

WIRED CONNECTOR


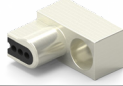












- Metal Shell Connector w/Wire Leads
- Operating Temperature -50° C to 200° C
- 9 to 51 Contacts



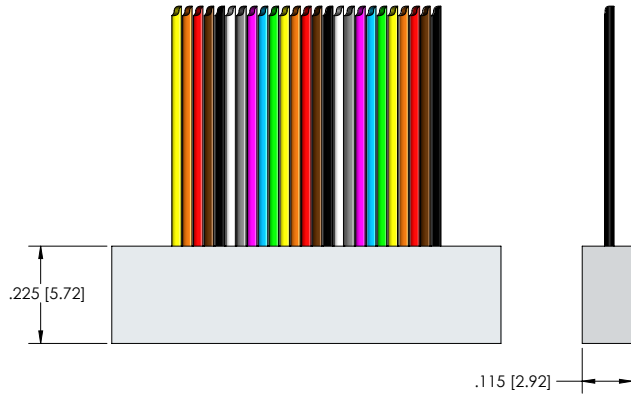
NANO D – PID 123

HOW TO ORDER

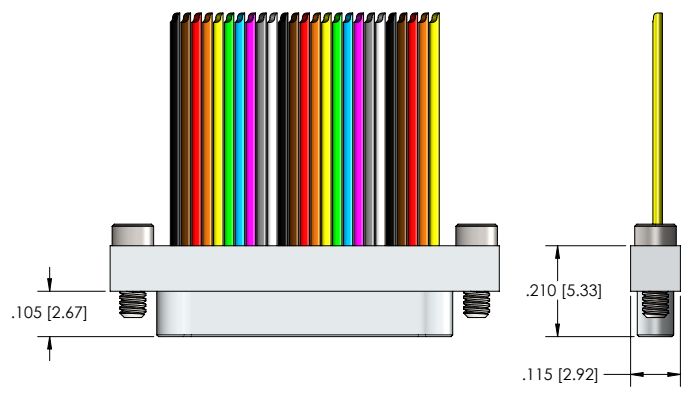
* Indicates preferred standard ** Consult factory for other options

N	M	L	25	-	1	P	Ø2	-	3Ø	F	6	-	18.Ø	-	SØ1
Series	Series	Insulator	Contacts	Insulator Type	Contact Gender	Hardware	Wire Gauge	Wire Type**	Color Code	Length**	Finish**	Temp Range			
N = Nano	M = Metal	L = LCP	Ø9	1 = Single Row	P = Male/Pin (Plug Side)	Ø No Hardware	3Ø*	C = Solid Wire, uninsulated	1 = White	*18.Ø	Blank = Cadmium	*Blank = 125C			
			15				32	*F = Stranded, w/Teflon insulation, per NEMA HP3-ET	3 = Tin plated (6Ø/4Ø) (solid wire)	*36.Ø		HT = 200°C			
			21		S = Female/Socket (Receptacle Side)	Ø1 = Phillips Head Jackscrew	34	Y = Stranded w/Tefzel insulation, per SAE AS22759/33	4 = Gold plated (RoHS) (solid wire)		*SØ1 = Nickel				
			25					A = Stranded, per DSCC Ø4Ø47-3ØA (White, 3Ø AWG only)	*6 = 10 solid colors, repeating						
			31			*Ø2 = Allen Head Jackscrew		T = Flat Integral Tail			SØ3 = Black Anodize				
			37												
			51			Ø5 = Slotted Head Jackscrew					SØ9 = Stainless				
															
						Ø6 = Floating Phillips Head Jackscrew (Female Only)									
															
						Ø7 = Threaded Hole									
															
						Ø8 = Floating Allen Head Jackscrew (Female Only)									
															
						Ø9 = Floating Slotted Head Jackscrew (Female Only)									
															

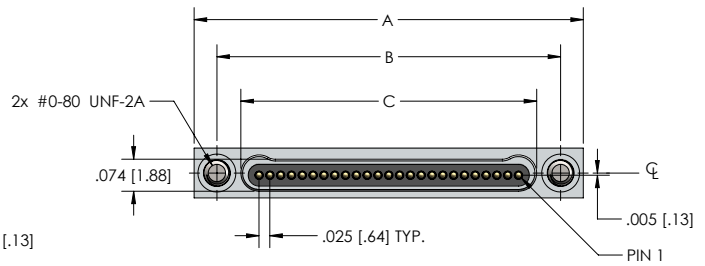
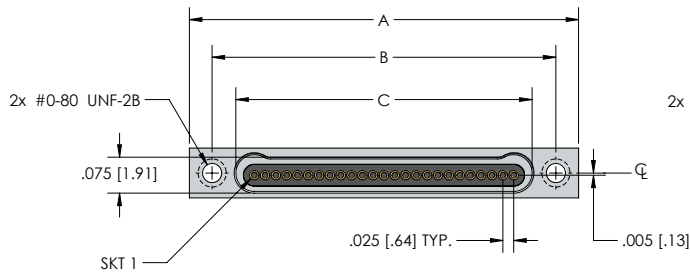
DIMENSIONS



RECEPTACLE (SOCKETS)



PLUG (PINS)



NML SERIES (SINGLE ROW)				
Size	A	B	Plug C	Receptacle
9	.500 [12.70]	.395 [10.03]	.284 [7.21]	.285 [7.24]
15	.650 [16.51]	.545 [13.84]	.434 [11.02]	.435 [11.05]
21	.800 [20.32]	.695 [17.65]	.584 [14.83]	.585 [14.86]
25	.900 [22.86]	.795 [20.19]	.684 [17.37]	.685 [17.40]
31	1.050 [26.67]	.945 [24.00]	.834 [21.18]	.835 [21.21]
37	1.200 [30.48]	1.095 [27.81]	.984 [24.99]	.985 [25.02]
51	1.550 [39.37]	1.445 [36.70]	1.334 [33.88]	1.335 [33.91]

NANO-D WIRED SERIES METAL PERFORMANCE DATA, MATERIALS AND FINISHES

PERFORMANCE DATA

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

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

MATERIALS AND FINISHES

123-M&F	MATERIALS AND FINISHES
Pin Contacts	BeCu Alloy Strip per ASTM-B-194
Socket Contacts	Brass Alloy C260 per ASTM B135
Contact Plating	Gold Plate per ASTM B488, or SAE AMS 2422
Metal Shells	Aluminum Alloy per SAE-AMS-QQ-A-200/8, TYPE 6061-T6 with Electroless Nickel Plating per SAE-AMS2404, CLASS 3 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
Molded Insulators Into Metal Housing	LCP (Liquid Crystal Polymer) GLCP-30F or PPS per MIL-M-24519 GST-40F
Hardware	Corrosion Resistant Steel per ASTM A 582/A582 or ASTM A 581/A581M, Passivated per SAE AMS-2700