

# Saf-D-Grid<sup>®</sup>

## DC Power Connection Solutions

- Carrying DC or AC Current up to 32A and 600V • Footprint of an IEC 620 C13/14
- Meets International Safety Requirements for Hazardous, Low Voltage Applications



# SAF-D-GRID®

Anderson Power Products® has lead the connector industry in development of DC power connection solutions since the introduction of the SB® electrical connector in 1953. Saf-D-Grid® builds on the proven contact technology used in SB® and Powerpole® connectors by offering features required for connecting Direct Current (DC) for higher voltage DC or hybrid AC/DC systems.

## The APP® Saf-D-Grid® Plug and Receptacle

- Connect devices carrying DC or AC current up to 30A and 600V in the footprint of an IEC 620 C13/C14 and is the only connector system at this size which is UL rated for disconnect up to 400V and 30A
- Meets International safety requirements for hazardous, low voltage applications including UL 950 and IEC 60950
- Enables greater power density by allowing up to 40A and 600V DC or AC within the same space of the IEC 320 C13/14 system that is limited to 10A and 250 VAC
- Saf-D-Grid® 400V series targets DC applications but is also rated for AC current with a single keying configuration
- Saf-D-Grid® 300V series targets AC applications but is also rated for DC current and has multiple mechanical keys



### First Mate, Last Break Ground Contact

- Provides the safety of an earthing path before engagement of the power contacts.

### Integral Latch

- Connectors cannot be accidentally unmated, preventing unwanted power loss to critical equipment.

### Hot Plug Rated

- The connectors are rated for current interruption for both electronic (capacitive) and electrical (resistive) loads.

### Touch Safe / Shock Protection

- Minimizes the risk of personal contact with a hazardous voltage. Passes UL & IEC finger probe (plug & receptacle) and 3mm probe tests (receptacle).

### Arcing Protection

- Housings contain the arc if connectors are mated or unmated while under load minimizing risk to personnel.



Integral Latch  
- T-Latch Straight Plug



First Mate, Last Break Ground Contact  
- Ultra Short Receptacle



Saf-D-Grid® doesn't discriminate. It makes the power connection safely and efficiently in systems using AC or DC. It enables better usage of space by providing more voltage and more current than similar sized IEC 60320 connectors safely and efficiently.

For locations where renewable and alternative energy sources are necessary to maintain system uptime, Saf-D-Grid® keeps the power on. Designers choose a manufacturer that has made power connections for over a hundred years.

Saf-D-Grid® from Anderson Power Products®

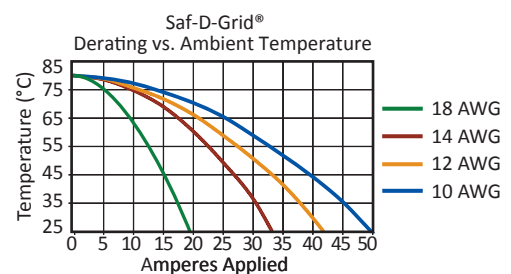
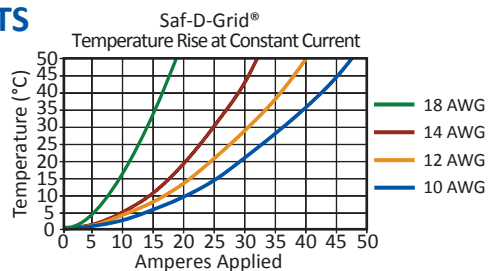
| NOMINAL PERFORMANCE CHARACTERISTICS                                                                 |                                                                                                            |                                                             |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
|                                                                                                     | Saf-D-Grid® 400V                                                                                           | Saf-D-Grid® 300 VAC                                         |
| MECHANICAL                                                                                          |                                                                                                            |                                                             |
| Contact Retention                                                                                   | 20lb (89N)                                                                                                 | 20lb (89N)                                                  |
| Plug Latch Retention                                                                                | 20lb (89N)                                                                                                 | 20lb (89N)                                                  |
| Panel Latch Retention                                                                               | 60lb (267N)                                                                                                | 60lb (267N)                                                 |
| Durability                                                                                          | 5000 Cycles (no load)                                                                                      | 5000 Cycles (no load)                                       |
| Receptacle Max Wire Size                                                                            | 10 AWG (4.0mm <sup>2</sup> )                                                                               |                                                             |
| Creep and Clearance (between live parts of different polarity, earthing circuit and mating surface) | 7.0mm min                                                                                                  | 7.0mm min                                                   |
| Max PCB Thickness (for PCB contacts only) <sup>A</sup>                                              | 0.093" (2.4mm)                                                                                             | N/A                                                         |
| Mechanical Shock (IEC 60512-4-6C) <sup>B</sup>                                                      | 50g                                                                                                        | 50g                                                         |
| Vibration (IEC 60512-4-6d) <sup>B</sup>                                                             | 20g                                                                                                        | 20g                                                         |
| ELECTRICAL                                                                                          |                                                                                                            |                                                             |
| Voltage AC                                                                                          | 600V (UL 1977/CSA 22.2)<br>400V (IEC)                                                                      | 600V (UL 1977/CSA 22.2)                                     |
| Voltage DC                                                                                          | 600V (UL 1977/CSA 22.2)<br>400V (IEC)                                                                      | 600V (UL 1977/CSA 22.2)                                     |
| Current Rating                                                                                      | 40A                                                                                                        | 30A                                                         |
| Wire Range                                                                                          | 10AWG to 18AWG<br>(0.75mm <sup>2</sup> to 4.0mm <sup>2</sup> )                                             | 10AWG to 18AWG (0.75mm <sup>2</sup> to 4.0mm <sup>2</sup> ) |
| Hot Plug Rating                                                                                     | <ul style="list-style-type: none"> <li>@ 440A in-rush 250 Cycles</li> <li>@ 20A load 250 Cycles</li> </ul> |                                                             |
| Dielectric Withstanding Voltage                                                                     | 3300V                                                                                                      | 3300V                                                       |
| Operating Temperature                                                                               | -4 to 176°F (-20 to 105°C)                                                                                 | -4 to 284°F (-20 to 140°C)                                  |
| Fault Current Withstand (UL 467)                                                                    | 14AWG, 300V, 4s (10AWG, 750V, 4s)                                                                          | 14AWG, 300V, 4s                                             |
| MATERIALS                                                                                           |                                                                                                            |                                                             |
|                                                                                                     | Saf-D-Grid® 400V                                                                                           | Saf-D-Grid® 300VAC                                          |
| (2006G and 2007G series receptacle housings)                                                        | High Temp Nylon 30% Glass, UL94 V-0, Halogen Free                                                          | N/A                                                         |
| All Other Housings (plug and receptacle)                                                            | Polycarbonate UL94 V-0                                                                                     | High Temp Nylon 30% Glass, UL94 V-0, Halogen Free           |
| Springs                                                                                             | Stainless Steel                                                                                            | Stainless Steel                                             |
| Contacts                                                                                            | Copper/Silver Plate                                                                                        | Copper/Silver Plate                                         |
| Shield                                                                                              | N/A                                                                                                        | Copper/Tin Plate                                            |
| Cable/Strain Relief                                                                                 | Thermoplastic UL94 V-2                                                                                     | Thermoplastic UL94 V-2                                      |

**NOTE:** Parts are RoHS compliant

<sup>A</sup> Applicable only to receptacle intended for termination to PCB

<sup>B</sup> Tested with straight plug and flush mount receptacle with #14 AWG wire and 2003G1

