

# Amphenol

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# Q-FLEX

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TRUSTED GLOBALLY

Amphenol  
**GEC | TPI**  
**POWERLOK**



# PowerLok™ G2 Series Connector



# AMPHENOL

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## ABOUT US

Amphenol is a technology leader in the design, manufacture and supply of high-performance interconnect systems, sensors and antennas for a broad range of industrial applications.

Amphenol's core competencies include application-specific industrial interconnect solutions utilizing integrated assemblies with both cable and flexible printed circuits, high-power interconnects requiring advance engineering and system integration. Our innovative solutions facilitate the increasing demands of embedded computing and power distribution. Applying years of experience, we offer specialist engineering services to help customer fulfill any requirement or specification. We anticipate our customers' needs and exceed their expectations.

## ■ Application

**POWERLOK G2 series is** a high performance, compact, aluminum alloy interconnect solution utilizing RADSOK contact technology for EV and Hybrid transportation applications. G2 provides electrical ratings up to 1000VDC and 450A (@ 50° C Ambient) with IP67/9K sealing, 360° shielding, multiple keying options, straight and right angle configurations, and up to 3 positions. G2 is available as field assembled connectors which accommodate shielding cable sizes from 50mm<sup>2</sup> to 120mm<sup>2</sup>. POWERLOK G2 series connectors are engineered for a diverse set of applications including electric power distribution for automotive, truck, bus, agricultural, construction, and off-road vehicles.

## ■ Key Features

- Voltage Rating: 1000VDC
- DC Current Rating: up to 450A at 50° C Ambient
- Insulation Resistance: 500MΩ
- IP rating: IP67&IP6K9K(mated), IP2X(unmated)
- Salt Spray: 480H (ISO 9227)
- Mating Cycle: 100Min
- Temperature range: -40 / +125 ° C
- UL 94 V-0 compliance (plastic components)
- Lever lock with CPA
- Modular design, Common Internal Components
- Vibration class : LV214 Level 2
- 1POS, 2POS, 3POS Positions Available
- 90D(Right angle) and 180D(Straight) Plug Orientations
- Multiple Keys Available:
  - 1POS (X,Y,U,V,W,T keys)
  - 2POS (X,Y,U,V keys)
  - 3POS (X,Y keys)
- RADSOK Contact Technology
- High Voltage Interlock
- 360° Shielding, Low Shielding Resistance
- RoHS/REACH Compliant

## ■ PowerLok™ G2 Recommended Cable Size & Current Rating

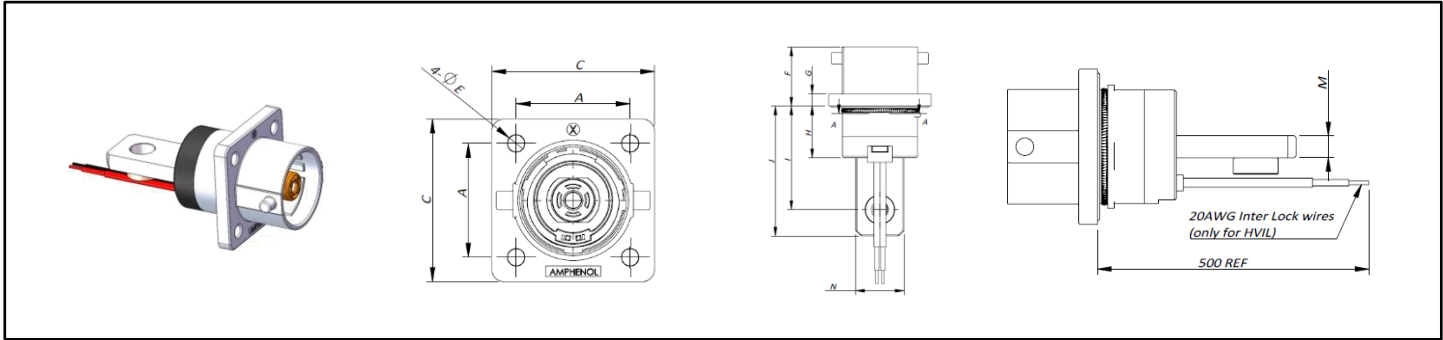
| Series     | Accepted Cable Size | Current Rating |
|------------|---------------------|----------------|
| 300 Series | 50mm <sup>2</sup>   | 200A           |
|            | 70mm <sup>2</sup>   | 250A           |
| 500 Series | 70mm <sup>2</sup>   | 250A           |
|            | 95mm <sup>2</sup>   | 300A           |
|            | 120mm <sup>2</sup>  | 400A           |

\*Contact us for customization options.

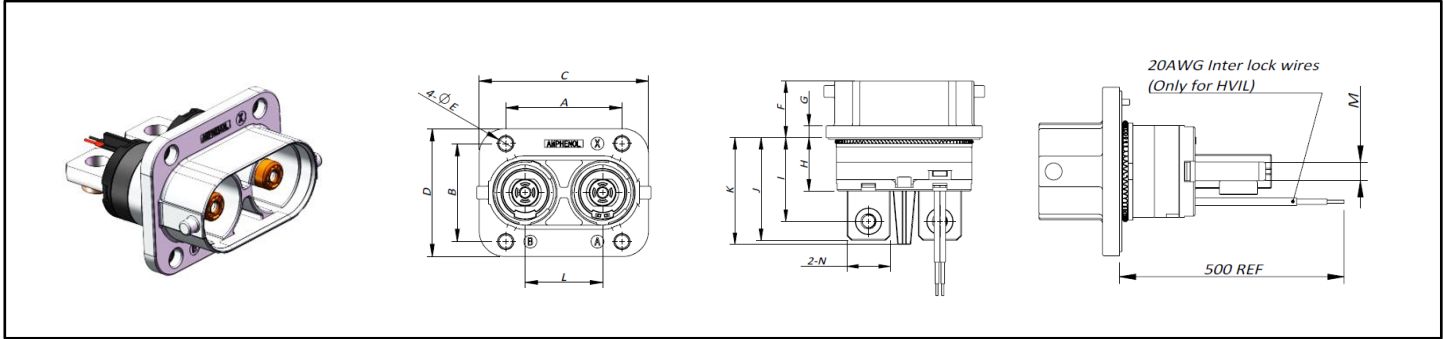
■ PowerLok™ G2 Receptacle

| Series | 180 Degree Busbar Lug |          |           |          |           |          | 90 Degree Busbar Lug |          | Thread Pin |          |
|--------|-----------------------|----------|-----------|----------|-----------|----------|----------------------|----------|------------|----------|
|        | 1 POS                 |          | 2 POS     |          | 3 POS     |          | 1 POS                |          | 2 POS      |          |
|        | With HVIL             | W/O HVIL | With HVIL | W/O HVIL | With HVIL | W/O HVIL | With HVIL            | W/O HVIL | With HVIL  | W/O HVIL |
| 300A   | *                     | *        | *         | *        | *         | *        | *                    | *        | *          | *        |
| 500A   | *                     | *        |           |          |           |          | *                    | *        |            |          |

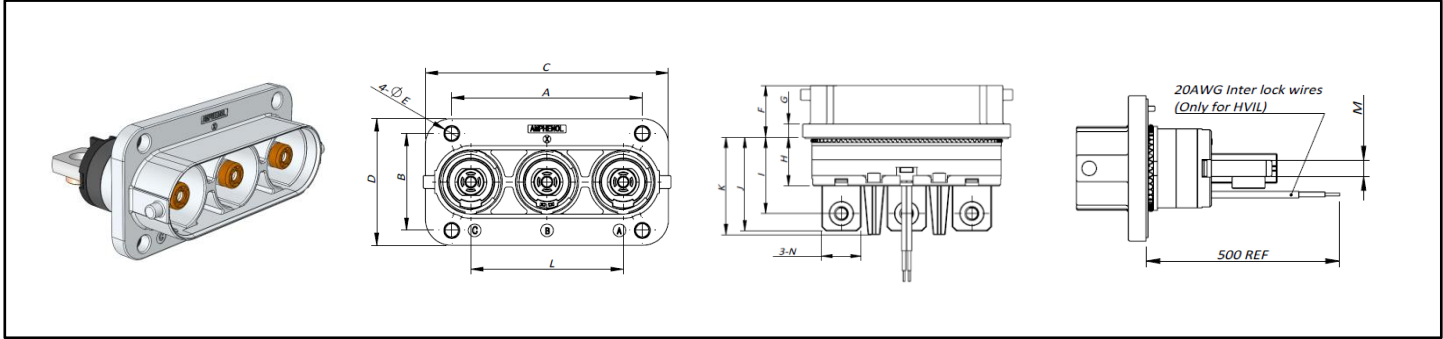
180 Degree Busbar Lug Receptacle



| Product | 180 Degree Busbar Lug 1POS Dimensions (mm)      |       |       |       |       |       |       |       |       |       |       |
|---------|-------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         | Series                                          | A     | C     | E     | F     | G     | H     | I     | J     | M     | N     |
|         | PowerLok™ 1POS 180 Degree Busbar Lug Receptacle | 300A  | 27.00 | 38.60 | φ4.20 | 22.40 | 4.70  | 19.60 | 39.30 | 49.30 | 5.50  |
|         | 500A                                            | 33.50 | 45.00 | φ4.30 | 28.90 | 5.70  | 23.80 | 46.00 | 56.00 | 7.00  | 21.00 |

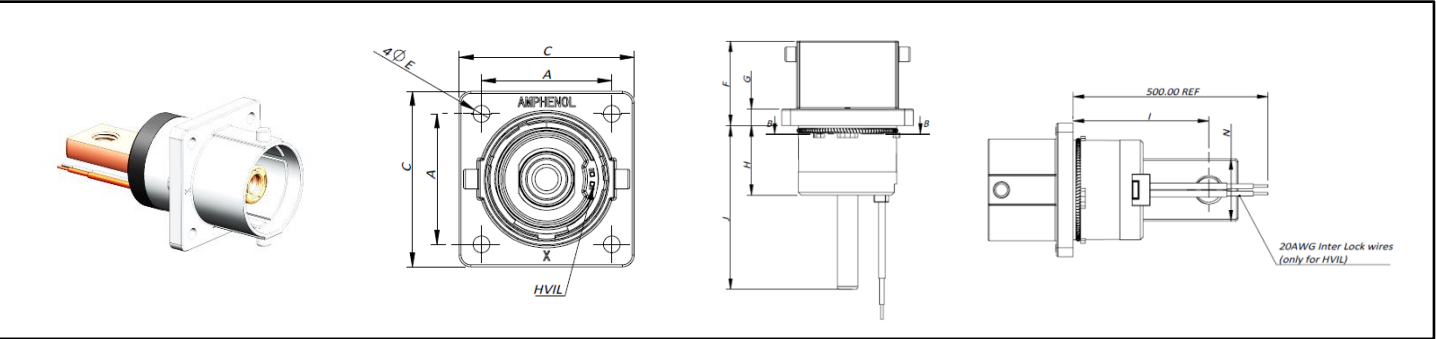


| Product                                         | 180 Degree Busbar Lug 2POS Dimensions (mm) |       |       |       |       |       |       |      |       |       |       |       |       |      |       |
|-------------------------------------------------|--------------------------------------------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|-------|
|                                                 | Series                                     | A     | B     | C     | D     | E     | F     | G    | H     | I     | J     | K     | L     | M    | N     |
| PowerLok™ 2POS 180 Degree Busbar Lug Receptacle | 300A                                       | 45.00 | 38.00 | 65.60 | 49.60 | φ6.30 | 23.70 | 5.00 | 22.30 | 35.00 | 43.00 | 44.70 | 30.00 | 5.50 | 18.20 |



