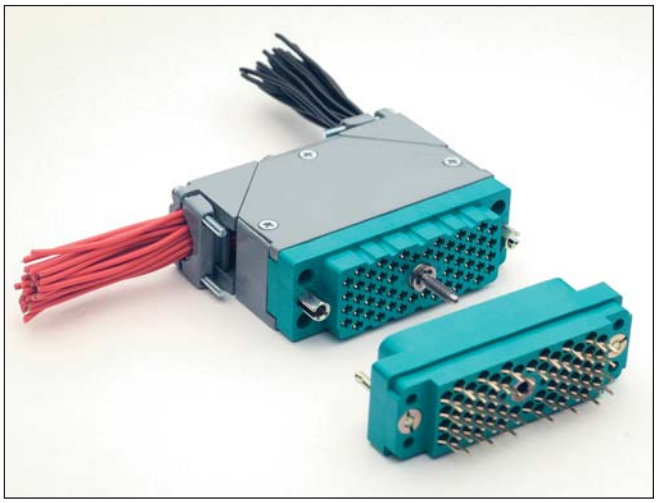
Varicon®

Series 8016 – .075" x .130" x .150" Grid Pattern

FEATURES

- Available in five sizes: 20, 38, 56, 90 and 120 contacts
- Insertable / removable Varilok contacts
- Crimp, solder, solderless wrap, and taper tab terminations
- Exceptional versatility: all hardware can be mounted on plug or receptacle (see ordering code)
- Actuating screw facilitates mating and unmating, locks mated connectors together
- Polarizing hardware can be set to any of six positions at factory; can also be reset by user (see polarizing code)
- Optional cover with top or side cable entry and clamp
- Optional cable strain relief clamp with adjustable strap for large or small cable bundles (fits on sizes 38 and 56)
- Plug and receptacle contacts are protected from mishandling
- Guide pins and sockets ensure correct alignment when mating
- Aluminum covers
- CSA acceptable polyester material



TECHNICAL SPECIFICATIONS

Current Rating:
8 amperes, maximum

Contact Resistance:
6 milliohms, maximum

Contact Material:
Phosphor bronze

Contact Plating:
Gold, 10 microinches min., over Nickel, 50-100 microinches

Insulator Material:
Thermoplastic 94V-O glass filled polyester

Insulation Resistance:
5,000 megohms, min. (polyester)

Sea Level: 1250 volts RMS

3.4" Hg: 625 volts RMS

Cover and Clamp Material and Finish:
Aluminum with clear chromate under grey enamel finish

CONECTORS:

Male



(Exposed Contacts)

Female



(Recessed Contacts)

Male, Jackscrew



001/601 Style

Male, Fixed Nut



002/602 Style

Female, Fixed Nut



007/607 Style

Female, Jackscrew



008/608 Style

COVERS:

Top Opening



Side Opening



Top/side Opening
(Removable Side Plate)



CONTACTS:

Crimp



Solder Tab



217 Style

Wire Wrap
14.4mm



218 Style

Wire Wrap
19.3mm



750 Style

Wire Wrap
.567



296 Style

Solder

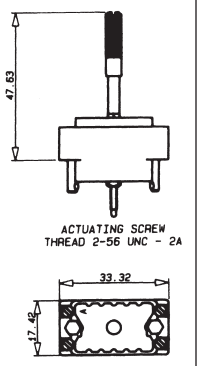


504 Style

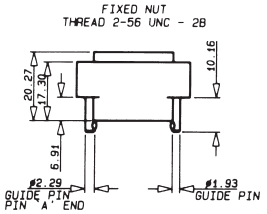
Varicon®

Series 8016 – Rectangular Connector – 20 Contact

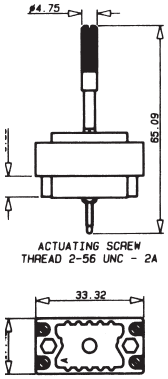
PLUG Actuating Screw



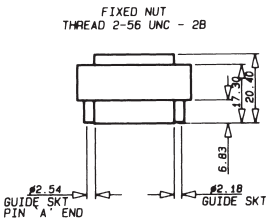
PLUG Fixed Nut



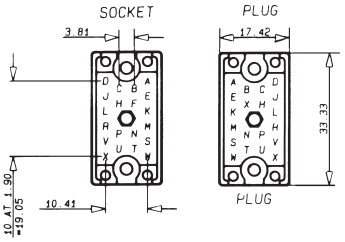
SOCKET Actuating Screw



SOCKET Fixed Nut



PIN LAYOUT 20 Way



ORDERING CODE

00	8016	020	217	601
Prefix	Series Number	Number of Contacts		See table below

Contact Termination

*000 = Contacts not fitted and ordered separately, see page 25 for full list of options

217 = Solder 0.098" x 2.49mm

218 = Wire Wrap – 0.025 x 0.050 x 0.567" / 0.64 x 1.27 x 14.4mm

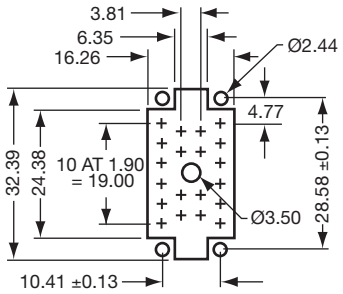
296 = Wire Wrap – 0.025 x 0.026 x 0.579" / 0.64 x 0.66 x 14.7mm

504 = Solder Tail –

750 = Wire Wrap – 0.025 x 0.050 x 0.760" / 0.64 x 1.27 x 19.3mm

*Crimp contacts always ordered separately.
See page 25 for details.