## TEMPERATURE CHARTS



## RECEPTACLE CONNECTOR RATINGS AND APPROVALS

|                                                 |                            |        | RATED CURRENT     |     |           |                               |     |           |
|-------------------------------------------------|----------------------------|--------|-------------------|-----|-----------|-------------------------------|-----|-----------|
|                                                 |                            |        | Disconnect (600V) |     |           | Current Interrupt (300V/400V) |     |           |
| Receptacle                                      | Wire Size                  | Series | UL 1977           | CNR | IEC 61984 | UL 1977                       | CNR | IEC 61984 |
| SDG 300 Receptacle Key "A"                      | 14 AWG                     | 2316G  | 35                | 25  | N/A       | 20                            | 20  | N/A       |
| SDG 300 Receptacle Key "A"                      | 12 AWG                     | 2316G  | 35                | 25  | N/A       | 20                            | 20  | N/A       |
| SDG 300 Receptacle Key "B"                      | 14 AWG                     | 2326G  | 35                | 25  | N/A       | 20                            | 20  | N/A       |
| SDG 300 Receptacle Key "B"                      | 12 AWG                     | 2326G  | 35                | 25  | N/A       | 20                            | 20  | N/A       |
| SDG 300 Receptacle Key "C"                      | 10 AWG                     | 2336G  | 55                | 38  | N/A       | 32                            | 32  | N/A       |
| SDG 400V Flush Mount 18 AWG                     | 18 AWG                     | 2002   | 18                | 12  | N/A       | 12                            | 12  | N/A       |
| SDG 400V Flush Mount 16 AWG                     | 16 AWG                     | 2002   | 18                | 18  | N/A       | 14                            | 14  | N/A       |
| SDG 400V Flush Mount 14 AWG                     | 14 AWG                     | 2002   | 20                | 20  | N/A       | 20                            | 20  | N/A       |
| SDG 400V Flush Mount 12AWG                      | 12 AWG                     | 2002   | 25                | 25  | N/A       | 25                            | 25  | N/A       |
| SDG 400V Flush Mount 1.5mm <sup>2</sup> H05VV-F | 1.5mm <sup>2</sup> H05VV-F | 2002   | N/A               | N/A | 16        | N/A                           | N/A | 16        |
| SDG 400V Flush Mount 2.5mm <sup>2</sup> H05VV-F | 2.5mm <sup>2</sup> H05VV-F | 2002   | N/A               | N/A | 25        | N/A                           | N/A | 25        |
| SDG 400V Short 18 AWG                           | 18 AWG                     | 2005   | 18                | 12  | N/A       | 12                            | 12  | N/A       |
| SDG 400V Short 16 AWG                           | 16 AWG                     | 2005   | 18                | 18  | N/A       | 14                            | 14  | N/A       |
| SDG 400V Short 14 AWG                           | 14 AWG                     | 2005   | 20                | 20  | N/A       | 20                            | 20  | N/A       |
| SDG 400V Short 12 AWG                           | 12 AWG                     | 2005   | 25                | 25  | N/A       | 25                            | 25  | N/A       |
| SDG 400V Short 1.5mm <sup>2</sup> H05VV-F       | 1.5mm <sup>2</sup> H05VV-F | 2005   | N/A               | N/A | 16        | N/A                           | N/A | 16        |
| SDG 400V Short 2.5mm <sup>2</sup> H05VV-F       | 2.5mm <sup>2</sup> H05VV-F | 2005   | N/A               | N/A | 25        | N/A                           | N/A | 25        |
| SDG 400V Ultra Short 18 AWG                     | 18 AWG                     | 2006   | 35                | 25  | 13        | 12                            | 12  | 12        |
| SDG 400V Ultra Short 16 AWG                     | 16 AWG                     | 2006   | TBD               | TBD | N/A       | TBD                           | TBD | N/A       |
| SDG 400V Ultra Short 14 AWG                     | 14 AWG                     | 2006   | 21                | 13  | 25        | 20                            | 20  | 20        |
| SDG 400V Ultra Short 12 AWG                     | 12 AWG                     | 2007   | 25                | 25  | N/A       | 25                            | 25  | N/A       |
| SDG 400V Ultra Short 10 AWG                     | 10 AWG                     | 2007   | 30                | 30  | N/A       | 30                            | 30  | N/A       |
| SDG 400V Ultra Short 1.5mm <sup>2</sup> H05VV-F | 1.5mm <sup>2</sup> H05VV-F | 2006   | N/A               | N/A | 16        | N/A                           | N/A | 16        |
| SDG 400V Ultra Short 2.5mm <sup>2</sup> H05VV-F | 2.5mm <sup>2</sup> H05VV-F | 2006   | N/A               | N/A | 25        | N/A                           | N/A | 25        |
| SDG 400V Ultra Short 4.0mm <sup>2</sup> H05VV-F | 4.0mm <sup>2</sup> H05VV-F | 2007   | N/A               | N/A | 30        | N/A                           | N/A | 30        |

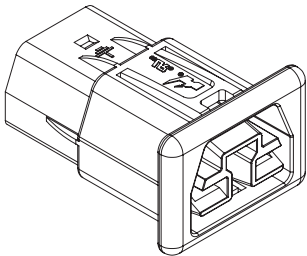
### No IEC 61984 Approvals for 2002N, 2002V, 2005N & 2005V Series Receptacles

- UL1977 ratings are for recognized components under UL1977 file # E26226. Ratings may vary once the final listing category is considered. Do not exceed maximum operating temperature of connector or wire insulation. Ratings are based on an ambient temperature of 25°C.
- CNR- indicates investigation to Canadian National Standards, C22.2 No. 182.3.
- UL817 recognized or listed cord sets under UL file number E 343569.
- IEC 61984 certification by TUV certification number R 7212289.
- **"Disconnect Only"** indicates the devices are not for interrupting current.
- **"Current Interrupt"** indicates the devices have been investigated for the interruption of current.
- APP assembly tooling is required for UL, CSA & other safety agency compliance. Use of unapproved tooling will void connector warranty.

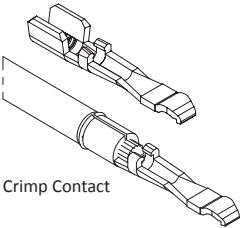


400V FLUSH MOUNT RECEPTACLES

| Part Number | Panel Mount Thickness | Termination Style | Contacts Loaded |
|-------------|-----------------------|-------------------|-----------------|
| 2002G1-BK   | 0.8mm                 | Crimp             | No              |
| 2002G2-BK   | 1.2mm                 | Crimp             | No              |
| 2002G3-BK   | 1.0mm                 | Crimp             | No              |
| 2002G4-BK   | 1.6mm                 | Crimp             | No              |
| 2002G5-BK   | 2.0mm                 | Crimp             | No              |
| 2002G6-BK   | 2.5mm                 | Crimp             | No              |

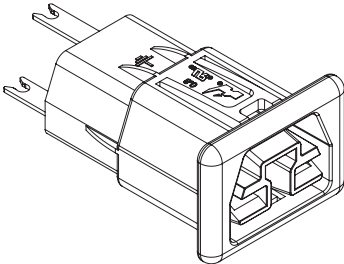


| Crimp Contacts |                  |
|----------------|------------------|
| 2003G1-BK      | 18 AWG to 12 AWG |
| 2003G2-LPBK    | 10 AWG           |

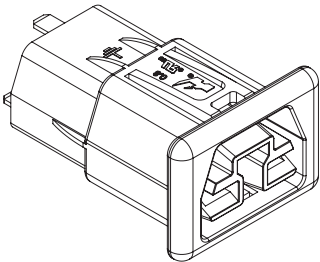


Crimp Contact

| Part Number | Panel Mount Thickness | Termination Style | Contacts Loaded |
|-------------|-----------------------|-------------------|-----------------|
| 2002N1-BK   | 0.8mm                 | "V" Solder        | Yes             |
| 2002N2-BK   | 1.2mm                 | "V" Solder        | Yes             |
| 2002N3-BK   | 1.0mm                 | "V" Solder        | Yes             |
| 2002N4-BK   | 1.6mm                 | "V" Solder        | Yes             |

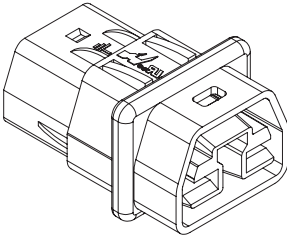


| Part Number | Panel Mount Thickness | Termination Style | Contacts Loaded |
|-------------|-----------------------|-------------------|-----------------|
| 2002V1-BK   | 0.8mm                 | PCB Mount         | Yes             |
| 2002V2-BK   | 1.2mm                 | PCB Mount         | Yes             |
| 2002V3-BK   | 1.0mm                 | PCB Mount         | Yes             |
| 2002V4-BK   | 1.6mm                 | PCB Mount         | Yes             |