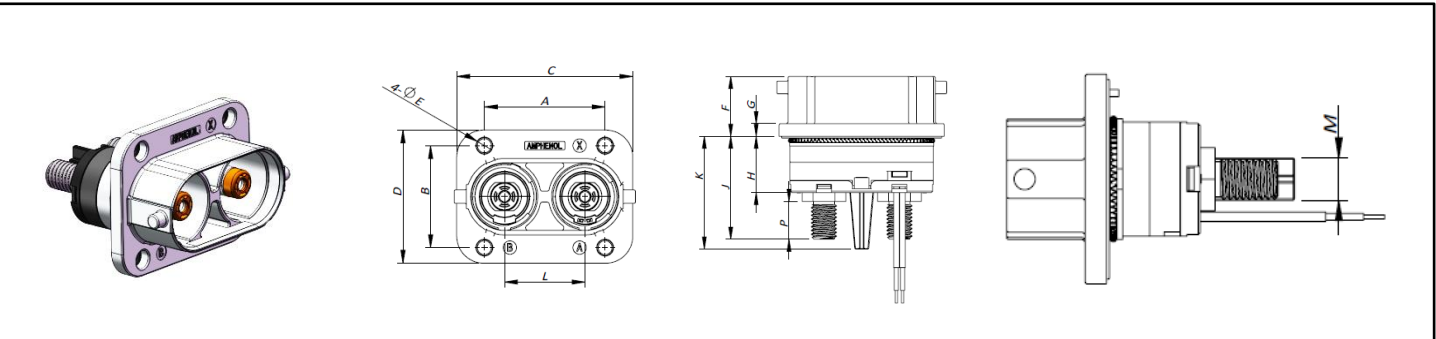
| Product                                         | 180 Degree Busbar Lug 3POS Dimensions (mm) |       |       |       |       |       |       |      |       |       |       |       |       |      |       |
|-------------------------------------------------|--------------------------------------------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|-------|
|                                                 | Series                                     | A     | B     | C     | D     | E     | F     | G    | H     | I     | J     | K     | L     | M    | N     |
| PowerLok™ 3POS 180 Degree Busbar Lug Receptacle | 300A                                       | 75.00 | 38.00 | 95.60 | 49.60 | φ6.30 | 23.70 | 6.00 | 22.30 | 35.00 | 43.00 | 44.70 | 60.00 | 5.50 | 18.20 |

90 Degree Busbar Lug Receptacle



| Product                                        | 90 Degree Busbar Lug 1POS Dimensions (mm) |       |       |       |       |      |       |       |       |      |       |
|------------------------------------------------|-------------------------------------------|-------|-------|-------|-------|------|-------|-------|-------|------|-------|
|                                                | Series                                    | A     | C     | E     | F     | G    | H     | I     | J     | M    | N     |
| PowerLok™ 1POS 90 Degree Busbar Lug Receptacle | 500A                                      | 33.50 | 45.00 | φ4.30 | 28.90 | 5.70 | 23.80 | 46.00 | 56.00 | 7.00 | 21.00 |

Thread Pin Receptacle

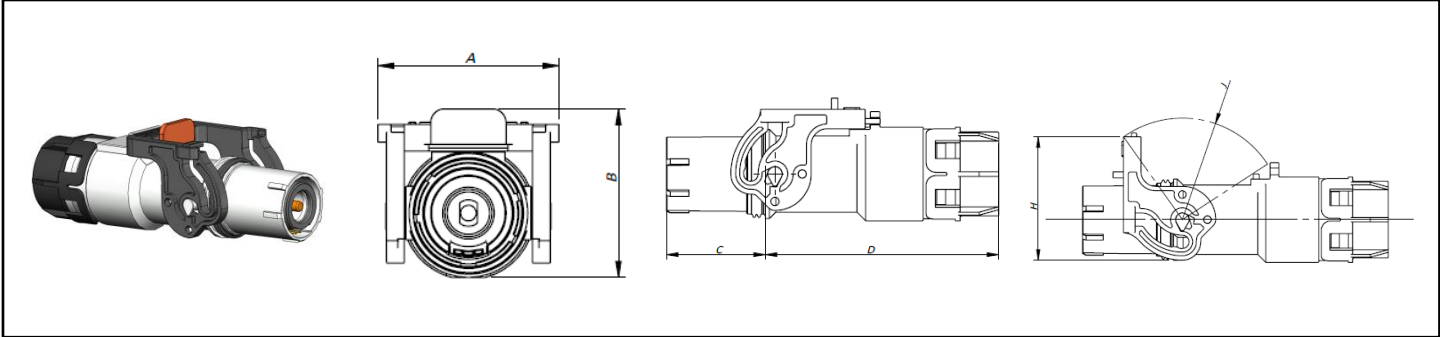


| Product                              | Thread Pin 2POS Dimensions (mm) |       |       |       |       |        |       |      |       |       |       |       |     |       |  |
|--------------------------------------|---------------------------------|-------|-------|-------|-------|--------|-------|------|-------|-------|-------|-------|-----|-------|--|
|                                      | Series                          | A     | B     | C     | D     | E      | F     | G    | H     | J     | K     | L     | M   | P     |  |
| PowerLok™ 2POS Thread Pin Receptacle | 300A                            | 45.00 | 38.00 | 65.60 | 49.60 | φ10.00 | 23.70 | 5.00 | 22.30 | 37.80 | 44.70 | 30.00 | M6  | 12.00 |  |
|                                      |                                 |       |       |       |       |        |       |      |       | 40.80 |       |       | M8  | 15.00 |  |
|                                      |                                 |       |       |       |       |        |       |      |       | 40.80 |       |       | M10 | 15.00 |  |

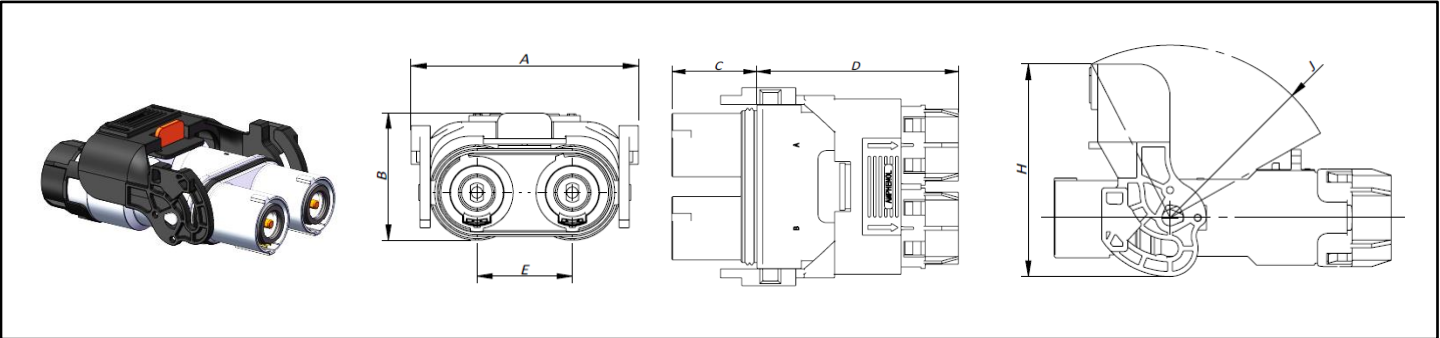
■ PowerLok™ G2 Plug

| Series | 1 POS         |             | 2POS          |             | 3POS          |             |
|--------|---------------|-------------|---------------|-------------|---------------|-------------|
|        | Assembly Type |             | Assembly Type |             | Assembly Type |             |
|        | Straight      | Right Angle | Straight      | Right Angle | Straight      | Right Angle |
| 300A   | *             | *           | *             | *           | *             | *           |
| 500A   | *             | *           |               |             |               |             |

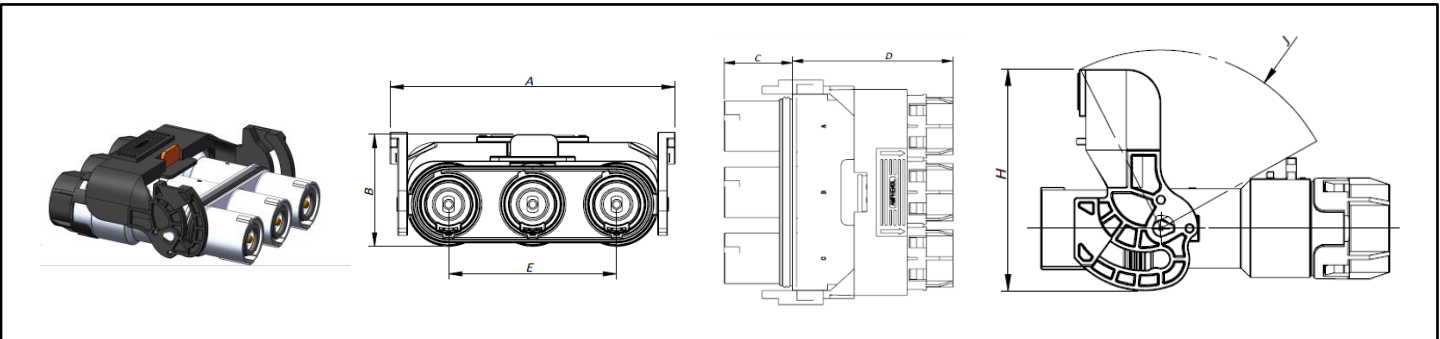
Straight Assembly Plug



| Product                               | Straight Plug 1POS Dimensions (mm) |       |       |       |       |       |        |
|---------------------------------------|------------------------------------|-------|-------|-------|-------|-------|--------|
|                                       | Series                             | A     | B     | C     | D     | H     | J      |
| PowerLok™ 1POS Straight Assembly Plug | 300A                               | 41.00 | 38.00 | 30.80 | 72.70 | 41.90 | R34.40 |
|                                       | 500A                               | 47.20 | 43.55 | 41.10 | 74.70 | 49.90 | R38.40 |

