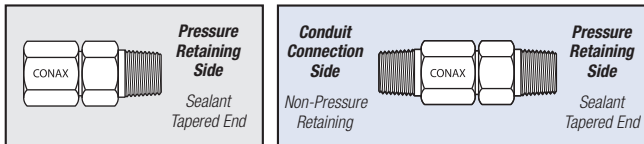


Conax Technologies Model PL (Power Lead) Glands seal on insulated leadwire for use in transformers, motors, conduit boxes and pressure/vacuum chambers and as power or instrument feedthroughs. The soft sealant technology seals against gases or liquids and resists element movement under pressure. Immersion length adjustments and easy replacement of elements can be accomplished in the field.

PL glands may be purchased with or without wire. If supplied with wire, solid copper wire with Kapton® insulation is standard. This is provided as 24" total with the gland centered at mid-point. Standard sealants are Grafoil or PTFE. Other materials for wire and sealants can be provided for special applications. Consult your Conax Technologies sales engineer for more information on available options.

Terminals can be furnished on all wire ends if specified, at additional cost. Bulk wire is available from Conax Technologies for field assembly of PL glands. (See the Accessories Section, page 102.)

PL gland bodies with NPT threads and SAE threads are constructed from 303SST standard. Weld-neck style gland bodies are constructed from 316LSST standard. Caps and followers for all styles are constructed from 303SST standard. Many optional materials are also available, including 316LSST, Monel 405, Hastelloy C276, Inconel and more. For information on alternative materials, see page 9. Cap Style A offers a mounting thread only. Cap Style B provides threading on both ends for attachment to conduit or terminal heads.



Type A has mounting thread only.

Type B has cap end threaded. B Cap NPT matches the standard mounting NPT.

Alternative sealant materials are available. Please consult a Conax Technologies sales engineer for custom needs.

- Temperature Range: -300° F to +450° F (-185° C to +232° C)
- Pressure Range: Vacuum to 10,000 PSIG (690 bar) – see Pressure Ratings in Specifications Chart.
- 600 Volts to 55 amps
- Seals 1-18 Wires
- Easy installation – no “potting”
- Wire Identification Markers applied
- Thermocouple Material conductors available, 18 gauge standard, other wire gauges optional

### Accessories

The replaceable sealant permits repeated use of the same fitting. Assembly is simple and may be done in the field. Simply insert the elements and torque the cap. To replace the sealant or elements, simply loosen the cap, replace the necessary items, relubricate and retorque the cap.

Glands are supplied factory lubricated. When reused, the glands should be relubricated to maintain the published torque and pressure ratings. If glands are cleaned prior to assembly, they should be relubricated. On weld mount models, the heat from the welding process will destroy the lubricant. These models must be relubricated prior to use. See page 103 for information on our lubrication kit.

Replacement Packing Sets are available. These consist of a sealant and two insulators. Replacement sealants may also be ordered separately.

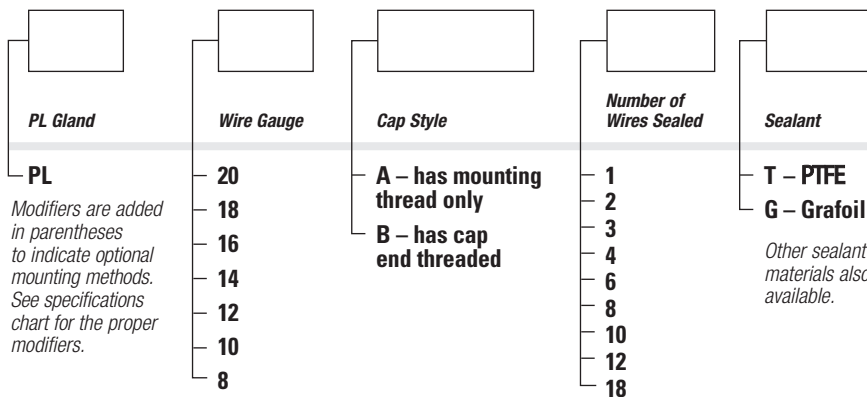
To order a Replacement Packing Set, order  
RPS – (Gland) – (Wire Gauge) – (Number of Holes) – (Sealant)

**Example: RPS-PL-12-3-T**

To order a Replacement Sealant only, order  
RS – (Gland) – (Wire Gauge) – (Number of Holes) – (Sealant)

**Example: RS-PL-12-3-T**

### Catalog Numbering System



Modifiers are added in parentheses to indicate optional mounting methods. See specifications chart for the proper modifiers.

