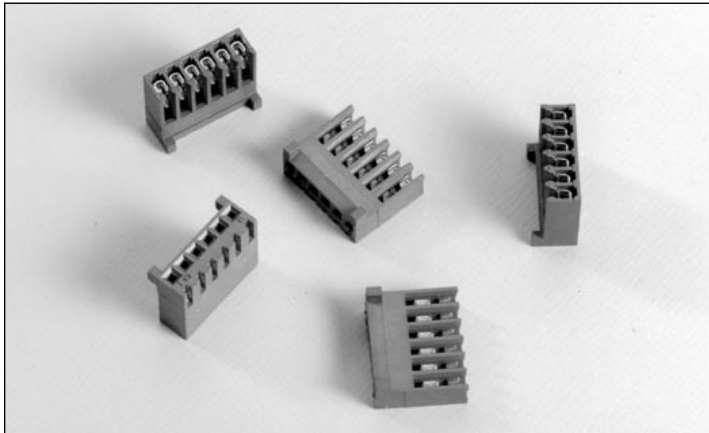


# .100" (2.54 mm) IDC Connector



## 1300 SERIES "JAGUAR"

PART NUMBER LEGEND

**130X-XXX-4XX**

WIRE GAUGE (SEE TABLE 2)

NUMBER OF POSITIONS  
(SEE TABLE 1)

FOR STANDARD INSULATOR

0 = WITHOUT LOCKING RAMP & WITHOUT POLARIZING KEY

1 = WITH LOCKING RAMP & WITH POLARIZING KEY

2 = WITH LOCKING RAMP & WITHOUT POLARIZING KEY

FOR EXTRA STRENGTH ENDWALL VERSION

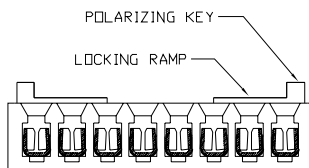
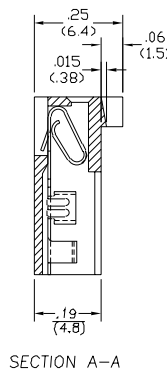
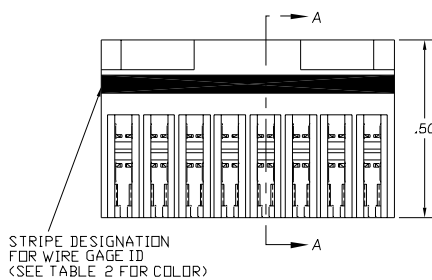
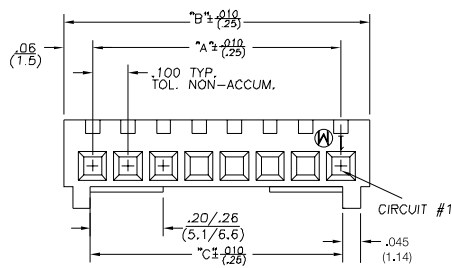
3 = WITHOUT LOCKING RAMP & WITHOUT POLARIZING KEY

4 = WITH LOCKING RAMP & WITH POLARIZING KEY

5 = WITH LOCKING RAMP & WITHOUT POLARIZING KEY

PLATING (SEE NOTE 4)

Mates with 1100 Series Headers



### NOTES:

- ALL DIMENSIONS ARE IN/(MM)
- WIRE GAUGE IN TABLE 2 IS FOR 7 STRAND, IF CONDUCTOR CONSTRUCTION IS NOT 7 STRAND, CONTACT FACTORY FOR PART NO.
- INSULATOR MATERIAL: NYLON 6/6, GLASS REINFORCED, UL 94V-0, COLOR: WHITE  
CONTACT MATERIAL: PHOSPHOR BRONZE 521 ALLOY
- CONTACT FINISH:  
1300 - BRISTE TIN/LEAD PLATE OVER NICKEL  
1302 - .000015 GOLD PLATE OVER NICKEL PLATE  
1308 - .000015 MIN. SELECTIVE GOLD PLATE IN CONTACT AREA OVER NICKEL PLATE ALL OVER; SELECTIVE TIN PLATE IN I.D.C. AREA  
130E - .000030 MIN. SELECTIVE GOLD PLATE IN CONTACT AREA OVER NICKEL PLATE ALL OVER; SELECTIVE TIN PLATE IN I.D.C. AREA
- MAXIMUM INS. O.D. - .060 (1.52)

TABLE 1

PART No.	No. OF POSITIONS	DIM "A"		DIM "B"		EXTRA STRENGTH END WALLS			
		INCH	MM	INCH	MM	DIM "B" INCH	DIM "C" INCH		
130X-X02-4XX	2	.100	2.54	.225	5.72	.260	6.60	.112	2.84
-X03-	3	.200	7.62	.325	8.26	.360	9.14	.212	5.38
-X04-	4	.300	11.68	.425	10.80	.460	11.68	.312	7.92
-X05-	5	.400	10.16	.525	13.34	.560	14.22	.412	10.46
-X06-	6	.500	12.70	.625	15.88	.660	16.76	.512	13.00
-X07-	7	.600	15.24	.725	18.42	.760	19.30	.612	15.54
-X08-	8	.700	17.78	.825	20.96	.860	21.84	.712	18.08
-X09-	9	.800	20.32	.925	23.50	.960	24.38	.812	20.62
-X10-	10	.900	22.86	1.025	26.04	1.060	26.92	.912	23.16
-X11-	11	1.000	25.40	1.125	28.58	1.160	29.46	1.012	25.70
-X12-	12	1.100	27.94	1.225	31.12	1.260	32.00	1.112	28.24
-X13-	13	1.200	30.48	1.325	33.66	1.360	34.54	1.212	30.78
-X14-	14	1.300	33.02	1.425	36.20	1.460	37.08	1.312	33.32
-X15-	15	1.400	35.56	1.525	38.74	1.560	39.62	1.412	35.86
-X16-	16	1.500	38.10	1.625	41.28	1.660	42.16	1.512	38.40
-X17-	17	1.600	40.64	1.725	43.82	1.760	44.70	1.612	40.94
-X18-	18	1.700	43.18	1.825	46.36	1.860	47.24	1.712	43.48
-X19-	19	1.800	45.72	1.925	48.90	1.960	49.78	1.812	46.02
-X20-	20	1.900	48.26	2.025	51.44	2.060	52.32	1.912	48.56
-X21-	21	2.000	50.80	2.125	53.98	2.160	54.86	2.012	51.10
-X22-	22	2.100	53.34	2.225	56.52	2.260	57.40	2.112	53.64
-X23-	23	2.200	55.88	2.325	59.06	2.360	59.94	2.212	56.18
-X24-	24	2.300	58.42	2.425	61.60	2.490	62.48	2.312	58.72
-X25-	25	2.400	60.96	2.525	64.14	2.560	65.02	2.412	61.26
-X26-	26	2.500	63.50	2.625	66.68	2.660	67.56	2.512	63.80
-X27-	27	2.600	66.04	2.725	69.22	2.760	70.10	2.612	66.34
130X-X28-4XX	28	2.700	68.58	2.825	71.76	2.860	72.64	2.712	68.88

TABLE 2

PART NO.	WIRE AWG	COLOR
130X-XXX-422	22	RED
130X-XXX-424	24	BLACK
130X-XXX-426	26	BLUE
130X-XXX-428	28	GREEN
130X-XXX-430	30	WHITE



North and South America:

Methode Electronics, Inc. Connector Products

1700 Hicks Road • Rolling Meadows, IL 60008 USA

847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404

Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:

Methode Electronics Ireland, Ltd.

