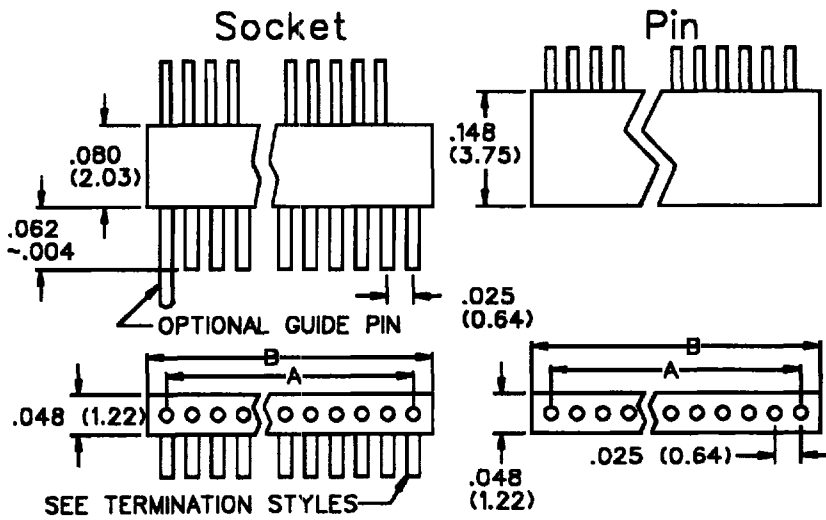




# 0.64mm (.025") Pitch Ulti-Mate™ N Series Nano Connector NS Basic Nano Strip

A truly remarkable series of connectors with contacts on .025" pitch. This means that you could have contact densities of 1600 per square inch. The size 30 Mite-Y-Pin™ contacts have engagement forces of only 1 oz and operate effectively under the shock and vibration requirements as established for MIL-C-83513. The NS Nano Series is currently available in strip form with single row contacts up to 40 positions.



### Dimensional Formula

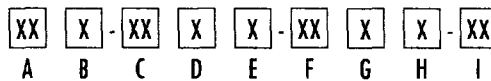
A = (No. of positions - 1) x 0.63mm (.025") first to last contact  
B = A + 1.27mm (.050") overall

### Optional Circuit Terminations

Socket Terminations are self-lead (1 piece) 0.36mm (.014") diameter.

Pin Terminations are solid 30 AWG, 0.25mm (.010") diameter. Both are solder or Tin dip.

## ORDERING INFORMATION AND DIMENSIONS



Micro/Nano Interconnections

A	
Series	
NS	Nano strip
B	
Insulator Material	
R*	Ryton <sup>1</sup> per MIL-M-24519 GST 4DF
L	LCP
C	
Size	
Total number of contacts. 40 positions max.	

D	
Contact Type	
P	Pin
S	Socket

E	
Mounting/Coupling (combine as required)	
0	None
1	Located in end contact. 1 guide pin (socket side) and 1 hole (pin side).
2	Located on both ends. Other locations available, contact factory. 2 guide pins (socket side) and 2 holes (pin side).

F	
Wire Size	
30, 32*, 34, 36 AWG	
OR	
Circuit Termination (replaces all of above)	
L01, L03, L05, L06 (not available on NH Series)	

G	
Wire Type	
B	PVC 7 strand B
C	Solid Copper
E*	TFE 7 strand E
F	TFE 7 strand ET

H	
Wire Color/Finish	
1*	White
2	Yellow
3	Tin plated
4	Gold plated
5	Color coded per MIL-STD-681C

I	
Wire Length (3 digits)	
18.0	(inches)
M46	(cm)

\* Indicates preferred standard

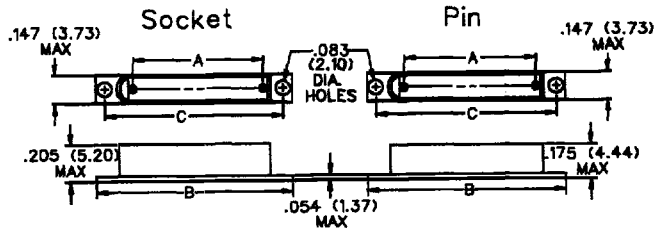
<sup>1</sup> Ryton is a registered trademark of Phillips Petroleum Company



# 0.64mm (.025") Pitch Ulti-Mate™ N Series Nano Connector

## NSM Metal Shell with Mounting Ears

The size 30 Mite-Y-Pin™ contacts have engagement forces of only 1 oz and operate effectively under the shock and vibration requirements as established for MIL-C-83513. The NSM Nano Series is currently available in strip form with single row contacts up to 40 positions and metal shell strips for added strength. Inquiries for other configurations are invited.