PL Gland  
Wire Gauge  
Cap Style  
Number of Wires Sealed  
Sealant  
Wire Length  
Cap Side  
Wire Length Body Side

**Example: PL-12-A3-T, 24/36**

(With Non-Standard Wire Length)

**Example: PL-12-A3-T**

(With Standard Wire Length)

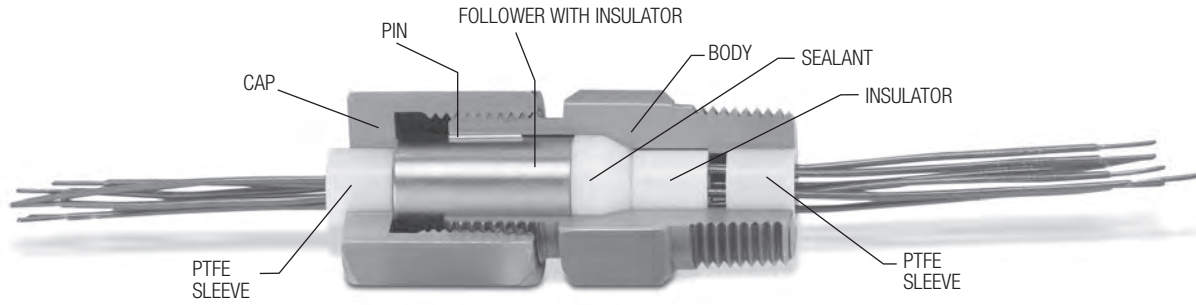
**Example: PL-18(J)-A2-T, 24/36**

(With Thermocouple Material Conductors)

**Example: PL-12-A3-T-XX**

(Without Conductors)

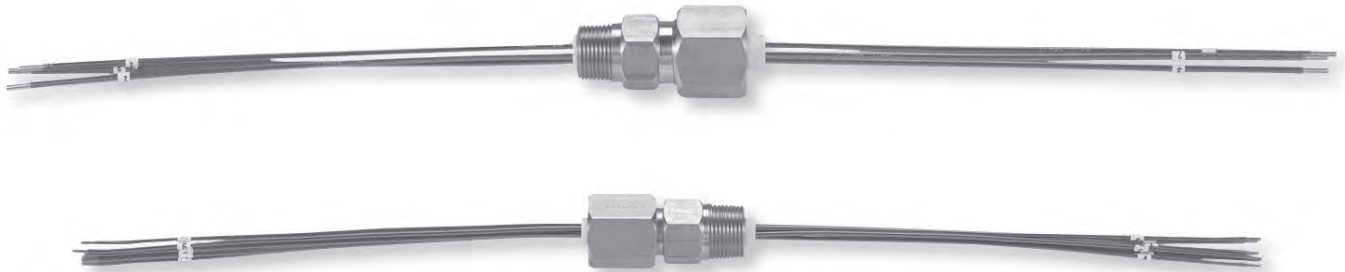
## INSULATED LEADWIRE (POWER LEAD) SEALING ■ PL SERIES



### PL Selection Guide

| Wire Gauge | Standard Number of Wires Offered |   |   |   |   |   |    |    |    |
|------------|----------------------------------|---|---|---|---|---|----|----|----|
|            | 1                                | 2 | 3 | 4 | 6 | 8 | 10 | 12 | 18 |
| 20         |                                  | X | X | X | X | X |    |    | X  |
| 18         | X                                | X | X | X | X | X | X  | X  |    |
| 16         |                                  | X | X | X | X | X | X  | X  |    |
| 14         | X                                | X | X | X | X | X | X  | X  |    |
| 12         |                                  | X | X | X | X |   |    |    |    |
| 10         |                                  | X | X | X |   |   |    |    |    |
| 8          |                                  | X | X |   |   |   |    |    |    |

The number of wires offered is dependent on the mounting port size. See the Specifications charts on the subsequent pages for details.