Unit H, Crossagalla Business Park, Ballysillon Rd. • Limerick, Ireland

+353 (0) 61 401222 • Fax: +353 (0) 61 401942

Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:

Methode Electronics Far East, Pte. Ltd.

1 Tuas Lane, Jurong Town • Singapore 638610

65-68615444 • Fax: 65-68614777

Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html



# Specifications

## "JAGUAR" IDC Connectors 1300 & 1500 Series (.100" Centers)

### Mechanical

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**Insulator Material:** Glass reinforced nylon, type 6/6. UL rating 94V-0, color coded unless otherwise specified.

**Terminal Material:** Copper alloy – post tin plated.  
Additional platings available

**Insertion Force:** Initial force to mate connectors  
.100" centers – .5 lbs / circuit max.

**Withdrawal Force:** Initial force, 2 oz. per circuit minimum

**Terminal Retention:** Minimum retention in housing  
.100" centers – 6 lbs

**Terminal Strength:** Axial tensile strength may vary with type of wire

Wire Gauge (AWG) 22 24 26 28 30

Average Pull (lbs.) 10 8 5 4 2

Perpendicular pull out force, opposite direction of termination, will exceed 25% of axial strength

### Electrical

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**High Voltage Dielectric:** 1500 V RMS for 60 seconds  
between adjacent terminals

**Rated Voltage:** 250 VAC

**Rated Current:**  
.100" centers – 3.5 A

**Temperature Rise:** 30°C at rated current

**Terminal Resistance:** measured across a mated terminal pair  
.100" centers – 8 mV at 1 amp

**Ambient Temperature:** -40°C to +105°C

### Notes

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#### Agency Approvals:

UL Component Recognition File E-48567

Canadian Standards File 52212

#### Wire Gauge Guide:

All *Jaguar* contacts use 7 strand PVC coated wire as a design basis. Please use the following chart for recommendations when other wire gauges are specified.

IDC Contact Number	Recommended Wire Gauges (PVC Insulation)
22	22 AWG/7 strand: 22 AWG/ 19 strand: 24 AWG/solid
24	24 AWG/7 strand: 24 AWG/ 19 strand: 26 AWG/solid
26	26 AWG/7 strand: 26 AWG/ 19 strand: 30 AWG/solid
28	28 AWG/7 strand: 28 AWG/ 19 strand
30	30 AWG/7 strand



North and South America:

**Methode Electronics, Inc. Connector Products**

1700 Hicks Road • Rolling Meadows, IL 60008 USA

847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404

Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:

**Methode Electronics Ireland, Ltd.**

Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland

+353 (0) 61 401222 • Fax: +353 (0) 61 401942

Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:

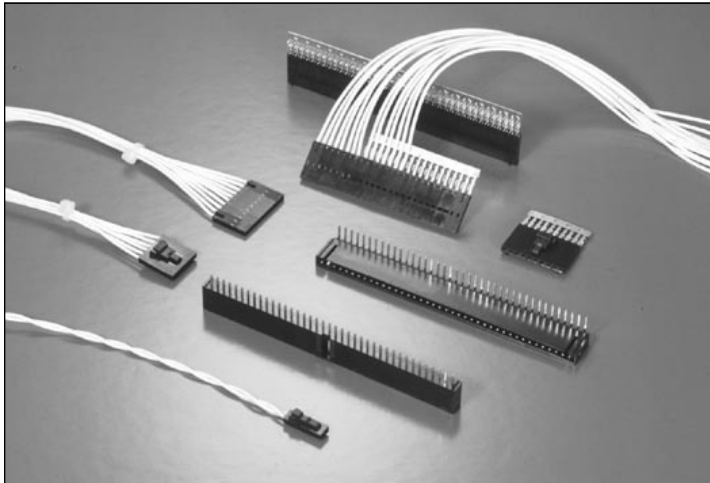
**Methode Electronics Far East, Pte. Ltd.**

1 Tuas Lane, Jurong Town • Singapore 638610

65-68615444 • Fax: 65-68614777

Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

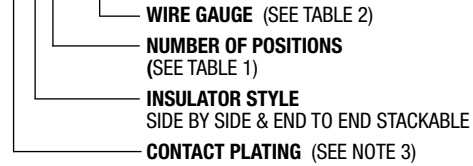
# .100" (2.54 mm) SIL IDC Connectors Side by Side and End to End Stackable



## 9300 SERIES, "Post/Boxe"

PART NUMBER LEGEND

930X-OXX-2XX



Mates with 9100 Series Headers

### NOTES:

- 1) HOUSING MATERIAL: POLYESTER, GLASS FILLED, COLOR IS BLACK, U.L. 94 V-0.
- 2) CONTACT MATERIAL: PHOSPHOR BRONZE.
- 3) CONTACT FINISH:  
9300 — TIN/LEAD OVER NICKEL PLATE;  
9308 — SEL. GOLD PLATE (.000030 THICK) AND SEL. TIN/LEAD, WITH NICKEL UNDERPLATE OVERALL;  
930E — SEL. GOLD PLATE (.000015 THICK) AND SEL. TIN/LEAD WITH NICKEL UNDERPLATE OVERALL
- 4) THIS HOUSING ACCEPTS 9400-5XX I.D.C. CONTACTS THAT TERMINATE 22 THRU 30 AWG WIRES WITH A MAXIMUM INSULATION O.D. OF .050/(1.27). ALL CONTACTS USE 7 STRAND PVC COATED WIRE AS A DESIGN BASIS. PLEASE SEE TABLE 3 FOR RECOMMENDATIONS WHEN OTHER WIRE GAUGES ARE SPECIFIED.
- 5) ALL DIMENSIONS ARE SHOWN AS INCHES/(MM).