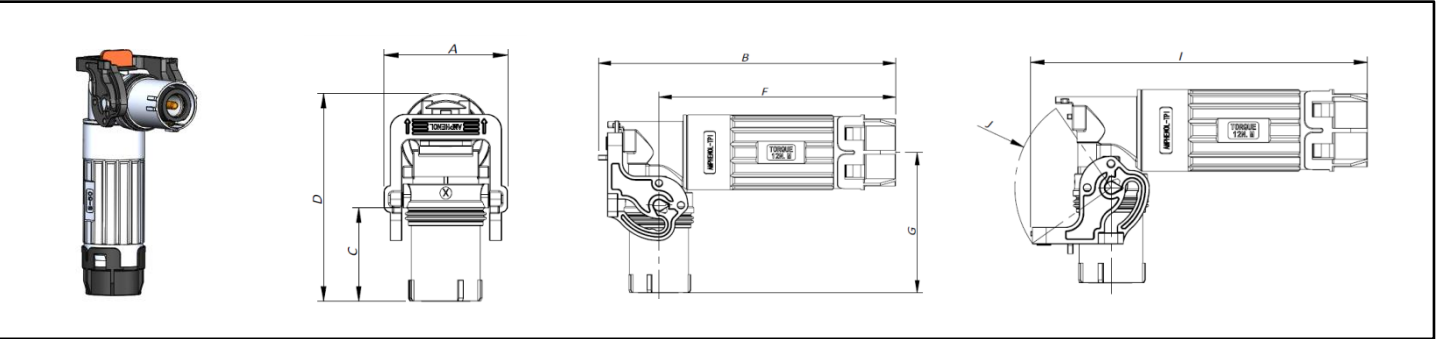


| Product                               | Straight Plug 2POS Dimensions (mm) |       |       |       |       |       |       |        |
|---------------------------------------|------------------------------------|-------|-------|-------|-------|-------|-------|--------|
|                                       | Series                             | A     | B     | C     | D     | E     | H     | J      |
| PowerLok™ 2POS Straight Assembly Plug | 300A                               | 71.50 | 39.95 | 30.80 | 72.70 | 30.00 | 65.20 | R53.00 |

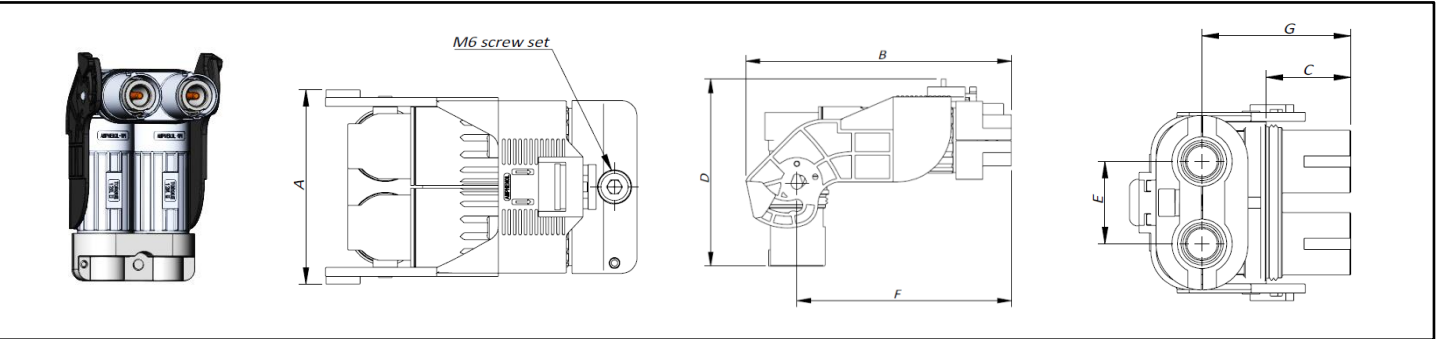


| Product                               | Straight Plug 3POS Dimensions (mm) |        |       |       |       |       |       |        |
|---------------------------------------|------------------------------------|--------|-------|-------|-------|-------|-------|--------|
|                                       | Series                             | A      | B     | C     | D     | E     | H     | J      |
| PowerLok™ 3POS Straight Assembly Plug | 300A                               | 101.80 | 39.95 | 30.80 | 72.70 | 60.00 | 65.70 | R52.90 |

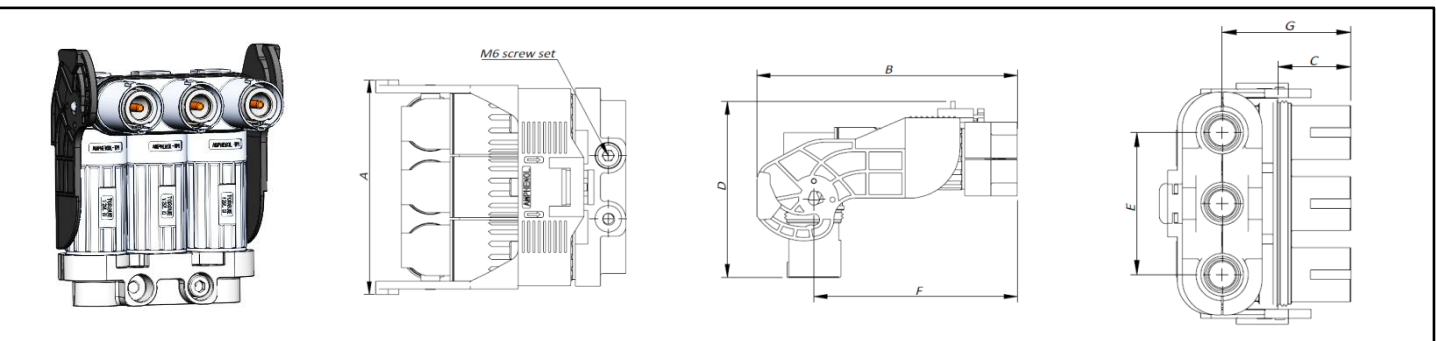
Right Angle Assembly Plug



| Product                                  | Right Angle Plug 1POS Dimensions (mm) |       |        |       |       |        |       |        |        |
|------------------------------------------|---------------------------------------|-------|--------|-------|-------|--------|-------|--------|--------|
|                                          | Series                                | A     | B      | C     | D     | F      | G     | I      | J      |
| PowerLok™ 1POS Right Angle Assembly Plug | 300A                                  | 41.00 | 115.10 | 30.50 | 68.60 | 91.60  | 54.30 | 120.30 | R34.40 |
|                                          | 500A                                  | 47.20 | 128.05 | 41.10 | 87.85 | 102.00 | 69.95 | 134.50 | R38.40 |



| Product                                  | Right Angle Plug 2POS Dimensions (mm) |       |        |       |       |       |       |       |        |        |        |
|------------------------------------------|---------------------------------------|-------|--------|-------|-------|-------|-------|-------|--------|--------|--------|
|                                          | Series                                | A     | B      | C     | D     | E     | F     | G     | H      | I      | J      |
| PowerLok™ 2POS Right Angle Assembly Plug | 300A                                  | 71.50 | 114.80 | 30.80 | 80.65 | 30.00 | 92.80 | 54.20 | 118.25 | 115.95 | R83.80 |



| Product                                  | Right Angle Plug 3POS Dimensions (mm) |        |        |       |        |       |       |       |        |        |        |
|------------------------------------------|---------------------------------------|--------|--------|-------|--------|-------|-------|-------|--------|--------|--------|
|                                          | Series                                | A      | B      | C     | D      | E     | F     | G     | H      | I      | J      |
| PowerLok™ 3POS Right Angle Assembly Plug | 300A                                  | 101.80 | 118.80 | 30.80 | 118.80 | 60.00 | 92.80 | 54.20 | 109.50 | 137.85 | R83.80 |

■ Ordering Information - Receptacle

PowerLok™ G2 1POS Receptacle (180 Degree Busbar Lug)

| PL              |    | 00              |  | X   |        | -              |               | 300                   |  | - |  | 10 |  | D10              |  | - |  | 2 |  |
|-----------------|----|-----------------|--|-----|--------|----------------|---------------|-----------------------|--|---|--|----|--|------------------|--|---|--|---|--|
| Product Tyle    |    | Connector Type  |  | Key |        | Current & HVIL |               |                       |  |   |  |    |  | Termination Size |  |   |  |   |  |
| PowerLok™<br>G2 | 00 | 1POS Receptacle |  | X   | Orange | 300            | 300A W/O HVIL | 180 Degree Busbar Lug |  |   |  |    |  | D+Stud Size      |  |   |  |   |  |
|                 |    |                 |  | Y   | Black  | 301            | 300A W HVIL   |                       |  |   |  |    |  | M+Stud Size      |  |   |  |   |  |
|                 |    |                 |  | U   | Yellow | 500            | 500A W/O HVIL |                       |  |   |  |    |  | PM+Stud Size     |  |   |  |   |  |
|                 |    |                 |  | V   | Green  | 501            | 500A W HVIL   |                       |  |   |  |    |  |                  |  |   |  |   |  |
|                 |    |                 |  | W   | Red    |                |               |                       |  |   |  |    |  |                  |  |   |  |   |  |
|                 |    |                 |  | T   | Blue   |                |               |                       |  |   |  |    |  |                  |  |   |  |   |  |