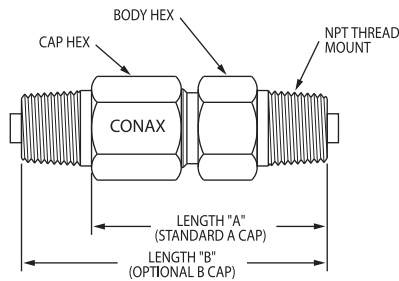


**thermo-electra**  
temperature sensor solutions

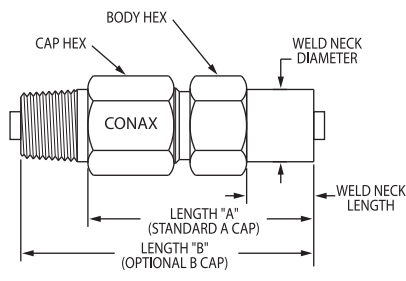
Thermo Electra B.V.  
Weteringweg 10  
2641KM Pijnacker  
The Netherlands

Phone +31 (0)15 - 3621200  
Fax +31 (0)15 - 3694082  
Email sales@thermo-electra.com  
http://www.thermo-electra.com

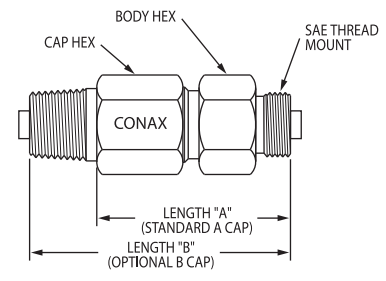




**Standard NPT**



**Weld Neck Mount**



**SAE Thread Mount**

| Catalog Number   | Wire Gauge | Number of Wires | Amperage Rating Per Wire | Length 'A' |      | Length 'B' |      | Hex Size |        |         |        | Pressure Rating |     |       |     |
|--|------------|-----------------|--------------------------|------------|------|------------|------|----------|--------|---------|--------|-----------------|-----|-------|-----|
|  |            |                 |                          | IN         | MM   | IN         | MM   | Body IN  | Cap IN | Body MM | Cap MM | PSIG            | BAR | PSIG  | BAR |
| <b>Standard 1/8 NPT</b>                                  |            |                 |                          |            |      |            |      |          |        |         |        |                 |     |       |     |
| PL-18-1  | 18         | 1               | 13                       | 1.38       | 35.1 | 1.75       | 44.5 | 0.500    | 0.563  | 12.7    | 14.3   | 10,000          | 689 | 1,600 | 110 |
| PL-14-1  | 14         | 1               | 24                       | 1.38       | 35.1 | 1.75       | 44.5 | 0.500    | 0.563  | 12.7    | 14.3   | 10,000          | 689 | 800   | 55  |
| <b>Weld Neck (Weld Neck Length 0.39, Diameter 0.405)</b> |            |                 |                          |            |      |            |      |          |        |         |        |                 |     |       |     |
| PL(SWM1/S316L)-18-1                                      | 18         | 1               | 13                       | 1.38       | 35.1 | 1.75       | 44.5 | 0.500    | 0.563  | 12.7    | 14.3   | 10,000          | 689 | 1,600 | 110 |
| PL(SWM1/S316L)-14-1                                      | 14         | 1               | 24                       | 1.38       | 35.1 | 1.75       | 44.5 | 0.500    | 0.563  | 12.7    | 14.3   | 10,000          | 689 | 800   | 55  |
| <b>SAE 7/16 -20 Thread Mount (formerly MS)</b>           |            |                 |                          |            |      |            |      |          |        |         |        |                 |     |       |     |
| PL(MSE4)-18-1  | 18         | 1               | 13                       | 1.70       | 43.2 | 2.06       | 52.3 | 0.688    | 0.563  | 17.5    | 14.3   | 9,138           | 630 | 1,600 | 110 |
| PL(MSE4)-14-1  | 14         | 1               | 24                       | 1.70       | 43.2 | 2.06       | 52.3 | 0.688    | 0.563  | 17.5    | 14.3   | 9,138           | 630 | 800   | 55  |
| <b>Standard 1/2 NPT</b>                                  |            |                 |                          |            |      |            |      |          |        |         |        |                 |     |       |     |
| PL-20-2  | 20         | 2               | 9                        | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 5,000 | 345 |
| PL-20-3  | 20         | 3               | 9                        | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 5,000 | 345 |
| PL-20-4  | 20         | 4               | 9                        | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 5,000 | 345 |
| PL-18-2  | 18         | 2               | 13                       | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 4,000 | 276 |
| PL-18-3  | 18         | 3               | 13                       | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 4,000 | 276 |
| PL-18-4  | 18         | 4               | 13                       | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 4,000 | 276 |
| PL-16-2  | 16         | 2               | 17                       | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 3,000 | 207 |
| PL-16-3  | 16         | 3               | 17                       | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 3,000 | 207 |
| PL-16-4  | 16         | 4               | 17                       | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 3,000 | 207 |
| PL-14-2  | 14         | 2               | 24                       | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 1,500 | 103 |
| PL-14-3  | 14         | 3               | 24                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 2,000 | 138 |
| PL-14-4  | 14         | 4               | 24                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 1,600 | 110 |
| <b>Optional 1/4 NPT</b>                                  |            |                 |                          |            |      |            |      |          |        |         |        |                 |     |       |     |
| PL(PTM2)-20-2  | 20         | 2               | 9                        | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 5,000 | 345 |
| PL(PTM2)-20-3  | 20         | 3               | 9                        | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 5,000 | 345 |
| PL(PTM2)-20-4  | 20         | 4               | 9                        | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 5,000 | 345 |
| PL(PTM2)-18-2  | 18         | 2               | 13                       | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 4,000 | 276 |
| PL(PTM2)-18-3  | 18         | 3               | 13                       | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 4,000 | 276 |
| PL(PTM2)-18-4  | 18         | 4               | 13                       | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 4,000 | 276 |
| PL(PTM2)-16-2  | 16         | 2               | 17                       | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 3,000 | 207 |
| PL(PTM2)-16-3  | 16         | 3               | 17                       | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 3,000 | 207 |
| PL(PTM2)-16-4  | 16         | 4               | 17                       | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 3,000 | 207 |
| PL(PTM2)-14-2  | 14         | 2               | 24                       | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 1,500 | 103 |