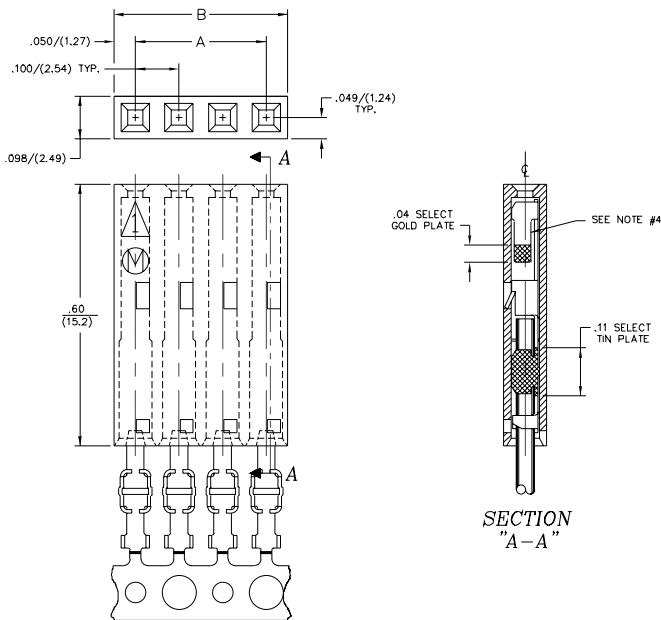


TABLE 3

Part No. Suffix	Recommended Wire Gauges
-222	22 AWG/7 strand; 22 AWG/19 strand; 24 AWG/solid
-224	24 AWG/7 strand; 24 AWG/19 strand; 26 AWG/solid
-226	26 AWG/7 strand; 26 AWG/19 strand; 30 AWG/solid
-228	28 AWG/7 strand; 28 AWG/19 strand;
-230	30 AWG/solid

PART NUMBER	No. OF CKTS.	DIM "A"	DIM "B"
930X-X02-2XX	2	.200/(5.08)	.30/(7.6)
X03	3	.200/(5.08)	.30/(7.6)
X04	4	.300/(7.62)	.40/(10.2)
X05	5	.400/(10.16)	.50/(12.7)
X06	6	.500/(12.70)	.60/(15.2)
X07	7	.600/(15.24)	.70/(17.8)
X08	8	.700/(17.78)	.80/(20.3)
X09	9	.800/(20.32)	.90/(22.9)
X10	10	.900/(22.86)	1.00/(25.4)
X11	11	1.000/(25.40)	1.10/(27.9)
X12	12	1.100/(27.94)	1.20/(30.5)
X13	13	1.200/(30.48)	1.30/(33.0)
X14	14	1.300/(33.02)	1.40/(35.6)
X15	15	1.400/(35.56)	1.50/(38.1)
X16	16	1.500/(38.10)	1.60/(40.6)
X17	17	1.600/(40.64)	1.70/(43.2)
X18	18	1.700/(43.18)	1.80/(45.7)
X19	19	1.800/(45.72)	1.90/(48.3)
X20	20	1.900/(48.26)	2.00/(50.8)
X21	21	2.000/(50.80)	2.10/(53.3)
X22	22	2.100/(53.34)	2.20/(55.9)
X23	23	2.200/(55.88)	2.30/(58.4)
X24	24	2.300/(58.42)	2.40/(61.0)
X25	25	2.400/(60.96)	2.50/(63.5)
X26	26	2.500/(63.50)	2.60/(66.0)
X27	27	2.600/(66.04)	2.70/(68.6)
X28	28	2.700/(68.58)	2.80/(71.1)
X29	29	2.800/(71.12)	2.90/(73.7)
X30	30	2.900/(73.66)	3.00/(76.2)
X31	31	3.000/(76.20)	3.10/(78.7)
X32	32	3.100/(78.74)	3.20/(81.3)

PART NUMBER	WIRE AWG
930X-OXX-222	22
930X-OXX-224	24
930X-OXX-226	26
930X-OXX-228	28
930X-OXX-230	30

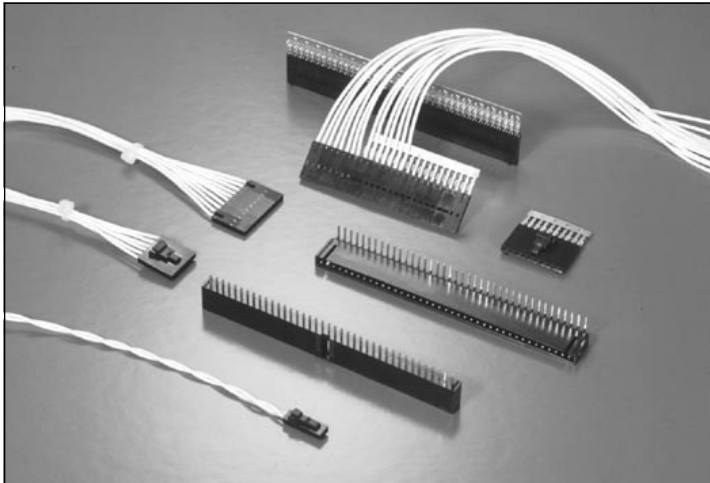


North and South America:  
**Methode Electronics, Inc. Connector Products**  
 1700 Hicks Road • Rolling Meadows, IL 60008 USA  
 847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404  
 Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:  
**Methode Electronics Ireland, Ltd.**  
 Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland  
 +353 (0) 61 401222 • Fax: +353 (0) 61 401942  
 Email: info@methode.ie • Web: ireland.methode.com/main.html

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 1 Tuas Lane, Jurong Town • Singapore 638610  
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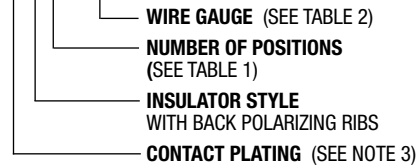
# .100" (2.54 mm) SIL IDC Connectors Back Polarizing Ribs