400V SHORT MOUNT RECEPTACLES

| Part Number | Panel Mount Thickness | Termination Style | Contacts Loaded |
|-------------|-----------------------|-------------------|-----------------|
| 2005G1-BK   | 0.8mm                 | Crimp             | No              |
| 2005G2-BK   | 1.2mm                 | Crimp             | No              |
| 2005G3-BK   | 1.0mm                 | Crimp             | No              |
| 2005G4-BK   | 1.6mm                 | Crimp             | No              |

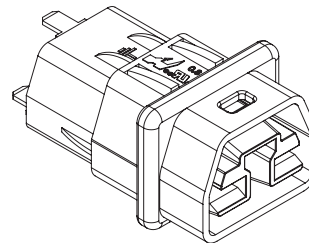
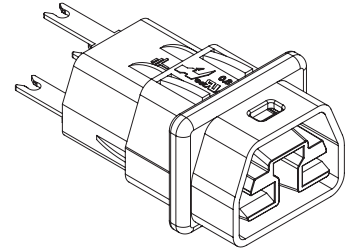
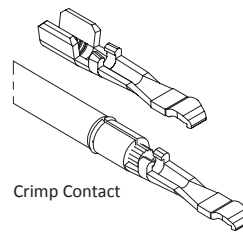


## Short Mount Receptacles Continued

| Crimp Contacts | Wire Size        |
|----------------|------------------|
| 2003G1-BK      | 18 AWG to 12 AWG |
| 2003G2-LPBK    | 10 AWG           |

| Part Number | Panel Mount Thickness | Termination Style | Contacts Loaded |
|-------------|-----------------------|-------------------|-----------------|
| 2005N1-BK   | 0.8mm                 | "V" Solder        | Yes             |
| 2005N2-BK   | 1.2mm                 | "V" Solder        | Yes             |
| 2005N3-BK   | 1.0mm                 | "V" Solder        | Yes             |
| 2005N4-BK   | 1.6mm                 | "V" Solder        | Yes             |

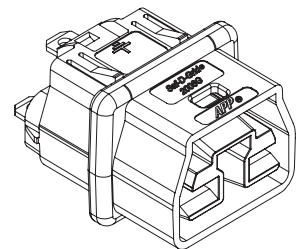
| Part Number | Panel Mount Thickness | Termination Style | Contacts Loaded |
|-------------|-----------------------|-------------------|-----------------|
| 2005V1-BK   | 0.8mm                 | PCB Mount         | Yes             |
| 2005V2-BK   | 1.2mm                 | PCB Mount         | Yes             |
| 2005V3-BK   | 1.0mm                 | PCB Mount         | Yes             |
| 2005V4-BK   | 1.6mm                 | PCB Mount         | Yes             |



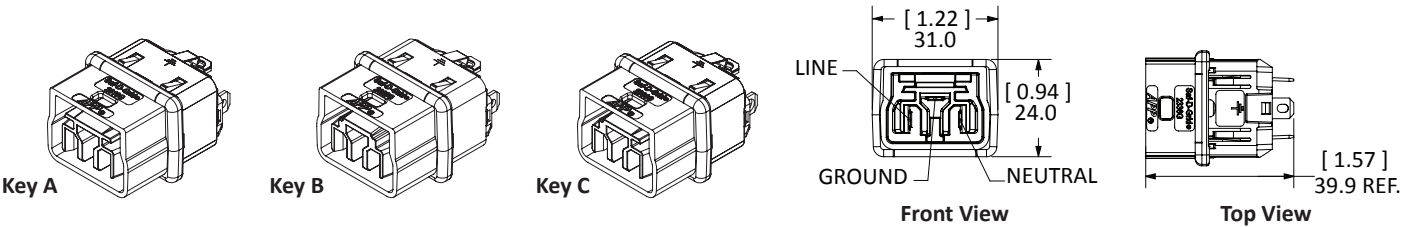
## 400V ULTRA SHORT RECEPTACLES

| Part Number  | Panel Mount Thickness | Termination Style | Contacts Loaded | Hot plug Current Rating | Disconnect Plug Rating |
|--------------|-----------------------|-------------------|-----------------|-------------------------|------------------------|
| 2006G1-BK    | 0.8mm                 | Crimp             | Yes             | 20A UL, CSA - 25A IEC   | 20A UL, CSA - 25A IEC  |
| 2006G2-BK    | 1.2mm                 | Crimp             | Yes             | 20A UL, CSA - 25A IEC   | 20A UL, CSA - 25A IEC  |
| 2006G3-BK    | 1.0mm                 | Crimp             | Yes             | 20A UL, CSA - 25A IEC   | 20A UL, CSA - 25A IEC  |
| 2006G4-BK    | 1.6mm                 | Crimp             | Yes             | 20A UL, CSA - 25A IEC   | 20A UL, CSA - 25A IEC  |
| 2006G1-NC-BK | 0.8mm                 | Crimp             | No              | 20A UL, CSA - 25A IEC   | 20A UL, CSA - 25A IEC  |
| 2006G2-NC-BK | 1.2mm                 | Crimp             | No              | 20A UL, CSA - 25A IEC   | 20A UL, CSA - 25A IEC  |
| 2006G3-NC-BK | 1.0mm                 | Crimp             | No              | 20A UL, CSA - 25A IEC   | 20A UL, CSA - 25A IEC  |
| 2006G4-NC-BK | 1.6mm                 | Crimp             | No              | 20A UL, CSA - 25A IEC   | 20A UL, CSA - 25A IEC  |

| Part Number  | Panel Mount Thickness | Termination Style | Contacts Loaded | Hot Plug Current Rating | Disconnect Plug Rating |
|--------------|-----------------------|-------------------|-----------------|-------------------------|------------------------|
| 2007G1-BK    | 0.8mm                 | Crimp             | Yes             | 30A UL, CSA, IEC        | 30A UL, CSA - 32A IEC  |
| 2007G2-BK    | 1.2mm                 | Crimp             | Yes             | 30A UL, CSA, IEC        | 30A UL, CSA - 32A IEC  |
| 2007G3-BK    | 1.0mm                 | Crimp             | Yes             | 30A UL, CSA, IEC        | 30A UL, CSA - 32A IEC  |
| 2007G4-BK    | 1.6mm                 | Crimp             | Yes             | 30A UL, CSA, IEC        | 30A UL, CSA - 32A IEC  |
| 2007G1-NC-BK | 0.8mm                 | Crimp             | No              | 30A UL, CSA, IEC        | 30A UL, CSA - 32A IEC  |
| 2007G2-NC-BK | 1.2mm                 | Crimp             | No              | 30A UL, CSA, IEC        | 30A UL, CSA - 32A IEC  |
| 2007G3-NC-BK | 1.0mm                 | Crimp             | No              | 30A UL, CSA, IEC        | 30A UL, CSA - 32A IEC  |
| 2007G4-NC-BK | 1.6mm                 | Crimp             | No              | 30A UL, CSA, IEC        | 30A UL, CSA - 32A IEC  |