Note: the pressure and torque ratings provided in this catalog apply only when bores are drilled by Conax Technologies.

\* Hex size for the body and cap are the same unless a cap size is provided in parentheses.

\*\* Weld neck models require lubrication prior to use.



# 5001D

## INSULATED LEADWIRE (POWER LEAD) SEALING ■ PL SERIES

| Catalog Number   | Amperage   |                 |                 | Length 'A' |      | Length 'B' |      | Hex Size |        |         |        | Pressure Rating |     |       |     |
|--|------------|-----------------|-----------------|------------|------|------------|------|----------|--------|---------|--------|-----------------|-----|-------|-----|
|  | Wire Gauge | Number of Wires | Rating Per Wire | IN         | MM   | IN         | MM   | Body IN  | Cap IN | Body MM | Cap MM | Grafoil         |     | PTFE  |     |
|  |            |                 |                 |            |      |            |      |          |        |         |        | PSIG            | BAR | PSIG  | BAR |
| <b>Weld Neck (Weld Neck Length 0.78", Diameter 0.840")</b> |            |                 |                 |            |      |            |      |          |        |         |        |                 |     |       |     |
| PL(SWM4/S316L)-20-2  | 20         | 2               | 9               | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 5,000 | 345 |
| PL(SWM4/S316L)-20-3  | 20         | 3               | 9               | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 5,000 | 345 |
| PL(SWM4/S316L)-20-4  | 20         | 4               | 9               | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 5,000 | 345 |
| PL(SWM4/S316L)-18-2  | 18         | 2               | 13              | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 4,000 | 276 |
| PL(SWM4/S316L)-18-3  | 18         | 3               | 13              | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 4,000 | 276 |
| PL(SWM4/S316L)-18-4  | 18         | 4               | 13              | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 4,000 | 276 |
| PL(SWM4/S316L)-16-2  | 16         | 2               | 17              | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 3,000 | 207 |
| PL(SWM4/S316L)-16-3  | 16         | 3               | 17              | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 3,000 | 207 |
| PL(SWM4/S316L)-16-4  | 16         | 4               | 17              | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 3,000 | 207 |
| PL(SWM4/S316L)-14-2  | 14         | 2               | 24              | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 10,000          | 689 | 1,500 | 103 |
| PL(SWM4/S316L)-14-3  | 14         | 3               | 24              | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 2,000 | 138 |
| PL(SWM4/S316L)-14-4  | 14         | 4               | 24              | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 1,600 | 110 |
| <b>SAE 3/4-16 Thread Mount (formerly MS)</b>               |            |                 |                 |            |      |            |      |          |        |         |        |                 |     |       |     |
| PL(MSE8)-20-2  | 20         | 2               | 9               | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 9,138           | 630 | 5,000 | 345 |
| PL(MSE8)-20-3  | 20         | 3               | 9               | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 9,138           | 630 | 5,000 | 345 |
| PL(MSE8)-20-4  | 20         | 4               | 9               | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 9,138           | 630 | 5,000 | 345 |
| PL(MSE8)-18-2  | 18         | 2               | 13              | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 9,138           | 630 | 4,000 | 276 |
| PL(MSE8)-18-3  | 18         | 3               | 13              | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 9,138           | 630 | 4,000 | 276 |
| PL(MSE8)-18-4  | 18         | 4               | 13              | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 9,138           | 630 | 4,000 | 276 |
| PL(MSE8)-16-2  | 16         | 2               | 17              | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 9,138           | 630 | 3,000 | 207 |
| PL(MSE8)-16-3  | 16         | 3               | 17              | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 9,138           | 630 | 3,000 | 207 |
| PL(MSE8)-16-4  | 16         | 4               | 17              | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 9,138           | 630 | 3,000 | 207 |
| PL(MSE8)-14-2  | 14         | 2               | 24              | 2.63       | 66.7 | 3.38       | 85.7 | 1.000    | 1.000  | 25.4    | 25.4   | 9,138           | 630 | 1,500 | 103 |