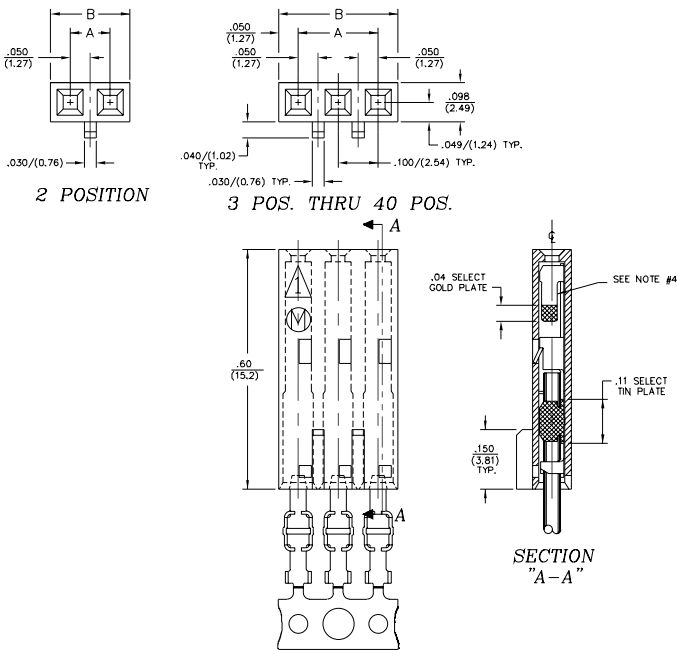
## 9300 SERIES, "Post/Boxe"

PART NUMBER LEGEND

930X-1XX-2XX



Mates with 9100 Series Headers



### NOTES:

- 1) HOUSING MATERIAL: POLYESTER, GLASS FILLED, COLOR IS BLACK, U.L. 94 V-0.
- 2) CONTACT MATERIAL: PHOSPHOR BRONZE.
- 3) CONTACT FINISH:  
9300 - TIN/LEAD OVER NICKEL PLATE;  
9302 - SEL. GOLD PLATE (.000030 THICK) AND SEL. TIN/LEAD, WITH NICKEL UNDERPLATE OVERALL;  
930E - SEL. GOLD PLATE (.000015 THICK) AND SEL. TIN/LEAD WITH NICKEL UNDERPLATE OVERALL
- 4) THIS HOUSING ACCEPTS 9400-5XX I.D.C. CONTACTS THAT TERMINATE 22 THRU 30 AWG WIRES WITH A MAXIMUM INSULATION O.D. OF .050/(1.27). ALL CONTACTS USE 7 STRAND PVC COATED WIRE AS A DESIGN BASIS. PLEASE SEE TABLE 3 FOR RECOMMENDATIONS WHEN OTHER WIRE GAUGES ARE SPECIFIED.
- 5) ALL DIMENSIONS ARE SHOWN AS INCHES/(MM).

TABLE 3

Part No. Suffix	Recommended Wire Gauges
-222	22 AWG/7 strand; 22 AWG/19 strand; 24 AWG/solid
-224	24 AWG/7 strand; 24 AWG/19 strand; 26 AWG/solid
-226	26 AWG/7 strand; 26 AWG/19 strand; 30 AWG/solid
-228	28 AWG/7 strand; 28 AWG/19 strand;
-230	30 AWG/solid

PART NUMBER	No. OF CKTS.	DIM "A"	DIM "B"
930X-X02-2XX	2	TABLE 3 / (2.54)	.20/(5.1)
X03	3	.200/(5.08)	.30/(7.6)
X04	4	.300/(7.62)	.40/(10.2)
X05	5	.400/(10.16)	.50/(12.7)
X06	6	.500/(12.70)	.60/(15.2)
X07	7	.600/(15.24)	.70/(17.8)
X08	8	.700/(17.78)	.80/(20.3)
X09	9	.800/(20.32)	.90/(22.9)
X10	10	.900/(22.86)	1.00/(25.4)
X11	11	1.000/(25.40)	1.10/(27.9)
X12	12	1.100/(27.94)	1.20/(30.5)
X13	13	1.200/(30.48)	1.30/(33.0)
X14	14	1.300/(33.02)	1.40/(35.6)
X15	15	1.400/(35.56)	1.50/(38.1)
X16	16	1.500/(38.10)	1.60/(40.6)
X17	17	1.600/(40.64)	1.70/(43.2)
X18	18	1.700/(43.18)	1.80/(45.7)
X19	19	1.800/(45.72)	1.90/(48.3)
X20	20	1.900/(48.26)	2.00/(50.8)
X21	21	2.000/(50.80)	2.10/(53.3)
X22	22	2.100/(53.34)	2.20/(55.9)
X23	23	2.200/(55.88)	2.30/(58.4)
X24	24	2.300/(58.42)	2.40/(61.0)
X25	25	2.400/(60.96)	2.50/(63.5)
X26	26	2.500/(63.50)	2.60/(66.0)
X27	27	2.600/(66.04)	2.70/(68.6)
X28	28	2.700/(68.58)	2.80/(71.1)
X29	29	2.800/(71.12)	2.90/(73.7)
X30	30	2.900/(73.66)	3.00/(76.2)
X31	31	3.000/(76.20)	3.10/(78.7)
X32	32	3.100/(78.74)	3.20/(81.3)

PART NUMBER	WIRE AWG
930X-OXX-22	22
930X-OXX-224	24
930X-OXX-226	26
930X-OXX-228	28
930X-OXX-230	30

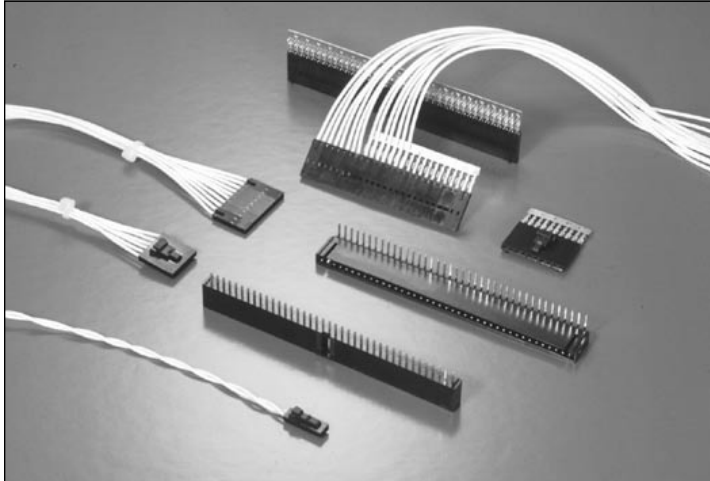


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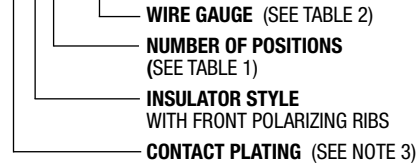
# .100" (2.54 mm) SIL IDC Connectors Front Polarizing Ribs



## 9300 SERIES, "Post/Boxe"

PART NUMBER LEGEND

**930X-2XX-2XX**



Mates with 9100 Series Headers

### NOTES:

- 1) HOUSING MATERIAL: POLYESTER, GLASS FILLED, COLOR IS BLACK, U.L. 94 V-0.
- 2) CONTACT MATERIAL: PHOSPHOR BRONZE.
- 3) CONTACT FINISH:  
9300 — TIN/LEAD OVER NICKEL PLATE;  
930B — SEL. GOLD PLATE (.000030 THICK) AND SEL. TIN/LEAD, WITH NICKEL UNDERPLATE OVERALL;  
930F — SEL. GOLD PLATE (.000015 THICK) AND SEL. TIN/LEAD WITH NICKEL UNDERPLATE OVERALL.
- 4) THIS HOUSING ACCEPTS 9400-5XX I.D.C. CONTACTS THAT TERMINATE 22 THRU 30 AWG WIRES WITH A MAXIMUM INSULATION O.D. OF .050/(1.27). ALL CONTACTS USE 7 STRAND PVC COATED WIRE AS A DESIGN BASIS. PLEASE SEE TABLE 3 FOR RECOMMENDATIONS WHEN OTHER WIRE GAUGES ARE SPECIFIED.
- 5) ALL DIMENSIONS ARE SHOWN AS INCHES/(MM).

