6. Pink	 M8 x 1
Thread-On Style: Female Right Angle Plugs					
	NAN-T-3FP-**-R	Black PVC AWM 3 X 24 AWG 60V, 3A -40°C to +105°C 4.5mm OD	Industry Standard PVC	1. Brown 2. Not Used 3. Blue 4. Black	 M8 x 1
	NANP-T-3FP-**-R	Black PUR AWM 3 X 24 AWG 60V, 3A -40°C to +80°C 4.5mm OD	Oil and Cutting Fluid Resistant Cut Resistant PUR		
	NAN-T-4FP-**-R	Black PVC AWM 4 X 24 AWG 60V, 3A -40°C to +105°C 4.5mm OD	Industry Standard PVC	1. Brown 2. White 3. Blue 4. Black	 M8 x 1
	NANP-T-4FP-**-R	Black PUR AWM 4 X 24 AWG 60V, 3A -40°C to +80°C 4.5mm OD	Oil and Cutting Fluid Resistant Cut Resistant PUR		

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "-SS" suffix. (e.g. NAN-T-4FP-1M becomes NAN-T-4FP-1M-SS)

J

NAN (M8) Series



NAN (M8) Series Thread-On Cordsets

3, 4 & 6 Conductor NAN Series Cordsets, 24/26AWG



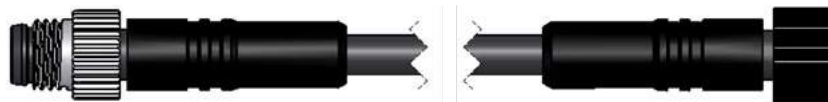
Double Ended Cordsets | Thread-On Style | 60 Volt, 3 amps | IP67 Rating



Male Faceview	Part Number	Cables	Features	Color Code	Female Faceview
<p>M8 x 1</p>	NAN-T-3MFP-**	Black PVC AWM 3 X 24 AWG 60V, 3A -40°C to +105°C 4.5mm OD	Industry Standard PVC	1. Brown 2. Not Used 3. Blue 4. Black	<p>M8 x 1</p>
	NANP-T-3MFP-**	Black PUR AWM 3 X 24 AWG 60V, 3A -40°C to +80°C 4.5mm OD	Oil and Cutting Fluid Resistant Cut Resistant PUR		
<p>M8 x 1</p>	NAN-T-4MFP-**	Black PVC AWM 4 X 24 AWG 60V, 3A -40°C to +105°C 4.5mm OD	Industry Standard PVC	1. Brown 2. White 3. Blue 4. Black	<p>M8 x 1</p>
	NANP-T-4MFP-**	Black PUR AWM 4 X 24 AWG 60V, 3A -40°C to +80°C 4.5mm OD	Oil and Cutting Fluid Resistant Cut Resistant PUR		
<p>M8 x 1</p>	NAN-T-6MFP-**	Black PVC AWM 6 X 26 AWG 60V, 3A -40°C to +105°C 4.5mm OD	Industry Standard PVC	1. Brown 2. White 3. Blue 4. Black 5. Gray 6. Pink	<p>M8 x 1</p>

** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

Standard coupling nut is nickel plated brass, for stainless steel coupling nut add a "SS" suffix. (e.g. NAN-T-4MFP-1M becomes NAN-T-4MFP-1M-SS)



Male - Female Extension Cable



NAN (M8) Series Cordsets with LEDs

3 Conductor NAN Series Cordsets, 24AWG



Right Angle Female Connectors | Snap-On/Thread-On Style | 30 VDC, 4 amps | IP67 Rating



Snap-On Style					
Connector Body Style	Part Number	Cables	Features	Color Code	Female Faceview
	NAN-3FP-**-R-PNP	Black PVC AWM 3 X 24 AWG 30 VDC, 3A -40°C to +105°C 4.5mm OD	Industry Standard PVC LED	1. Brown 2. Not Used 3. Blue 4. Black	
	NAN-3FP-**-R-NPN				
Thread-On Style					
	NAN-T-3FP-**-R-PNP	Yellow PVC AWM 3 X 24 AWG 30 VDC, 3A -40°C to +105°C 4.5mm OD	Industry Standard PVC LED	1. Brown 2. Not Used 3. Blue 4. Black	 M8 x 1
	NAN-T-3FP-**-R-NPN				

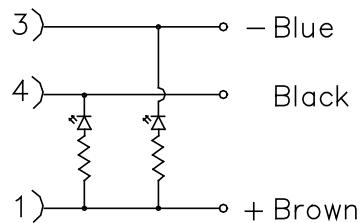
** Lengths in meters. Standard cable lengths are 1, 2, 4, 5, 6, 10 & 15 meters. Consult factory for other lengths.