RECOMMENDED LAYOUT FOR FRONT CHASSIS MOUNTING & PCB LAYOUT



See page 26 for assembly tools.

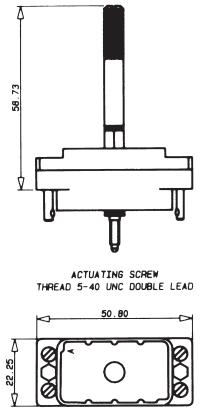
20 CONTACTS					COVER			
Insulator Body Type	Basic P/N*	Color	Hardware **Thread	No Cover	Top Std Clamp	Side Std Clamp	Actuating Screw	Fixed Nut
Male	00 8016 020 000 XXX	Green	UNC	601	603	604	Y	N
Male	00 8016 020 000 XXX	Green	UNC	602	605	606	N	Y
Male	00 8016 020 000 XXX	Gray	UNC	001	903	904	Y	N
Male	00 8016 020 000 XXX	Gray	UNC	002	905	906	N	Y
Female	00 8016 020 000 XXX	Green	UNC	608	609	610	Y	N
Female	00 8016 020 000 XXX	Green	UNC	607	611	612	N	Y
Female	00 8016 020 000 XXX	Gray	UNC	008	909	910	Y	N
Female	00 8016 020 000 XXX	Gray	UNC	007	911	912	N	Y

*Select the column desired and replace the XXX with the numbers from column.
**United Course Thread

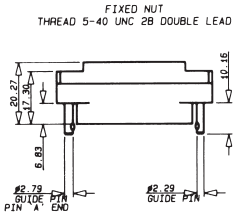
Varicon®

Series 8016 – Rectangular Connector – 38 Contact

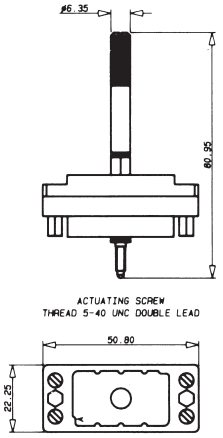
PLUG Actuating Screw



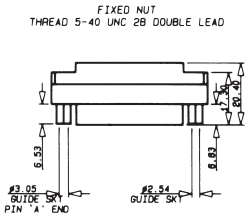
PLUG Fixed Nut



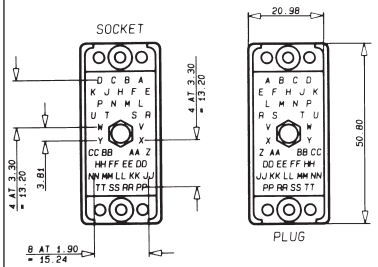
SOCKET Actuating Screw



SOCKET Fixed Nut



PIN LAYOUT 38 Way



ORDERING CODE

00	8016	038	217	601
Prefix	Series Number	Number of Contacts		See table below

Contact Termination

*000 = Contacts not fitted and ordered separately, see page 25 for full list of options

217 = Solder 0.098" x 2.49mm



218 = Wire Wrap – 0.025 x 0.050 x 0.567" / 0.64 x 1.27 x 14.4mm



296 = Wire Wrap – 0.025 x 0.026 x 0.579" / 0.64 x 0.66 x 14.7mm



504 = Solder Tail –

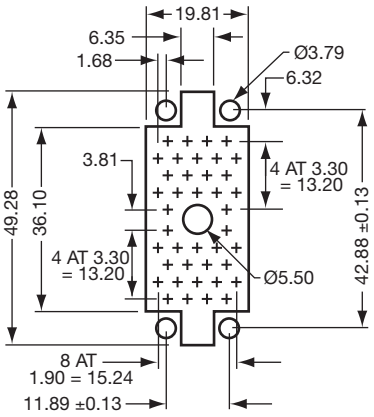


750 = Wire Wrap – 0.025 x 0.050 x 0.760" / 0.64 x 1.27 x 19.3mm



*Crimp contacts always ordered separately.
See page 25 for details.

RECOMMENDED LAYOUT FOR FRONT CHASSIS MOUNTING & PCB LAYOUT



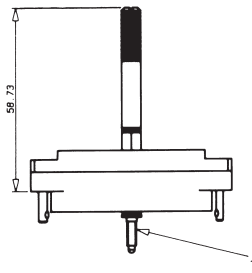
See page 26 for assembly tools.

