



## PowerMod® HP “B” Series Singlepole Strain Relief Assembly Instructions

The optional “B” Series SP strain relief kit consists of six plastic parts and two metal screws as shown in the illustration below: top clamp, bottom clamp, 3/4" [19.0] insert(2), 1/2" [12.7] insert(2), and two self tapping screws. The outside diameter of the cable will determine which components are needed to properly strain relief the cable. Note that for illustration purposes, the color of the components may be different than shown.



### I) Strain Relief Insert Selection

The “B” Series SP strain relief is designed to be used with cable OD from .45 [11.4] to .84 [21.3]. In order to provide sufficient strain relief on a wide range of cable sizes, the strain relief kit comes with two different size inserts. Each insert may be placed in the top and bottom clamp in two different orientations, providing further range taking ability.

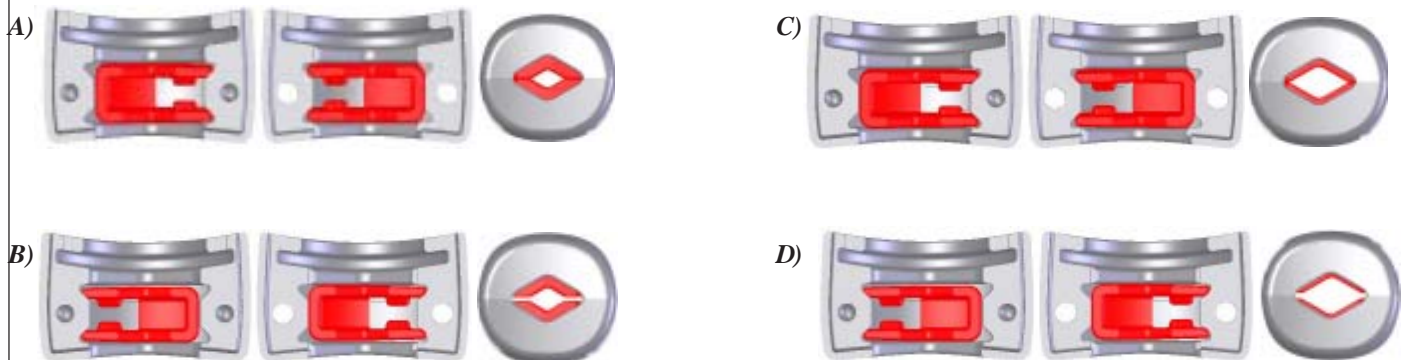
To determine the correct insert configuration for your cable:

1. Measure the outside diameter of the cable being used. Note that the outside diameter measurement should consist of conductor and insulation.
2. Find your cable size in the table below. Following across the row, select the inserts needed.
3. Line up the inserts with the clamp halves so that they are positioned per the picture defined in the chart.
4. Fit the two clamp halves together and measure the max opening and verify that it matches with the table.
5. If necessary to remove and rotate inserts, either lightly tap the clamp half with the insert facing down, or use a small screwdriver to pry out the insert.

**Table of Suggested Insert Configuration based on Cable Diameters**

Cable OD (in)	Cable OD (mm)	Insert Needed	Depth	Max Opening	Picture Match
.45-.58	11.4-14.7	1/2"	Shallow	.40[10.2]	A
.57-.67	14.5-17.0	1/2"	Deep	.51[13.0]	B
.65-.74	16.5-18.8	3/4"	Shallow	.60[15.2]	C
.74-.84	18.8-21.3	3/4"	Deep	.71[18.0]	D
.84-.94	21.3-23.9	NONE	N/A	.82[20.8]	E

**Note: the table above is to be used as a guideline for selecting inserts. The thickness and compressibility of the cable jacket will also affect insert selection.**



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#### II) Installation of cable clamp on Single Pole Housing

The "B" Series SP integral strain relief locks onto a flange on the back end of the SP male or female housing. The strain relief should be attached after the connector is assembled with the crimped contact/cable inserted and fixed in the housing with the keeper. Use of the strain relief is always recommended for right angle connectors.

1. Lay the connector/cable assembly flat on table.
2. Take either top or bottom clamp assembly and line up the groove in the cable clamp with the circular flange on the end of the connector housing.



3. The clamp should fit snugly against the back of the housing flange with no gap.



4. Install the other clamp half on the opposite side. Install the self tapping screws in the holes in the bottom clamp. Tighten the two screws equally. Torque each screw to 5 in-Lbs. (.057Nm) maximum to achieve sufficient strain relief.

**Note: Be careful not to over tighten the screws to prevent them from stripping.**

The illustrations below shows the connector with the correctly assembled strain relief.



\*Nm=.114 x inch-lbs

#### WARNING

NEVER WORK WITH LIVE CONDUCTORS

#### PATENTS AND TRADEMARKS

This product is Patent Pending.

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