| <b>SAE 7/8-14 Thread Mount (formerly MS)</b>               |            |                 |                 |            |      |            |      |          |        |         |        |                 |     |       |     |
| PL(MSE10)-14-3   | 14         | 3               | 24              | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 7,600           | 524 | 2,000 | 138 |
| PL(MSE10)-14-4   | 14         | 4               | 24              | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 7,600           | 524 | 1,600 | 110 |
| <b>Standard 3/4 NPT</b>                                    |            |                 |                 |            |      |            |      |          |        |         |        |                 |     |       |     |
| PL-20-6  | 20         | 6               | 9               | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 3,200 | 220 |
| PL-20-8  | 20         | 8               | 9               | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 3,200 | 220 |
| PL-20-18   | 20         | 18              | 9               | 2.88       | 73.0 | 3.63       | 92.1 | 1.250    | 1.500  | 31.8    | 38.1   | 10,000          | 689 | 2,400 | 165 |
| PL-18-6  | 18         | 6               | 13              | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 2,700 | 186 |
| PL-18-8  | 18         | 8               | 13              | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 2,700 | 186 |
| PL-18-10   | 18         | 10              | 13              | 2.88       | 73.0 | 3.63       | 92.1 | 1.250    | 1.500  | 31.8    | 38.1   | 10,000          | 689 | 2,100 | 145 |
| PL-18-12   | 18         | 12              | 13              | 2.88       | 73.0 | 3.63       | 92.1 | 1.250    | 1.500  | 31.8    | 38.1   | 10,000          | 689 | 2,100 | 145 |
| PL-16-6  | 16         | 6               | 17              | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 2,700 | 186 |
| PL-16-8  | 16         | 8               | 17              | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 2,700 | 186 |
| PL-16-10   | 16         | 10              | 17              | 2.88       | 73.0 | 3.63       | 92.1 | 1.250    | 1.500  | 31.8    | 38.1   | 10,000          | 689 | 1,700 | 117 |
| PL-16-12   | 16         | 12              | 17              | 2.88       | 73.0 | 3.63       | 92.1 | 1.250    | 1.500  | 31.8    | 38.1   | 10,000          | 689 | 1,700 | 117 |
| PL-14-6  | 14         | 6               | 24              | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 1,600 | 110 |
| PL-14-8  | 14         | 8               | 24              | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 1,600 | 110 |
| PL-14-10   | 14         | 10              | 24              | 2.88       | 73.0 | 3.63       | 92.1 | 1.250    | 1.500  | 31.8    | 38.1   | 10,000          | 689 | 1,400 | 96  |
| PL-14-12   | 14         | 12              | 24              | 2.88       | 73.0 | 3.63       | 92.1 | 1.250    | 1.500  | 31.8    | 38.1   | 10,000          | 689 | 1,400 | 96  |
| PL-12-2  | 12         | 2               | 30              | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 8,800           | 606 | 1,200 | 83  |
| PL-12-3  | 12         | 3               | 30              | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 8,800           | 606 | 1,200 | 83  |
| PL-12-4  | 12         | 4               | 30              | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 8,800           | 606 | 1,200 | 83  |
| PL-12-6  | 12         | 6               | 30              | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 8,800           | 606 | 1,200 | 83  |
| PL-10-2  | 10         | 2               | 40              | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 8,000           | 551 | 1,200 | 83  |
| PL-10-3  | 10         | 3               | 40              | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 8,000           | 551 | 1,200 | 83  |
| PL-10-4  | 10         | 4               | 40              | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 8,000           | 551 | 1,200 | 83  |
| PL-8-2   | 8          | 2               | 55              | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 8,000           | 551 | 800   | 55  |
| PL-8-3   | 8          | 3               | 55              | 2.88       | 73.0 | 3.63       | 92.1 | 1.250    | 1.500  | 31.8    | 38.1   | 8,000           | 551 | 800   | 55  |

All pressure and torque ratings were determined at 68° F (20° C) using solid Kapton-insulated copper conductors as the element. Pressure ratings may degrade at higher temperatures. Pressure rating guide values are provided for glands with elements restrained by the compressed sealant. Higher pressure may be attained with additional element restraints. Tolerance of tube or probe diameter is ±0.005. Deviation from the nominal may affect pressure ratings.