38 CONTACTS					COVER							
Insulator Body Type	Basic P/N*	Color	Hardware **Thread	No Cover	Top Std Clamp	Side Std Clamp	Top Lge Clamp	Side Lge Clamp	Top EX Lge Clamp	Side EX Lge Clamp	Actuating Screw	Fixed Nut
Male	00 8016 038 000 XXX	Green	UNC	601	603	604	619	620	631	632	Y	N
Male	00 8016 038 000 XXX	Green	UNC	602	605	606	621	622	633	634	N	Y
Male	00 8016 038 000 XXX	Gray	UNC	001	903	904	919	920	931	932	Y	N
Male	00 8016 038 000 XXX	Gray	UNC	002	905	906	921	922	933	934	N	Y
Female	00 8016 038 000 XXX	Green	UNC	608	609	610	623	624	635	636	Y	N
Female	00 8016 038 000 XXX	Green	UNC	607	611	612	625	626	637	638	N	Y
Female	00 8016 038 000 XXX	Gray	UNC	008	909	910	923	924	935	936	Y	N
Female	00 8016 038 000 XXX	Gray	UNC	007	911	912	925	926	937	938	N	Y

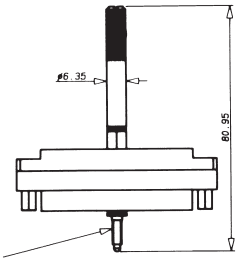
*Select the column desired and replace the XXX with the numbers from column.
**United Course Thread

Series 8016 – Rectangular Connector – 56 Contact

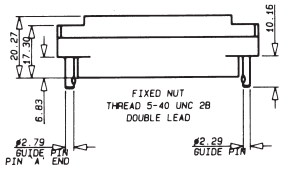
PLUG - ACTUATING SCREW



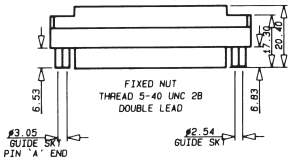
SOCKET - ACTUATING SCREW



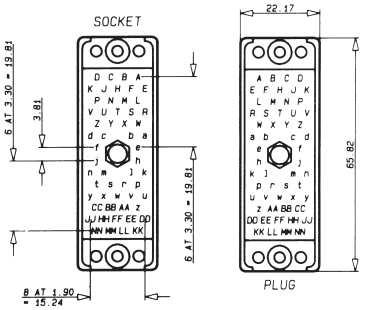
PLUG – FIXED NUT



SOCKET – FIXED NUT



PIN LAYOUT 56 Way



ORDERING CODE

00	8016	056	217	601
Prefix	Series Number	Number of Contacts		See table below

Contact Termination

*000 = Contacts not fitted and ordered separately, see page 25 for full list of options

217 = Solder 0.098" x 2.49mm



218 = Wire Wrap – 0.025 x 0.050 x 0.567" / 0.64 x 1.27 x 14.4mm



296 = Wire Wrap – 0.025 x 0.026 x 0.579" / 0.64 x 0.66 x 14.7mm



504 = Solder Tail –

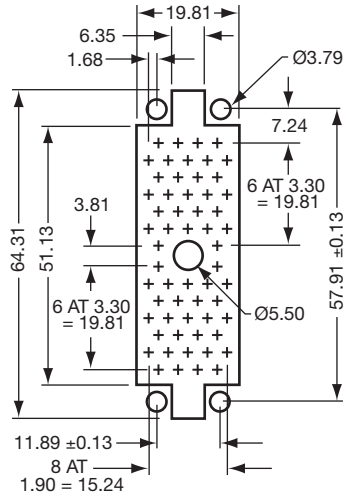


750 = Wire Wrap – 0.025 x 0.050 x 0.760" / 0.64 x 1.27 x 19.3mm



*Crimp contacts always ordered separately.
See page 25 for details.

RECOMMENDED LAYOUT FOR FRONT CHASSIS MOUNTING & PCB LAYOUT



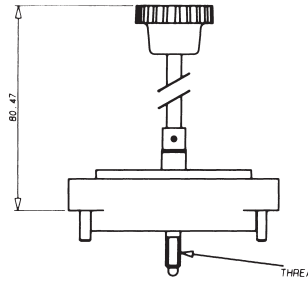
See page 26 for assembly tools.

56 CONTACTS						
Insulator Body Type	**Basic P/N***	**Color**	**Hardware **Thread**	**No Cover**	**Actuating Screw**	**Fixed Nut**
Male	00 8016 056 000 XXX	Green	UNC	601	Y	N
Male	00 8016 056 000 XXX	Green	UNC	602	N	Y
Male	00 8016 056 000 XXX	Gray	UNC	001	Y	N
Male	00 8016 056 000 XXX	Gray	UNC	002	N	Y
Female	00 8016 056 000 XXX	Green	UNC	608	Y	N
Female	00 8016 056 000 XXX	Green	UNC	607	N	Y
Female	00 8016 056 000 XXX	Gray	UNC	008	Y	N
Female	00 8016 056 000 XXX	Gray	UNC	007	N	Y

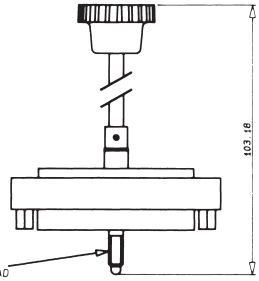
*Select the column desired and replace the XXX with the numbers from column.
**United Course Thread