J
NAN (M8) Series

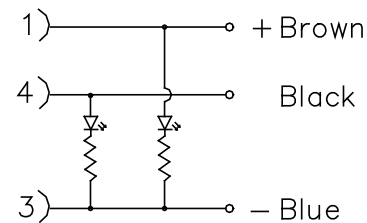
Snap-On

Thread-On

NPN – Normally Open



PNP – Normally Open





NAN (M8) Series Field Wireable Plugs

3 & 4 Conductor NAN Series Field Wireable Plugs, 22-24AWG



Field Wireable Plugs | Axial Piercing | 60V, 3 amps | IP67 Rating



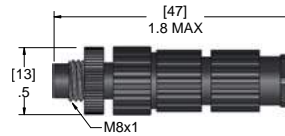
# of Poles	Male Faceview	Wire AWG Rating	Cable O.D. Range	Male Plugs		Female Plugs	
				Straight	Right Angle	Straight	Right Angle
3	 M8 x 1	18-24 AWG 60V 3A	4-5 mm	NAN-T-3MP-FW	NAN-T-3MP-FW-R	NAN-T-3FP-FW	NAN-T-3FP-FW-R
4	 M8 x 1	18-24 AWG 60V 3A	4-5 mm	NAN-T-4MP-FW	NAN-T-4MP-FW-R	NAN-T-4FP-FW	NAN-T-4FP-FW-R

J
NAN (M8) Series

Specifications:

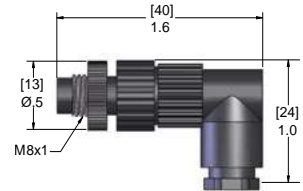
Body: Oil Resistant Black PVC
 Insulator: Polyamide
 Contacts: Copper Alloy with Gold Plating
 O-Rings: NBR
 Coupling Nut: Nickel Plated ZnAl
 Grommet: NBR
 Connection: Axial Piercing
 Temperature: -25°C to +90°C (-13°F to +194°F)

Straight

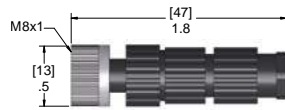


Male Plug

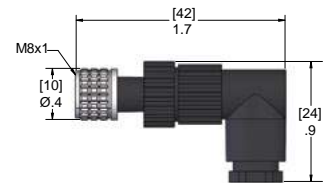
Right Angle



Male Plug



Female Plug



Female Plug



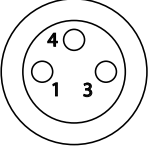
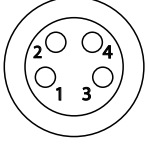
NAN (M8) Series Field Wireable Plugs

3 & 4 Conductor NAN Series Field Wireable Plugs, 22-24AWG



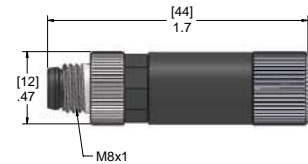
Field Wireable Plugs | Screw Terminals | 30V, 3 amps | IP67 Rating



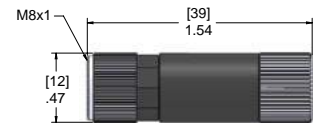
Male Faceview	# of Poles	Wire AWG Rating	Cable O.D. Range	Male Plugs	Female Plugs
 M8 x 1	3	20-26 AWG 30V 3A	3-5 mm	NAN-T-3MP-FW-ST	NAN-T-3FP-FW-ST
 M8 x 1	4	20-26 AWG 30V 3A	3-5 mm	NAN-T-4MP-FW-ST	NAN-T-4FP-FW-ST

Specifications:

Body: Polyamide
 Insulator: Polyamide
 Contacts: Copper Alloy with Gold Plating
 O-Ring: NBR
 Coupling Nut: Nickel Plated Brass
 Grommet: NBR
 Connections: Screw Terminals
 Temperature: -40°C to +85°C (-40°F to +185°F)



Male Plug



Female Plug

J

NAN (M8) Series



NAN (M8) Series Accessories

3, 4 & 6 Conductor NAN Series Accessory Cables



100' Cables | Raw Cable Spools

# of Conductors	Color Code	Wire AWG	Voltage Rating	Features	Part Number	
					100' Cable	Spool
3	Brown Blue Black	24 AWG	300V	Black PVC AWM 4.5mm OD (0.18" OD)	NAN-3CBL-C	36B0001-*
		24 AWG	300V	Black PUR AWM 4.5mm OD (0.18" OD)	NANP-3CBL-C	36BP001-*
4	Brown White Blue Black	24 AWG	300V	Black PVC AWM 4.5mm OD (0.18" OD)	NAN-4CBL-C	36C0001-*
		24 AWG	300V	Black PUR AWM 4.5mm OD (0.18" OD)	NANP-4CBL-C	36CP001-*
6	Brown White Blue Black Gray Pink	26 AWG	300V	Black PVC AWM 4.5mm OD (0.18" OD)	NAN-6CBL-C	36EB001-*

* Standard raw spool lengths are 0250, 0500, 0750 & 1000 feet. Consult factory for other lengths.