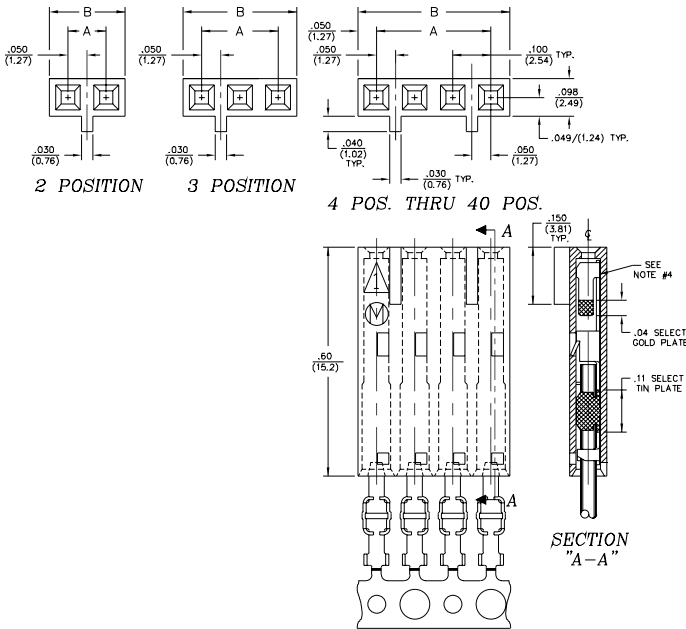


TABLE 3

Part No. Suffix	Recommended Wire Gauges
-222	22 AWG/7 strand; 22 AWG/19 strand; 24 AWG/solid
-224	24 AWG/7 strand; 24 AWG/19 strand; 26 AWG/solid
-226	26 AWG/7 strand; 26 AWG/19 strand; 30 AWG/solid
-228	28 AWG/7 strand; 28 AWG/19 strand;
-230	30 AWG/solid

PART NUMBER	No. OF CKTS.	DIM "A"	DIM "B"
930X-X02-2XX	2	.100/(2.54)	.20/(5.1)
X03	3	.200/(5.08)	.30/(7.6)
X04	4	.300/(7.62)	.40/(10.2)
X05	5	.400/(10.16)	.50/(12.7)
X06	6	.500/(12.70)	.60/(15.2)
X07	7	.600/(15.24)	.70/(17.8)
X08	8	.700/(17.78)	.80/(20.3)
X09	9	.800/(20.32)	.90/(22.9)
X10	10	.900/(22.86)	1.00/(25.4)
X11	11	1.000/(25.40)	1.10/(27.9)
X12	12	1.100/(27.94)	1.20/(30.5)
X13	13	1.200/(30.48)	1.30/(33.0)
X14	14	1.300/(33.02)	1.40/(35.6)
X15	15	1.400/(35.56)	1.50/(38.1)
X16	16	1.500/(38.10)	1.60/(40.6)
X17	17	1.600/(40.64)	1.70/(43.2)
X18	18	1.700/(43.18)	1.80/(45.7)
X19	19	1.800/(45.72)	1.90/(48.3)
X20	20	1.900/(48.26)	2.00/(50.8)
X21	21	2.000/(50.80)	2.10/(53.3)
X22	22	2.100/(53.34)	2.20/(55.9)
X23	23	2.200/(55.88)	2.30/(58.4)
X24	24	2.300/(58.42)	2.40/(61.0)
X25	25	2.400/(60.96)	2.50/(63.5)
X26	26	2.500/(63.50)	2.60/(66.0)
X27	27	2.600/(66.04)	2.70/(68.6)
X28	28	2.700/(68.58)	2.80/(71.1)
X29	29	2.800/(71.12)	2.90/(73.7)
X30	30	2.900/(73.66)	3.00/(76.2)
X31	31	3.000/(76.20)	3.10/(78.7)
X32	32	3.100/(78.74)	3.20/(81.3)

PART NUMBER	2 WIRE AWG
930X-OXX-222	22
930X-OXX-224	24
930X-OXX-226	26
930X-OXX-228	28
930X-OXX-230	30

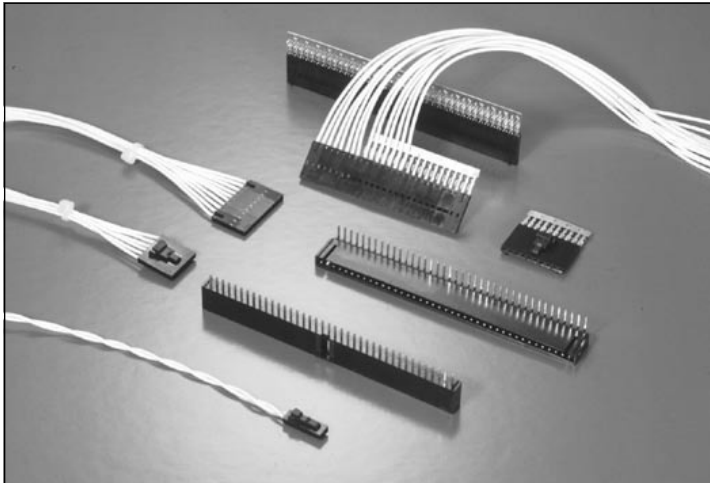


North and South America:  
**Methode Electronics, Inc. Connector Products**  
 1700 Hicks Road • Rolling Meadows, IL 60008 USA  
 847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404  
 Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:  
**Methode Electronics Ireland, Ltd.**  
 Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland  
 +353 (0) 61 401222 • Fax: +353 (0) 61 401942  
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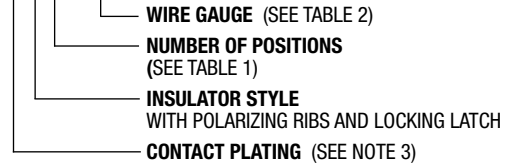
# .100" (2.54 mm) SIL IDC Connectors Polarizing Ribs and Locking Latch



