

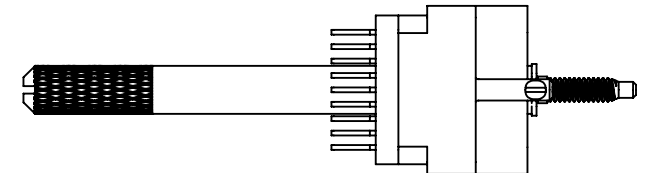
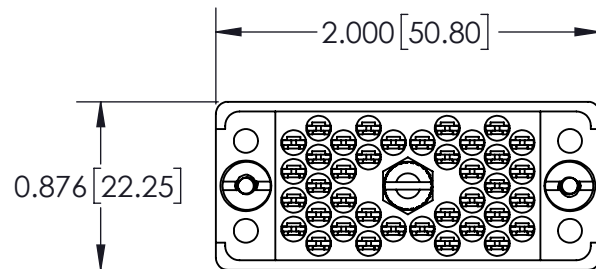
Contact Detail:
520-P.C. Tail .025x.024(0.64x0.61) - Tail LG.=.215(5.46)

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ISSUE NUMBER

ORIGINAL



Features

- UL Recognized
- .150 (3.81) Contact Spacing x .130 (3.30) or .150 (3.81) Row Spacing with Staggered Grid
- Plug and Receptacle in 20, 38, 56, 90 or 120 Contact Sizes
- Edacon Hermaphroditic Contact Mating Design
- Contact Termination Options Include: Crimp, P.C. Tail, Wire Hole and Wire Wrap
- Mating and Unmating Simplified with use of Actuating Screws
- Optional Covers with Side or Top Entry Cable Clamp in Plastic or Metal Material Available for All Connector Sizes
- Versatile Metal Cover Design Permits Assembly and Disassembly after Cabling is Complete plus Cable Entry Style Flexibility
- Actuating Screws, Locknuts, Polarizing Hardware, Covers and Contacts Suitable for either Plug or Receptacle
- Polarizing Hardware Adjustable for 288 Mating Combinations
- Tools Available for Contact Installation, Removal and Crimping and Polarizing Changes

Specifications

- Insulator Material: Diallyl Phthalate or Thermo plastic Polyester, UL94V-0, Colour: Green, or Polycarbonate, Colour: Grey
- Contact Material: Phosphor Bronze Alloy CA-510
- Contact Plating: Gold over Nickel for Entire Contact
- Cover Material: Polycarbonate, Colour: Green, or Die-Cast Zinc, Finished with Grey Enamel Paint
- Current Rating: 8.5 Amperes
- Contact Resistance: 10 Milliohms Maximum
- Dielectric Withstanding Voltage: 2000 V AC rms at Sea Level
- Insulation Resistance: 5000 Megohms Minimum
- Operating Temperature: -65 to +125 Degrees C
- Insertion and Withdrawal Force: 2 to 16 oz (0.56 to 4.45 N) per Contact Position

See Accompanying Pages for:
 - PC Tail Layout
 - Cutout Panel Details
 - Cover Details

516 Assembly

Part Number: 516-038-520-101



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DRAWN: J.LEE DATE: JUNE 18, 2009

