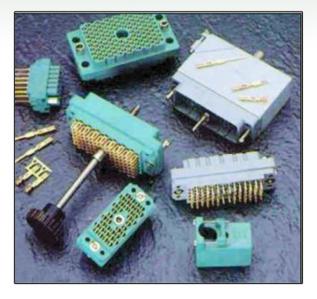
# EDAC

# **SERIES 516**



## FEATURES

UL Recognized.

.150 (3.81) Contact Spacing x .150 (3.81) Row Spacing with Staggered Gold

Plug & 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 or 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

Insultator Material: Thermoplastic Polyester or Diallyl Phthalate, UL 94V-0, Colour: Green, or Polycarbonate, Colour: Grey

Contact Material: Phosphor Bronze Alloy CA-510

Contact Plating: Gold over Nickel

Cover Material: Poly Carbonate, 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

## Example Part Number 516 - 038 - 500 - 2 1 2

Series	
Total Number of Contacts	
Contact Code	
Style and Material	
Cover Code	
Hardware Code	

#### Series 516

Series 516		
Total Number of	Contacts 02	0, 038, 056, 090 or 120
Contact Code	Description & Tail Size	Tail Length "G"
000	No Contacts Assembled	
500	Wire Hole .110 x .024 (2.79 x 0.61)	.245 (6.22)
520	P.C. Tail .025 x .024 (0.64 x 0.61)	.215 (5.46)
540	Wire Wrap .050 x 024 (1.27 x 0.61)	.600 (15.24)
541	Wire Wrap .026 x .024 ( 0.66 x 0.61	1) .620 (15.75)
542	Wire Wrap .050 x .024 (1.27 x .061	) .790 (20.07)
Style & Material	Style	Insulator Material
1	Plug	Green Diallyl Phthalate
2	Receptacle	Green Diallyl Phthalate
3	Plug	Grey Polycarbate
4	Receptacle	Grey Polycarbate
5	Plug	Green Polyester
6	Receptacle	Green Polyester
Cover Code		Description
0		No Cover Assembled
1	Plastic Cover, Top	Entry Standard Clamp
2	Plastic Cover, Side	e Entry Standard Clamp
3	Plastic Cover,	Top Entry Large Clamp
4	Plastic Cover, S	Side Entry Large Clamp
5	,	Metal Cover, Side Entry
6		Metal Cover, Top Entry
Hardware Code		Description
0	No	Hardware Assembled
1	Actuating Screw a	nd Polarizing Hardware
2	Locknut a	nd Polarizing Hardware
5	Actuating Screw with	No Polarizing Hardware
6	Locknut with I	No Polarizing Hardware
Ordering Code N		
	re also available for tge 516 series co	
be ordered seperation	ately for pre-wired or select position	assembly.

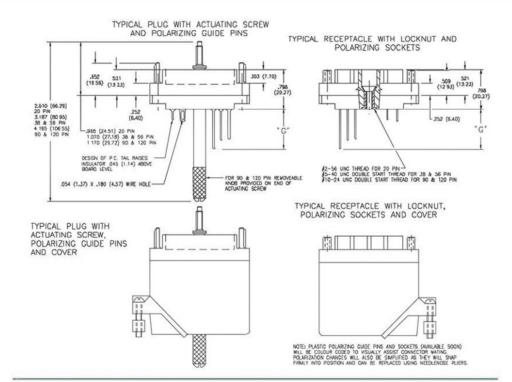
be ordered seperate	ly for pre-wired or select position	assembly.
Part Number	Description	Sillhouette
516-290-500	Wire Hole	
516-290-520	P.C. Tail	
516-290-540	Wire Wrap	
516-290-541	Wire Wrap	
516-290-542	Wire Wrap	
516-290-590	Crimp - Loose	
516-290-591	Crimp - 1800 Contacts	
	per reel	Continued on next page

Insulation Resistance: 5000 Milliohms Minimum

Operating Temperature: -65 to +125 Degrees C

Insertion and Withdrawal Force: 2 to 16 oz 0 (0.56 to 4.45 N) per Contact Position





#### **ORDERING CODE NOTES (Continued)**

- 2) For contact installation, removal and crimping tools, refer to page 72.
- 3) Grey polycarbonate insulator material is not available for the 120 pin size connector.
- 4) The 20 pin connector cover will not accept the length of the wire wrap contacts.
- 5) Plastic covers with large clamps are only available for the 38 and 56 pin size connectors.
- Metal covers with side entry may be converted to top entry by removing side plate and changing clamp orientation.
   Covers may be ordered separately. Refer to page 88.
- 8) Insulator design prevents improper mating of individual plug and receptacle. Polarizing hardware enables specific plug and receptacle mating combinations.