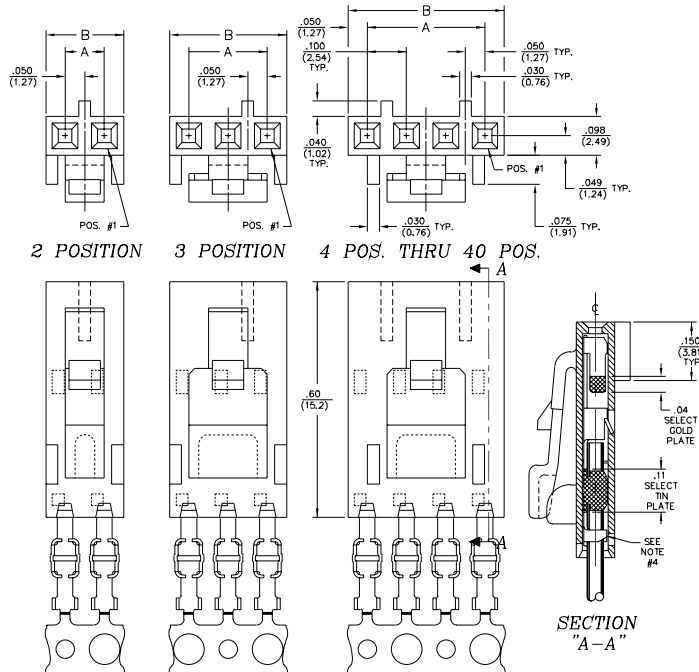
## 9300 SERIES, "Post/Boxe"

PART NUMBER LEGEND

930X-3XX-2XX



Mates with 9100 Series Headers



### NOTES:

- 1) HOUSING MATERIAL: POLYESTER, GLASS FILLED, COLOR IS BLACK, U.L. 94 V-0.
- 2) CONTACT MATERIAL: PHOSPHOR BRONZE.
- 3) CONTACT FINISH:  
9300 - TIN/LEAD OVER NICKEL PLATE;  
930B - SEL. GOLD PLATE (.000030 THICK) AND SEL. TIN/LEAD, WITH NICKEL UNDERPLATE OVERALL;  
930E - SEL. GOLD PLATE (.000015 THICK) AND SEL. TIN/LEAD WITH NICKEL UNDERPLATE OVERALL
- 4) THIS HOUSING ACCEPTS 9400-5XX I.D.C. CONTACTS THAT TERMINATE 22 THRU 30 AWG WIRES WITH A MAXIMUM INSULATION O.D. OF .050/(1.27). ALL CONTACTS USE 7 STRAND PVC COATED WIRE AS A DESIGN BASIS. PLEASE SEE TABLE 3 FOR RECOMMENDATIONS WHEN OTHER WIRE GAUGES ARE SPECIFIED.
- 5) ALL DIMENSIONS ARE SHOWN AS INCHES/(MM).

PART NUMBER	No. OF CKTS.	DIM "A"	DIM "B"
930X-X02-2XX	2	.100/(2.54)	.20/(5.1)
X03	3	.200/(5.08)	.30/(7.6)
X04	4	.300/(7.62)	.40/(10.2)
X05	5	.400/(10.16)	.50/(12.7)
X06	6	.500/(12.70)	.60/(15.2)
X07	7	.600/(15.24)	.70/(17.8)
X08	8	.700/(17.78)	.80/(20.3)
X09	9	.800/(20.32)	.90/(22.9)
X10	10	.900/(22.86)	1.00/(25.4)
X11	11	1.000/(25.40)	1.10/(27.9)
X12	12	1.100/(27.94)	1.20/(30.5)
X13	13	1.200/(30.48)	1.30/(33.0)
X14	14	1.300/(33.02)	1.40/(35.6)
X15	15	1.400/(35.56)	1.50/(38.1)
X16	16	1.500/(38.10)	1.60/(40.6)
X17	17	1.600/(40.64)	1.70/(43.2)
X18	18	1.700/(43.18)	1.80/(45.7)
X19	19	1.800/(45.72)	1.90/(48.3)
X20	20	1.900/(48.26)	2.00/(50.8)
X21	21	2.000/(50.80)	2.10/(53.3)
X22	22	2.100/(53.34)	2.20/(55.9)
X23	23	2.200/(55.88)	2.30/(58.4)
X24	24	2.300/(58.42)	2.40/(61.0)
X25	25	2.400/(60.96)	2.50/(63.5)
X26	26	2.500/(63.50)	2.60/(66.0)
X27	27	2.600/(66.04)	2.70/(68.6)
X28	28	2.700/(68.58)	2.80/(71.1)
X29	29	2.800/(71.12)	2.90/(73.7)
X30	30	2.900/(73.66)	3.00/(76.2)
X31	31	3.000/(76.20)	3.10/(78.7)
X32	32	3.100/(78.74)	3.20/(81.3)

TABLE 3

Part No. Suffix	Recommended Wire Gauges
-222	22 AWG/7 strand; 22 AWG/19 strand; 24 AWG/solid
-224	24 AWG/7 strand; 24 AWG/19 strand; 26 AWG/solid
-226	26 AWG/7 strand; 26 AWG/19 strand; 30 AWG/solid
-228	28 AWG/7 strand; 28 AWG/19 strand;
-230	30 AWG/solid

PART NUMBER	WIRE AWG
930X-OXX-222	22
930X-OXX-224	24
930X-OXX-226	26
930X-OXX-228	28
930X-OXX-230	30



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Far East:  
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 1 Tuas Lane, Jurong Town • Singapore 638610  
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# Specifications

## "POST/BOXE" 9000, 9200, 9300, 9400 SERIES WIRE TO BOARD AND BOARD TO BOARD CONNECTORS (.100" CENTERS)

TEST	PROCEDURE	RESULTS
INSULATION RESISTANCE	MIL STD 1344 METHOD 3003	5000 MEGAOHMS
CONTACT RESISTANCE @ 10 MILLIAMPS DC	MIL STD 1344 METHOD 3004	RC = 10 MILLIOHMS MAX.
TEMPERATURE/HUMIDITY	MIL STD 1344 METHOD 002, TYPE II TEST CONDITION "A"	RC = 25 MILLIOHMS MAX
CORROSIVE ATMOSPHERE	AMMONIUM SULFIDE PER EIA-364-61	RC = 25 MILLIOHMS MAX
THERMAL SHOCK	MIL STD 1344 METHOD 1003 TEST CONDITION "A"	RC = 25 MILLIOHMS MAX
CONNECTOR DURABILITY	MATING/ UNMATING CYCLES MIL STD 1344 METHOD 2016	RC = 25 MILLIOHMS MAX
MAX. WIRE INSULATION O.D.	9400-62X (CRIMP) 9400-61X (CRIMP) 930X (IDC)	.047 DIA. .062 DIA. .050 DIA.

