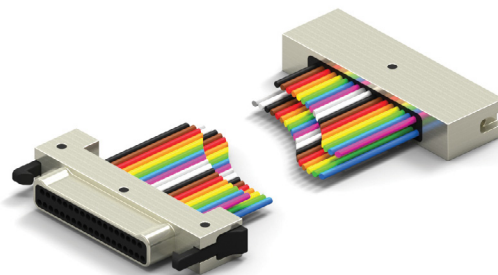


# LATCHING WIRED CONNECTOR

- Metal Shell Connector w/Wire Leads
- Quick Disconnect Latch Mechanism
- Operating Temperature -50° C to 200° C
- 9 to 37 Contacts









NANO D – PID 150

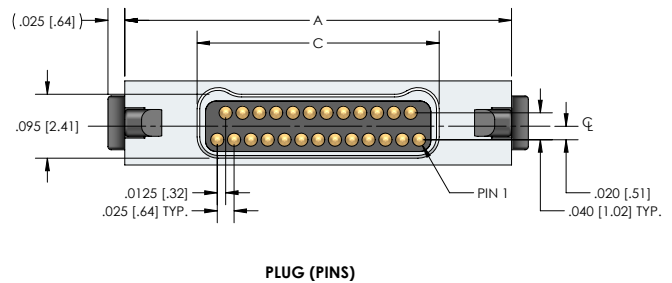
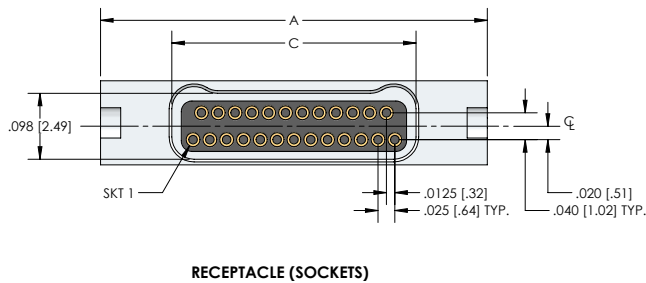
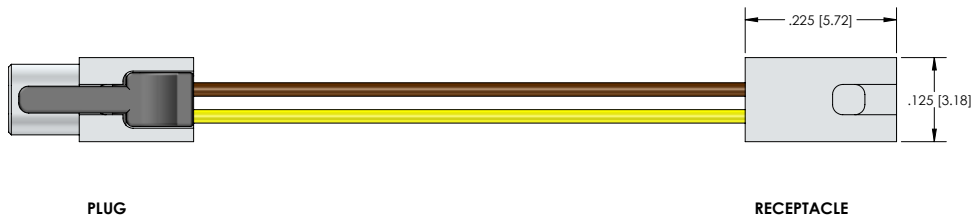
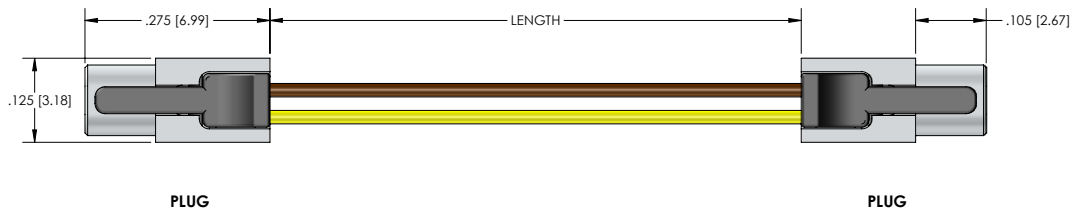
## HOW TO ORDER