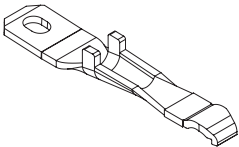
300V ULTRA SHORT RECEPTACLES



Mates Only with Saf-D-Grid® 2300 Series, 300V Cables

| Part Number | Key Configuration | Panel Mount Thickness | Termination Style | Contacts Loaded | Hot Plug Current Rating | Disconnect Plug Rating |
|-------------|-------------------|-----------------------|-------------------|-----------------|-------------------------|------------------------|
| 2316G1-BK   | A                 | 0.8mm                 | Crimp             | Yes             | 20A UL, CSA             | 20A UL, CSA            |
| 2316G2-BK   | A                 | 1.2mm                 | Crimp             | Yes             | 20A UL, CSA             | 20A UL, CSA            |
| 2316G3-BK   | A                 | 1.0mm                 | Crimp             | Yes             | 20A UL, CSA             | 20A UL, CSA            |
| 2316G4-BK   | A                 | 1.6mm                 | Crimp             | Yes             | 20A UL, CSA             | 20A UL, CSA            |
| 2326G1-BK   | B                 | 0.8mm                 | Crimp             | Yes             | 20A UL, CSA             | 20A UL, CSA            |
| 2326G2-BK   | B                 | 1.2mm                 | Crimp             | Yes             | 20A UL, CSA             | 20A UL, CSA            |
| 2326G3-BK   | B                 | 1.0mm                 | Crimp             | Yes             | 20A UL, CSA             | 20A UL, CSA            |
| 2326G4-BK   | B                 | 1.6mm                 | Crimp             | Yes             | 20A UL, CSA             | 20A UL, CSA            |
| 2336G1-BK   | C                 | 0.8mm                 | Crimp             | Yes             | 30A UL, CSA, IEC        | 30A UL, CSA - 32A IEC  |
| 2336G2-BK   | C                 | 1.2mm                 | Crimp             | Yes             | 30A UL, CSA, IEC        | 30A UL, CSA - 32A IEC  |
| 2336G3-BK   | C                 | 1.0mm                 | Crimp             | Yes             | 30A UL, CSA, IEC        | 30A UL, CSA - 32A IEC  |
| 2336G4-BK   | C                 | 1.6mm                 | Crimp             | Yes             | 30A UL, CSA, IEC        | 30A UL, CSA - 32A IEC  |

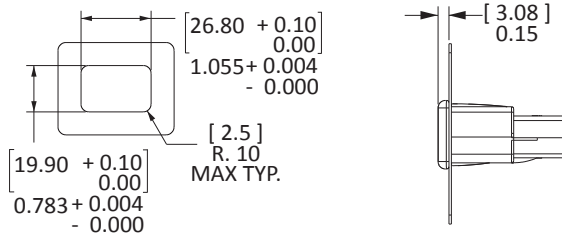
| Solder Contacts<br>For Ultra Short |                  |
|------------------------------------|------------------|
| 2016P1-LPBK                        | 18 AWG to 12 AWG |
| 2016P2-LPBK                        | 10 AWG           |



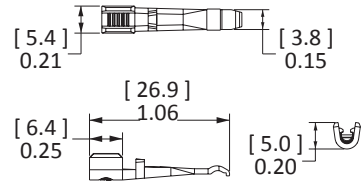
Ultra Short Solder Contact

## DRAWINGS | See Product Drawings on the Website for Additional Information

### Panel Cut Out For All Receptacle Types



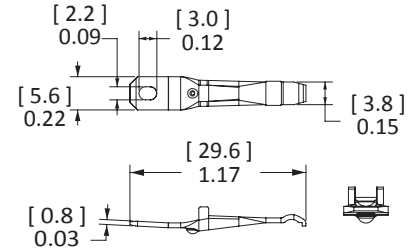
### Flush Mount & Short Contacts



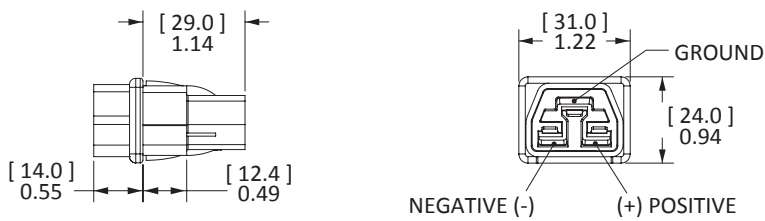
### Ultra Short Depth - For Solder Termination To Wire



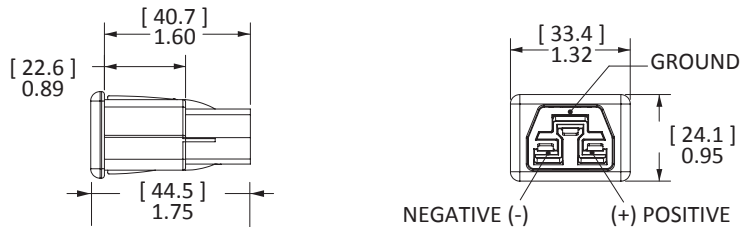
### Ultra Short Contacts



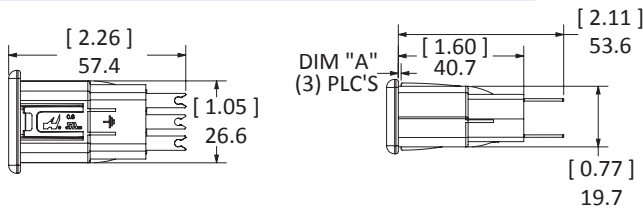
### Short Depth - For Crimp Termination To Wire



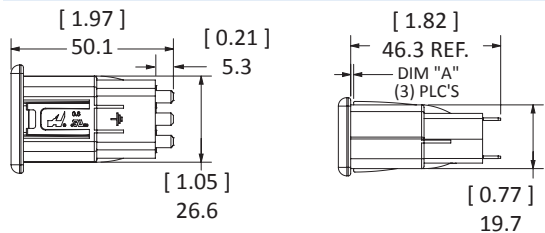
### Flush Mount - For Crimp Termination To Wire



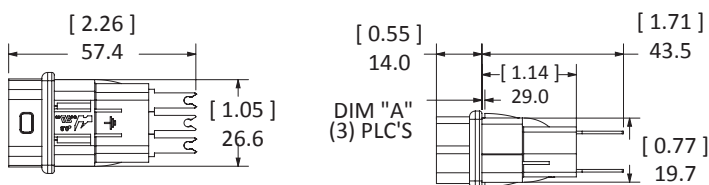
### Flush Mount - For Solder Termination To Wire



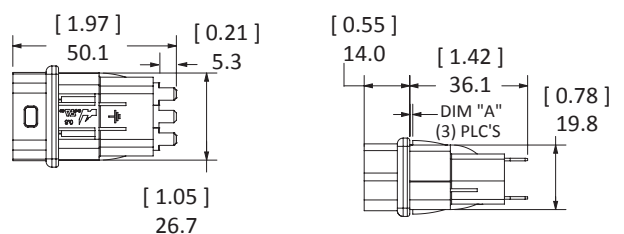
### Flush Mount - For Solder Termination To PCB



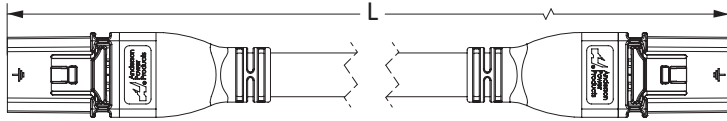
### Short Depth - For Solder Termination To Wire



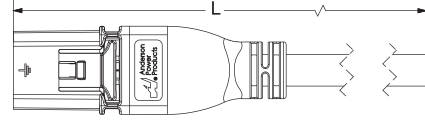
### Short Depth - For Solder Termination To PCB



## NORTH AMERICAN 600V CABLE CONFIGURATIONS



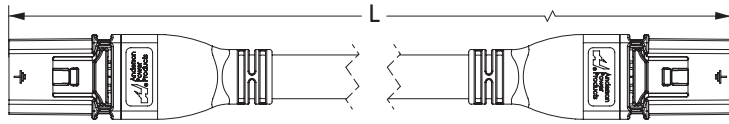
**Top View**  
Double Ended Plug Assembly