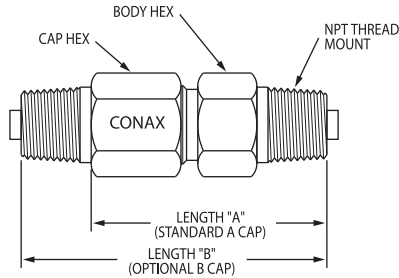


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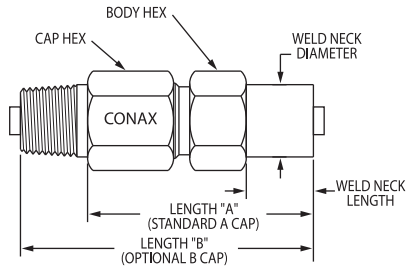
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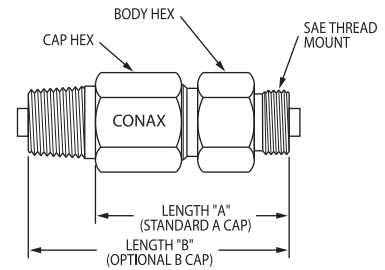




**Standard NPT**



**Weld Neck Mount**



**SAE Thread Mount**

| Catalog Number   | Wire Gauge | Number of Wires | Amperage Rating Per Wire | Length 'A' |      | Length 'B' |      | Hex Size |        |         |        | Pressure Rating |     |           |     |
|--|------------|-----------------|--------------------------|------------|------|------------|------|----------|--------|---------|--------|-----------------|-----|-----------|-----|
|  |            |                 |                          | IN         | MM   | IN         | MM   | Body IN  | Cap IN | Body MM | Cap MM | Grafoil PSIG    | BAR | PTFE PSIG | BAR |
| <b>Optional 1/2 NPT</b>                                    |            |                 |                          |            |      |            |      |          |        |         |        |                 |     |           |     |
| PL(PTM4)-20-6  | 20         | 6               | 9                        | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 3,200     | 220 |
| PL(PTM4)-20-8  | 20         | 8               | 9                        | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 3,200     | 220 |
| PL(PTM4)-18-6  | 18         | 6               | 13                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 2,700     | 186 |
| PL(PTM4)-18-8  | 18         | 8               | 13                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 2,700     | 186 |
| PL(PTM4)-16-6  | 16         | 6               | 17                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 2,700     | 186 |
| PL(PTM4)-16-8  | 16         | 8               | 17                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 2,700     | 186 |
| PL(PTM4)-14-6  | 14         | 6               | 24                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 1,600     | 110 |
| PL(PTM4)-14-8  | 14         | 8               | 24                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 1,600     | 110 |
| PL(PTM4)-12-2  | 12         | 2               | 30                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 8,800           | 606 | 1,200     | 83  |
| PL(PTM4)-12-3  | 12         | 3               | 30                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 8,800           | 606 | 1,200     | 83  |
| PL(PTM4)-12-4  | 12         | 4               | 30                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 8,800           | 606 | 1,200     | 83  |
| PL(PTM4)-12-6  | 12         | 6               | 30                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 8,800           | 606 | 1,200     | 83  |
| PL(PTM4)-10-2  | 10         | 2               | 40                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 8,000           | 551 | 1,200     | 83  |
| PL(PTM4)-10-3  | 10         | 3               | 40                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 8,000           | 551 | 1,200     | 83  |
| PL(PTM4)-10-4  | 10         | 4               | 40                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 8,000           | 551 | 1,200     | 83  |
| PL(PTM4)-8-2   | 8          | 2               | 55                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 8,000           | 551 | 800       | 55  |
| <b>Weld Neck (Weld Neck Length 0.79", Diameter 1.050")</b> |            |                 |                          |            |      |            |      |          |        |         |        |                 |     |           |     |
| PL(SWM5/S316L)-20-6  | 20         | 6               | 9                        | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 3,200     | 220 |
| PL(SWM5/S316L)-20-8  | 20         | 8               | 9                        | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 3,200     | 220 |
