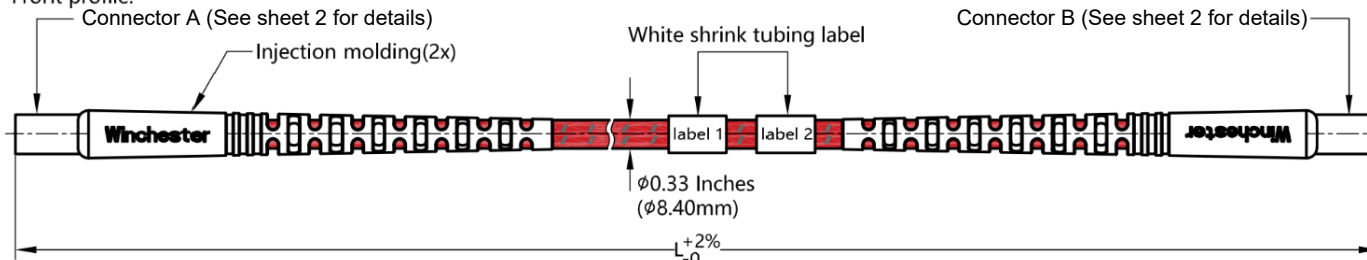


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REV	DESCRIPTION	DATE	APPROVED
A	PER EP-3050	01/17/23	FUH

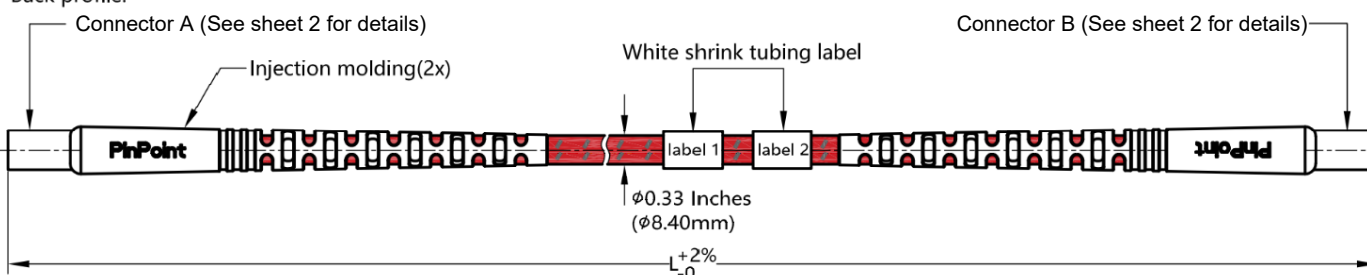
Front profile:



label 1:

winconn.com
PN:HPA18-XXXXXX-YYY

Back profile:



label 2:

Month Year
MM/YYYY
SN:XXXX

MATERIAL SPECIFICATIONS

PIECE PARTS	MATERIALS	PLATING
Coupling Nut	Stainless Steel	Passivated
Body	Stainless Steel	Passivated
Contact Pin	Male: Be-Cu or Brass Female: Be-Cu	Gold
Insulator	PTFE (and PEI for SMA Male Right Angle)	Natural
Cable	HPA18, armored low loss phase stable cable (Red+Gray)	N/A

MECHANICAL SPECIFICATIONS

MIN. BENDING RADIUS STATIC	1.65 inches(42mm)
MIN. BENDING RADIUS DYNAMIC	3.15 inches(84mm)
RECOMMENDED COUPLING TORQUE	7-9 lb-in (SMA Male) 8-12 lb-in (TNCA Male) 9-14 lb-in (N Male)
COUPLING NUT RETENTION FORCE	60 lbs (SMA Male) 100 lbs (N Male/TNCA Male)
DURABILITY	5000 Cycles

ENVIRONMENTAL SPECIFICATIONS

RoHS & REACH	Compliant
TEMPERATURE RANGE	-40°C~+125°C

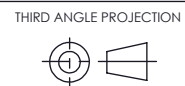
ELECTRICAL SPECIFICATIONS

IMPEDANCE	50Ω
FREQUENCY RANGE	DC~18GHz
VOLTAGE RATING	335V(rms)
DIELECTRIC WITHSTANDING VOLTAGE	750V(DC)
INSULATION RESISTANCE	3000MΩ
INSERTION LOSS	See Page 3 for details
VSWR	1.30 Max (1.35 Max for Right Angles)
MECHANICAL PHASE STABILITY	±6° Max
MECHANICAL AMPLITUDE STABILITY	±0.08dB Max.