Series 8016 – Rectangular Connector – 90 Contact

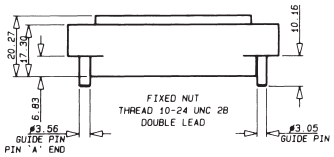
PLUG - Actuating Screw



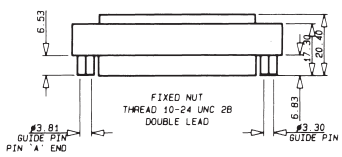
SOCKET - Actuating Screw



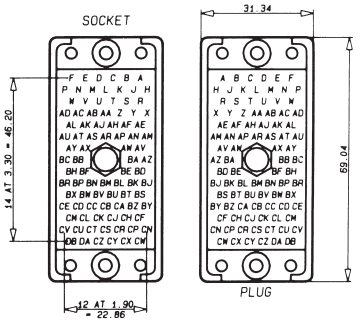
PLUG – Fixed Nut



SOCKET – Fixed Nut



PIN LAYOUT 90 Way



ORDERING CODE

00	8016	090	217	601
Prefix	Series Number	Number of Contacts		See table below

Contact Termination

*000 = Contacts not fitted and ordered separately, see page 25 for full list of options

217 = Solder 0.098" x 2.49mm



218 = Wire Wrap – 0.025 x 0.050 x 0.567" / 0.64 x 1.27 x 14.4mm



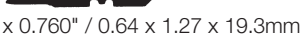
296 = Wire Wrap – 0.025 x 0.026 x 0.579" / 0.64 x 0.66 x 14.7mm



504 = Solder Tail –

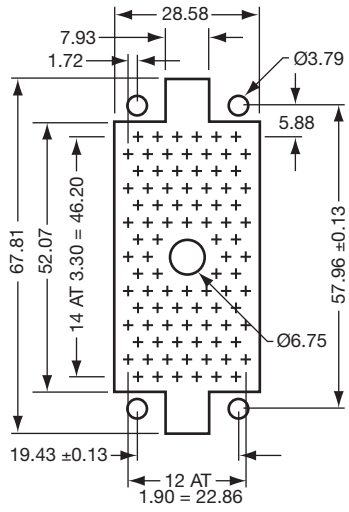


750 = Wire Wrap – 0.025 x 0.050 x 0.760" / 0.64 x 1.27 x 19.3mm



*Crimp contacts always ordered separately.
See page 25 for details.

RECOMMENDED LAYOUT FOR FRONT CHASSIS MOUNTING & PCB LAYOUT

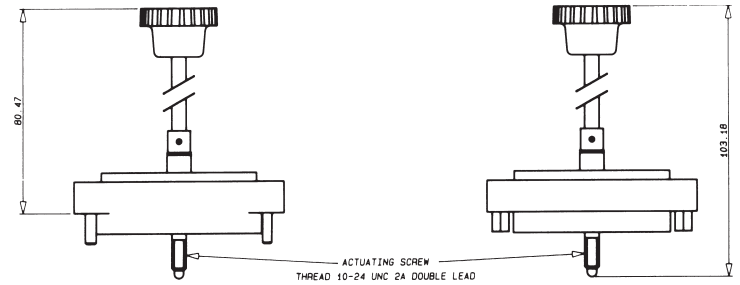


See page 26 for assembly tools.

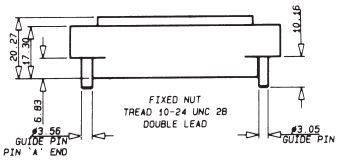
90 CONTACTS					COVER					
Insulator Body Type	Basic P/N*	Color	Hardware **Thread	No Cover	Top Lge Clamp	Side Lge Clamp	Top EX Lge Clamp	Side EX Lge Clamp	Actuating Screw	Fixed Nut
Male	00 8016 090 000 XXX	Green	UNC	601	603	604	631	632	Y	N
Male	00 8016 090 000 XXX	Green	UNC	602	605	606	633	634	N	Y
Male	00 8016 090 000 XXX	Gray	UNC	001	903	904	931	932	Y	N
Male	00 8016 090 000 XXX	Gray	UNC	002	905	906	933	934	N	Y
Female	00 8016 090 000 XXX	Green	UNC	608	609	610	635	636	Y	N
Female	00 8016 090 000 XXX	Green	UNC	607	611	612	637	638	N	Y
Female	00 8016 090 000 XXX	Gray	UNC	008	909	910	935	936	Y	N
Female	00 8016 090 000 XXX	Gray	UNC	007	911	912	937	938	N	Y

*Select the column desired and replace the XXX with the numbers from column.
**United Course Thread

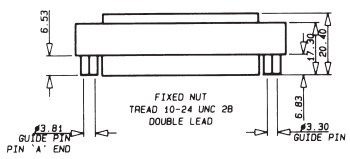
PLUG - ACTUATING SCREW SOCKET - ACTUATING SCREW



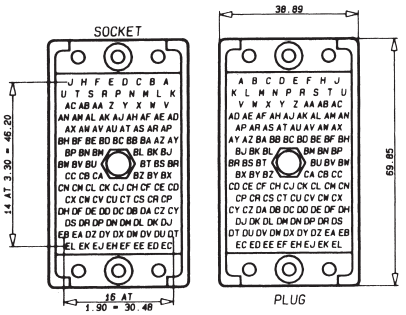
PLUG – Fixed Nut



SOCKET – FIXED NUT



PIN LAYOUT
120
Way



ORDERING CODE

00	8016	120	217	601
Prefix	Series Number	Number of Contacts		See table below

Contact Termination

*000 = Contacts not fitted and ordered separately, see page 25 for full list of options