| Series | Key | 180 Degree Busbar Lug (1POS) |                   |             |                    |                   |             |
|--------|-----|------------------------------|-------------------|-------------|--------------------|-------------------|-------------|
|        |     | Termination & HVIL           | Description       | Part Number | Termination & HVIL | Description       | Part Number |
| 300A   | X   | M6<br>With HVIL              | PL00X-301-10M6-2  | AC-HA010668 | M6<br>W/O HVIL     | PL00X-300-10M6-2  | AC-HA010632 |
|        | Y   |                              | PL00Y-301-10M6-2  | AC-HA010669 |                    | PL00Y-300-10M6-2  | AC-HA010633 |
|        | U   |                              | PL00U-301-10M6-2  | AC-HA010670 |                    | PL00U-300-10M6-2  | AC-HA010634 |
|        | V   |                              | PL00V-301-10M6-2  | AC-HA010671 |                    | PL00V-300-10M6-2  | AC-HA010635 |
|        | W   |                              | PL00W-301-10M6-2  | AC-HA010672 |                    | PL00W-300-10M6-2  | AC-HA010636 |
|        | T   |                              | PL00T-301-10M6-2  | AC-HA010673 |                    | PL00T-300-10M6-2  | AC-HA010637 |
|        | X   | M8<br>With HVIL              | PL00X-301-10M8-2  | AC-HA010674 | M8<br>W/O HVIL     | PL00X-300-10M8-2  | AC-HA010638 |
|        | Y   |                              | PL00Y-301-10M8-2  | AC-HA010675 |                    | PL00Y-300-10M8-2  | AC-HA010639 |
|        | U   |                              | PL00U-301-10M8-2  | AC-HA010676 |                    | PL00U-300-10M8-2  | AC-HA010640 |
|        | V   |                              | PL00V-301-10M8-2  | AC-HA010677 |                    | PL00V-300-10M8-2  | AC-HA010641 |
|        | W   |                              | PL00W-301-10M8-2  | AC-HA010678 |                    | PL00W-300-10M8-2  | AC-HA010642 |
|        | T   |                              | PL00T-301-10M8-2  | AC-HA010679 |                    | PL00T-300-10M8-2  | AC-HA010643 |
|        | X   | D6<br>With HVIL              | PL00X-301-10D6-2  | AC-HA010686 | D6<br>W/O HVIL     | PL00X-300-10D6-2  | AC-HA010650 |
|        | Y   |                              | PL00Y-301-10D6-2  | AC-HA010687 |                    | PL00Y-300-10D6-2  | AC-HA010651 |
|        | U   |                              | PL00U-301-10D6-2  | AC-HA010688 |                    | PL00U-300-10D6-2  | AC-HA010652 |
|        | V   |                              | PL00V-301-10D6-2  | AC-HA010689 |                    | PL00V-300-10D6-2  | AC-HA010653 |
|        | W   |                              | PL00W-301-10D6-2  | AC-HA010690 |                    | PL00W-300-10D6-2  | AC-HA010654 |
|        | T   |                              | PL00T-301-10D6-2  | AC-HA010691 |                    | PL00T-300-10D6-2  | AC-HA010655 |
|        | X   | D8<br>With HVIL              | PL00X-301-10D8-2  | AC-HA010692 | D8<br>W/O HVIL     | PL00X-300-10D8-2  | AC-HA010656 |
|        | Y   |                              | PL00Y-301-10D8-2  | AC-HA010693 |                    | PL00Y-300-10D8-2  | AC-HA010657 |
|        | U   |                              | PL00U-301-10D8-2  | AC-HA010694 |                    | PL00U-300-10D8-2  | AC-HA010658 |
|        | V   |                              | PL00V-301-10D8-2  | AC-HA010695 |                    | PL00V-300-10D8-2  | AC-HA010659 |
|        | W   |                              | PL00W-301-10D8-2  | AC-HA010696 |                    | PL00W-300-10D8-2  | AC-HA010660 |
|        | T   |                              | PL00T-301-10D8-2  | AC-HA010697 |                    | PL00T-300-10D8-2  | AC-HA010661 |
|        | X   | D10<br>With HVIL             | PL00X-301-10D10-2 | AC-HA010698 | D10<br>W/O HVIL    | PL00X-300-10D10-2 | AC-HA010662 |
|        | Y   |                              | PL00Y-301-10D10-2 | AC-HA010699 |                    | PL00Y-300-10D10-2 | AC-HA010663 |
|        | U   |                              | PL00U-301-10D10-2 | AC-HA010700 |                    | PL00U-300-10D10-2 | AC-HA010664 |
|        | V   |                              | PL00V-301-10D10-2 | AC-HA010701 |                    | PL00V-300-10D10-2 | AC-HA010665 |
|        | W   |                              | PL00W-301-10D10-2 | AC-HA010702 |                    | PL00W-300-10D10-2 | AC-HA010666 |
|        | T   |                              | PL00T-301-10D10-2 | AC-HA010703 |                    | PL00T-300-10D10-2 | AC-HA010667 |
|        | X   | PM6<br>With HVIL             | PL00X-301-10PM6-2 | AC-HA012144 | PM6<br>W/O HVIL    | PL00X-300-10PM6-2 | AC-HA012138 |
|        | Y   |                              | PL00Y-301-10PM6-2 | AC-HA012145 |                    | PL00Y-300-10PM6-2 | AC-HA012139 |
|        | U   |                              | PL00U-301-10PM6-2 | AC-HA012146 |                    | PL00U-300-10PM6-2 | AC-HA012140 |
|        | V   |                              | PL00V-301-10PM6-2 | AC-HA012147 |                    | PL00V-300-10PM6-2 | AC-HA012141 |
|        | W   |                              | PL00W-301-10PM6-2 | AC-HA012148 |                    | PL00W-300-10PM6-2 | AC-HA012142 |
|        | T   |                              | PL00T-301-10PM6-2 | AC-HA012149 |                    | PL00T-300-10PM6-2 | AC-HA012143 |

|      |   |                  |                   |             |                 |                   |             |
|------|---|------------------|-------------------|-------------|-----------------|-------------------|-------------|
| 500A | X | M8<br>With HVIL  | PL00X-501-10M8-2  | AC-HA011180 | M8<br>W/O HVIL  | PL00X-500-10M8-2  | AC-HA011160 |
|      | Y |                  | PL00Y-501-10M8-2  | AC-HA011181 |                 | PL00Y-500-10M8-2  | AC-HA011161 |
|      | U |                  | PL00U-501-10M8-2  | AC-HA011182 |                 | PL00U-500-10M8-2  | AC-HA011162 |
|      | V |                  | PL00V-501-10M8-2  | AC-HA011183 |                 | PL00V-500-10M8-2  | AC-HA011163 |
|      | W |                  | PL00W-501-10M8-2  | AC-HA011184 |                 | PL00W-500-10M8-2  | AC-HA011164 |
|      | T |                  | PL00T-501-10M8-2  | AC-HA011974 |                 | PL00T-500-10M8-2  | AC-HA011970 |
|      | X | M10<br>With HVIL | PL00X-501-10M10-2 | AC-HA011185 | M10<br>W/O HVIL | PL00X-500-10M10-2 | AC-HA011165 |
|      | Y |                  | PL00Y-501-10M10-2 | AC-HA011186 |                 | PL00Y-500-10M10-2 | AC-HA011166 |
|      | U |                  | PL00U-501-10M10-2 | AC-HA011187 |                 | PL00U-500-10M10-2 | AC-HA011167 |
|      | V |                  | PL00V-501-10M10-2 | AC-HA011188 |                 | PL00V-500-10M10-2 | AC-HA011168 |
|      | W |                  | PL00W-501-10M10-2 | AC-HA011189 |                 | PL00W-500-10M10-2 | AC-HA011169 |
|      | T |                  | PL00T-501-10M10-2 | AC-HA011975 |                 | PL00T-500-10M10-2 | AC-HA011971 |
|      | X | D8<br>With HVIL  | PL00X-501-10D8-2  | AC-HA011190 | D8<br>W/O HVIL  | PL00X-500-10D8-2  | AC-HA011170 |
|      | Y |                  | PL00Y-501-10D8-2  | AC-HA011191 |                 | PL00Y-500-10D8-2  | AC-HA011171 |
|      | U |                  | PL00U-501-10D8-2  | AC-HA011192 |                 | PL00U-500-10D8-2  | AC-HA011172 |
|      | V |                  | PL00V-501-10D8-2  | AC-HA011193 |                 | PL00V-500-10D8-2  | AC-HA011173 |
|      | W |                  | PL00W-501-10D8-2  | AC-HA011194 |                 | PL00W-500-10D8-2  | AC-HA011174 |
|      | T |                  | PL00T-501-10D8-2  | AC-HA011973 |                 | PL00T-500-10D8-2  | AC-HA011969 |
|      | X | D10<br>With HVIL | PL00X-501-10D10-2 | AC-HA011195 | D10<br>W/O HVIL | PL00X-500-10D10-2 | AC-HA011175 |
|      | Y |                  | PL00Y-501-10D10-2 | AC-HA011196 |                 | PL00Y-500-10D10-2 | AC-HA011176 |
|      | U |                  | PL00U-501-10D10-2 | AC-HA011197 |                 | PL00U-500-10D10-2 | AC-HA011177 |
|      | V |                  | PL00V-501-10D10-2 | AC-HA011198 |                 | PL00V-500-10D10-2 | AC-HA011178 |
|      | W |                  | PL00W-501-10D10-2 | AC-HA011199 |                 | PL00W-500-10D10-2 | AC-HA011179 |
|      | T |                  | PL00T-501-10D10-2 | AC-HA011976 |                 | PL00T-500-10D10-2 | AC-HA011972 |