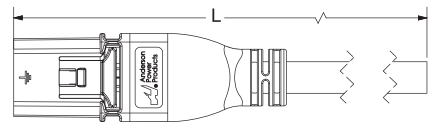
**Top View**  
Single Ended Plug Assembly

| Part Number | Connector 1      | Cable     | Connector 2      | Cordset Length | Voltage Rating Disconnect (AC) | Voltage Rating Current Interrupt (AC) | Current Rating | Maximum Temperature |
|-------------|------------------|-----------|------------------|----------------|--------------------------------|---------------------------------------|----------------|---------------------|
| 2031KZ1-BK  | Saf-D-Grid® 400V | 14 AWG ST | None             | 1m             | 600V                           | 400V                                  | 16A            | 105°C               |
| 2031KZ2-BK  | Saf-D-Grid® 400V | 14 AWG ST | None             | 2m             | 600V                           | 400V                                  | 16A            | 105°C               |
| 2031KZ3-BK  | Saf-D-Grid® 400V | 14 AWG ST | None             | 3m             | 600V                           | 400V                                  | 16A            | 105°C               |
| 2031KZ6-BK  | Saf-D-Grid® 400V | 14 AWG ST | None             | 6m             | 600V                           | 400V                                  | 16A            | 105°C               |
| 2031KK1-BK  | Saf-D-Grid® 400V | 14 AWG ST | Saf-D-Grid® 400V | 1m             | 600V                           | 400V                                  | 16A            | 105°C               |
| 2031KK2-BK  | Saf-D-Grid® 400V | 14 AWG ST | Saf-D-Grid® 400V | 2m             | 600V                           | 400V                                  | 16A            | 105°C               |
| 2031KK3-BK  | Saf-D-Grid® 400V | 14 AWG ST | Saf-D-Grid® 400V | 3m             | 600V                           | 400V                                  | 16A            | 105°C               |
| 2031KK6-BK  | Saf-D-Grid® 400V | 14 AWG ST | Saf-D-Grid® 400V | 6m             | 600V                           | 400V                                  | 16A            | 105°C               |
| 2035KZ1-BK  | Saf-D-Grid® 400V | 12 AWG ST | None             | 1m             | 600V                           | 400V                                  | 25A            | 105°C               |
| 2035KZ2-BK  | Saf-D-Grid® 400V | 12 AWG ST | None             | 2m             | 600V                           | 400V                                  | 25A            | 105°C               |
| 2035KZ3-BK  | Saf-D-Grid® 400V | 12 AWG ST | None             | 3m             | 600V                           | 400V                                  | 25A            | 105°C               |
| 2035KZ6-BK  | Saf-D-Grid® 400V | 12 AWG ST | None             | 6m             | 600V                           | 400V                                  | 25A            | 105°C               |
| 2035KK1-BK  | Saf-D-Grid® 400V | 12 AWG ST | Saf-D-Grid® 400V | 1m             | 600V                           | 400V                                  | 25A            | 105°C               |
| 2035KK2-BK  | Saf-D-Grid® 400V | 12 AWG ST | Saf-D-Grid® 400V | 2m             | 600V                           | 400V                                  | 25A            | 105°C               |
| 2035KK3-BK  | Saf-D-Grid® 400V | 12 AWG ST | Saf-D-Grid® 400V | 3m             | 600V                           | 400V                                  | 25A            | 105°C               |
| 2035KK6-BK  | Saf-D-Grid® 400V | 12 AWG ST | Saf-D-Grid® 400V | 6m             | 600V                           | 400V                                  | 25A            | 105°C               |
| 2036KZ1-BK  | Saf-D-Grid® 400V | 16 AWG ST | None             | 1m             | 600V                           | 400V                                  | 13A            | 105°C               |
| 2036KZ2-BK  | Saf-D-Grid® 400V | 16 AWG ST | None             | 2m             | 600V                           | 400V                                  | 13A            | 105°C               |
| 2036KZ3-BK  | Saf-D-Grid® 400V | 16 AWG ST | None             | 3m             | 600V                           | 400V                                  | 13A            | 105°C               |
| 2036KZ6-BK  | Saf-D-Grid® 400V | 16 AWG ST | None             | 6m             | 600V                           | 400V                                  | 13A            | 105°C               |
| 2036KK1-BK  | Saf-D-Grid® 400V | 16 AWG ST | Saf-D-Grid® 400V | 1m             | 600V                           | 400V                                  | 13A            | 105°C               |
| 2036KK2-BK  | Saf-D-Grid® 400V | 16 AWG ST | Saf-D-Grid® 400V | 2m             | 600V                           | 400V                                  | 13A            | 105°C               |
| 2036KK3-BK  | Saf-D-Grid® 400V | 16 AWG ST | Saf-D-Grid® 400V | 3m             | 600V                           | 400V                                  | 13A            | 105°C               |
| 2036KK6-BK  | Saf-D-Grid® 400V | 16 AWG ST | Saf-D-Grid® 400V | 6m             | 600V                           | 400V                                  | 13A            | 105°C               |
| 2038KZ1-BK  | Saf-D-Grid® 400V | 10 AWG ST | None             | 1m             | 600V                           | 400V                                  | 30A            | 105°C               |
| 2038KZ2-BK  | Saf-D-Grid® 400V | 10 AWG ST | None             | 2m             | 600V                           | 400V                                  | 30A            | 105°C               |
| 2038KZ3-BK  | Saf-D-Grid® 400V | 10 AWG ST | None             | 3m             | 600V                           | 400V                                  | 30A            | 105°C               |
| 2038KZ6-BK  | Saf-D-Grid® 400V | 10 AWG ST | None             | 6m             | 600V                           | 400V                                  | 30A            | 105°C               |
| 2038KK1-BK  | Saf-D-Grid® 400V | 10 AWG ST | Saf-D-Grid® 400V | 1m             | 600V                           | 400V                                  | 30A            | 105°C               |
| 2038KK2-BK  | Saf-D-Grid® 400V | 10 AWG ST | Saf-D-Grid® 400V | 2m             | 600V                           | 400V                                  | 30A            | 105°C               |
| 2038KK3-BK  | Saf-D-Grid® 400V | 10 AWG ST | Saf-D-Grid® 400V | 3m             | 600V                           | 400V                                  | 30A            | 105°C               |
| 2038KK6-BK  | Saf-D-Grid® 400V | 10 AWG ST | Saf-D-Grid® 400V | 6m             | 600V                           | 400V                                  | 30A            | 105°C               |

## METRIC CABLE CONFIGURATIONS



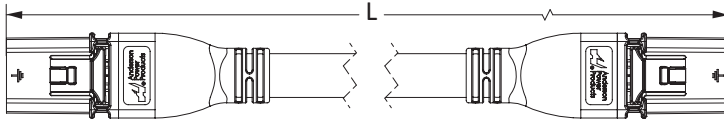
**Top View**  
Double Ended Plug Assembly



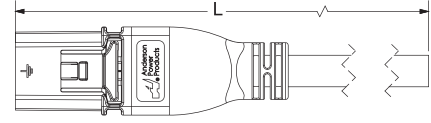
**Top View**  
Single Ended Plug Assembly