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES [MM]

TOLERANCES:
DECIMALS: ±0.12[0.3]
ANGLES: ±5°

DRAWN	DATE
FUH	01/17/23
APPR.	DATE
DCAM	01/17/23
APPR.	DATE
XXX	XX/XX/XX
APPR.	DATE
XXX	XX/XX/XX

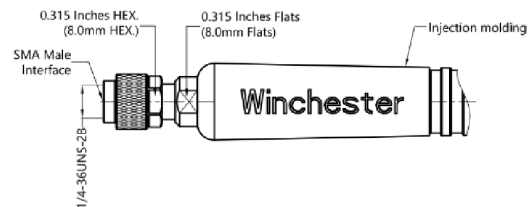


 Winchester Interconnect.		68 Water St. Norwalk, CT 06854	
TITLE: PINPOINT HIGH PERFORMANCE CABLE ASSEMBLY			
SIZE A	DWG. NO. SDHPA18-XXXXXX-YYY		REV A
SH 1 OF 3			

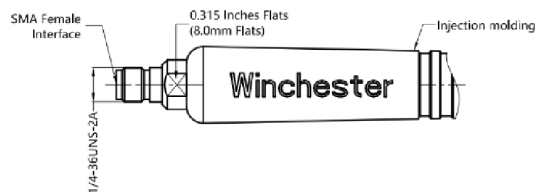
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Outline drawing of connector A/B.

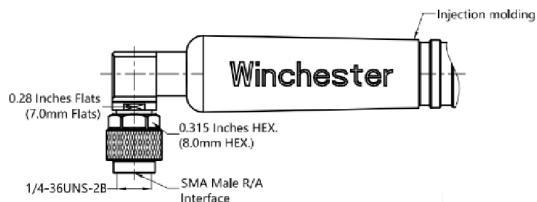
SMA Male for HPA18



SMA Female for HPA18

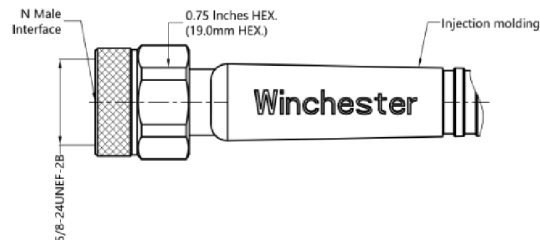


SMA Male Right Angle for HPA18

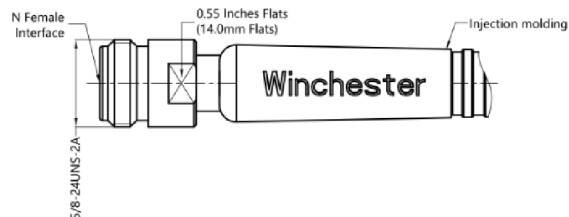


Outline drawing of connector A/B.

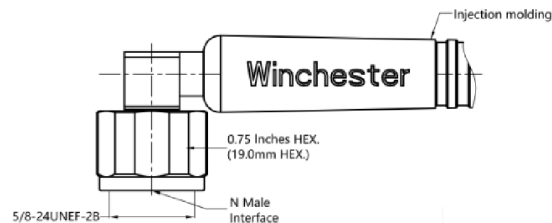
N Male for HPA18



N Female for HPA18

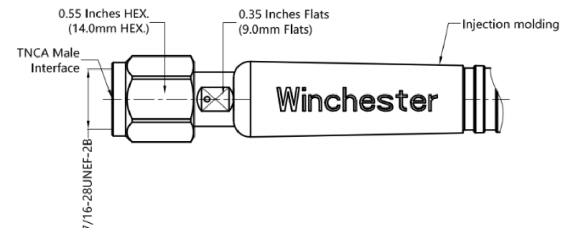


N Male Right Angle for HPA18



Outline drawing of connector A/B.