## CRIMP CHARACTERISTICS

- Contacts and Crimp Tools Accommodate from 28 AWG to 18 AWG, Solid or Stranded Conductor Diameters from .012 (0.30) to .049 (1.25) and an Insulation Diameter up to .074 (1.88)
- Multiple Smaller Gauge Wires may be Crimped Together
   Crimp Resistance from 0.5 Milliohms (18 AWG) to 1.5
- Milliohms (28AWG)

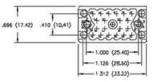
#### POLARIZING CODES

- Polarizing Hardware Changes allow 288 Mating Combinations
   Standard Code Supplied for Plugs PG1G1, for Receptacles
- RS1S1. Connectors with Special Polarizing Codes Available upon Request Ρ G452
- Example Polarizing Code:
- Type of Connector P - Plug, R - Receptacle Large Diameter Hardware G - Guide Pin (at Contact Position "A" End) H - Guide Pin (at Last Contact Position End) S - Socket (at Contact Postion "A" End) T - Socket (at Last Contact Position End) Position of Large Diameter Keyway - 1 through 6 Small Diameter Hardware (Opposite End from Large Diameter) G - Guide Pin, S - Socket Position of Small Diameter Keyway - 1 through 6 This Example Mates with Code RS4G2
- Crimp Tensile Strength for Wire Sizes 18 AWG - 40 lbs (178 N) 22 AWG - 15 lbs (67 N) 20 AWG - 25 lbs (111 N) 24 AWG - 10 lbs (44 N) 28 AWG - 3 lbs (13 N) 26 AWG - 5 lbs (22 N)

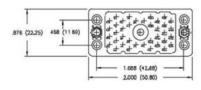


## CONNECTOR MATING FACE VIEWS DIMENSIONS INDICATED FOR EACH SIZE APPLY TO BOTH PLUG AND RECEPTACLE

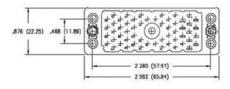
20 PIN RECEPTACLE



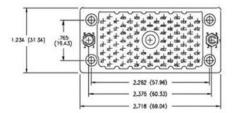
38 PIN RECEPTACLE



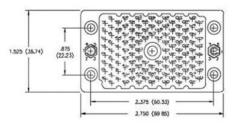
56 PIN RECEPTACLE

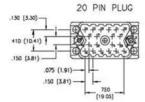


90 PIN RECEPTACLE

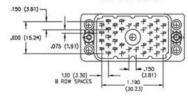


120 PIN RECEPTACLE

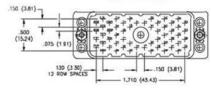




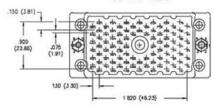
38 PIN PLUC



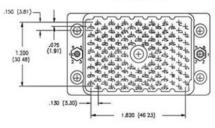
56 PIN PLUG



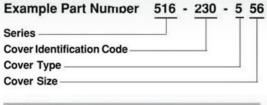
90 PIN PLUG



120 PIN PLUG



_		



Series 516

Cover Identification Code 230

Cover Type	<sup>1,2</sup> Description
1	Plastic Cover, Side Entry Standard Clamp
2	Plastic Cover, Top Entry Standard Clamp
3	Plastic Cover, Side Entry Large Clamp
4	Plastic Cover, Top Entry Large Clamp
5	Metal Cover, Side Entry
6	Metal Cover, Top Entry
7	Metal Cover, Large Clamp
Cover Size	Fits Connector

Cover Size	Fits Connector
12	516 Series 120 Pin
20	516 Series 20 Pin and 519 Series 14 Pin
38	516 Series 38 Pin and 519 Series 36 Pin
56	516 Series 56 Pin
90	516 Series 90 Pin

## Ordering Code Notes

- 1) Plastic covers with large clamps are only available for the 38 and 56 pin size connectors.
- Metal covers with side entry may be converted to top entry by removing side plate and changing clamp orientation.

