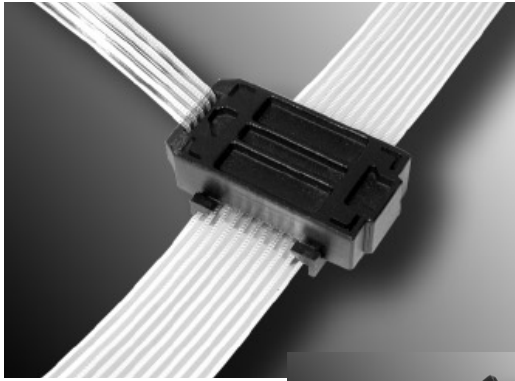
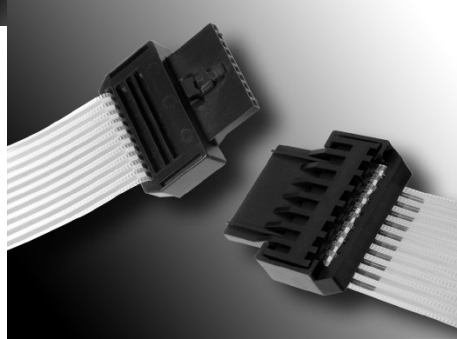


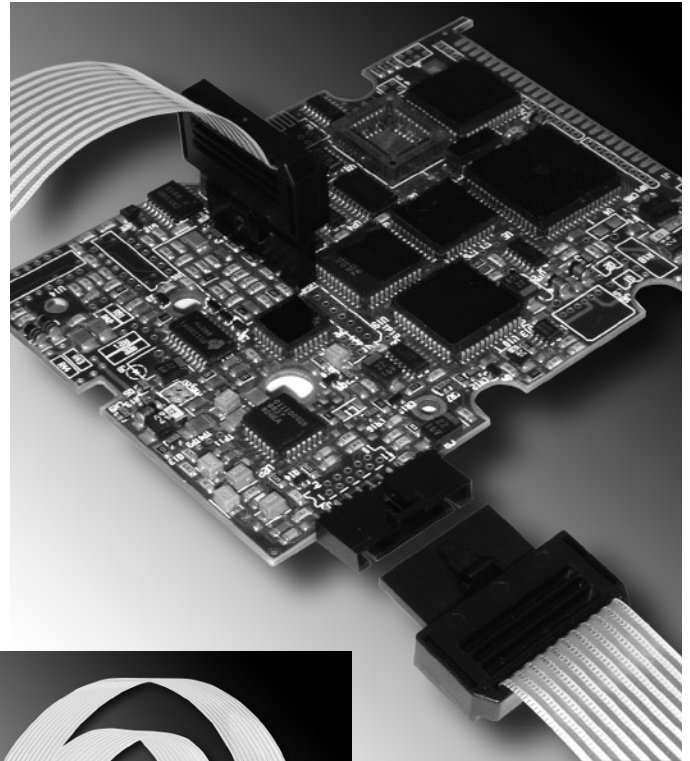
Flat Conductor Cable System



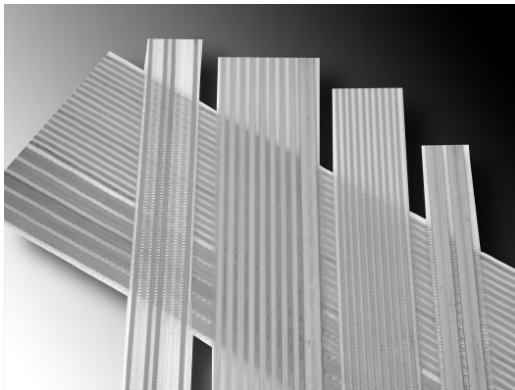
**CABLE-TO-CABLE
SOLUTIONS**



**METHODE
ELECTRONICS
FLAT CONDUCTOR,
FLAT CABLE**



**CABLE-TO-BOARD
SOLUTIONS**



CUSTOM SOLUTIONS

Connector System Advantages:

- Cost Effective
- Standard Connector Interface
- No Special Tooling Required
- Mass Termination Compatible
- Integral Strain Relief
- Integral Cable Alignment

Flat Cable Advantages:

- Cost Effective
- Easy to Strip Insulation
- 18 - 28 AWG Conductor Range
- Conductor Spacing Flexibility
- Mixed Conductor Size Flexibility



METHODE ELECTRONICS, INC.