| Part Number | Connector 1      | Cable                        | Connector 2      | Cordset Length | Voltage Rating Disconnect (AC/DC) | Voltage Rating Current Interrupt (AC/DC) | Current Rating                            | Maximum Temperature |
|-------------|------------------|------------------------------|------------------|----------------|-----------------------------------|------------------------------------------|-------------------------------------------|---------------------|
| 2041KZ1-BK  | Saf-D-Grid® 400V | 1.5mm <sup>2</sup> H05VV-F   | None             | 1m             | 300V                              | 300V                                     | 16A                                       | 70°C                |
| 2041KZ2-BK  | Saf-D-Grid® 400V | 1.5mm <sup>2</sup> H05VV-F   | None             | 2m             | 300V                              | 300V                                     | 16A                                       | 70°C                |
| 2041KZ3-BK  | Saf-D-Grid® 400V | 1.5mm <sup>2</sup> H05VV-F   | None             | 3m             | 300V                              | 300V                                     | 16A                                       | 70°C                |
| 2041KZ6-BK  | Saf-D-Grid® 400V | 1.5mm <sup>2</sup> H05VV-F   | None             | 6m             | 300V                              | 300V                                     | 16A                                       | 70°C                |
| 2041KK1-BK  | Saf-D-Grid® 400V | 1.5mm <sup>2</sup> H05VV-F   | Saf-D-Grid® 400V | 1m             | 300V                              | 300V                                     | 16A                                       | 70°C                |
| 2041KK2-BK  | Saf-D-Grid® 400V | 1.5mm <sup>2</sup> H05VV-F   | Saf-D-Grid® 400V | 2m             | 300V                              | 300V                                     | 16A                                       | 70°C                |
| 2041KK3-BK  | Saf-D-Grid® 400V | 1.5mm <sup>2</sup> H05VV-F   | Saf-D-Grid® 400V | 3m             | 300V                              | 300V                                     | 16A                                       | 70°C                |
| 2041KK6-BK  | Saf-D-Grid® 400V | 1.5mm <sup>2</sup> H05VV-F   | Saf-D-Grid® 400V | 6m             | 300V                              | 300V                                     | 16A                                       | 70°C                |
| 2047KZ1-BK  | Saf-D-Grid® 400V | 2.5mm <sup>2</sup> H05VV-F   | None             | 1m             | 300V                              | 300V                                     | 25A                                       | 70°C                |
| 2047KZ2-BK  | Saf-D-Grid® 400V | 2.5mm <sup>2</sup> H05VV-F   | None             | 2m             | 300V                              | 300V                                     | 25A                                       | 70°C                |
| 2047KZ3-BK  | Saf-D-Grid® 400V | 2.5mm <sup>2</sup> H05VV-F   | None             | 3m             | 300V                              | 300V                                     | 25A                                       | 70°C                |
| 2047KZ6-BK  | Saf-D-Grid® 400V | 2.5mm <sup>2</sup> H05VV-F   | None             | 6m             | 300V                              | 300V                                     | 25A                                       | 70°C                |
| 2047KK1-BK  | Saf-D-Grid® 400V | 2.5mm <sup>2</sup> H05VV-F   | Saf-D-Grid® 400V | 1m             | 300V                              | 300V                                     | 25A                                       | 70°C                |
| 2047KK2-BK  | Saf-D-Grid® 400V | 2.5mm <sup>2</sup> H05VV-F   | Saf-D-Grid® 400V | 2m             | 300V                              | 300V                                     | 25A                                       | 70°C                |
| 2047KK3-BK  | Saf-D-Grid® 400V | 2.5mm <sup>2</sup> H05VV-F   | Saf-D-Grid® 400V | 3m             | 300V                              | 300V                                     | 25A                                       | 70°C                |
| 2047KK6-BK  | Saf-D-Grid® 400V | 2.5mm <sup>2</sup> H05VV-F   | Saf-D-Grid® 400V | 6m             | 300V                              | 300V                                     | 25A                                       | 70°C                |
| 2049KZ2-BK  | Saf-D-Grid® 400V | 4.0mm <sup>2</sup> H05V2V2-F | None             | 2m             | 300V                              | 300V                                     | 32A (Disconnect)<br>30A Current Interrupt | 90°C                |
| 2049KZ3-BK  | Saf-D-Grid® 400V | 4.0mm <sup>2</sup> H05V2V2-F | None             | 3m             | 300V                              | 300V                                     | 32A (Disconnect)<br>30A Current Interrupt | 90°C                |
| 2049KZ6-BK  | Saf-D-Grid® 400V | 4.0mm <sup>2</sup> H05V2V2-F | None             | 6m             | 300V                              | 300V                                     | 32A (Disconnect)<br>30A Current Interrupt | 90°C                |
| 2049KK2-BK  | Saf-D-Grid® 400V | 4.0mm <sup>2</sup> H05V2V2-F | Saf-D-Grid® 400V | 2m             | 300V                              | 300V                                     | 32A (Disconnect)<br>30A Current Interrupt | 90°C                |
| 2049KK3-BK  | Saf-D-Grid® 400V | 4.0mm <sup>2</sup> H05V2V2-F | Saf-D-Grid® 400V | 3m             | 300V                              | 300V                                     | 32A (Disconnect)<br>30A Current Interrupt | 90°C                |
| 2049KK6-BK  | Saf-D-Grid® 400V | 4.0mm <sup>2</sup> H05V2V2-F | Saf-D-Grid® 400V | 6m             | 300V                              | 300V                                     | 32A (Disconnect)<br>30A Current Interrupt | 90°C                |

## UNIVERSAL CABLE CONFIGURATIONS



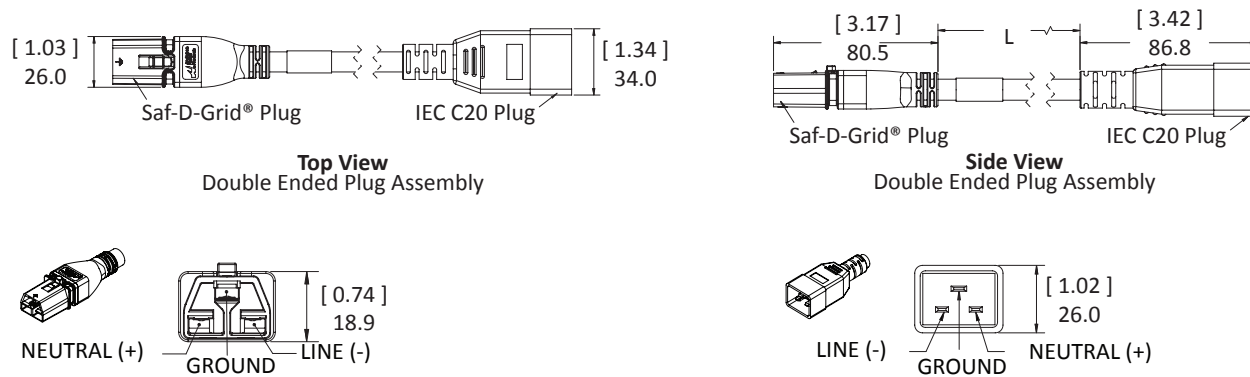
**Top View**  
Double Ended Plug Assembly