### Mechanical

**Insulator Material:** Glass filled polyester, UL rating 94V-0

**Terminal Material:** Copper alloy, post tin plated.

Additional platings available.

**Insertion Force:** Initial force to mate connectors. 10 oz. (287 grams) per circuit maximum.

### Withdrawal Force

Initial force. 2 oz. (57 grams) per circuit minimum.

### Terminal Retention

**Wire to Board (IDC & Crimp) Connectors:**

Minimum retention in housing 5 lbs.

### Termination Strength

**Wire to Board (IDC & Crimp) Connectors:**

Axial tensile strength may vary with type of wire:

Wire Gauge (AWG)	22	24	26	28	30
Average Pull (lbs.)	10	8	6	4	2

### Pin Push Force (9100 Series Headers):

2 lbs (0.98 Kgrams min.)

### Electrical

**High Voltage Dielectric:** 1500 V RMS for 60 seconds between adjacent terminals

**Rated Voltage:** 250 VAC

**Rated Current:** 3 A

**Temperature Rise:** 30°C at rated current

### Operating Temperature:

Wire to Board Connectors: -55°C to +105°C

Board to Board Connectors: -55°C to +125°C

### Wire Gauge Guide (Wire to Board IDC Connectors) :

All contacts use 7 strand PVC coated wire as a design basis. Please use the following chart for recommendations when other wire gauges are specified.

### IDC

Contact Number	Recommended Wire Gauges (PVC Insulation)
22	22 AWG 7 strand: 22 AWG 19 strand: 24 AWG solid
24	24 AWG 7 strand: 24 AWG 19 strand: 26 AWG solid
26	26 AWG 7 strand: 26 AWG 19 strand: 30 AWG solid
28	28 AWG 7 strand: 28 AWG 19 strand
30	30 AWG 7 strand

### Agency Approvals:

UL Components Recognition File E-48567

Canadian Standards Association File 52212



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Europe:

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1 Tuas Lane, Jurong Town • Singapore 638610

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# .156" (3.96 mm) IDC Connector



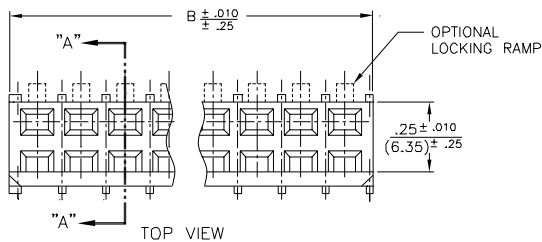
## 3360 SERIES "JAGUAR"

### PART NUMBER LEGEND

#### 3360-XXX-4XX

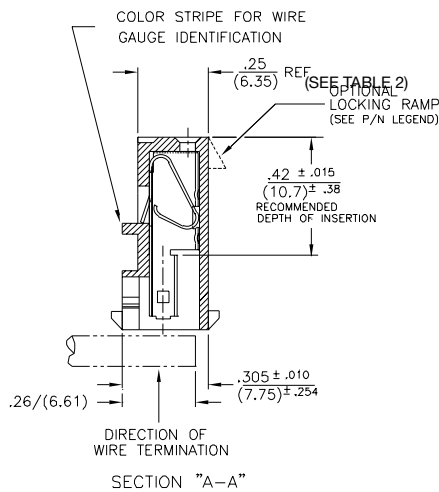
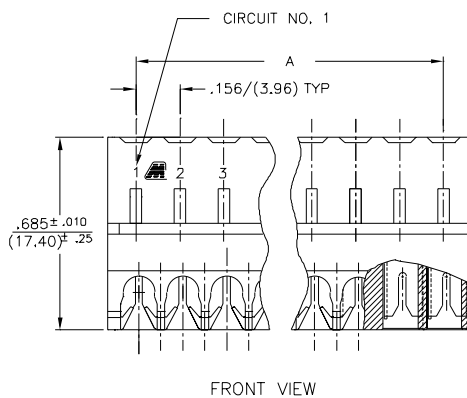
- WIRE GAUGE  
(SEE TABLE 2)
- NUMBER OF POSITIONS  
(SEE TABLE 1)
- HOUSING STYLE  
0 = W/O LOCKING RAMP  
1 = W/ LOCKING RAMP

Mates with 3100 Series Headers

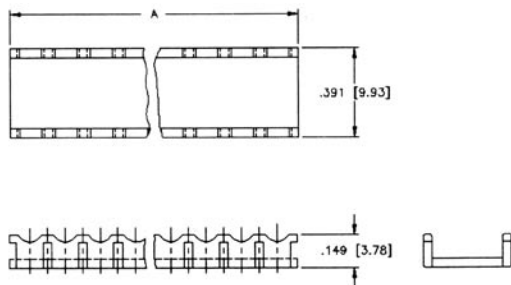


### NOTES:

1. CONTACT MATERIAL: PHOSPHOR BRONZE
2. CONTACT PLATING: TIN/LEAD OVER NICKEL
3. INSULATOR MATERIAL: NYLON
4. MAX. WIRE INSULATION O.D. .110/(2.79)
5. ALL DIMENSIONS ARE IN INCH./MM



### OPTIONAL PROTECTIVE COVER



PART NUMBER	DIM. A
3300-002-500	.336 (8.53)
3300-003-500	.492 (12.50)
3300-004-500	.648 (18.46)
3300-005-500	.804 (20.42)
3300-006-500	.960 (24.38)
3300-007-500	1.116 (28.36)
3300-008-500	1.272 (32.31)
3300-009-500	1.428 (36.27)
3300-010-500	1.584 (40.23)
3300-011-500	1.740 (44.20)
3300-012-500	1.896 (48.16)
3300-013-500	2.052 (52.12)
3300-014-500	2.208 (56.08)
3300-015-500	2.364 (60.05)

WIRE GAUGE	STRIPE COLOR
28	GREEN
26	BLUE
24	BLACK
22	RED
20	BROWN
18	ORANGE

PART NO.	NO. OF POSITIONS	DIM A	DIM B
3360-X15-4XX	15	2.184/(55.47)	2.384/(60.55)
X14-4XX	14	2.028/(51.51)	2.228/(56.59)
X13-4XX	13	1.872/(47.55)	2.072/(52.63)
X12-4XX	12	1.716/(43.59)	1.916/(48.67)
X11-4XX	11	1.560/(39.62)	1.760/(44.70)
X10-4XX	10	1.404/(35.66)	1.604/(40.74)
X09-4XX	9	1.248/(31.70)	1.448/(36.78)
X08-4XX	8	1.092/(27.74)	1.292/(32.82)
X07-4XX	7	.936/(23.77)	1.136/(28.85)
X06-4XX	6	.780/(19.81)	.980/(24.89)
X05-4XX	5	.624/(15.85)	.824/(20.93)
X04-4XX	4	.468/(11.89)	.668/(16.97)
X03-4XX	3	.312/(7.92)	.512/(13.00)
3360-X02-4XX	2	.156/(3.96)	.356/(9.04)



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Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:

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Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland

+353 (0) 61 401222 • Fax: +353 (0) 61 401942

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Far East:

Methode Electronics Far East, Pte. Ltd.