\* Indicates preferred standard \*\* Consult factory for other plating options

**N M L 25 - 2 P Ø4 /NMLX-2XX - 3Ø F 6 - 18.Ø - SØ1**

N	M	L	25	-	2	P	Ø4	/NMLX-2XX - 3Ø	F	6	-	18.Ø	-	SØ1
Series	Insulator	Contacts	Insulator Type	Contact Gender	Hardware	Detail of Other End of the Harness	Wire Gauge	Wire Type	Color Code	Length	Finish**	Temp Range		
N= Nano	M= Metal	L= LCP	Ø9	2= Dual Row	P= Male/Pin (Plug Side)	Ø4=Latch	Refer to the left columns for filling out the x	*F=Stranded, w/Teflon insulation, per NEMA HP3-ET	1=White	*18.Ø	Blank= Cadmium	*Bank = 125C		
		15				32		Y=Stranded w/Tefzel insulation, per SAE AS22759/33	*6 = 10 solid colors, repeating	*36.Ø		HT = 200°C		
		21		S= Female/Socket (Receptacle Side)		34		X=Stranded, per DSCC Ø4Ø47-3ØA (White, 3Ø AWG only)				*SØ1 = Nickel		
		25												
		31										SØ3 = Black Anodize		
		37										SØ9 = Stainless		

# DIMENSIONS



NM SERIES (DUAL ROW)				
Size	A	Plug	C	Receptacle
9	.375 [9.52]	.160 [4.06]		.163 [4.14]
15	.450 [11.43]	.235 [5.97]		.238 [6.04]
21	.525 [13.33]	.310 [7.87]		.313 [7.95]
25	.575 [14.60]	.360 [9.14]		.363 [9.22]
31	.650 [16.51]	.435 [11.05]		.438 [11.12]
37	.725 [18.41]	.510 [12.95]		.513 [13.03]

# NANO-D LATCHING WIRED

## PERFORMANCE DATA

123-E	ELECTRICAL
<b>CONTACT RESISTANCE:</b>	.080 mΩ max. @ 1.0 A
<b>CURRENT RATING (SIGNAL CONTACTS):</b>	1.0 A max.
<b>DIELECTRIC WITHSTANDING VOLTAGE:</b>	250 VAC at sea level , 100 VAC at 70,000 ft.
<b>INSULATION RESISTANCE:</b>	5,000 MΩ min..

123-M	MECHANICAL
<b>CONTACT ENGAGING FORCE:</b>	5 oz max. (Contact average is 2 oz.)
<b>CONTACT SEPARATING FORCE:</b>	0.4 oz. min.
<b>CONNECTOR MATING FORCE:</b>	7 oz. x number of contacts max.
<b>CONNECTOR UNMATING FORCE:</b>	7 oz. x number of contacts max.
<b>VIBRATION:</b>	No damage or interruption detected (one microsecond sensitivity) EIA-364-28 Condition IV
<b>SHOCK:</b>	No damage or interruption detected (one microsecond sensitivity) EIA-364-28 Condition IV
<b>DURABILITY:</b>	No mechanical or electrical defects after 200 matings.
<b>SALT SPRAY:</b>	No exposure of base metal or loss of performance after 96 hours for both Nickel and Cadmium plating

## MATERIALS AND FINISHES

149-M&F	MATERIALS AND FINISHES
<b>Pin Contacts</b>	Pins: BeCu alloy strip per ASTM-B-194
<b>Socket Contacts</b>	Brass Alloy C260 Per ASTM B135
<b>Contact Plating</b>	Gold plate per ASTM B488, or SAE AMS 2422
<b>Metal Shells</b>	Aluminum alloy per SAE-AMS-QQ-A-200/8, TYPE 6061-T6 with Electroless Nickel PLATING PER SAE-AMS2404, Class3 OR 4 Aluminum alloy per SAE-AMS-QQ-A-200/8, TYPE 6061-T6 with Cadmium Plating SAE-AMS-QQ-P-416, TYPE II, Class 1 Aluminum alloy per SAE-AMS-QQ-A-200/8, TYPE 6061-T6 with Black Anodize Plating per MIL-A-8625, TYPE III, Class 2 Stainless Steel per ASTM A582
<b>Molded Full Metal Housing/ Lead Organizer</b>	LCP (Liquid Crystal Polymer) GLCP-30F or PPS per MIL-M-24519 GST-40F
<b>Hardware</b>	Polyphenylene Sulfide (PPS), per MIL-M-24519 GST-40F, 40% Glass