| PL(SWM5/S316L)-20-18                                       | 20         | 18              | 9                        | 2.88       | 73.0 | 3.63       | 92.1 | 1.250    | 1.500  | 31.8    | 38.1   | 10,000          | 689 | 2,400     | 165 |
| PL(SWM5/S316L)-18-6  | 18         | 6               | 13                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 2,700     | 186 |
| PL(SWM5/S316L)-18-8  | 18         | 8               | 13                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 2,700     | 186 |
| PL(SWM5/S316L)-18-10                                       | 18         | 10              | 13                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.250    | 1.500  | 31.8    | 38.1   | 10,000          | 689 | 2,100     | 145 |
| PL(SWM5/S316L)-18-12                                       | 18         | 12              | 13                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.250    | 1.500  | 31.8    | 38.1   | 10,000          | 689 | 2,100     | 145 |
| PL(SWM5/S316L)-16-6  | 16         | 6               | 17                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 2,700     | 186 |
| PL(SWM5/S316L)-16-8  | 16         | 8               | 17                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 2,700     | 186 |
| PL(SWM5/S316L)-16-10                                       | 16         | 10              | 17                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.250    | 1.500  | 31.8    | 38.1   | 10,000          | 689 | 1,700     | 117 |
| PL(SWM5/S316L)-16-12                                       | 16         | 12              | 17                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.250    | 1.500  | 31.8    | 38.1   | 10,000          | 689 | 1,700     | 117 |
| PL(SWM5/S316L)-14-6  | 14         | 6               | 24                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 1,600     | 110 |
| PL(SWM5/S316L)-14-8  | 14         | 8               | 24                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 10,000          | 689 | 1,600     | 110 |
| PL(SWM5/S316L)-14-10                                       | 14         | 10              | 24                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.250    | 1.500  | 31.8    | 38.1   | 10,000          | 689 | 1,400     | 96  |
| PL(SWM5/S316L)-14-12                                       | 14         | 12              | 24                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.250    | 1.500  | 31.8    | 38.1   | 10,000          | 689 | 1,400     | 96  |
| PL(SWM5/S316L)-12-2  | 12         | 2               | 30                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 8,800           | 606 | 1,200     | 83  |
| PL(SWM5/S316L)-12-3  | 12         | 3               | 30                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 8,800           | 606 | 1,200     | 83  |
| PL(SWM5/S316L)-12-4  | 12         | 4               | 30                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 8,800           | 606 | 1,200     | 83  |
| PL(SWM5/S316L)-12-6  | 12         | 6               | 30                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 8,800           | 606 | 1,200     | 83  |
| PL(SWM5/S316L)-10-2  | 10         | 2               | 40                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 8,000           | 551 | 1,200     | 83  |
| PL(SWM5/S316L)-10-3  | 10         | 3               | 40                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 8,000           | 551 | 1,200     | 83  |
| PL(SWM5/S316L)-10-4  | 10         | 4               | 40                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 8,000           | 551 | 1,200     | 83  |
| PL(SWM5/S316L)-8-2   | 8          | 2               | 55                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 8,000           | 551 | 800       | 55  |
| PL(SWM5/S316L)-8-3   | 8          | 3               | 55                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.250    | 1.500  | 31.8    | 38.1   | 8,000           | 551 | 800       | 55  |



