

High Current Capacity

The connector's advanced contact design achieves its 800A* continuous rating by utilizing an arrangement of 29 transfer bridges. Each transfer bridge is rated at 30A, giving a total of 870A* per contact.

International Electrical Color Coding Standards

Region	Earth Key E	Neutral Key N	Line 1 Key 1	Line 2 Key 2	Line 3 Key 3
Europe & UK (Harmonized)					
UK (Traditional)					
Australia					
USA					



Range - Key Specifications

No of Contacts:	1				
Maximum Continuous Current Rating*:	Up to 800A				
Surge Current:	75kA				
Short Circuit Rating:	Up to 35.5kA				
Cables Cross Sectional Area C.S.A.:	25 mm² to 300 mm²				
Contact Termination:	Screw or Crimp				
Mating Method:	Bayonet Lock				
Operating Voltage:	1000V AC				
Max Rated Voltage to Earth:	2kV AC / 3kV DC				
Minimum Flashover:	9.5kV DC or AC Peak				
Insulation Resistance:	> 5M ohms @ 500V DC				
Ingress Protection**:	IP67				
Protection against Electrical Shock:	IP2X				
Flammability:	UL94-V0				
Mating Cycles:	> 500				
Shell Material:	High Temperature Thermoplastic				
Contact Plating:	Silver				



^{*}Subject to environmental factors and cable choice etc.

^{**}In accordance with EN60529.

Single Pole Connectors

Sure-Seal single pole connectors are a popular choice for engineers working in harsh environments across the globe. With a rugged design and excellent reliability and quality, they are the go-to option for high-power systems in entertainment & industrial applications.

Design

These connectors are designed with impressive technical capabilities and added safety features in order to connect single and three-phase high-current power circuits. They are available in cable and panel-mount formats with either crimp or screw contacts.

Safety Features

Safety is of the utmost importance in high-current applications. Every Sure-Seal single pole connector features finger-proofed electrical contacts in order to cut down on the risk of accidental contact when a live current is running through it. They are rated at 500A and 800A for single core cables from 25 – 300 mm², ranking them among the safest connectors in their class. They also feature a secondary locking system which can only be unlocked with a key.



Key Features:

- IP67 ingress protection
- Flame retardant (UL94-V0)
- High impact bodies & high temperature-resistant materials
- Rubber hand grip for ease of coupling and added impact protection



- 800A maximum (505A UL Product)
- Color coded & mechanically keyed to prevent connection errors
- Locking mechanism to prevent accidental disconnection under load
- Finger-proof contacts to prevent access to electrical contacts when uncoupled (M & F)
- · Multipoint, self-wiping contact area
- Integral cable strain relief
- Metric EN-compliant cable glands, with increased cable clamping range
- No special tools required for assembly
- Daisy chain hook-up system
- Panel mount connector & mounting plates
- Rubber protective caps to protect connectors from moisture, dirt and abrasion when uncoupled (optional)



Sure-Seal Line Connectors

1	2		3		4		5	6		7	8
IPSLS		-	E	-	GN	-	S	120	-	M40A	-UL
SERIES	ORIENTATION		KEY POSITION		COLOR		CONTACT TYPE	CABLE SIZE		CABLE SEALING RANGE	UL RATING

SERIES

IPSLS = Line Source IPSLD = Line Drain

ORIENTATION

= Straight (leave blank for straight)

-RA = Right angled*

KEY POSITION

E = Earth

N = Neutral

1 = Line 1

2 = Line 2

3 = Line 3

COLOR

GN = Green BK = Black Y = Yellow BL = Blue GY = Grey W = White BN = Brown R = Red OR = Orange

* Right angled connectors available for 30-240 mm² cables

CONTACT TYPE

S = Set Screw

C = Crimp

L = Cable Lug (RA only)

AC = Bi Metal Crimp** (for use with Aluminum cable only)

CABLE SIZE

120 = 120 mm² 240 = 240 mm² 150 = 150 mm² 300 = 300 mm²

 $185 = 185 \text{ mm}^2$

additional sizes available upon request

CABLE SEALING RANGE

 $M40S = 15 - 23 \text{ mm}^2$ $M40B = 22 - 32 \text{ mm}^2$ $M40A = 19 - 28 \text{ mm}^2$ $M50 = 30 - 38 \text{ mm}^2$