Connector Products

1700 Hicks Road • Rolling Meadows, IL 60008

For rapid response to your design requirements, contact:
800.323.6864 x246 • 847.392.9404 (fax)
mcpsales@methode.com

Cable-To-Board Connector (Patent #6,132,236)

Mechanical Specifications

Recommended Cable:

- .100" centers
- .004"/.008" thick x .050" wide conductors
- .015" max. overall thickness

Pitch: 0.100"

Insertion Force: 10 oz. max. per contact

Withdrawal Force: 2 oz. min. per contact

Durability: 50 insertion/withdrawal cycles

Operating Temperature: -55°C to 105°C

PART NUMBER ORDERING INFORMATION

930X-4XX-224 (Connector)

NUMBER OF POSITION (5-25)

PLATING OPTIONS

0 = TIN/LEAD

F = 15 MICROINCH SELECT GOLD

PART NUMBER ORDERING INFORMATION

9300-5XX-500 (Required Cover)

NUMBER OF POSITION (5-25)

Electrical Specifications

UL Rating: 94V-0

Current Rating: 2.0 amps max. per contact

Voltage Rating: 600 VAC

Contact Resistance: 25 milliohms max.

Insulation Resistance: 5000 megohms

Dielectric Withstanding Voltage: 1,000 VAC
between adjacent terminals

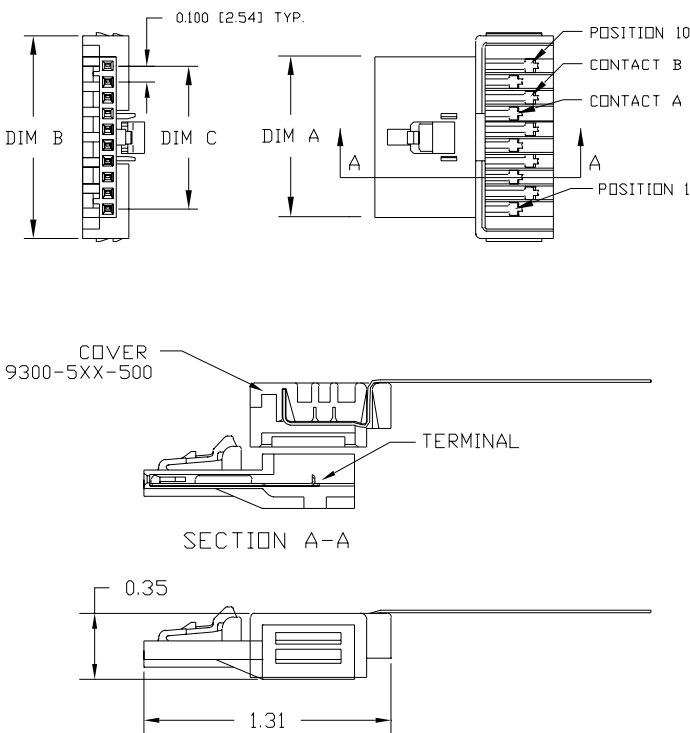
Mating Board Header:

91XX-8-1XX-0X

Vertical Shrouded Header with Latch

91XX-9-1XX-0X

Right Angle Shrouded Header with Latch



PART NUMBER	# OF SCKTS	"A" ±.005/(.13)	"B" ±.005/(.13)	"C" ±.005/(.13)
9300-405-222	5	.510/(12.95)	.776/(19.71)	.500/(12.70)
406	6	.610/(15.49)	.876/(22.25)	.600/(15.24)
407	7	.710/(18.03)	.976/(24.79)	.700/(17.78)
408	8	.810/(20.57)	1.076/(27.33)	.800/(20.32)
409	9	.910/(23.11)	1.176/(29.87)	.900/(22.86)
410	10	1.010/(25.65)	1.276/(32.41)	1.000/(25.40)
411	11	1.110/(28.19)	1.376/(34.95)	1.100/(27.94)
412	12	1.210/(30.73)	1.476/(37.49)	1.200/(30.48)
413	13	1.310/(33.27)	1.576/(40.03)	1.300/(33.02)
414	14	1.410/(35.81)	1.676/(42.57)	1.400/(35.56)
415	15	1.510/(38.35)	1.776/(45.11)	1.500/(38.10)
416	16	1.610/(40.89)	1.876/(47.65)	1.600/(40.64)
417	17	1.710/(43.43)	1.976/(50.19)	1.700/(43.18)
418	18	1.810/(45.97)	2.076/(52.73)	1.800/(45.72)
419	19	1.910/(48.51)	2.176/(55.27)	1.900/(48.26)
420	20	2.010/(51.05)	2.276/(57.81)	2.000/(50.80)
421	21	2.110/(53.59)	2.376/(60.35)	2.100/(53.34)
422	22	2.210/(56.13)	2.476/(62.89)	2.200/(55.88)
423	23	2.310/(58.67)	2.576/(65.43)	2.300/(58.42)
424	24	2.410/(61.21)	2.676/(67.97)	2.400/(60.96)
9300-425-222	25	2.510/(63.75)	2.776/(70.51)	2.500/(63.50)



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mcp sales@methode.com

Cable to Cable T-Tap Connector (Patent #6,132,236)

Methode Electronics' Connector Products T-tap connector allows simple splicing of flat conductor, flat cable. For example, applications with a main bus cable consisting of signals and/or power can be tapped to ancillary devices. Connectors are configured to specific customer requirements.

Contact Connector Products for available sizes.

Mechanical Specifications

Recommended Cable:

.004"/.008" thick x .050" wide conductors
.015" max. overall thickness

Pitch: 0.100"

Operating Temperature: -55°C to 105°

Electrical Specifications

UL Rating: 94V-0

Current Rating: 2.0 amps max. per contact

Voltage Rating: 600 VAC

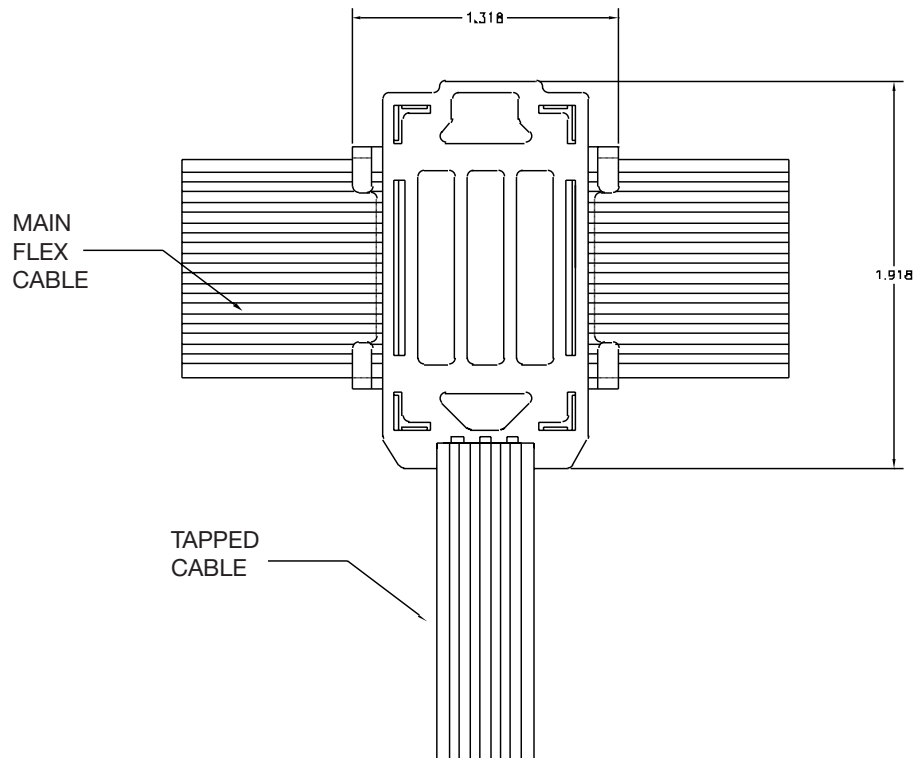
Contact Resistance: 25 milliohms max., initial

Insulation Resistance: 5000 megaohms

Dielectric Withstanding Voltage:

1000 volts AC between adjacent terminals

10 Circuit to 4 Circuit Example Shown



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mcpsales@methode.com

Flat Conductor, Flat Cable

Methode Electronics' Connector Products flat conductor, flat cable overcomes the disadvantages of traditional flat cable. Our unique manufacturing technology produces cable that is as easy to use as discrete wire.