### Dimensional Formula

A = (No. of positions - 1) x 0.63mm (.025") first to last contact

B = A + 1.32mm (.052") overall

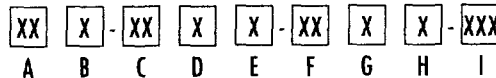
C = A + 9.27mm (.365") center to center of mounting holes

### Optional Circuit Terminations

Socket Terminations are self-lead (1 piece) 0.36mm (.014") diameter.

Pin Terminations are solid 30 AWG, 0.25mm (.010") diameter. Both are solder or Tin dip.

## ORDERING INFORMATION AND DIMENSIONS



A	
Series	
NSM	Complete metal shell

B	
Insulator Material	
R*	Ryton <sup>1</sup> per MIL-M-24519 GST 40F
L	LCP

C	
Size	
Total number of contacts, 40 positions max.	

D	
Contact Type	
P	Pin
S	Socket

E	
Mounting/Coupling (combine as required)	
0	None
1	Located in end contact. 1 guide pin (socket side) and 1 hole (pin side).
2	Located on both ends. Other locations available, contact factory. 2 guide pins (socket side) and 2 holes (pin side).

F	
Wire Size	
30, 32*, 34, 36 AWG	
OR	
Circuit Termination (replaces all of above)	
L01, L03, L05, L06 (not available on NH Series)	

G	
Wire Type	
B	PVC 7 strand B
C	Solid Copper
E*	TFE 7 strand E
F	TFE 7 strand ET

H	
Wire Color/Finish	
1*	White
2	Yellow
3	Tin plated
4	Gold plated
5	Color coded per MIL-STD-681C

I	
Wire Length (3 digits)	
18.0 (inches)	
M46 (cm)	

\* Indicates preferred standard

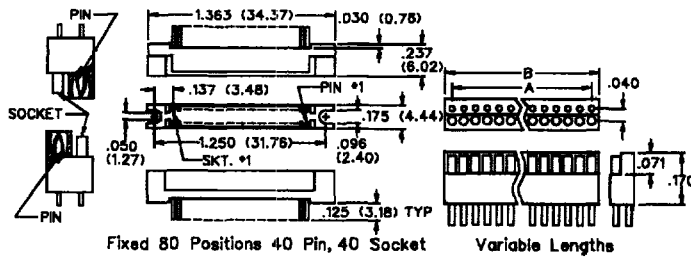
<sup>1</sup> Ryton is a registered trademark of Phillips Petroleum Company





# 0.64mm (.025") Pitch Ulti-Mate™ N Series Nano Connector NH Hermaphroditic

Hermaphroditic style of connector includes 1 row each of pin and socket contacts. This feature provides excellent alignment while offering the customer common connectors for both the plug and receptacle.



### Dimensional Formula/Variable Lengths

A = (No. of positions - 1) x 0.63mm (.025") first to last contact

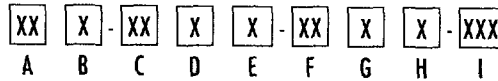
B = A + 1.27mm (.050") overall

### Optional Circuit Terminations

Socket Terminations are self-lead (1 piece) 0.36mm (.014") diameter.

Pin Terminations are solid 30 AWG, 0.25mm (.010") diameter. Both are solder or Tin dip.

## ORDERING INFORMATION AND DIMENSIONS



Micro/Nano Interconnections

A	
Series	
NH	Hermaphroditic

B	
Insulator Material	
R*	Ryton <sup>†</sup> per MIL-M-24519 GST 40F
L	LCP

C	
Size	
Total number of contacts. 80 positions max.	

D	
Contact Type	
H	Pin and Socket

E	
Mounting/Coupling (combine as required)	
0	None
1	Located in end contact. 1 guide pin (socket side) and 1 hole (pin side).
2	Located on both ends. Other locations available, contact factory. 2 guide pins (socket side) and 2 holes (pin side). 80 position connector is a fully shrouded connector.

F	
Wire Size	
30, 32*, 34, 36 AWG	
OR	
Circuit Termination (replaces all of above)	
L01, L03, L05, L06 (not available on NH Series)	

G	
Wire Type	
B	PVC 7 strand B
C	Solid Copper
E*	TFE 7 strand E
F	TFE 7 strand ET

H	
Wire Color/Finish	
1*	White
2	Yellow
3	Tin plated
4	Gold plated
5	Color coded per MIL-STD-681C

I	
Wire Length (3 digits)	
18.0	(inches)
M46	(cm)

\* Indicates preferred standard

<sup>†</sup> Ryton is a registered trademark of Phillips Petroleum Company