**Top View**  
Single Ended Plug Assembly

| Part Number | Connector 1      | Cable                                   | Connector 2      | Cordset Length | Voltage Rating Disconnect (AC/DC) | Voltage Rating Current Interrupt (AC/DC) | Current Rating (UL, CSA / IEC) | Temperature Rating |
|-------------|------------------|-----------------------------------------|------------------|----------------|-----------------------------------|------------------------------------------|--------------------------------|--------------------|
| 2050KZ1-BK  | Saf-D-Grid® 400V | 14 AWG SJT / 1.5mm <sup>2</sup> H05VV-F | None             | 1m             | 300V                              | 300V                                     | 16A / 16A                      | 90°C UL / 70°C IEC |
| 2050KZ2-BK  | Saf-D-Grid® 400V | 14 AWG SJT / 1.5mm <sup>2</sup> H05VV-F | None             | 2m             | 300V                              | 300V                                     | 16A / 16A                      | 90°C UL / 70°C IEC |
| 2050KZ3-BK  | Saf-D-Grid® 400V | 14 AWG SJT / 1.5mm <sup>2</sup> H05VV-F | None             | 3m             | 300V                              | 300V                                     | 16A / 16A                      | 90°C UL / 70°C IEC |
| 2050KZ6-BK  | Saf-D-Grid® 400V | 14 AWG SJT / 1.5mm <sup>2</sup> H05VV-F | None             | 6m             | 300V                              | 300V                                     | 16A / 16A                      | 90°C UL / 70°C IEC |
| 2050KK1-BK  | Saf-D-Grid® 400V | 14 AWG SJT / 1.5mm <sup>2</sup> H05VV-F | Saf-D-Grid® 400V | 1m             | 300V                              | 300V                                     | 16A / 16A                      | 90°C UL / 70°C IEC |
| 2050KK2-BK  | Saf-D-Grid® 400V | 14 AWG SJT / 1.5mm <sup>2</sup> H05VV-F | Saf-D-Grid® 400V | 2m             | 300V                              | 300V                                     | 16A / 16A                      | 90°C UL / 70°C IEC |
| 2050KK3-BK  | Saf-D-Grid® 400V | 14 AWG SJT / 1.5mm <sup>2</sup> H05VV-F | Saf-D-Grid® 400V | 3m             | 300V                              | 300V                                     | 16A / 16A                      | 90°C UL / 70°C IEC |
| 2050KK6-BK  | Saf-D-Grid® 400V | 14 AWG SJT / 1.5mm <sup>2</sup> H05VV-F | Saf-D-Grid® 400V | 6m             | 300V                              | 300V                                     | 16A / 16A                      | 90°C UL / 70°C IEC |
| 2058KZ1-BK  | Saf-D-Grid® 400V | 12 AWG SJT / 2.5mm <sup>2</sup> H05VV-F | None             | 1m             | 300V                              | 300V                                     | 20A / 25A                      | 90°C UL / 70°C IEC |
| 2058KZ2-BK  | Saf-D-Grid® 400V | 12 AWG SJT / 2.5mm <sup>2</sup> H05VV-F | None             | 2m             | 300V                              | 300V                                     | 20A / 25A                      | 90°C UL / 70°C IEC |
| 2058KZ3-BK  | Saf-D-Grid® 400V | 12 AWG SJT / 2.5mm <sup>2</sup> H05VV-F | None             | 3m             | 300V                              | 300V                                     | 20A / 25A                      | 90°C UL / 70°C IEC |
| 2058KZ6-BK  | Saf-D-Grid® 400V | 12 AWG SJT / 2.5mm <sup>2</sup> H05VV-F | None             | 6m             | 300V                              | 300V                                     | 20A / 25A                      | 90°C UL / 70°C IEC |
| 2058KK1-BK  | Saf-D-Grid® 400V | 12 AWG SJT / 2.5mm <sup>2</sup> H05VV-F | Saf-D-Grid® 400V | 1m             | 300V                              | 300V                                     | 20A / 25A                      | 90°C UL / 70°C IEC |
| 2058KK2-BK  | Saf-D-Grid® 400V | 12 AWG SJT / 2.5mm <sup>2</sup> H05VV-F | Saf-D-Grid® 400V | 2m             | 300V                              | 300V                                     | 20A / 25A                      | 90°C UL / 70°C IEC |
| 2058KK3-BK  | Saf-D-Grid® 400V | 12 AWG SJT / 2.5mm <sup>2</sup> H05VV-F | Saf-D-Grid® 400V | 3m             | 300V                              | 300V                                     | 20A / 25A                      | 90°C UL / 70°C IEC |
| 2058KK6-BK  | Saf-D-Grid® 400V | 12 AWG SJT / 2.5mm <sup>2</sup> H05VV-F | Saf-D-Grid® 400V | 6m             | 300V                              | 300V                                     | 20A / 25A                      | 90°C UL / 70°C IEC |

## SDG TO IEC 320 CABLE CONFIGURATIONS | C20 SHOWN



| Part Number | Connector 1      | Cable                                   | Connector 2 | Cordset Length | Voltage Rating Disconnect (AC) | Voltage Rating Current Interrupt (AC) | Current Rating (UL, CSA / IEC) | Temperature Rating |
|-------------|------------------|-----------------------------------------|-------------|----------------|--------------------------------|---------------------------------------|--------------------------------|--------------------|
| 2050KN1-BK  | Saf-D-Grid® 400V | 14 AWG SJT / 1.5mm <sup>2</sup> H05VV-F | IEC 320 C14 | 1m             | 250V                           | 250V                                  | 15A / 10A                      | 50°C               |
| 2050KN2-BK  | Saf-D-Grid® 400V | 14 AWG SJT / 1.5mm <sup>2</sup> H05VV-F | IEC 320 C14 | 2m             | 250V                           | 250V                                  | 15A / 10A                      | 50°C               |
| 2050KN3-BK  | Saf-D-Grid® 400V | 14 AWG SJT / 1.5mm <sup>2</sup> H05VV-F | IEC 320 C14 | 3m             | 250V                           | 250V                                  | 15A / 10A                      | 50°C               |
| 2050KH1-BK  | Saf-D-Grid® 400V | 14 AWG SJT / 1.5mm <sup>2</sup> H05VV-F | IEC 320 C20 | 1m             | 250V                           | 250V                                  | 16A / 16A                      | 50°C               |
| 2050KH2-BK  | Saf-D-Grid® 400V | 14 AWG SJT / 1.5mm <sup>2</sup> H05VV-F | IEC 320 C20 | 2m             | 250V                           | 250V                                  | 16A / 16A                      | 50°C               |
| 2050KH3-BK  | Saf-D-Grid® 400V | 14 AWG SJT / 1.5mm <sup>2</sup> H05VV-F | IEC 320 C20 | 3m             | 250V                           | 250V                                  | 16A / 16A                      | 50°C               |
| 2058KH1-BK  | Saf-D-Grid® 400V | 12 AWG SJT / 2.5mm <sup>2</sup> H05VV-F | IEC 320 C20 | 1m             | 250V                           | 250V                                  | 20A / 16A                      | 50°C               |
| 2058KH2-BK  | Saf-D-Grid® 400V | 12 AWG SJT / 2.5mm <sup>2</sup> H05VV-F | IEC 320 C20 | 2m             | 250V                           | 250V                                  | 20A / 16A                      | 50°C               |
| 2058KH3-BK  | Saf-D-Grid® 400V | 12 AWG SJT / 2.5mm <sup>2</sup> H05VV-F | IEC 320 C20 | 3m             | 250V                           | 250V                                  | 20A / 16A                      | 50°C               |

## TOOLING

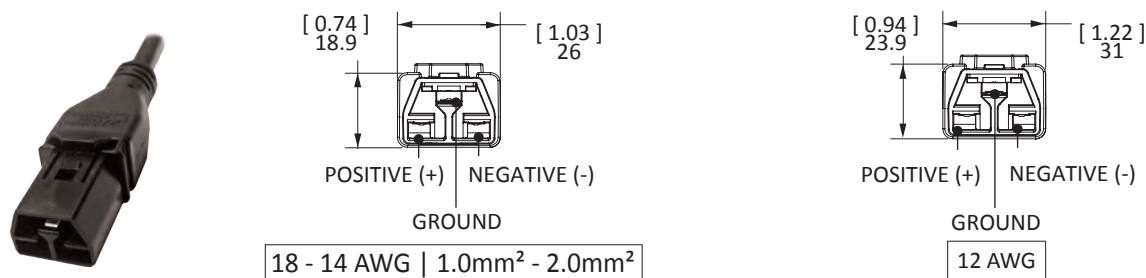
Tooling Available Directly From Anderson (all customers)

| Contact Part Number | Description                            | Hand Tool | Automated Tooling              |            |
|---------------------|----------------------------------------|-----------|--------------------------------|------------|
|                     |                                        |           | Press                          | Applicator |
| 2003G1              | Receptacle Contact, Reeled             | -         | 115V = TE0101<br>230V = TE0102 | TD0104     |
| 2003G1-LPBK         | Receptacle Contact, Loose Piece        | 1309G9    | -                              | -          |
| 2003G2-LPBK         | Receptacle Contact, Loose Piece, 10AWG | 1309G10   | -                              | -          |

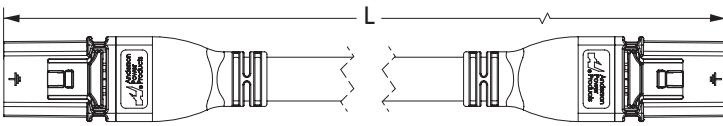
**NOTE:** Tooling recommended by Anderson is required for UL, CSA & other safety agency compliance.  
Use of unapproved tooling will void connector warranty.

## WIDE "T" LATCH PLUG

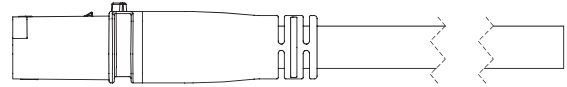
Wide latch release button across the top of the plug body to allow easy latch access around PSU handles or other obstacles.



