

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

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

SERIES 516

Series			139.11
Total Number of Contacts			ı
Contact Code			
Style and Material	- 2		ı
Cover Code		1.110	J
Hardware Code			
Series 516			

Example Part Number 516 - 038 - 500 - 2.1.2

Total Number o	38, 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)	.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 Entry Standard Clamp
3	Plastic Cover, Top Entry Large Clamp
4	Plastic Cover, Side Entry Large Clamp
5	Metal Cover, Side Entry
6	Metal Cover, Top Entry

Hardware Code	Description
0	No Hardware Assembled
1	Actuating Screw and Polarizing Hardware
2	Locknut and Polarizing Hardware
5	Actuating Screw with No Polarizing Hardware
6	Locknut with No Polarizing Hardware

Ordering Code Notes

Crimp contacts are also available for tge 516 series connectors. Contacts be ordered separately for pre-wired or select position assembly.

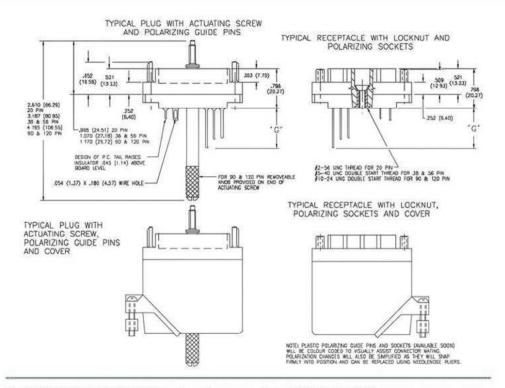
Part Number	Description	Sillhouette
516-290-500	Wire Hole	
516-290-520	P.C. Tail	
516-290-540	Wire Wrap	
516-290-541	Wire Wrap	
516-290-542	Wire Wrap	
516-290-590	Crimp - Loose	[h_I]
516-290-591	Crimp - 1800 Contacts	
	per reel	Continued on next page

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
- 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.
- 6) Metal covers with side entry may be converted to top entry by removing side plate and changing clamp orientation.
 7) 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 Example Polarizing Code: G 4 S 2

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

Crimp Tensile Strength for Wire Sizes

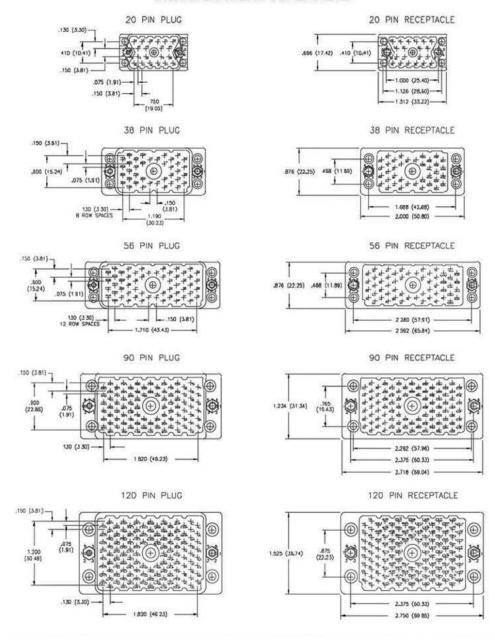
This Example Mates with Code RS4G2

18 AWG - 40 lbs (178 N) 22 AWG - 15 lbs (67 N) 26 AWG - 5 lbs (22 N) 20 AWG - 25 lbs (111 N) 24 AWG - 10 lbs (44 N) 28 AWG - 3 lbs (13 N)

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CONNECTOR MATING FACE VIEWS DIMENSIONS INDICATED FOR EACH SUZE APPLY TO BOTH PLUG AND RECEPTACE





Example Part Number 516 - 230 - 5 56

Series

Cover Identification Code

Cover Type

Cover Size

Series 516

Cover Identification Code 230

Cover	Type 1,2 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
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

- 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.

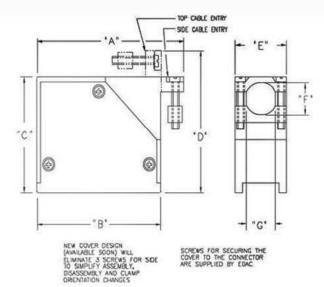
Features

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

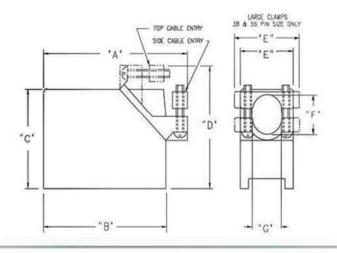
Covers with Top or Side Entry Cable Clamp. Orientation of Clamp on Metal Covers may be changed by the Customer

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

METAL COVERS



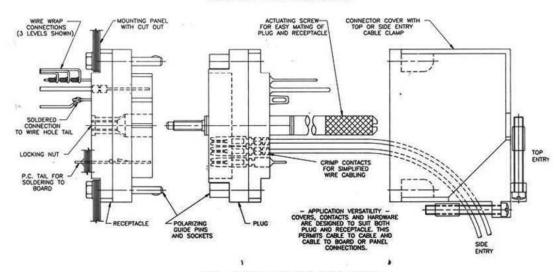
PLASTIC COVERS



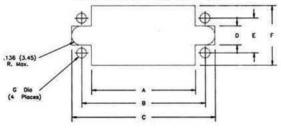
COVERFOR COVER CONNECTOR MATERIAL	COVER	CLAMP	"	Α"		В"	"(C"	"	D"	,	E"	**	F"	"(G"
	SIZE	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)	
20 Pin	Plastic	Standard	1.605	(40.77)	1.325	(33.66)	.906	(23.01)	1.190	(30.23)	.715	(18.16)	.450	(11.43)	.450	(11.43)
20 Pin	Metal	Standard	1.539	(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)
120Pin	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)



RACK AND PANEL CONNECTORS



516 / 519 SERIES CONNECTOR * PANEL MOUNTING CUT-OUT



516 SERIES CONNECTOR CUT OUTS

CONNECTOR SIZE	A		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 pm	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	A	В	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 pm	1.420 (36.07)	1.688 (42.87)	1.958 (49.73)	.260 (6.60)	.468 (11.89)	.816 (20.73)	.136 (3.45)	



