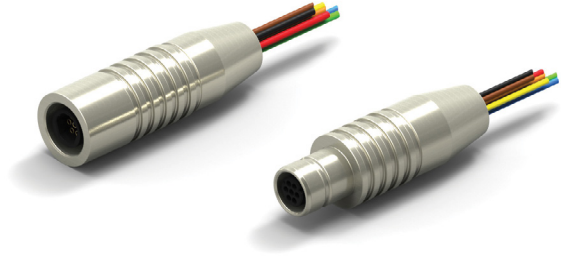


# CIRCULAR WIRED CONNECTOR






- Metal Shell Connector w/Wire Leads
- Operating Temperature -50° C to 200° C
- 7, 12 and 19 Contacts
- IP67 Option



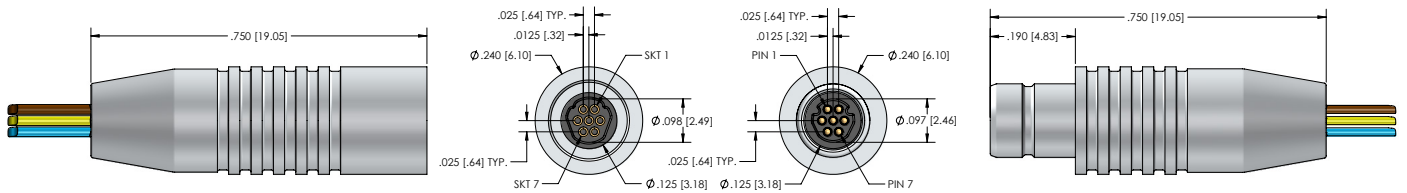
NANO D – PID 113

## HOW TO ORDER

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

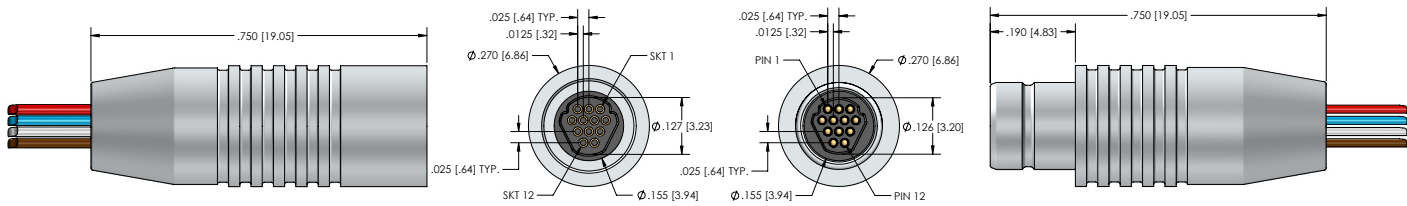
RN	B	Ø	- Ø7	P	- 3Ø	F	6	- 18	A	- SØ1		
Series	Mounting Style	Connector Size	Contact Gender	Wire Gauge	Wire Type	Color Code	**Length	Modifications	Finish**	Temp Range		
RN = Round Nano	B = Break Away	Ø = Inline	Ø7	P = Male/Pin (Plug Side)	3Ø*	*F = Stranded, w/Teflon insulation, per NEMA HP3-ET	1 = White	*18.Ø	Blank = No Modifications	*SØ1 = Nickel	*Blank = 125C	
			12		32	Y = Stranded w/Tefzel insulation, per SAE AS22759/33	*6 = 10 solid colors, repeating	*36.Ø	A = With Sealing O-ring (IP-67)		HT = 200°C	
			19	S = Female/Socket (Receptacle Side)	34	A = Stranded, per DSCC Ø4Ø47-3ØA (White, 3Ø AWG only)				SØ3 = Black Anodize		
												
										SØ9 = Stainless		
												

# DIMENSIONS



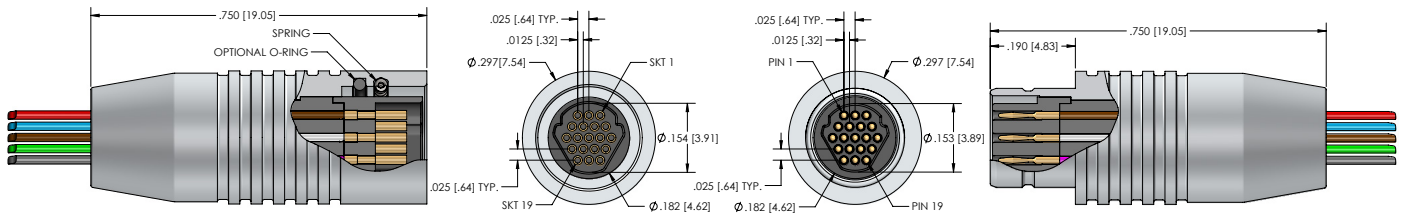
7 POSITION RECEPTACLE

7 POSITION PLUG



12 POSITION RECEPTACLE

12 POSITION PLUG



19 POSITION RECEPTACLE

19 POSITION PLUG

## PERFORMANCE DATA

133-E	ELECTRICAL
<b>CONTACT RESISTANCE:</b>	0.033 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

113-M&F	MATERIALS AND FINISHES
<b>Pin Contacts</b>	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, 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
<b>Molded Insulators</b>	Insulating compound per MIL-I-16923. Liquid Crystal Polymer (LCP), per MIL-M-24519 GLCP-30F, 30% Glass