UL RATING

= Standard (leave blank for non-UL)

-UL = UL Listed

non-UL | Set screw up to 150 mm², Crimp up to 300 mm²

UL | Set screw contacts up to 120 mm² (250 kcmil) Crimp up to 150 mm² (300 kcmil)

Sure-Seal Panel Connectors

1		2		3		4	5	
IPSPD	-	E	-	GN	-	T 5	-UL	
SERIES		KEY POSITION		COLOR		CONTACT TYPE	UL RATING	

SERIES

IPSPS = Panel Source IPSPD = Panel Drain

KEY POSITION

E = Earth

N = Neutral

1 = Line 1

2 = Line 23 = Line 3

COLOR

GN = Green BK = Black Y = Yellow BL = Blue GY = Grey W = White BN = Brown R = Red OR = Orange

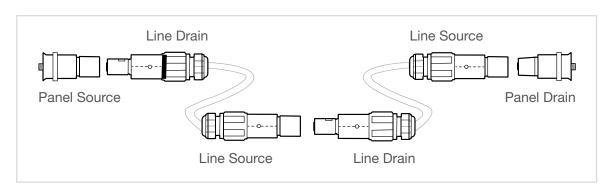
CONTACT TYPE

T5 = M12 Threaded Post (500A / 455A UL) T8 = M12 Threaded Post (800A / 600A UL)

UL RATING

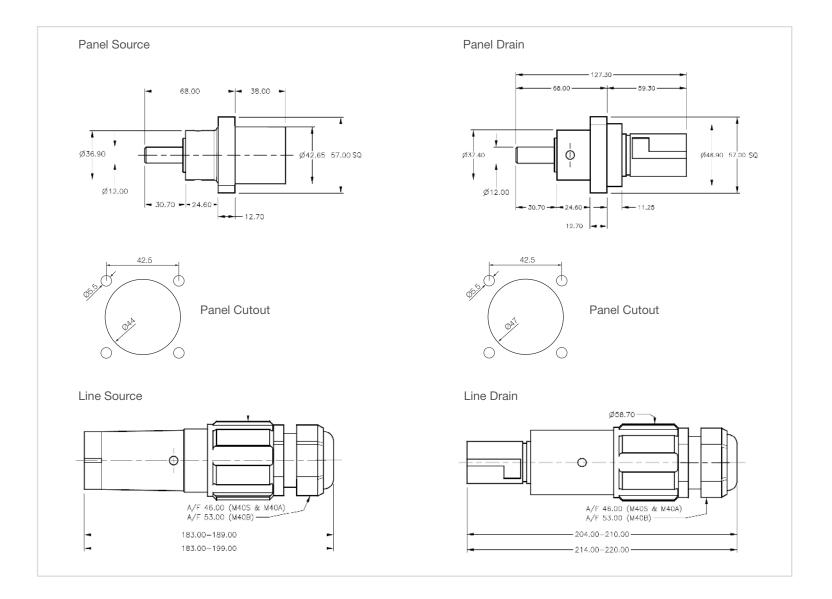
= Standard (leave blank for non-UL)

-UL = UL Listed



^{**} Bi metal contacts are not available for UL listed product and only available in 120 mm² - 150 mm²

Product Dimensions



Right Angled Connectors

Panel Mount Connectors. The device allows for reduced cable protrusion, this is a useful option where minimal space is available for connection of temporary power cables.

The Right Angled Connector is fully compatible with all other Sure-Seal connectors. Termination of the cable is simple with nothing more than spanner required. A cable lug can be locked onto a threaded post inside the backshell. Standard sizes are supplied with a 120 x M12 Lug. Source, and Drain configurations can be supplied. Other colors and sizes are available.

Sure-Seal Right Angled Connectors allow cables to be hung at 90 degrees when connected to









European Headquarters & Production Facility, Southampton, UK



Production Facility, Zhuhai, China



North American Production Facility, South Bend, IN



FilConn, Chandler, AZ



PEI-Genesis has sales offices throughout the Americas, Europe and Asia.

Visit www.peigenesis.com, call +1 800.675.1214 (North America), +44 (0) 23 8062 1260 (Europe), +86 756 7683 088 (Asia), +1 631.475.5050 (Rest of World), or email: sales@peigenesis.com.

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