TNCA Male for HPA18



TITLE:
PINPOINT HIGH PERFORMANCE
CABLE ASSEMBLY

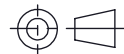
SIZE A
SH 2 OF 3

DWG. NO.
SDHPA18-XXXXXX-YYY

REV
A

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES [MM]

TOLERANCES:
DECIMALS: $\pm 0.12 [0.3]$
ANGLES: $\pm 5^\circ$



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REV	DESCRIPTION	DATE	APPROVED
A	PER EP-3050	01/17/23	FUH

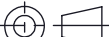
HPA18-XXXXXX-YYY					
CABLE TYPE	-XXXXXX	-YYY	CONNECTOR A	CONNECTOR B	MAX FREQ.
HPA18	SMSM	SEE TABLE BELOW	SMA MALE	SMA MALE	18 GHz
	SMSF	SEE TABLE BELOW	SMA MALE	SMA FEMALE	
	SMRSM	SEE TABLE BELOW	SMA MALE RIGHT ANGLE	SMA MALE	
	SMRSF	SEE TABLE BELOW	SMA MALE RIGHT ANGLE	SMA FEMALE	
	NMNM	SEE TABLE BELOW	N MALE	N MALE	
	NMNF	SEE TABLE BELOW	N MALE	N FEMALE	
	NMRNM	SEE TABLE BELOW	N MALE RIGHT ANGLE	N MALE	
	NMRNF	SEE TABLE BELOW	N MALE RIGHT ANGLE	N FEMALE	
	TMTM	SEE TABLE BELOW	TNCA MALE	TNCA MALE	

-YYY	LENGTH	MAX INSERTION LOSS
018	18 inches(457mm)	0.96dB
024	24 inches(610mm)	1.13dB
030	30 inches(762mm)	1.30dB
036	36 inches(914mm)	1.46dB
042	42 inches(1067mm)	1.63dB
048	48 inches(1219mm)	1.80dB
054	54 inches(1372mm)	1.97dB
060	60 inches(1524mm)	2.14dB
066	66 inches(1676mm)	2.30dB
072	72 inches(1829mm)	2.47dB
078	78 inches(1981mm)	2.64dB
084	84 inches(2134mm)	2.81dB
090	90 inches(2286mm)	2.97dB
096	96 inches(2438mm)	3.14dB
102	102 inches(2591mm)	3.31dB
108	108 inches(2743mm)	3.48dB
114	114 inches(2896mm)	3.65dB
120	120 inches(3048mm)	3.81dB
126	126 inches(3200mm)	3.98dB
132	132 inches(3353mm)	4.15dB
138	138 inches(3505mm)	4.32dB
144	144 inches(3658mm)	4.48dB
150	150 inches(3810mm)	4.65dB
156	156 inches(3962mm)	4.82dB
162	162 inches(4115mm)	4.99dB
168	168 inches(4267mm)	5.16dB
174	174 inches(4420mm)	5.32dB
180	180 inches(4572mm)	5.49dB
198	198 inches(5029mm)	TBD

Catalog P/N Example: HPA18-SMSM-036



68 Water St.
Norwalk, CT 06854

DRAWN FUH		DATE 01/17/23		 Winchester Interconnect.	68 Water St. Norwalk, CT 06854	
APPR. DCAM		DATE 01/17/23				
APPR. XXX		DATE XX/XX/XX		TITLE: PINPOINT HIGH PERFORMANCE CABLE ASSEMBLY		
APPR. XXX		DATE XX/XX/XX				
THIRD ANGLE PROJECTION 				SIZE A SH 3 OF 3	DWG. NO. SDHPA18-XXXXXX-YYY	REV A

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES [MM]

TOLERANCES:
DECIMALS: ±0.12[0.3]
ANGLES: ±5°

Mouser Electronics

Authorized Distributor

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