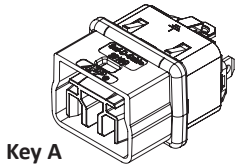
## NORTH AMERICAN 300V CONFIGURATIONS | WITH KEYS FOR AC USAGE



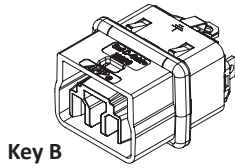
**Top View**  
Double Ended Plug Assembly



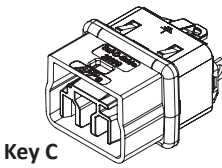
**Side View**  
Double Ended Plug Assembly



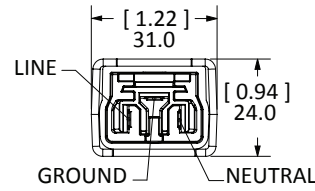
**Key A**



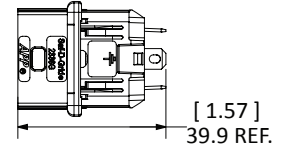
**Key B**



**Key C**



**Front View**



**Top View**

| Part Number  | Connector 1            | Cable      | Connector 2            | Cordset Length | Voltage Rating Disconnect (AC/DC) | Voltage Rating Current Interrupt (AC/DC) | Current Rating (UL, CSA / IEC) | Temperature Rating |
|--------------|------------------------|------------|------------------------|----------------|-----------------------------------|------------------------------------------|--------------------------------|--------------------|
| 2352-1100-10 | Saf-D-Grid® 300V KEY A | 14 AWG SJT | None                   | 1m             | 300V                              | 300V                                     | 16A                            | 90°C               |
| 2352-1100-20 | Saf-D-Grid® 300V KEY A | 14 AWG SJT | None                   | 2m             | 300V                              | 300V                                     | 16A                            | 90°C               |
| 2352-1100-30 | Saf-D-Grid® 300V KEY A | 14 AWG SJT | None                   | 3m             | 300V                              | 300V                                     | 16A                            | 90°C               |
| 2352-1100-60 | Saf-D-Grid® 300V KEY A | 14 AWG SJT | None                   | 6m             | 300V                              | 300V                                     | 16A                            | 90°C               |
| 2352-1200-20 | Saf-D-Grid® 300V KEY B | 14 AWG SJT | None                   | 2m             | 300V                              | 300V                                     | 16A                            | 90°C               |
| 2352-1200-30 | Saf-D-Grid® 300V KEY B | 14 AWG SJT | None                   | 3m             | 300V                              | 300V                                     | 16A                            | 90°C               |
| 2352-1200-60 | Saf-D-Grid® 300V KEY B | 14 AWG SJT | None                   | 6m             | 300V                              | 300V                                     | 16A                            | 90°C               |
| 2352-1112-10 | Saf-D-Grid® 300V KEY A | 14 AWG SJT | Saf-D-Grid® 300V KEY B | 1m             | 300V                              | 300V                                     | 16A                            | 90°C               |
| 2352-1112-20 | Saf-D-Grid® 300V KEY A | 14 AWG SJT | Saf-D-Grid® 300V KEY B | 2m             | 300V                              | 300V                                     | 16A                            | 90°C               |
| 2352-1112-30 | Saf-D-Grid® 300V KEY A | 14 AWG SJT | Saf-D-Grid® 300V KEY B | 3m             | 300V                              | 300V                                     | 16A                            | 90°C               |
| 2352-1112-60 | Saf-D-Grid® 300V KEY A | 14 AWG SJT | Saf-D-Grid® 300V KEY B | 6m             | 300V                              | 300V                                     | 20A                            | 90°C               |
| 2351-1111-20 | Saf-D-Grid® 300V KEY A | 12 AWG SJT | Saf-D-Grid® 300V KEY A | 2m             | 300V                              | 300V                                     | 20A                            | 90°C               |
| 2351-1200-10 | Saf-D-Grid® 300V KEY B | 12 AWG SJT | None                   | 1m             | 300V                              | 300V                                     | 20A                            | 90°C               |
| 2351-1200-20 | Saf-D-Grid® 300V KEY B | 12 AWG SJT | None                   | 2m             | 300V                              | 300V                                     | 20A                            | 90°C               |
| 2351-1200-30 | Saf-D-Grid® 300V KEY B | 12 AWG SJT | None                   | 3m             | 300V                              | 300V                                     | 20A                            | 90°C               |
| 2351-1200-60 | Saf-D-Grid® 300V KEY B | 12 AWG SJT | None                   | 6m             | 300V                              | 300V                                     | 20A                            | 90°C               |
| 2351-1112-20 | Saf-D-Grid® 300V KEY A | 12 AWG SJT | Saf-D-Grid® 300V KEY B | 2m             | 300V                              | 300V                                     | 20A                            | 90°C               |
| 2351-1112-30 | Saf-D-Grid® 300V KEY A | 12 AWG SJT | Saf-D-Grid® 300V KEY B | 3m             | 300V                              | 300V                                     | 20A                            | 90°C               |
| 2351-1112-60 | Saf-D-Grid® 300V KEY A | 12 AWG SJT | Saf-D-Grid® 300V KEY B | 6m             | 300V                              | 300V                                     | 20A                            | 90°C               |
| 2350-1300-10 | Saf-D-Grid® 300V KEY C | 10 AWG SJT | None                   | 1m             | 300V                              | 300V                                     | 30A                            | 90°C               |
| 2350-1300-20 | Saf-D-Grid® 300V KEY C | 10 AWG SJT | None                   | 2m             | 300V                              | 300V                                     | 30A                            | 90°C               |
| 2350-1300-30 | Saf-D-Grid® 300V KEY C | 10 AWG SJT | None                   | 3m             | 300V                              | 300V                                     | 30A                            | 90°C               |
| 2350-1300-60 | Saf-D-Grid® 300V KEY C | 10 AWG SJT | None                   | 6m             | 300V                              | 300V                                     | 30A                            | 90°C               |



## Why Anderson Power Products®

Anderson Power Products® is provider of mid to high power connectors for both AC and DC applications. Since 1877, Anderson™ has been synonymous with reliable products and has been the chosen power connection for material handling equipment for 40 years. Today, the lessons learned from those demanding applications have propelled our products into a wide number of industries from rail to data communications.

Anderson Power Products® is a subsidiary of IDEAL® INDUSTRIES, INC., a global enterprise with companies serving technicians and workers across a wide rang of industries, from electrical to construction to aerospace to automotive.

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IDEAL INDUSTRIES, INC.

IDEAL Corporate | 1375 Park Avenue  
Sycamore, Illinois 60178  
<https://www.idealindustries.com>

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## CUSTOM CONFIGURATIONS AVAILABLE

The needs of every system are different. If you don't see a configuration that fits your application, contact inside sales to see if a customized offering can address your specific requirements.



### HEADQUARTERS

Anderson Power Products®  
13 Pratts Junction Road  
Sterling, MA 01564-2305 USA  
T: 978-422-3600  
F: 978-422-0128

### EUROPE

Anderson Power Products® Ltd.  
Unit 3 Europa Court  
Europa Boulevard  
Westbrook, Warrington  
Cheshire, WA5 7TN United Kingdom  
T: +44 (0) 1925 428390  
F: +44 (0) 1925 520203

### ASIA / PACIFIC

IDEAL Anderson Asia Pacific Ltd.  
Unit 922-928, Topsail Plaza  
11 On Sum Street  
Shatin N.T., Hong Kong  
T: +(852) 2636 0836  
F: +(852) 2635 9036

### CHINA

IDEAL Anderson Technologies (Shenzhen) Ltd.  
Block A8, Tantou Western Industrial Park  
Songgang, Baoan District  
Shenzhen, P.R. China 518105  
T: +(86) 755 2768 2118/3393 2388  
F: +(86) 755 2768 2218

### TAIWAN

IDEAL Anderson Asia Pacific Ltd.  
Taiwan Branch, 4F-2, No.116  
Dadun 20th St., Situn District  
Taichung City 407, Taiwan (R.O.C.)  
T: +(886) 4 2310 6451  
F: +(886) 4 2310 6460