217 = Solder 0.098" x 2.49mm



218 = Wire Wrap –
0.025 x 0.050 x 0.567" / 0.64 x 1.27 x 14.4mm



296 = Wire Wrap –
0.025 x 0.026 x 0.579" / 0.64 x 0.66 x 14.7mm



504 = Solder Tail –

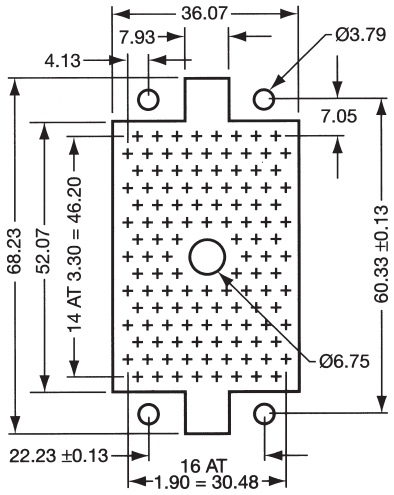


750 = Wire Wrap –
0.025 x 0.050 x 0.760" / 0.64 x 1.27 x 19.3mm



*Crimp contacts always ordered separately.
See page 25 for details.

RECOMMENDED LAYOUT FOR FRONT CHASSIS MOUNTING & PCB LAYOUT



See page 26 for assembly tools.

120 CONTACTS					COVER			
Insulator Body Type	Basic P/N*	Color	Hardware **Thread	No Cover	Top Lge Clamp	Side Lge Clamp	Actuating Screw	Fixed Nut
Male	00 8016 120 000 XXX	Green	UNC	601	603	604	Y	N
Male	00 8016 120 000 XXX	Green	UNC	602	605	606	N	Y
Male	00 8016 120 000 XXX	Gray	UNC	001	N/A	N/A	Y	N
Male	00 8016 120 000 XXX	Gray	UNC	002	N/A	N/A	N	Y
Female	00 8016 120 000 XXX	Green	UNC	608	609	610	Y	N
Female	00 8016 120 000 XXX	Green	UNC	607	611	612	N	Y
Female	00 8016 120 000 XXX	Gray	UNC	008	N/A	N/A	Y	N
Female	00 8016 120 000 XXX	Gray	UNC	007	N/A	N/A	N	Y

*Select the column desired and replace the XXX with the numbers from column.
**United Course Thread

Varicon®

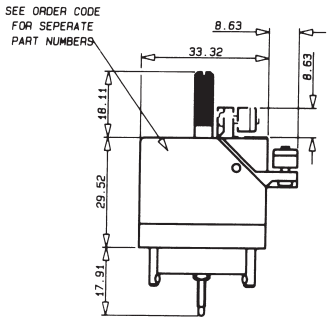
Series 8016 Covers

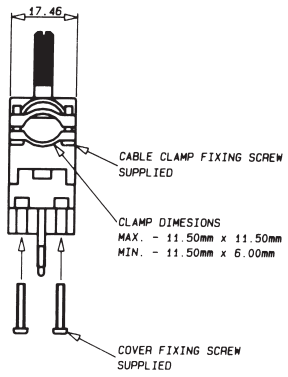
Part Number	For Size	Hardware Threads	Cable Entance	Clamp Type	Size mm (inches)
30 8016 9829 00 000	20	Metric	Side	Standard	11.53 (0.454) Dia
30 8016 9831 00 000	20	Metric	Top	Standard	11.53 (0.454) Dia
30 8016 0200 00 415	20	UNC	45	Standard	5 x 10 (0.197 x 0.394) min
30 8016 9821 00 000	38	Metric	Side	Standard	16.51 x 12.70 (0.650 x 0.500)
30 8016 9822 00 000	38	Metric	Top	Standard	16.51 x 12.70 (0.650 x 0.500)
30 8016 9825 00 000	38	Metric	Side	Large	16.51 x 15.44 (0.650 x 0.608)
30 8016 9826 00 000	38	Metric	Top	Large	16.51 x 15.44 (0.650 x 0.608)
30 8016 9838 00 000	38	Metric	Side	Ex-Large	20.83 x 15.60 (0.820 x 0.614)
30 8016 9839 00 000	38	Metric	Top	Ex-Large	20.83 x 15.60 (0.820 x 0.614)
30 8016 0560 00 413	56	UNC	Top/Side	Standard	6 x 14 (0.236 x 0.551) min
30 8016 0560 00 415	56	UNC	45	Standard	6 x 14 (0.236 x 0.551) min
30 8016 9832 00 000	90	Metric	Side	Large	20.32 (0.800) Dia
30 8016 9833 00 000	90	Metric	Top	Large	20.32 (0.800) Dia
30 8016 9843 00 000	90	Metric	Side	Ex-Large	25.40 x 20.32 (1.00 x 0.800)
30 8016 9844 00 000	90	Metric	Top	Ex-Large	25.40 x 20.32 (1.00 x 0.800)
30 8016 9834 00 000	120	Metric	Side	Large	20.32 x 27.43 (0.800 x 1.080)
30 8016 9835 00 000	120	Metric	Top	Large	20.32 x 27.43 (0.800 x 1.080)