Contact Connector Products for available sizes.

PART NUMBER ORDERING INFORMATION

FFC-XXXX-XX-XXX-XX

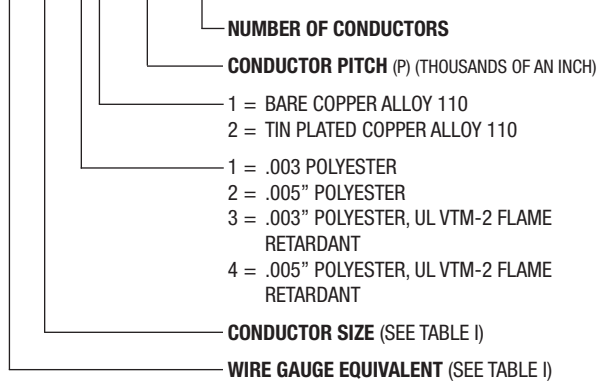


TABLE I		
WIRE GAUGE EQUIVALENT	CONDUCTOR SIZE	
30 AWG	-01	.0030 X .026
28 AWG	-01	.0030 X .041
26 AWG	-01	.0050 X .040
	-02	.0070 X .028
24 AWG	-01	.0063 X .050
	-02	.0050 X .063
22 AWG	-01	.0090 X .056
	-02	.0070 X .072
20 AWG	-01	.0120 X .067
	-02	.0090 X .089
	-03	.0070 X .115
18 AWG	-01	.0140 X .091
	-02	.0120 X .106
	-03	.0090 X .142
16 AWG	-01	.0140 X .145
	-02	.0120 X .169

Standards

Part Number: FFC-2601-11-079-10

26 AWG Gauge equivalent
 .005" thickness (T) x .040" width (W) conductor
 .003" (I) polyester insulation
 Bare copper alloy 110
 .079" (2mm) Pitch (P)
 10 conductors

Part Number: FFC-2401-11-100-10

24 AWG Gauge equivalent
 .0063" thickness (T) x .050" width (W) conductor
 .003" (I) polyester insulation
 Bare copper alloy 110
 .100" (2.54mm) Pitch (P)
 10 conductors

General Specifications

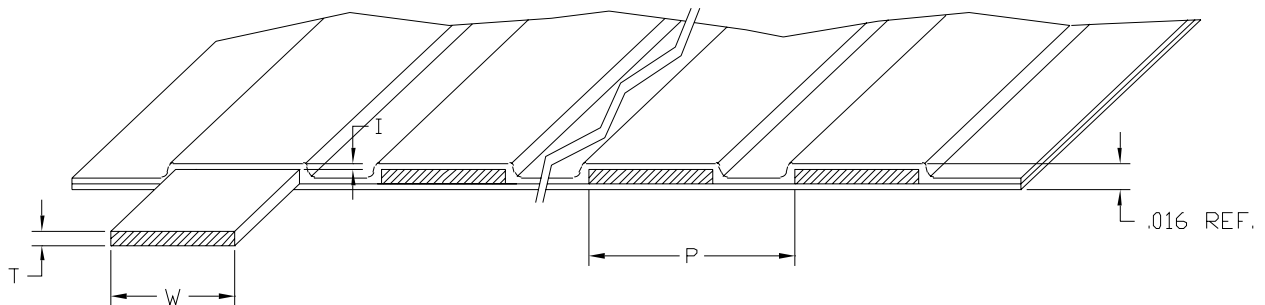
Insulator Material: Mylar (Polyester)

- **Temperature Rating:** -40°C to 105°C (-40°F to 221°F)
- **UL Flamability Rating:** VTM-2 (for flame retardent options)

Conductor Material: Copper Alloy #110 (Tin Plated if Required)

Electrical Specifications

- Current Rating:** 2 Amps (.005" x .063" Conductor)
- Voltage Rating:** 600 Volts Max.
- Insulation Resistance:** 10 megohm min
- Dielectric Strength:** 2500 volts/mil insulation
- Dielectric Strength Between Conductors:** 1000 VAC



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