■ Ordering Information - Receptacle

PowerLok™ G2 1POS Receptacle (90 Degree Busbar Lug)

|              |                |                 |    |        |     |                |    |                      |     |             |                  |  |    |  |     |  |   |  |   |
|--------------|----------------|-----------------|----|--------|-----|----------------|----|----------------------|-----|-------------|------------------|--|----|--|-----|--|---|--|---|
|              | PL             |                 | 00 |        | X   |                | -  |                      | 500 |             | -                |  | 90 |  | D10 |  | - |  | 2 |
| Product Tyle | Connector Type |                 |    | Key    |     | Current & HVIL |    | Termination Type     |     |             | Termination Size |  |    |  |     |  |   |  |   |
| PowerLok™ G2 | 00             | 1POS Receptacle | X  | Orange | 500 | 500A W/O HVIL  | 90 | 90 Degree Busbar Lug |     |             | D+Stud Size      |  |    |  |     |  |   |  |   |
|              |                |                 | Y  | Black  | 501 | 500A W HVIL    |    |                      |     | M+Stud Size |                  |  |    |  |     |  |   |  |   |
|              |                |                 | U  | Yellow |     |                |    |                      |     |             |                  |  |    |  |     |  |   |  |   |
|              |                |                 | V  | Green  |     |                |    |                      |     |             |                  |  |    |  |     |  |   |  |   |
|              |                |                 | W  | Red    |     |                |    |                      |     |             |                  |  |    |  |     |  |   |  |   |
|              |                |                 | T  | Blue   |     |                |    |                      |     |             |                  |  |    |  |     |  |   |  |   |

| Series | Key | 90 Degree Busbar Lug (1POS) |                   |             |                    |                   |             |
|--------|-----|-----------------------------|-------------------|-------------|--------------------|-------------------|-------------|
|        |     | Termination & HVIL          | Description       | Part Number | Termination & HVIL | Description       | Part Number |
| 500A   | X   | M8<br>With HVIL             | PL00X-501-90M8-2  | AC-HA014541 | M8<br>W/O HVIL     | PL00X-500-90M8-2  | AC-HA014517 |
|        | Y   |                             | PL00Y-501-90M8-2  | AC-HA014542 |                    | PL00Y-500-90M8-2  | AC-HA014518 |
|        | U   |                             | PL00U-501-90M8-2  | AC-HA014543 |                    | PL00U-500-90M8-2  | AC-HA014519 |
|        | V   |                             | PL00V-501-90M8-2  | AC-HA014544 |                    | PL00V-500-90M8-2  | AC-HA014520 |
|        | W   |                             | PL00W-501-90M8-2  | AC-HA014545 |                    | PL00W-500-90M8-2  | AC-HA014521 |
|        | T   |                             | PL00T-501-90M8-2  | AC-HA014546 |                    | PL00T-500-90M8-2  | AC-HA014522 |
|        | X   | M10<br>With HVIL            | PL00X-501-90M10-2 | AC-HA014547 | M10<br>W/O HVIL    | PL00X-500-90M10-2 | AC-HA014523 |
|        | Y   |                             | PL00Y-501-90M10-2 | AC-HA014548 |                    | PL00Y-500-90M10-2 | AC-HA014524 |
|        | U   |                             | PL00U-501-90M10-2 | AC-HA014549 |                    | PL00U-500-90M10-2 | AC-HA014525 |
|        | V   |                             | PL00V-501-90M10-2 | AC-HA014550 |                    | PL00V-500-90M10-2 | AC-HA014526 |
|        | W   |                             | PL00W-501-90M10-2 | AC-HA014551 |                    | PL00W-500-90M10-2 | AC-HA014527 |
|        | T   |                             | PL00T-501-90M10-2 | AC-HA014552 |                    | PL00T-500-90M10-2 | AC-HA014528 |
|        | X   | D8<br>With HVIL             | PL00X-501-90D8-2  | AC-HA014553 | D8<br>W/O HVIL     | PL00X-500-90D8-2  | AC-HA014529 |
|        | Y   |                             | PL00Y-501-90D8-2  | AC-HA014554 |                    | PL00Y-500-90D8-2  | AC-HA014530 |
|        | U   |                             | PL00U-501-90D8-2  | AC-HA014555 |                    | PL00U-500-90D8-2  | AC-HA014531 |
|        | V   |                             | PL00V-501-90D8-2  | AC-HA014556 |                    | PL00V-500-90D8-2  | AC-HA014532 |
|        | W   |                             | PL00W-501-90D8-2  | AC-HA014557 |                    | PL00W-500-90D8-2  | AC-HA014533 |
|        | T   |                             | PL00T-501-90D8-2  | AC-HA014558 |                    | PL00T-500-90D8-2  | AC-HA014534 |
|        | X   | D10<br>With HVIL            | PL00X-501-90D10-2 | AC-HA014559 | D10<br>W/O HVIL    | PL00X-500-90D10-2 | AC-HA014535 |
|        | Y   |                             | PL00Y-501-90D10-2 | AC-HA014560 |                    | PL00Y-500-90D10-2 | AC-HA014536 |
|        | U   |                             | PL00U-501-90D10-2 | AC-HA014561 |                    | PL00U-500-90D10-2 | AC-HA014537 |
|        | V   |                             | PL00V-501-90D10-2 | AC-HA014562 |                    | PL00V-500-90D10-2 | AC-HA014538 |
|        | W   |                             | PL00W-501-90D10-2 | AC-HA014563 |                    | PL00W-500-90D10-2 | AC-HA014539 |
|        | T   |                             | PL00T-501-90D10-2 | AC-HA014564 |                    | PL00T-500-90D10-2 | AC-HA014540 |

PowerLok™ G2 2POS Receptacle (180 Degree Busbar Lug)

|              | <u>PL</u>      | <u>082</u>       | <u>X</u> | -      | <u>300</u>     | -             | <u>10</u>        | <u>D10</u>             | -                | <u>2</u> |  |
|--------------|----------------|------------------|----------|--------|----------------|---------------|------------------|------------------------|------------------|----------|--|
| Product Tyle | Connector Type |                  | Key      |        | Current & HVIL |               | Termination Type |                        | Termination Size |          |  |
| PowerLok™ G2 | 082            | 2 POS Receptacle | X        | Orange | 300            | 300A W/O HVIL | 10               | 180 Degree Busbar Lug) | D+Stud Size      |          |  |
|              |                |                  | Y        | Black  | 301            | 300A W HVIL   |                  |                        | M+Stud Size      |          |  |
|              |                |                  | U        | Yellow |                |               |                  |                        | PM+Stud Size     |          |  |
|              |                |                  | V        | Green  |                |               |                  |                        |                  |          |  |

| Series | Key | 180 Degree Busbar Lug (2POS) |                    |             |                    |                    |             |
|--------|-----|------------------------------|--------------------|-------------|--------------------|--------------------|-------------|
|        |     | Termination & HVIL           | Description        | Part Number | Termination & HVIL | Description        | Part Number |
| 300A   | X   | M6<br>With HVIL              | PL082X-301-10M6-2  | AC-HA010944 | M6<br>W/O HVIL     | PL082X-300-10M6-2  | AC-HA010932 |
|        | Y   |                              | PL082Y-301-10M6-2  | AC-HA010945 |                    | PL082Y-300-10M6-2  | AC-HA010933 |
|        | U   |                              | PL082U-301-10M6-2  | AC-HA016991 |                    | PL082U-300-10M6-2  | AC-HA016971 |
|        | V   |                              | PL082V-301-10M6-2  | AC-HA016992 |                    | PL082V-300-10M6-2  | AC-HA016972 |
|        | X   | M8<br>With HVIL              | PL082X-301-10M8-2  | AC-HA010946 | M8<br>W/O HVIL     | PL082X-300-10M8-2  | AC-HA010934 |
|        | Y   |                              | PL082Y-301-10M8-2  | AC-HA010947 |                    | PL082Y-300-10M8-2  | AC-HA010935 |
|        | U   |                              | PL082U-301-10M8-2  | AC-HA016995 |                    | PL082U-300-10M8-2  | AC-HA016975 |
|        | V   |                              | PL082V-301-10M8-2  | AC-HA016996 |                    | PL082V-300-10M8-2  | AC-HA016976 |
|        | X   | D6<br>With HVIL              | PL082X-301-10D6-2  | AC-HA010950 | D6<br>W/O HVIL     | PL082X-300-10D6-2  | AC-HA010938 |
|        | Y   |                              | PL082Y-301-10D6-2  | AC-HA010951 |                    | PL082Y-300-10D6-2  | AC-HA010939 |
|        | U   |                              | PL082U-301-10D6-2  | AC-HA016999 |                    | PL082U-300-10D6-2  | AC-HA016979 |
|        | V   |                              | PL082V-301-10D6-2  | AC-HA017000 |                    | PL082V-300-10D6-2  | AC-HA016980 |
|        | X   | D8<br>With HVIL              | PL082X-301-10D8-2  | AC-HA010952 | D8<br>W/O HVIL     | PL082X-300-10D8-2  | AC-HA010940 |
|        | Y   |                              | PL082Y-301-10D8-2  | AC-HA010953 |                    | PL082Y-300-10D8-2  | AC-HA010941 |
|        | U   |                              | PL082U-301-10D8-2  | AC-HA017003 |                    | PL082U-300-10D8-2  | AC-HA016983 |
|        | V   |                              | PL082V-301-10D8-2  | AC-HA017004 |                    | PL082V-300-10D8-2  | AC-HA016984 |
|        | X   | D10<br>With HVIL             | PL082X-301-10D10-2 | AC-HA010954 | D10<br>W/O HVIL    | PL082X-300-10D10-2 | AC-HA010942 |
|        | Y   |                              | PL082Y-301-10D10-2 | AC-HA010955 |                    | PL082Y-300-10D10-2 | AC-HA010943 |
|        | U   |                              | PL082U-301-10D10-2 | AC-HA017007 |                    | PL082U-300-10D10-2 | AC-HA016987 |
|        | V   |                              | PL082V-301-10D10-2 | AC-HA017008 |                    | PL082V-300-10D10-2 | AC-HA016988 |
|        | X   | PM6<br>With HVIL             | PL082X-301-10PM6-2 | AC-HA011979 | PM6<br>W/O HVIL    | PL082X-300-10PM6-2 | AC-HA011977 |
|        | Y   |                              | PL082Y-301-10PM6-2 | AC-HA011980 |                    | PL082Y-300-10PM6-2 | AC-HA011978 |
|        | U   |                              | PL082U-301-10PM6-2 | AC-HA017015 |                    | PL082U-300-10PM6-2 | AC-HA017011 |
|        | V   |                              | PL082V-301-10PM6-2 | AC-HA017016 |                    | PL082V-300-10PM6-2 | AC-HA017012 |