Cable Construction subject to change without notice.

Length in feet. Standard cable length is 100 feet. Consult factory for other lengths.

J

NAN (M8) Series



NAN (M8) Series Receptacles

NAN Series Receptacle Part Number Matrix



Not all options available with all receptacles, please consult factory.

NAN - T - - - -

Number of Conductors

3
4

Connector Configuration

MR = Male Receptacle
FR = Female Receptacle

Coupling Nut

Blank = Aluminum or Nickel plated brass
SS = Stainless Steel

Mounting Type

2 = Front Mount 1/2"-14 NPT
M8 = Front Mount Metric 8 Threads
BM = Back Mount
BM-PCB = PCB Back Mount

Length in Meters

Blank = 1'

J

NAN (M8) Series

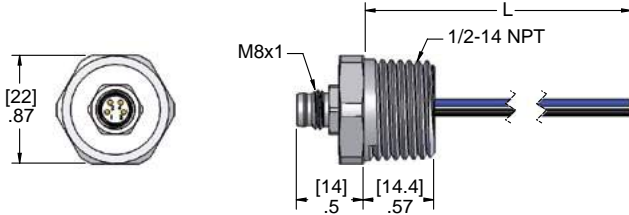
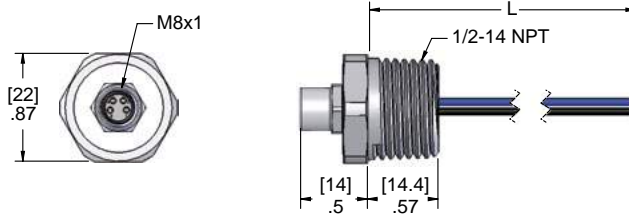
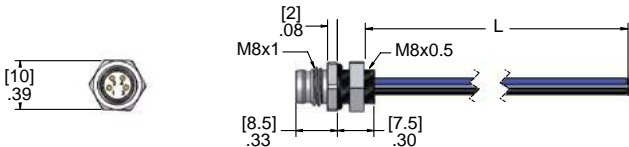
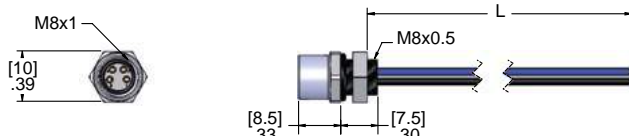
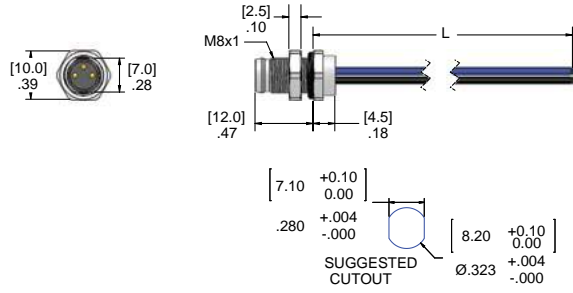
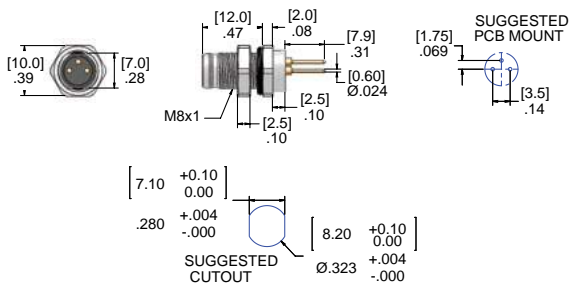


NAN (M8) Series Receptacles

NAN Series Receptacles Index



Front Mount | Back Mount | PCB Back Mount

Front Mount, Male, 1/2"-14 NPT Threads	Page J-15	Front Mount, Female, 1/2"-14 NPT Threads	Page J-15
			
Front Mount, Male, M8 Threads	Page J-15	Front Mount, Female, M8 Threads	Page J-15
			