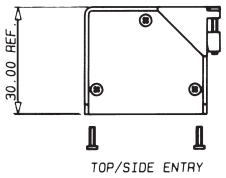
CLAMPING AND COVER DIMENSIONS

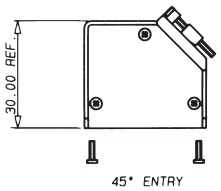
OPTIONAL REMOVABLE SIDE PLATE COVER

20 CONTACTS



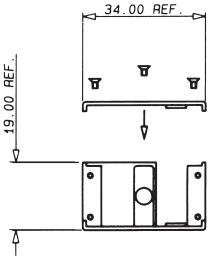




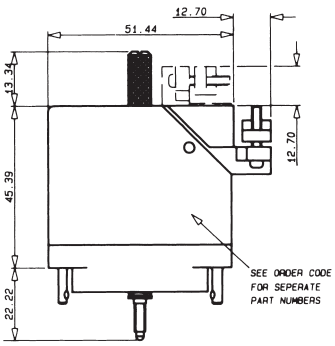


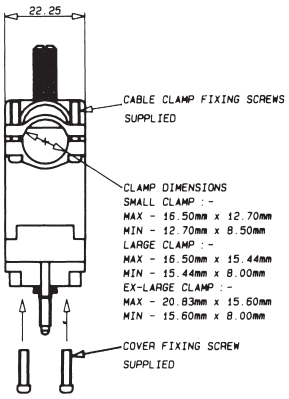
Part Number	Opening
308016020000413	Side/Top
308016020000415	45°

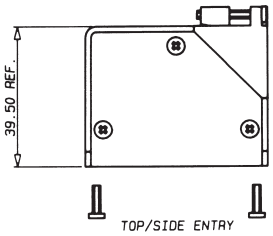
CLAMP	
Minimum Size	Maximum Size
5 x 10 (0.197 x 0.394)	10 x 10 (0.394 x 0.394)
5 x 10 (0.197 x 0.394)	10 x 10 (0.394 x 0.394)

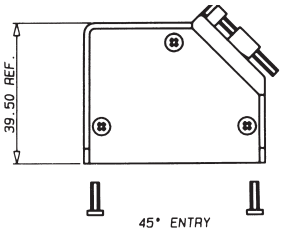


38 CONTACTS



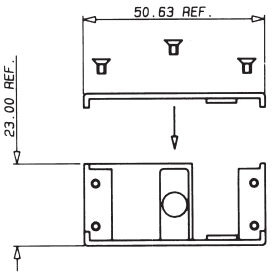




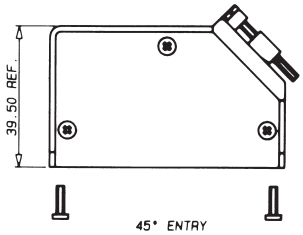


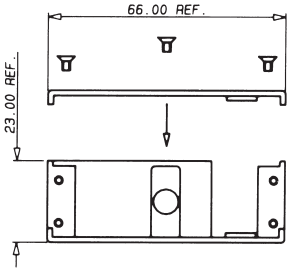
Part Number	Opening
308016038000413	Side/Top
308016038000415	45°

CLAMP	
Minimum Size	Maximum Size
6 x 14 (0.236 x 0.551)	17 x 14 (0.669 x 0.551)
6 x 14 (0.236 x 0.551)	17 x 14 (0.669 x 0.551)



56 CONTACTS



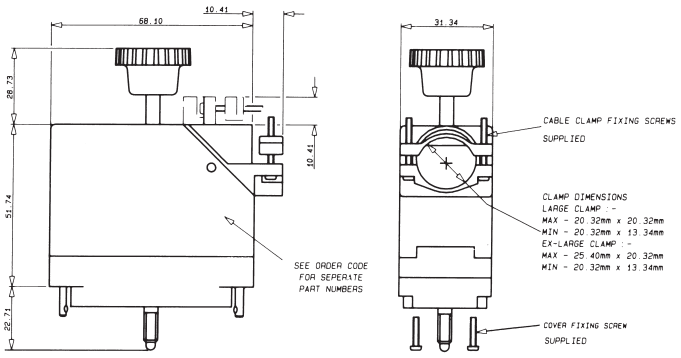


Part Number	Opening
308016056000413	Side/Top
308016056000415	45°

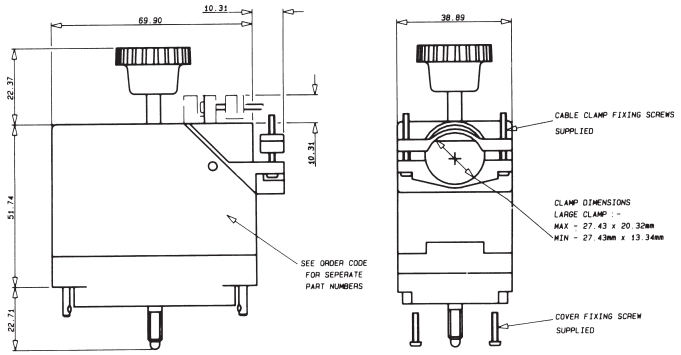
CLAMP	
Minimum Size	Maximum Size
6 x 14 (0.236 x 0.551)	17 x 14 (0.669 x 0.551)
6 x 14 (0.236 x 0.551)	17 x 14 (0.669 x 0.551)