## ■ Ordering Information - Receptacle

### PowerLok™ G2 2POS Receptacle (Thread Pin)

| PL           | 082            | X                | -   | 300    | -              | 20            | D10              | -          | 2                |
|--------------|----------------|------------------|-----|--------|----------------|---------------|------------------|------------|------------------|
| Product Tyle | Connector Type |                  | Key |        | Current & HVIL |               | Termination Type |            | Termination Size |
| PowerLok™ G2 | 082            | 2 POS Receptacle | X   | Orange | 300            | 300A W/O HVIL | 20               | Thread Pin | D+Stud Size      |
|              |                |                  | Y   | Black  | 301            | 300A W HVIL   |                  |            | M+Stud Size      |
|              |                |                  | U   | Yellow |                |               |                  |            | PM+Stud Size     |
|              |                |                  | V   | Green  |                |               |                  |            |                  |

| Series | Key | Thread Pin (2POS)  |                    |             |                    |                    |             |
|--------|-----|--------------------|--------------------|-------------|--------------------|--------------------|-------------|
|        |     | Termination & HVIL | Description        | Part Number | Termination & HVIL | Description        | Part Number |
| 300A   | X   | M6<br>With HVIL    | PL082X-301-20M6-2  | AC-HA015859 | M6<br>W/O HVIL     | PL082X-300-20M6-2  | AC-HA015853 |
|        | Y   |                    | PL082Y-301-20M6-2  | AC-HA015860 |                    | PL082Y-300-20M6-2  | AC-HA015854 |
|        | U   |                    | PL082U-301-20M6-2  | AC-HA016529 |                    | PL082U-300-20M6-2  | AC-HA016523 |
|        | V   |                    | PL082V-301-20M6-2  | AC-HA016530 |                    | PL082V-300-20M6-2  | AC-HA016524 |
|        | X   | M8<br>With HVIL    | PL082X-301-20M8-2  | AC-HA015861 | M8<br>W/O HVIL     | PL082X-300-20M8-2  | AC-HA015855 |
|        | Y   |                    | PL082Y-301-20M8-2  | AC-HA015862 |                    | PL082Y-300-20M8-2  | AC-HA015856 |
|        | U   |                    | PL082U-301-20M8-2  | AC-HA016531 |                    | PL082U-300-20M8-2  | AC-HA016525 |
|        | V   |                    | PL082V-301-20M8-2  | AC-HA016532 |                    | PL082V-300-20M8-2  | AC-HA016526 |
|        | X   | M10<br>With HVIL   | PL082X-301-20M10-2 | AC-HA015863 | M10<br>W/O HVIL    | PL082X-300-20M10-2 | AC-HA015857 |
|        | Y   |                    | PL082Y-301-20M10-2 | AC-HA015864 |                    | PL082Y-300-20M10-2 | AC-HA015858 |
|        | U   |                    | PL082U-301-20M10-2 | AC-HA016533 |                    | PL082U-300-20M10-2 | AC-HA016527 |
|        | V   |                    | PL082V-301-20M10-2 | AC-HA016534 |                    | PL082V-300-20M10-2 | AC-HA016528 |

### PowerLok™ G2 3POS Receptacle (180 Degree Busbar Lug)

| PL           | 083            | X                | -   | 300    | -              | 10            | D10              | -                      | 2                |
|--------------|----------------|------------------|-----|--------|----------------|---------------|------------------|------------------------|------------------|
| Product Tyle | Connector Type |                  | Key |        | Current & HVIL |               | Termination Type |                        | Termination Size |
| PowerLok™ G2 | 083            | 3 POS Receptacle | X   | Orange | 300            | 300A W/O HVIL | 10               | 180 Degree Busbar Lug) | D+Stud Size      |
|              |                |                  | Y   | Black  | 301            | 300A W HVIL   |                  |                        | M+Stud Size      |
|              |                |                  |     |        |                |               |                  |                        | PM+Stud Size     |

| Series | Key | 180 Degree Busbar Lug (3POS) |                    |             |                    |                    |             |
|--------|-----|------------------------------|--------------------|-------------|--------------------|--------------------|-------------|
|        |     | Termination & HVIL           | Description        | Part Number | Termination & HVIL | Description        | Part Number |
| 300A   | X   | M6<br>With HVIL              | PL083X-301-10M6-2  | AC-HA011060 | M6<br>W/O HVIL     | PL083X-300-10M6-2  | AC-HA011048 |
|        | Y   |                              | PL083Y-301-10M6-2  | AC-HA011061 |                    | PL083Y-300-10M6-2  | AC-HA011049 |
|        | X   | M8<br>With HVIL              | PL083X-301-10M8-2  | AC-HA011062 | M8<br>W/O HVIL     | PL083X-300-10M8-2  | AC-HA011050 |
|        | Y   |                              | PL083Y-301-10M8-2  | AC-HA011063 |                    | PL083Y-300-10M8-2  | AC-HA011051 |
|        | X   | D6<br>With HVIL              | PL083X-301-10D6-2  | AC-HA011066 | D6<br>W/O HVIL     | PL083X-300-10D6-2  | AC-HA011054 |
|        | Y   |                              | PL083Y-301-10D6-2  | AC-HA011067 |                    | PL083Y-300-10D6-2  | AC-HA011055 |
|        | X   | D8<br>With HVIL              | PL083X-301-10D8-2  | AC-HA011068 | D8<br>W/O HVIL     | PL083X-300-10D8-2  | AC-HA011056 |
|        | Y   |                              | PL083Y-301-10D8-2  | AC-HA011069 |                    | PL083Y-300-10D8-2  | AC-HA011057 |
|        | X   | D10<br>With HVIL             | PL083X-301-10D10-2 | AC-HA011070 | D10<br>W/O HVIL    | PL083X-300-10D10-2 | AC-HA011058 |
|        | Y   |                              | PL083Y-301-10D10-2 | AC-HA011071 |                    | PL083Y-300-10D10-2 | AC-HA011059 |
|        | X   | PM6<br>With HVIL             | PL083X-301-10PM6-2 | AC-HA011983 | PM6<br>W/O HVIL    | PL083X-300-10PM6-2 | AC-HA011981 |
|        | Y   |                              | PL083Y-301-10PM6-2 | AC-HA011984 |                    | PL083Y-300-10PM6-2 | AC-HA011982 |

## ■ Ordering Information - Plug

### PowerLok™ G2 1POS Plug

| PL           | 18             | X                                   | - | 300 | -      | 70             | -             | 2                         | -                  | 5 |
|--------------|----------------|-------------------------------------|---|-----|--------|----------------|---------------|---------------------------|--------------------|---|
| Product Tyle | Connector Type |                                     |   | Key |        | Current & HVIL |               | Accepted Cable Size (mm²) | Current Rating (A) |   |
| PowerLok™ G2 | 18             | Plug Connector, Straight, Shield    |   | X   | Orange | 300            | 300A W/O HVIL | 50                        | 200                |   |
|              | 28             | Plug Connector, Right Angle, Shield |   | Y   | Black  | 301            | 300A W HVIL   | 70                        | 250                |   |
|              |                |                                     |   | U   | Yellow | 500            | 500A W/O HVIL | 70                        | 250                |   |
|              |                |                                     |   | V   | Green  |                |               | 95                        | 300                |   |
|              |                |                                     |   | W   | Red    |                |               | 120                       | 400                |   |
|              |                |                                     |   | T   | Blue   |                |               |                           |                    |   |

| Series | Key | 18: Plug Connector, Straight, Shield (1POS) |                   |             |                    |                   |             |
|--------|-----|---------------------------------------------|-------------------|-------------|--------------------|-------------------|-------------|
|        |     | Cable Size & HVIL                           | Description       | Part Number | Cable Size & HVIL  | Description       | Part Number |
| 300A   | X   | 50mm²<br>With HVIL                          | PL18X-301-50-2-5  | AC-HA010818 | 50mm²<br>W/O HVIL  | PL18X-300-50-2-5  | AC-HA010794 |
|        | Y   |                                             | PL18Y-301-50-2-5  | AC-HA010819 |                    | PL18Y-300-50-2-5  | AC-HA010795 |
|        | U   |                                             | PL18U-301-50-2-5  | AC-HA010820 |                    | PL18U-300-50-2-5  | AC-HA010796 |
|        | V   |                                             | PL18V-301-50-2-5  | AC-HA010821 |                    | PL18V-300-50-2-5  | AC-HA010797 |
|        | W   |                                             | PL18W-301-50-2-5  | AC-HA010822 |                    | PL18W-300-50-2-5  | AC-HA010798 |
|        | T   |                                             | PL18T-301-50-2-5  | AC-HA010823 |                    | PL18T-300-50-2-5  | AC-HA010799 |
|        | X   | 70mm²<br>With HVIL                          | PL18X-301-70-2-5  | AC-HA010824 | 70mm²<br>W/O HVIL  | PL18X-300-70-2-5  | AC-HA010800 |
|        | Y   |                                             | PL18Y-301-70-2-5  | AC-HA010825 |                    | PL18Y-300-70-2-5  | AC-HA010801 |
|        | U   |                                             | PL18U-301-70-2-5  | AC-HA010826 |                    | PL18U-300-70-2-5  | AC-HA010802 |
|        | V   |                                             | PL18V-301-70-2-5  | AC-HA010827 |                    | PL18V-300-70-2-5  | AC-HA010803 |
|        | W   |                                             | PL18W-301-70-2-5  | AC-HA010828 |                    | PL18W-300-70-2-5  | AC-HA010804 |
|        | T   |                                             | PL18T-301-70-2-5  | AC-HA010829 |                    | PL18T-300-70-2-5  | AC-HA010805 |
| 500A   | X   | 70mm²<br>With HVIL                          | PL18X-501-70-2-5  | AC-HA012924 | 70mm²<br>W/O HVIL  | PL18X-500-70-2-5  | AC-HA012918 |
|        | Y   |                                             | PL18Y-501-70-2-5  | AC-HA012925 |                    | PL18Y-500-70-2-5  | AC-HA012919 |
|        | U   |                                             | PL18U-501-70-2-5  | AC-HA012926 |                    | PL18U-500-70-2-5  | AC-HA012920 |
|        | V   |                                             | PL18V-501-70-2-5  | AC-HA012927 |                    | PL18V-500-70-2-5  | AC-HA012921 |
|        | W   |                                             | PL18W-501-70-2-5  | AC-HA012928 |                    | PL18W-500-70-2-5  | AC-HA012922 |
|        | T   |                                             | PL18T-501-70-2-5  | AC-HA012929 |                    | PL18T-500-70-2-5  | AC-HA012923 |
|        | X   | 95mm²<br>with HVIL                          | PL18X-501-95-2-5  | AC-HA011921 | 95mm²<br>W/O HVIL  | PL18X-500-95-2-5  | AC-HA011927 |
|        | Y   |                                             | PL18Y-501-95-2-5  | AC-HA011922 |                    | PL18Y-500-95-2-5  | AC-HA011928 |
|        | U   |                                             | PL18U-501-95-2-5  | AC-HA011923 |                    | PL18U-500-95-2-5  | AC-HA011929 |
|        | V   |                                             | PL18V-501-95-2-5  | AC-HA011924 |                    | PL18V-500-95-2-5  | AC-HA011930 |
|        | W   |                                             | PL18W-501-95-2-5  | AC-HA011925 |                    | PL18W-500-95-2-5  | AC-HA011931 |
|        | T   |                                             | PL18T-501-95-2-5  | AC-HA011926 |                    | PL18T-500-95-2-5  | AC-HA011932 |
|        | X   | 120mm²<br>with HVIL                         | PL18X-501-120-2-5 | AC-HA011933 | 120mm²<br>W/O HVIL | PL18X-500-120-2-5 | AC-HA011939 |
|        | Y   |                                             | PL18Y-501-120-2-5 | AC-HA011934 |                    | PL18Y-500-120-2-5 | AC-HA011940 |
|        | U   |                                             | PL18U-501-120-2-5 | AC-HA011935 |                    | PL18U-500-120-2-5 | AC-HA011941 |
|        | V   |                                             | PL18V-501-120-2-5 | AC-HA011936 |                    | PL18V-500-120-2-5 | AC-HA011942 |
|        | W   |                                             | PL18W-501-120-2-5 | AC-HA011937 |                    | PL18W-500-120-2-5 | AC-HA011943 |
|        | T   |                                             | PL18T-501-120-2-5 | AC-HA011938 |                    | PL18T-500-120-2-5 | AC-HA011944 |