# 5001D

## INSULATED LEADWIRE (POWER LEAD) SEALING ■ PL SERIES

| Catalog Number                         | Wire Gauge | Number of Wires | Amperage Rating Per Wire | Length 'A' |      | Length 'B' |      | Hex Size |        |         |        | Pressure Rating |     |       |     |
|--|------------|-----------------|--------------------------|------------|------|------------|------|----------|--------|---------|--------|-----------------|-----|-------|-----|
|  |            |                 |                          | IN         | MM   | IN         | MM   | Body IN  | Cap IN | Body MM | Cap MM | Grafoil         |     | PTFE  |     |
| SAE 7/8 -14 Thread Mount (formerly MS) |            |                 |                          |            |      |            |      |          |        |         |        |                 |     |       |     |
| PL(MSE10)-20-6                         | 20         | 6               | 9                        | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 7,600           | 524 | 3,200 | 220 |
| PL(MSE10)-20-8                         | 20         | 8               | 9                        | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 7,600           | 524 | 3,200 | 220 |
| PL(MSE10)-18-6                         | 18         | 6               | 13                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 7,600           | 524 | 2,700 | 186 |
| PL(MSE10)-18-8                         | 18         | 8               | 13                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 7,600           | 524 | 2,700 | 186 |
| PL(MSE10)-16-6                         | 16         | 6               | 17                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 7,600           | 524 | 2,700 | 186 |
| PL(MSE10)-16-8                         | 16         | 8               | 17                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 7,600           | 524 | 2,700 | 186 |
| PL(MSE10)-14-6                         | 14         | 6               | 24                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 7,600           | 524 | 1,600 | 110 |
| PL(MSE10)-14-8                         | 14         | 8               | 24                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 7,600           | 524 | 1,600 | 110 |
| PL(MSE10)-12-2                         | 12         | 2               | 30                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 7,600           | 524 | 1,200 | 83  |
| PL(MSE10)-12-3                         | 12         | 3               | 30                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 7,600           | 524 | 1,200 | 83  |
| PL(MSE10)-12-4                         | 12         | 4               | 30                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 7,600           | 524 | 1,200 | 83  |
| PL(MSE10)-12-6                         | 12         | 6               | 30                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 7,600           | 524 | 1,200 | 83  |
| PL(MSE10)-10-2                         | 10         | 2               | 40                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 7,600           | 524 | 1,200 | 83  |
| PL(MSE10)-10-3                         | 10         | 3               | 40                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 7,600           | 524 | 1,200 | 83  |
| PL(MSE10)-10-4                         | 10         | 4               | 40                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 7,600           | 524 | 1,200 | 83  |
| PL(MSE10)-8-2                          | 8          | 2               | 55                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.125    | 1.250  | 28.6    | 31.8   | 7,600           | 524 | 800   | 55  |

| Catalog Number                            | Wire Gauge | Number of Wires | Amperage Rating Per Wire | Length 'A' |      | Length 'B' |      | Hex Size |        |         |        | Pressure Rating |     |       |     |
|---|------------|-----------------|--------------------------|------------|------|------------|------|----------|--------|---------|--------|-----------------|-----|-------|-----|
|   |            |                 |                          | IN         | MM   | IN         | MM   | Body IN  | Cap IN | Body MM | Cap MM | Grafoil         |     | PTFE  |     |
| SAE 1-5/16 -12 Thread Mount (formerly MS) |            |                 |                          |            |      |            |      |          |        |         |        |                 |     |       |     |
| PL(MSE16)-20-18                           | 20         | 18              | 9                        | 2.88       | 73.0 | 3.63       | 92.1 | 1.625    | 1.500  | 41.3    | 38.1   | 5,802           | 400 | 2,400 | 165 |
| PL(MSE16)-18-10                           | 18         | 10              | 13                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.625    | 1.500  | 41.3    | 38.1   | 5,802           | 400 | 2,100 | 145 |
| PL(MSE16)-18-12                           | 18         | 12              | 13                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.625    | 1.500  | 41.3    | 38.1   | 5,802           | 400 | 2,100 | 145 |
| PL(MSE16)-16-10                           | 16         | 10              | 17                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.625    | 1.500  | 41.3    | 38.1   | 5,802           | 400 | 1,700 | 117 |
| PL(MSE16)-16-12                           | 16         | 12              | 17                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.625    | 1.500  | 41.3    | 38.1   | 5,802           | 400 | 1,700 | 117 |
| PL(MSE16)-14-10                           | 14         | 10              | 24                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.625    | 1.500  | 41.3    | 38.1   | 5,802           | 400 | 1,400 | 96  |
| PL(MSE16)-14-12                           | 14         | 12              | 24                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.625    | 1.500  | 41.3    | 38.1   | 5,802           | 400 | 1,400 | 96  |
| PL(MSE16)-8-3                             | 8          | 3               | 55                       | 2.88       | 73.0 | 3.63       | 92.1 | 1.625    | 1.500  | 41.3    | 38.1   | 5,802           | 400 | 800   | 55  |

\* Hex size for the body and cap are the same unless a cap size is provided in parentheses.

\*\* Weld neck models require lubrication prior to use.

All pressure and torque ratings were determined at 68° F (20° C) using solid Kapton-insulated copper conductors as the element. Pressure ratings may degrade at higher temperatures. Pressure rating guide values are provided for glands with elements restrained by the compressed sealant. Higher pressure may be attained with additional element restraints. Tolerance of tube or probe diameter is ±0.005. Deviation from the nominal may affect pressure ratings.



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TG24T / TGF  
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