CLAMPING AND COVER DIMENSIONS

90 CONTACTS



120 CONTACTS



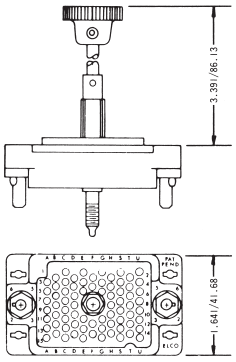
See page 21 for part numbers

Varicon®

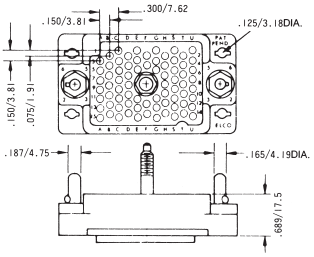
Series 8017

75/100/130 CONTACTS

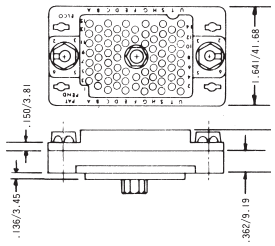
Plug with Actuating Screw 001



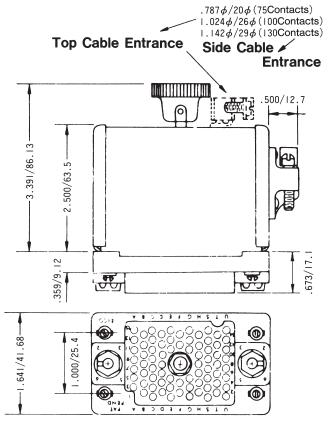
Plug with Fixed Screw 002



Receptacle with Fixed Nut 007

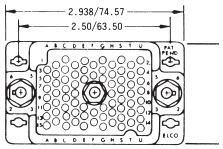


Receptacle with Actuating Nut 008

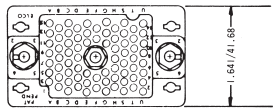


75 CONTACTS

Plug

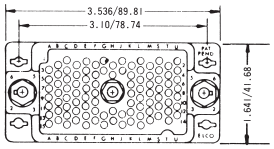


Receptacle

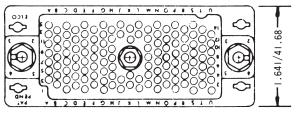


100 CONTACTS

Plug

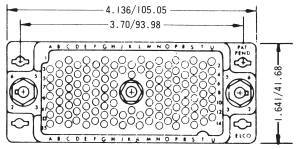


Receptacle

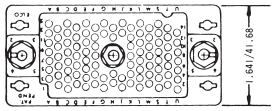


130 CONTACTS

Plug



Receptacle



ORDERING CODE

00	8017	XXX	XXX	0XX
Prefix	Series Number	Number of Positions 75, 100, 130		See Variation Code

Contact Code

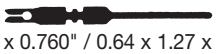
217 = Solder 0.098" x 2.49mm –
60 8017 0513 00 339



218 = Wire Wrap –
0.025 x 0.050 x 0.567" / 0.64 x 1.27 x 14.4mm
60 8017 0613 00 339



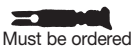
750 = Wire Wrap –
0.025 x 0.050 x 0.760" / 0.64 x 1.27 x 19.3mm
60 8017 0623 00 339



296 = Wire Wrap –
0.025 x 0.026 x 0.579" / 0.64 x 0.66 x 14.7mm
60 8017 0633 00 339



313 = Wire Crimp (Contacts Loose) –
60 8017 0313 00 339
Must be ordered separately

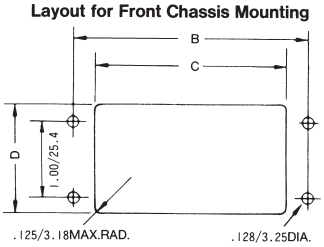


323 = Wire Crimp (1800 Contacts on a Reel) –
60 8017 0323 99 339
Must be ordered separately

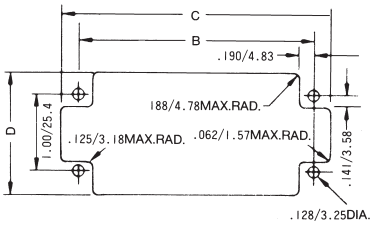


RECOMMENDED CHASSIS LAYOUT

Layout for Front Chassis Mounting



Layout for Back Chassis Mounting



All Tolerances ±.005/±.127

No. of Pos.	Front Chassis Mtg.			Back Chassis Mtg.		
	B	C	D	B	C	D
75	2.500/63.50	1.953/49.61	1.437/36.50	2.500/63.50	2.953/75.00	1.656/42.06
100	3.100/78.74	2.546/64.67	1.437/36.50	3.100/78.74	3.562/90.47	1.656/42.06
130	3.700/93.98	3.156/80.16	1.437/36.50	3.700/93.98	4.156/105.56	1.656/42.06