## ■ Ordering Information - Plug

### PowerLok™ G2 1POS Plug

| Series | Key | 28: Plug Connector, Right Angle Shield (1POS) |                   |             |                                |                   |             |
|--------|-----|-----------------------------------------------|-------------------|-------------|--------------------------------|-------------------|-------------|
|        |     | Cable Size & HVIL                             | Description       | Part Number | Cable Size & HVIL              | Description       | Part Number |
| 300A   | X   | 50mm <sup>2</sup><br>With HVIL                | PL28X-301-50-2-5  | AC-HA010914 | 50mm <sup>2</sup><br>W/O HVIL  | PL28X-300-50-2-5  | AC-HA010890 |
|        | Y   |                                               | PL28Y-301-50-2-5  | AC-HA010915 |                                | PL28Y-300-50-2-5  | AC-HA010891 |
|        | U   |                                               | PL28U-301-50-2-5  | AC-HA010916 |                                | PL28U-300-50-2-5  | AC-HA010892 |
|        | V   |                                               | PL28V-301-50-2-5  | AC-HA010917 |                                | PL28V-300-50-2-5  | AC-HA010893 |
|        | W   |                                               | PL28W-301-50-2-5  | AC-HA010918 |                                | PL28W-300-50-2-5  | AC-HA010894 |
|        | T   |                                               | PL28T-301-50-2-5  | AC-HA010919 |                                | PL28T-300-50-2-5  | AC-HA010895 |
|        | X   | 70mm <sup>2</sup><br>With HVIL                | PL28X-301-70-2-5  | AC-HA010920 | 70mm <sup>2</sup><br>W/O HVIL  | PL28X-300-70-2-5  | AC-HA010896 |
|        | Y   |                                               | PL28Y-301-70-2-5  | AC-HA010921 |                                | PL28Y-300-70-2-5  | AC-HA010897 |
|        | U   |                                               | PL28U-301-70-2-5  | AC-HA010922 |                                | PL28U-300-70-2-5  | AC-HA010898 |
|        | V   |                                               | PL28V-301-70-2-5  | AC-HA010923 |                                | PL28V-300-70-2-5  | AC-HA010899 |
|        | W   |                                               | PL28W-301-70-2-5  | AC-HA010924 |                                | PL28W-300-70-2-5  | AC-HA010900 |
|        | T   |                                               | PL28T-301-70-2-5  | AC-HA010925 |                                | PL28T-300-70-2-5  | AC-HA010901 |
| 500A   | X   | 70mm <sup>2</sup><br>With HVIL                | PL28X-501-70-2-5  | AC-HA012906 | 70mm <sup>2</sup><br>W/O HVIL  | PL28X-500-70-2-5  | AC-HA012912 |
|        | Y   |                                               | PL28Y-501-70-2-5  | AC-HA012907 |                                | PL28Y-500-70-2-5  | AC-HA012913 |
|        | U   |                                               | PL28U-501-70-2-5  | AC-HA012908 |                                | PL28U-500-70-2-5  | AC-HA012914 |
|        | V   |                                               | PL28V-501-70-2-5  | AC-HA012909 |                                | PL28V-500-70-2-5  | AC-HA012915 |
|        | W   |                                               | PL28W-501-70-2-5  | AC-HA012910 |                                | PL28W-500-70-2-5  | AC-HA012916 |
|        | T   |                                               | PL28T-501-70-2-5  | AC-HA012911 |                                | PL28T-500-70-2-5  | AC-HA012917 |
|        | X   | 95mm <sup>2</sup><br>with HVIL                | PL28X-501-95-2-5  | AC-HA011945 | 95mm <sup>2</sup><br>W/O HVIL  | PL28X-500-95-2-5  | AC-HA011951 |
|        | Y   |                                               | PL28Y-501-95-2-5  | AC-HA011946 |                                | PL28Y-500-95-2-5  | AC-HA011952 |
|        | U   |                                               | PL28U-501-95-2-5  | AC-HA011947 |                                | PL28U-500-95-2-5  | AC-HA011953 |
|        | V   |                                               | PL28V-501-95-2-5  | AC-HA011948 |                                | PL28V-500-95-2-5  | AC-HA011954 |
|        | W   |                                               | PL28W-501-95-2-5  | AC-HA011949 |                                | PL28W-500-95-2-5  | AC-HA011955 |
|        | T   |                                               | PL28T-501-95-2-5  | AC-HA011950 |                                | PL28T-500-95-2-5  | AC-HA011956 |
|        | X   | 120mm <sup>2</sup><br>with HVIL               | PL28X-501-120-2-5 | AC-HA011957 | 120mm <sup>2</sup><br>W/O HVIL | PL28X-500-120-2-5 | AC-HA011963 |
|        | Y   |                                               | PL28Y-501-120-2-5 | AC-HA011958 |                                | PL28Y-500-120-2-5 | AC-HA011964 |
|        | U   |                                               | PL28U-501-120-2-5 | AC-HA011959 |                                | PL28U-500-120-2-5 | AC-HA011965 |
|        | V   |                                               | PL28V-501-120-2-5 | AC-HA011960 |                                | PL28V-500-120-2-5 | AC-HA011966 |
|        | W   |                                               | PL28W-501-120-2-5 | AC-HA011961 |                                | PL28W-500-120-2-5 | AC-HA011967 |
|        | T   |                                               | PL28T-501-120-2-5 | AC-HA011962 |                                | PL28T-500-120-2-5 | AC-HA011968 |

### PowerLok™ G2 1POS Plug (HVIL 90D)

|              |                |                                               |   |        |                |               |                           |                    |   |   |
|--------------|----------------|-----------------------------------------------|---|--------|----------------|---------------|---------------------------|--------------------|---|---|
| PL           | 19             | X                                             | - | 500    | -              | 95            | -                         | 2                  | - | 5 |
| Product Tyle | Connector Type |                                               |   | Key    | Current & HVIL |               | Accepted Cable Size (mm²) | Current Rating (A) |   |   |
| PowerLok™ G2 | 19             | Plug Connector, Straight, Shield, HVIL 90D    | X | Orange | 500            | 500A W/O HVIL | 70                        | 250                |   |   |
|              | 29             | Plug Connector, Right Angle, Shield, HVIL 90D | Y | Black  | 501            | 500A W HVIL   | 95                        | 300                |   |   |
|              |                |                                               | U | Yellow |                |               | 120                       | 400                |   |   |
|              |                |                                               | V | Green  |                |               |                           |                    |   |   |
|              |                |                                               | W | Red    |                |               |                           |                    |   |   |
|              |                |                                               | T | Blue   |                |               |                           |                    |   |   |

| Series | Key | 19: Plug Connector, Straight, shield, HVIL 90D |                   |             |                                |                   |             |
|--------|-----|------------------------------------------------|-------------------|-------------|--------------------------------|-------------------|-------------|
|        |     | Cable Size & HVIL                              | Description       | Part Number | Cable Size & HVIL              | Description       | Part Number |
| 500A   | X   | 70mm <sup>2</sup><br>With HVIL                 | PL19X-501-70-2-5  | AC-HA014595 | 70mm <sup>2</sup><br>W/O HVIL  | PL19X-500-70-2-5  | AC-HA014577 |
|        | Y   |                                                | PL19Y-501-70-2-5  | AC-HA014596 |                                | PL19Y-500-70-2-5  | AC-HA014578 |
|        | U   |                                                | PL19U-501-70-2-5  | AC-HA014597 |                                | PL19U-500-70-2-5  | AC-HA014579 |
|        | V   |                                                | PL19V-501-70-2-5  | AC-HA014598 |                                | PL19V-500-70-2-5  | AC-HA014580 |
|        | W   |                                                | PL19W-501-70-2-5  | AC-HA014599 |                                | PL19W-500-70-2-5  | AC-HA014581 |
|        | T   |                                                | PL19T-501-70-2-5  | AC-HA014600 |                                | PL19T-500-70-2-5  | AC-HA014582 |
|        | X   | 95mm <sup>2</sup><br>with HVIL                 | PL19X-501-95-2-5  | AC-HA014583 | 95mm <sup>2</sup><br>W/O HVIL  | PL19X-500-95-2-5  | AC-HA014565 |
|        | Y   |                                                | PL19Y-501-95-2-5  | AC-HA014584 |                                | PL19Y-500-95-2-5  | AC-HA014566 |
|        | U   |                                                | PL19U-501-95-2-5  | AC-HA014585 |                                | PL19U-500-95-2-5  | AC-HA014567 |
|        | V   |                                                | PL19V-501-95-2-5  | AC-HA014586 |                                | PL19V-500-95-2-5  | AC-HA014568 |
|        | W   |                                                | PL19W-501-95-2-5  | AC-HA014587 |                                | PL19W-500-95-2-5  | AC-HA014569 |
|        | T   |                                                | PL19T-501-95-2-5  | AC-HA014588 |                                | PL19T-500-95-2-5  | AC-HA014570 |
|        | X   | 120mm <sup>2</sup><br>with HVIL                | PL19X-501-120-2-5 | AC-HA014589 | 120mm <sup>2</sup><br>W/O HVIL | PL19X-500-120-2-5 | AC-HA014571 |
|        | Y   |                                                | PL19Y-501-120-2-5 | AC-HA014590 |                                | PL19Y-500-120-2-5 | AC-HA014572 |
|        | U   |                                                | PL19U-501-120-2-5 | AC-HA014591 |                                | PL19U-500-120-2-5 | AC-HA014573 |
|        | V   |                                                | PL19V-501-120-2-5 | AC-HA014592 |                                | PL19V-500-120-2-5 | AC-HA014574 |
|        | W   |                                                | PL19W-501-120-2-5 | AC-HA014593 |                                | PL19W-500-120-2-5 | AC-HA014575 |
|        | T   |                                                | PL19T-501-120-2-5 | AC-HA014594 |                                | PL19T-500-120-2-5 | AC-HA014576 |