1 Tuas Lane, Jurong Town • Singapore 638610

65-68615444 • Fax: 65-68614777

Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html



# Specifications



## "Jaguar" IDC Connectors 3360 Series (.156" Centers)

TEST	PROCEDURE	RESULTS
<b>MECHANICAL</b>		
MATING FORCE / CIRCUIT	MIL STD 1344 METHOD 2013.1	3.0 LBS. / CONTACT MAX.
UNMATING FORCE / CIRCUIT	MIL STD 1344 METHOD 2013.1	.7 LBS. / CONTACT
DURABILITY	MIL STD 1344 METHOD 2002.1	25 CYCLES OF MATING & UNMATING WITH 2 MILLIOHMS MAX. CHANGE
TENSILE, STRAIGHT – SLOT (HORIZONTAL)	APPLY FORCE PARALLEL TO AXIS OF WIRE AT RATE OF 1" / MINUTE	26 AWG: 5 PSI MIN 24 AWG: 8 PSI MIN 22 AWG: 12 PSI MIN 20 AWG: 17 PSI MIN 18 AWG: 30 PSI MIN AT SPEED = 1" / MIN
TENSILE, PERPENDICULAR – SLOT (VERTICAL)	APPLY FORCE PERPENDICULAR TO AXIS OF WIRE AT RATE OF 1" / MINUTE	26 AWG: 1.3 PSI MIN 24 AWG: 1.3 PSI MIN 22 AWG: 3.4 PSI MIN 20 AWG: 4.0 PSI MIN 18 AWG: 4.6 PSI MIN AT SPEED = 1" / MIN
CONTACT RETENTION	MIL STD 1344 METHOD 2007.1	8 lbs. MIN. PULL-OUT FORCE
VIBRATION	MIL STD 1344 METHOD 1005.1	AMPLITUDE OF .06 IN. & 10 - 55 Hz SWEEP TIME IN 1 MINUTE, FOR 2 HOURS AT 3 AXIS WITH MAX 1 MICROSECOND OF DISCONTINUITY AND MAX CHANGE 2 MILLIOHMS CONTACT RESISTANCE (MATED)
<b>ELECTRICAL</b>		
DIELECTRIC WITHSTANDING VOLTAGE	MIL STD 1344 METHOD 3001.1	2000 VOLTS AC MIN. FOR 1 MINUTE MIN. AT ADJACENT CONTACTS (UNMATED)
CURRENT RATING		12.5 AMPS / CONTACT FOR 18 AWG WIRE INTO A MAX 6 CIRCUIT HOUSING W / MAX 30° C TEMPERATURE RISE ABOVE AMBIENT AT RATED CURRENT
INSULATION RESISTANCE	MIL-STD-1344 METHOD 3003.1	5000 MEGOHMS MIN. AT 250 V. AC AT ADJACENT TERMINALS (UNMATED)
CONTACT RESISTANCE (MATED)	MIL-STD-1344 METHOD 3004.1 & EIA 364-23A & MIL-STD-202E	3 MILLIOHMS MAX. INITIAL WITH 50 mV OPEN CIRCUIT AT 100 mA MAX CURRENT (MATED)
CURRENT CYCLING		15 MINUTES ON, 15 MINUTES OFF AT 125% RATED CURRENT FOR 500 CYCLES WITH MAX CHANGE 2 MILLIOHMS CONTACT RESISTANCE.
<b>ENVIRONMENTAL</b>		
TEMPERATURE - HUMIDITY	MIL STD 1344 METHOD 1002.1	10 CYCLES AT 25-65°, AT 95% R.H., WITH MAX 3.5 MILLIOHMS CONTACT RESISTANCE, INSULATION RESIST., & D.W.V. W/LOW FREQ. VIBRATION & COLD SHOCK AT -10°C
THERMAL SHOCK	MIL STD 1344 METHOD 1003.1	25 CYCLES AT -55° C AND +105° C EACH 30 MIN. WITH MAX. CHANGE 2 MILLIOHMS CONTACT RESISTANCE
TEMPERATURE LIFE (HIGH TEMP.)	MIL STD 1344 METHOD 1005.1	96 HOURS AT 85° WITH MAX. CHANGE OF 2 MILLIOHMS CONTACT RESISTANCE



North and South America:

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Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:

**Methode Electronics Ireland, Ltd.**

Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland

+353 (0) 61 401222 • Fax: +353 (0) 61 401942

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# IDC (1300, 1500, 9300 & 3300 Series) Application Tooling



The JT-103 hand tool provides automatic indexing and is best suited for prototypes or low volume production requirements. A connector is inserted to the first contact position, a wire is placed in the termination slot, handle is then cycled to complete termination, with the connector automatically advancing to the next contact position.

**.100" Card Edge, 1500 Series**  
**JT-103-100-CE**

**.100" Center, 1300 Series**  
**JT-103-100-ST**

**.100" Center, 9300 Series**  
**JT-103-100-PB**

**.156" Center, 3300 Series**  
**JT-103-156-HC**



This simple inexpensive tool is ideal for prototypes, repairs or field maintenance. It will terminate discrete wires one at a time with simple hand pressure.

**.100" Center, 1300 Series**  
**JT-11-100-ST**

**.100" Card Edge, 1500 Series**  
**JT-11-100-CE**

**.156" Center, 3300 Series**  
**JT-11-156-HC**



For production volume wire termination, this electric bench process offers several time saving features. Manual actuation and automatic connector indexing provide up to 1,000 wire terminations per hour.

Air presses are available for .100" and .156" centerline connectors.

**.100" Center Card Edge, 1500 Series**  
**JT-101-100-CE**

**.100" Center, 1300 Series**  
**JT-101-100-ST**

**.100" Center Card Edge, 9300 Series**  
**JT-101-100-PB**

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