Dimensions inches/mm

VARIATION CODE

Insulator Body Type	Variation Code No.	Cover & Cable Entrance	Actuating Screw	Fixed Screw
Plug	001	No	Yes	No
	002	No	No	Yes
	003	Top	Yes	No
	004	Side	Yes	No
	005	Top	No	Yes
	006	Side	No	Yes

Insulator Body Type	Variation Code No.	Cover & Cable Entrance	Fixed Nut	Actuating Nut
Receptacle	007	No	Yes	No
	008	No	No	Yes
	009	Top	Yes	No
	010	Side	Yes	No
	011	Top	No	Yes
	012	Side	No	Yes

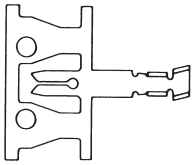
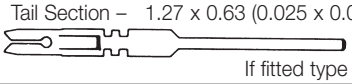
CONNECTOR PLUG AND RECEPTACLE COMBINATIONS

Plug \ Receptacle	007	008	009	010	011	012
001			■	■		
002		■			■	■
003	■		■	■		
004	■		■	■		
005		■			■	■
006		■			■	■

Varilok®

Loose Contacts

Varilok® connectors can be specified as either fully loaded, to include the connector body and a variety of pre-loaded contact termination types or the empty body and a selection of separately specified and ordered contacts. The table below details the various loose contacts available.

Contact Style	Description	Plating Specification	Order Code
 * Ordered separately	Crimp Contact Loose	0.25µM Gold All Over (Standard) 0.25µM Gold Nose & Tail (Optional)	60 8017 0313 00 339 60 8017 0313 00 042
 Ordered separately	Crimp Contact End Carrier (1800 Contacts per reel)	0.25µM Gold All Over (Standard) 0.25µM Gold Nose & Tail (Optional) 0.25µM Gold All Over (Standard) 0.25µM Gold Nose & Tail (Optional)	60 8017 0323 99 339 60 8017 0323 99 042 60 8017 0323 00 339** 60 8017 0323 00 042**
Tail Section – 2.49 x 0.61 (0.098 x 0.024)  * If fitted type 217	Solder Tag Contact	0.25µM Gold All Over (Standard)	60 8017 0513 00 339
Tail Section – 1.27 x 0.63 (0.025 x 0.005)  If fitted type 218	14.4mm Maxiwrap Contact	0.25µM Gold All Over (Standard)	60 8017 0613 00 339
Tail Section – 1.27 x 0.63 (0.025 x 0.005)  If fitted type 750	19.3mm Maxiwrap Contact	0.25µM Gold All Over (Standard)	60 8017 0623 00 339
Tail Section – 0.635 x 0.63 (0.025 x 0.005)  If fitted type 296	14.0 Miniwrap Contact	0.25µM Gold All Over (Standard)	60 8017 0633 00 339
Tail Section – 0.635 x 0.63 (0.025 x 0.005)  * If fitted type 504	4.3mm PC Solder Contact for ø 1.00 mm P.T.H.	0.25µM Gold All Over (Standard)	60 8017 0663 00 339

* Indicates standard contact

Plating code 343 = 0.50 µm Gold all over

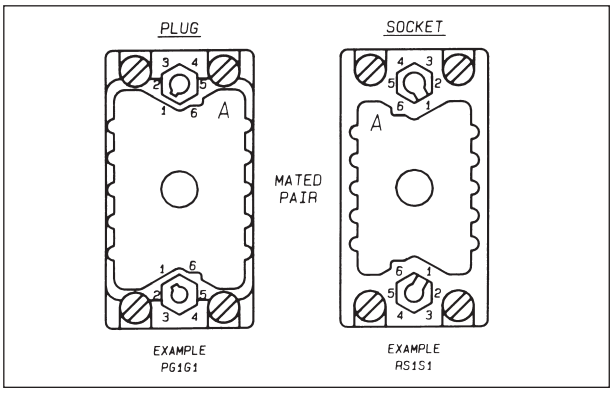
** Order code to be used when purchasing through a USA source.

CONNECTOR POLARIZATION

Varicon® 8016 Series connectors are designed with an integral polarizing system to ensure in high density environments that the correct halves are mated together.

As a factory standard, male plugs are set to the code PG1G1, with the female receptacles being set to the opposite matching code RS1S1.

Customers who need to change the standard polarization to another position can do so by using hand tool 06 1989 02 00 0000, or, by ordering the connectors with the required polarization (eg: PG1G4 or RS2S5, etc) When ordering a different polarization from normal, the polarization is called out at the end of the part number (Ex: 00 8016 056 000 601PG2G4, etc).



ORDERING CODE

P	G	1	G	1
Type of Connector Half Plug = P Socket = R	**Location Side (Large Dia.)** Guide Pin = G Guide Socket = S	**Positions** 1 through 6	**Location Side (Small Dia.)** Guide Pin = G Guide Socket = S	**Positions** 1 through 6

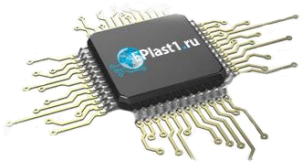
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
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