| Series | Key | 29: Plug Connector, Right Angle, shield, HVIL 90D |                   |             |                                |                   |             |
|--------|-----|---------------------------------------------------|-------------------|-------------|--------------------------------|-------------------|-------------|
|        |     | Cable Size & HVIL                                 | Description       | Part Number | Cable Size & HVIL              | Description       | Part Number |
| 500A   | X   | 70mm <sup>2</sup><br>With HVIL                    | PL29X-501-70-2-5  | AC-HA014631 | 70mm <sup>2</sup><br>W/O HVIL  | PL29X-500-70-2-5  | AC-HA014613 |
|        | Y   |                                                   | PL29Y-501-70-2-5  | AC-HA014632 |                                | PL29Y-500-70-2-5  | AC-HA014614 |
|        | U   |                                                   | PL29U-501-70-2-5  | AC-HA014633 |                                | PL29U-500-70-2-5  | AC-HA014615 |
|        | V   |                                                   | PL29V-501-70-2-5  | AC-HA014634 |                                | PL29V-500-70-2-5  | AC-HA014616 |
|        | W   |                                                   | PL29W-501-70-2-5  | AC-HA014635 |                                | PL29W-500-70-2-5  | AC-HA014617 |
|        | T   |                                                   | PL29T-501-70-2-5  | AC-HA014636 |                                | PL29T-500-70-2-5  | AC-HA014618 |
|        | X   | 95mm <sup>2</sup><br>with HVIL                    | PL29X-501-95-2-5  | AC-HA014619 | 95mm <sup>2</sup><br>W/O HVIL  | PL29X-500-95-2-5  | AC-HA014601 |
|        | Y   |                                                   | PL29Y-501-95-2-5  | AC-HA014620 |                                | PL29Y-500-95-2-5  | AC-HA014602 |
|        | U   |                                                   | PL29U-501-95-2-5  | AC-HA014621 |                                | PL29U-500-95-2-5  | AC-HA014603 |
|        | V   |                                                   | PL29V-501-95-2-5  | AC-HA014622 |                                | PL29V-500-95-2-5  | AC-HA014604 |
|        | W   |                                                   | PL29W-501-95-2-5  | AC-HA014623 |                                | PL29W-500-95-2-5  | AC-HA014605 |
|        | T   |                                                   | PL29T-501-95-2-5  | AC-HA014624 |                                | PL29T-500-95-2-5  | AC-HA014606 |
|        | X   | 120mm <sup>2</sup><br>with HVIL                   | PL29X-501-120-2-5 | AC-HA014625 | 120mm <sup>2</sup><br>W/O HVIL | PL29X-500-120-2-5 | AC-HA014607 |
|        | Y   |                                                   | PL29Y-501-120-2-5 | AC-HA014626 |                                | PL29Y-500-120-2-5 | AC-HA014608 |
|        | U   |                                                   | PL29U-501-120-2-5 | AC-HA014627 |                                | PL29U-500-120-2-5 | AC-HA014609 |
|        | V   |                                                   | PL29V-501-120-2-5 | AC-HA014628 |                                | PL29V-500-120-2-5 | AC-HA014610 |
|        | W   |                                                   | PL29W-501-120-2-5 | AC-HA014629 |                                | PL29W-500-120-2-5 | AC-HA014611 |
|        | T   |                                                   | PL29T-501-120-2-5 | AC-HA014630 |                                | PL29T-500-120-2-5 | AC-HA014612 |

■ Ordering Information - Plug

PowerLok™ G2 2POS Plug

PL182X-300-70-2-5

| Product Tyle | Connector Type |                                     | Key      | Current & HVIL |               | Accepted Cable Size (mm²) | Current Rating (A) |
|--------------|----------------|-------------------------------------|----------|----------------|---------------|---------------------------|--------------------|
| PowerLok™ G2 | 182            | Plug Connector, Straight, Shield    | X Orange | 300            | 300A W/O HVIL | 50                        | 200                |
|              |                |                                     | Y Black  | 301            | 300A W HVIL   | 70                        | 250                |
|              | 282            | Plug Connector, Right Angle, Shield | U Yellow |                |               |                           |                    |
|              |                |                                     | V Green  |                |               |                           |                    |

| Series | Key | 182: Plug Connector, Straight, Shield (2POS) |                   |             |                   |                   |             |
|--------|-----|----------------------------------------------|-------------------|-------------|-------------------|-------------------|-------------|
|        |     | Cable Size & HVIL                            | Desciption        | Part Number | Cable Size & HVIL | Desciption        | Part Number |
| 300A   | X   | 50mm²<br>With HVIL                           | PL182X-301-50-2-5 | AC-HA011010 | 50mm²<br>W/O HVIL | PL182X-300-50-2-5 | AC-HA011002 |
|        | Y   |                                              | PL182Y-301-50-2-5 | AC-HA011011 |                   | PL182Y-300-50-2-5 | AC-HA011003 |
|        | U   |                                              | PL182U-301-50-2-5 | AC-HA016680 |                   | PL182U-300-50-2-5 | AC-HA016672 |
|        | V   |                                              | PL182V-301-50-2-5 | AC-HA016681 |                   | PL182V-300-50-2-5 | AC-HA016673 |
|        | X   | 70mm²<br>With HVIL                           | PL182X-301-70-2-5 | AC-HA011012 | 70mm²<br>W/O HVIL | PL182X-300-70-2-5 | AC-HA011004 |
|        | Y   |                                              | PL182Y-301-70-2-5 | AC-HA011013 |                   | PL182Y-300-70-2-5 | AC-HA011005 |
|        | U   |                                              | PL182U-301-70-2-5 | AC-HA016684 |                   | PL182U-300-70-2-5 | AC-HA016676 |
|        | V   |                                              | PL182V-301-70-2-5 | AC-HA016685 |                   | PL182V-300-70-2-5 | AC-HA016677 |

| Series | Key | 282: Plug Connector, Right Angle Shield (2POS) |                   |             |                   |                   |             |
|--------|-----|------------------------------------------------|-------------------|-------------|-------------------|-------------------|-------------|
|        |     | Cable Size & HVIL                              | Desciption        | Part Number | Cable Size & HVIL | Desciption        | Part Number |
| 300A   | X   | 50mm²<br>With HVIL                             | PL282X-301-50-2-5 | AC-HA011042 | 50mm²<br>W/O HVIL | PL282X-300-50-2-5 | AC-HA011034 |
|        | Y   |                                                | PL282Y-301-50-2-5 | AC-HA011043 |                   | PL282Y-300-50-2-5 | AC-HA011035 |
|        | U   |                                                | PL282U-301-50-2-5 | AC-HA016696 |                   | PL282U-300-50-2-5 | AC-HA016688 |
|        | V   |                                                | PL282V-301-50-2-5 | AC-HA016697 |                   | PL282V-300-50-2-5 | AC-HA016689 |
|        | X   | 70mm²<br>With HVIL                             | PL282X-301-70-2-5 | AC-HA011044 | 70mm²<br>W/O HVIL | PL282X-300-70-2-5 | AC-HA011036 |
|        | Y   |                                                | PL282Y-301-70-2-5 | AC-HA011045 |                   | PL282Y-300-70-2-5 | AC-HA011037 |
|        | U   |                                                | PL282U-301-70-2-5 | AC-HA016700 |                   | PL282U-300-70-2-5 | AC-HA016692 |
|        | V   |                                                | PL282V-301-70-2-5 | AC-HA016701 |                   | PL282V-300-70-2-5 | AC-HA016693 |

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PowerLok™ G2 3POS Plug

PL183X-300-70-2-5

| Product Tyle | Connector Type |                                     | Key      | Current & HVIL |               | Accepted Cable Size (mm²) | Current Rating (A) |
|--------------|----------------|-------------------------------------|----------|----------------|---------------|---------------------------|--------------------|
| PowerLok™ G2 | 183            | Plug Connector, Straight, Shield    | X Orange | 300            | 300A W/O HVIL | 50                        | 200                |
|              | 283            | Plug Connector, Right Angle, Shield | Y Black  | 301            | 300A W HVIL   | 70                        | 250                |

| Series | Key | 183: Plug Connector, Straight, Shield (3POS) |                   |             |                   |                   |             |
|--------|-----|----------------------------------------------|-------------------|-------------|-------------------|-------------------|-------------|
|        |     | Cable Size & HVIL                            | Desciption        | Part Number | Cable Size & HVIL | Desciption        | Part Number |
| 300A   | X   | 50mm²                                        | PL183X-301-50-2-5 | AC-HA011989 | 50mm²<br>W/O HVIL | PL183X-300-50-2-5 | AC-HA011985 |
|        | Y   | With HVIL                                    | PL183Y-301-50-2-5 | AC-HA011990 |                   | PL183Y-300-50-2-5 | AC-HA011986 |
|        | X   | 70mm²                                        | PL183X-301-70-2-5 | AC-HA011991 | 70mm²<br>W/O HVIL | PL183X-300-70-2-5 | AC-HA011987 |
|        | Y   | With HVIL                                    | PL183Y-301-70-2-5 | AC-HA011992 |                   | PL183Y-300-70-2-5 | AC-HA011988 |

| Series | Key | 283: Plug Connector, Right Angle Shield (3POS) |                   |             |                   |                   |             |
|--------|-----|------------------------------------------------|-------------------|-------------|-------------------|-------------------|-------------|
|        |     | Cable Size & HVIL                              | Desciption        | Part Number | Cable Size & HVIL | Desciption        | Part Number |
| 300A   | X   | 50mm²                                          | PL283X-301-50-2-5 | AC-HA011997 | 50mm²<br>W/O HVIL | PL283X-300-50-2-5 | AC-HA011993 |
|        | Y   | With HVIL                                      | PL283Y-301-50-2-5 | AC-HA011998 |                   | PL283Y-300-50-2-5 | AC-HA011994 |
|        | X   | 70mm²                                          | PL283X-301-70-2-5 | AC-HA011999 | 70mm²<br>W/O HVIL | PL283X-300-70-2-5 | AC-HA011995 |
|        | Y   | With HVIL                                      | PL283Y-301-70-2-5 | AC-HA012000 |                   | PL283Y-300-70-2-5 | AC-HA011996 |

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**The information contained in this data sheet is for reference only**

GEC/TPI provides the above product specifications for the standard PowerLok™ G2 series of connectors to assist users in identifying the correct product for the system to which the connectors may be applied. Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements of suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. Specifications are typical and may not apply to all connectors. Note that these specifications are derived from relevant global standards used in the automotive and industrial transportation markets, but they are not a substitute for system level design validation testing, which is the sole responsibility of the system designer and/or end user.