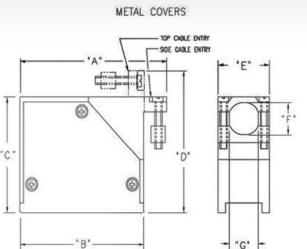
#### Features

Available in Metal (Die-Cast Zinc Finished with Grey Enamel Paint) or Plastic (Green Polycarbonate) Material

Covers with Top or Side Entry Cable Clamp. Orientation of Clamp on Metal Covers may be changed by the Customer

Versatile Metal Cover Design permits Assembly or Disassembly after Cabling is Complete Screws for Securing Cover to 516 or 519 Series

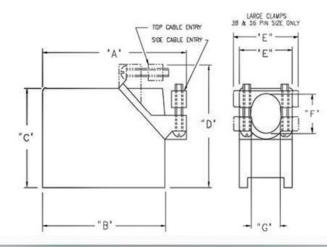
Connectors Supplied



"B"

SCREWS FOR SECURING THE COVER TO THE CONNECTOR ARE SUPPLIED BY EDAC

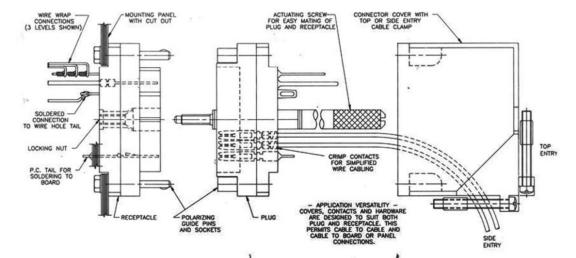
## PLASTIC COVERS



COVERFOR COVER		CLAMP	",	A"		В"	"	C"	"	D"	"	E"		F"	"(	G"
CONNECTOR		SIZE	Inch	(mm)	Inch	(mm)	Inch	(mm)								
20 Pin	Plastic	Standard	1.605	(40.77)	1.325	(33.66)	.906	(23.01)	1.190	(30.23)	.715	(18.16)	.450	(11.43)	.450	(11.43)
20 Pin	Metal	Standard	1.539	(39.09)	1.325	(33.66)	.906	(23.01)	1.120	(28.45)	.686	(17.42)	.446	(11.33)	.490	(12.45)
38 Pin	Plastic	Standard	2.460	(62.48)	2.010	(51.05)	1.530	(38.86)	1.985	(50.42)	.910	(23.11)	.650	(16.51)	.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)	.650	(16.51)	.608	(15.44)
38 Pin	Metal	Standard	2,206	(56.03)	2.006	(50.95)	1.566	(39.78)	1.766	(44.86)	.875	(22.23)	.720	(18.29)	.575	(14.61)
56 Pin	Plastic	Standard	3.052	(77.52)	2.602	(66.09)	1.530	(38.86)	1.985	(50.42)	.910	(23.11)	.650	(16.51)	.500	(12.70)
56 Pin	Plastic	Large	3.052	(77.52)	2.602	(66.09)	1.530	(38.86)	1.985	(50.42)	1.110	(28.19)	.650	(16.51)	.608	(15.44)
56 Pin	Metal	Standard	2.802	(71.17)	2.602	(66.09)	1.566	(39.78)	1.766	(44.86)	.875	(22.23)	.720	(18.29)	.575	(14.61)
90 Pin	Plastic	Standard	3.124	(79.35)	2.718	(69.04)	1.775	(45.09)	2.181	(55.40)	1.250	(31.75)	.800	(20.32)	.800	(20.32)
90 Pin	Metal	Standard	3.118	(79.20)	2.718	(69.04)	1.775	(45.09)	2.175	(55.25)	1.234	(31.34)	.880	(22.35)	.900	(22.86)
120 Pin	Plastic	Standard	3.156	(80.16)	2.750	(69.85)	2.020	(51.31)	2.426	(61.62)	1.530	(38.86)	.800	(20.32)	1.080	(27.43
120 Pin	Metal	Standard	3.175	(80.65)	2.750	(69.85)	2.020	(51.31)	2.445	(62.10)	1.531	(38.89)	.890	(22.61)	1.080	(27.43