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SCALE: 1:1 SHEET 1 OF 4

DRAWING NUMBER ISSUE

516 Assembly

1

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ISSUE NUMBER

ORIGINAL

0



20 Pin
P.C. Tail Layout



38 Pin
P.C. Tail Layout



56 Pin
P.C. Tail Layout



90 Pin
P.C. Tail Layout



120 Pin
P.C. Tail Layout

516 Assembly
P.C. Tail Layout Details



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DRAWING NUMBER

516 Assembly

ISSUE

1



(4)
"A" Dia. Hole



"G" Max.
End Cut-Outs Optional
Provide Access to
Polarizing Hardware

	Dimension A	Dimension B	Dimension C	Dimension D	Dimension E	Dimension F	Dimension G
20 Pin	0.104 [2.64]	0.640 [16.26]	0.410 [10.41]	0.960 [24.38]	1.126 [28.60]	1.270 [32.26]	R0.130 [R3.30]
38 Pin	0.136 [3.45]	0.816 [20.73]	0.468 [11.89]	1.420 [36.07]	1.688 [42.88]	1.958 [49.73]	R0.130 [R3.30]
56 Pin	0.136 [3.45]	0.816 [20.73]	0.468 [11.89]	1.940 [49.28]	2.280 [57.91]	2.550 [64.77]	R0.130 [R3.30]
90 Pin	0.136 [3.45]	1.120 [28.45]	0.765 [19.43]	2.050 [52.07]	2.282 [57.96]	2.675 [67.95]	R0.130 [R3.30]
120 Pin	0.136 [3.45]	1.420 [36.07]	0.875 [22.23]	2.050 [52.07]	2.375 [60.33]	2.675 [67.95]	R0.130 [R3.30]

516 Assembly
Cut-Out Panel Detail



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SHEET 3 OF 4

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516 Assembly

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1

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ISSUE NUMBER

ORIGINAL

1



Top Entry



Side Entry



Standard Clamp



Large Clamp

Cover for Connector	Cover Material	Clamp Size	"A"	"B"	"C"	"D"	"E"	"F"	"G"
20 Pin	Plastic	Standard	1.605 (40.77)	1.325 (33.66)	0.906 (23.01)	1.190 (30.23)	0.715 (18.16)	0.450 (11.43)	0.450 (11.43)
20 Pin	Metal	Standard	1.539 (39.09)	1.325 (33.66)	0.906 (23.01)	1.120 (28.45)	0.686 (17.42)	0.446 (11.33)	0.490 (12.45)
38 Pin	Plastic	Standard	2.460 (62.48)	2.010 (51.05)	1.530 (38.86)	1.985 (50.42)	0.910 (23.11)	0.650 (16.51)	0.500 (12.70)
38 Pin	Plastic	Large	2.460 (62.48)	2.010 (51.05)	1.530 (38.86)	1.985 (50.42)	1.110 (28.19)	0.650 (16.51)	0.608 (15.44)
38 Pin	Metal	Standard	2.206 (56.03)	2.006 (50.95)	1.566 (39.78)	1.766 (44.86)	0.875 (22.23)	0.720 (18.29)	0.575 (14.61)
56 Pin	Plastic	Standard	2.602 (66.09)	2.602 (66.09)	1.530 (38.86)	1.985 (50.42)	0.910 (23.11)	0.650 (16.51)	0.500 (12.70)
56 Pin	Plastic	Large	2.602 (66.09)	2.602 (66.09)	1.530 (38.86)	1.985 (50.42)	1.110 (28.19)	0.650 (16.51)	0.608 (15.44)
56 Pin	Metal	Standard	2.602 (66.09)	2.602 (66.09)	1.566 (39.78)	1.766 (44.86)	0.875 (22.23)	0.720 (18.29)	0.575 (14.61)
90 Pin	Plastic	Standard	2.718 (69.04)	2.718 (69.04)	1.775 (45.09)	2.181 (55.40)	1.250 (31.75)	0.800 (20.32)	0.800 (20.32)
90 Pin	Metal	Standard	2.718 (69.04)	2.718 (69.04)	1.775 (45.09)	2.175 (55.25)	1.234 (31.34)	0.880 (22.35)	0.900 (22.86)
120 Pin	Plastic	Standard	2.750 (69.85)	2.750 (69.85)	2.020 (51.31)	2.426 (61.62)	1.530 (38.86)	0.800 (20.32)	1.080 (27.43)
120 Pin	Metal	Standard	2.750 (69.85)	2.750 (69.85)	2.020 (51.31)	2.445 (62.10)	1.531 (38.89)	0.890 (22.61)	1.080 (27.43)

516 Assembly Cut-Out Panel Detail



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516 Assembly

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Mouser Electronics

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516-038-520-101