Back Mount, Male	Page J-15	PCB Back Mount, Mmale	Page J-16
			

J
NAN (M8) Series



NAN (M8) Series Receptacles

3 & 4 Conductor NAN Series Receptacles, 24AWG

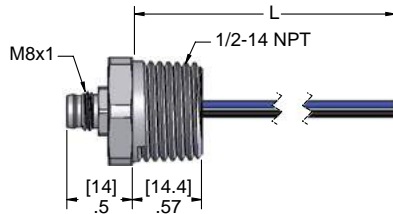


Front & Back Mount Receptacles | 1/2"-14 NPT & M8 Threads | 60V, 3A | IP67 Rating

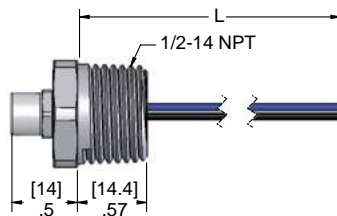
# of Poles	Male Faceview	Color Code	Wire AWG Rating	Thread Type	Male Receptacles	Female Receptacles
3	<p>M8 x 1</p>	1. Brown 2. Not Used 3. Blue 4. Black	24 AWG 60V 3A	1/2" NPT	NAN-T-3MR-2	NAN-T-3FR-2
				M8 x 0.5	NAN-T-3MR-M8	NAN-T-3FR-M8
				Back Mount	NAN-T-3MR-BM	N/A
4	<p>M8 x 1</p>	1. Brown 2. White 3. Blue 4. Black	24 AWG 60V 3A	1/2" NPT	NAN-T-4MR-2	NAN-T-4FR-2
				M8 x 0.5	NAN-T-4MR-M8	NAN-T-4FR-M8
				Back Mount	NAN-T-4MR-BM	N/A

12" leads are standard. Longer lead lengths are available, please consult the factory for part numbers. For 1/2" receptacles with lengths of 15" or longer O-ring and lock nut are included.

1/2" NPT Threads

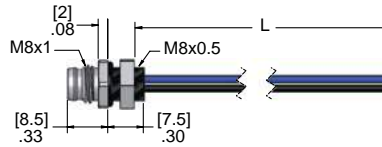


Male Receptacle

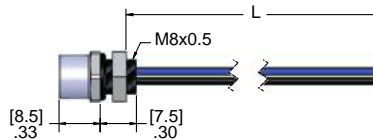


Female Receptacle

M8 Threads

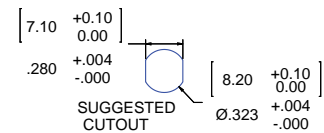
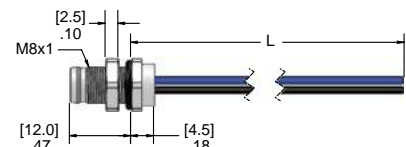


Male Receptacle



Female Receptacle

Back Mount



Male Receptacle

Specifications:

- Shell: Nickel Plated Brass
- Insulator: Polyamide
- Contacts: Copper Alloy with Gold Plating
- Wires: 24 AWG
- O-Ring: NBR
- Lock Nut: Zinc Plated Steel
- Jam Nut: Nickel Plated Brass
- Temperature: -25°C to +90°C (-13°F to +194°F)

J

NAN (M8) Series



NAN (M8) Series Receptacles

3 & 4 Conductor NAN Series Receptacles

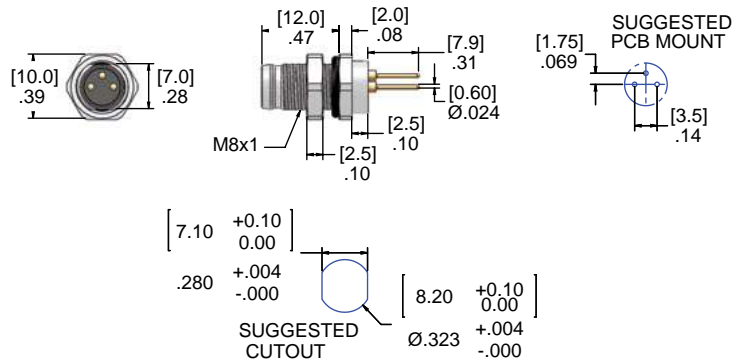


Back Mount PCB Receptacles | 60 Volt, 3 amps | IP67 Rating

# of Poles	Male Faceview	Rating	Male Receptacles
3	<p>M8 x 1</p>	60V 3A	NAN-T-3MR-BM-PCB
4	<p>M8 x 1</p>	60V 3A	NAN-T-4MR-BM-PCB

Specifications:

Shell: Nickel Plated Brass
 Insulator: Polyamide
 Contacts: Copper Alloy with Gold Plating
 Jam Nut: Nickel Plated Brass
 O-Ring: NBR
 Temperature: -40°C to 105°C (-40°F to +221°F)



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NAN (M8) Series