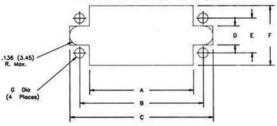
# **SERIES 516**





RACK AND PANEL CONNECTORS

516 / 519 SERIES CONNECTOR "PANEL MOUNTING CUT-OUT



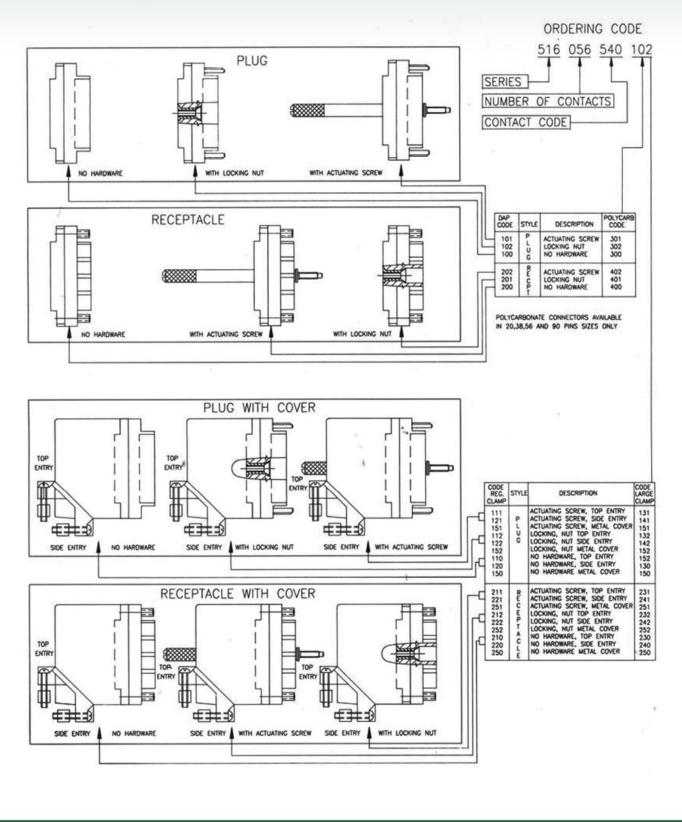
## **516 SERIES CONNECTOR CUT OUTS**

CONNECTOR SIZE			в		C		D		E		F		G Dia	
20 pin	.960	(24.38)	1.126	(28.6)	1.270	(32.26)	.260	(6.60)	.410	(10.41)	.640	(16.26)	.104	(2.64)
38 pin	1.420	(36.07)	1.688	(42.87)	1.958	(49.73)	.260	(6.60)	.468	(11.89)	.816	(20.73)	.136	(3.45)
56 pin	1.940	(49.28)	2.280	(57.91)	2.550	(64.77)	.260	(6.60)	468	(11.89)	.816	(20.73)	.136	(3.45)
90 pin	2.050	(52.07)	2.282	(57.96)	2.675	(67.95)	.300	(7.62)	765	(19.43)	1.120	(36.07)	.136	(3.45)
120 pin	2.050	(52.07)	2.375	(60.32)	2.675	(67.95)	.300	(7.62)	875	(22.22)	1.420	(36.07)	.156	(3.96)

## **519 SERIES CONNECTOR CUT OUTS**

CONNECTOR	Conception and the second second		c	D	E	F	G Dia	
14 pin	.960 (24.38)	1.126 (28.6)	1.270 (32.26)	.260 (6.60)	.410 (10.41)	.640 (16.26)	.104 (2.64)	
36 pin	1.420 (36.07)	1.688 (42.87)	1.958 (49.73)	.260 (6.60)	.468 (11.89)	.816 (20.73)	.136 (3.45)	





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