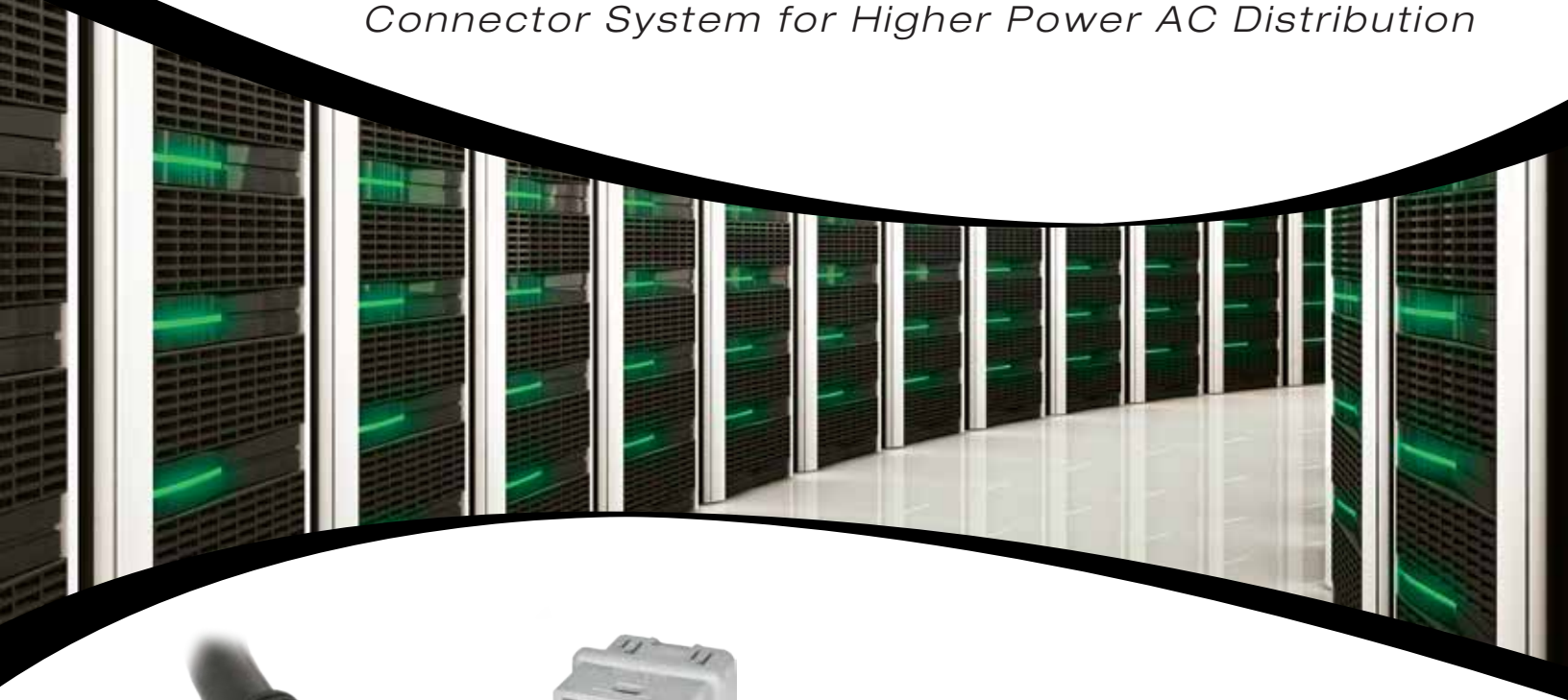




Saf-D-Grid[®] 300

Connector System for Higher Power AC Distribution



140% MORE POWER THAN IEC 60320 C13 / 14

- Rated for 300 Volts & 30 Amps

SAME SPACE AS IEC 60320 C13 / 14

- Identical Panel Cutout

HIGHER OPERATING TEMPERATURE THAN C13 / 14

- 80°C Cord Set & 140°C Receptacle

INTEGRAL PUSH BUTTON LATCH

- Secures Connection without Separate Accessories

APP
Anderson Power Products[®]

An **IDEAL** Company

Safe Connections for Higher Power AC Distribution Systems

| SPECIFICATIONS |

MECHANICAL

| | |
|--|---------------------------|
| Contact Retention | 20 lbf 89 N |
| Plug Latch Retention | 20 lbf 89 N |
| Panel Latch Retention | 60 lbf 267 N |
| Durability | 5,000 cycles - no load |
| Creep & Clearance per UL & IEC 60950 Between live parts of different polarity, earthing circuit and the mating surface. | 7.0 mm |
| Mechanical Shock ^A IEC 60512-4-6C | 50g's |
| Vibration, High Frequency ^A IEC 60512-4-6d | 20g's |

^ATested on similar contact systems in Saf-D-Grid® 400.

ELECTRICAL

| | |
|--|--|
| Voltage (AC/DC) • UL 1977 / CSA 22.2 | 600 |
| Current Rating (Amperes) | 30 |
| Wire Range (AWG) (mm²) | #10 to #18 6.0 to 0.75 |
| Hot Plug Rated • 250 cycles • 250 cycles (UL) | 400V @ 440A in-rush 300V @ 30A load |
| Dielectric Withstanding Voltage | 3,300 |
| Operating Temperature Plug | -20° to 80°C -4° to 176°F |
| Operating Temperature Receptacle | -20° to 140°C -4° to 284°F |
| Fault Current Withstand • UL 467 | 14 AWG, 300A, 4 Sec. |
| Shield Ground Impedance • UL 1977 | Pass |

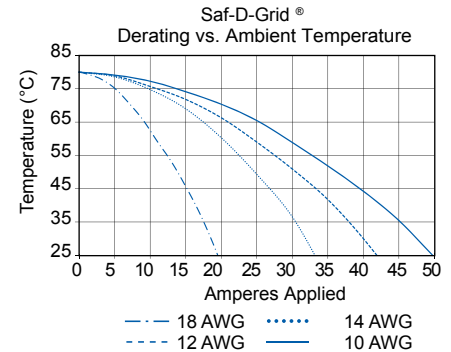
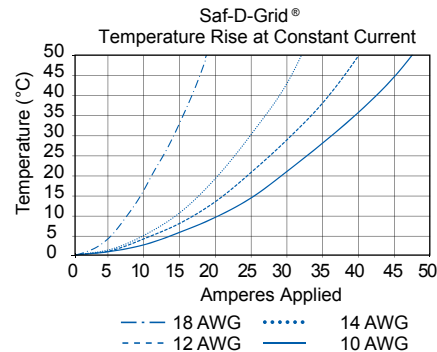
MATERIALS

| | |
|--|------------------------|
| Housing • Hi Temp Nylon + 30% GF, UL94 V-0, Halogen Free • Polycarbonate UL94 V-0 | |
| Springs | Stainless Steel |
| Contacts | Copper, Silver Plate |
| Shield | Tin Plated Steel |
| Cable / Strain Relief | Thermoplastic UL94 V-2 |

Protection

IEC 60529 IP20

| TEMPERATURE CHARTS |



| UL 1977 RATINGS |

| Wire Size | Conditions of Use | Agency Rating | Rated Current Amp | Rated Voltage AC / DC |
|-----------|-------------------|---------------|-------------------|-----------------------|
| 18 AWG | Disconnect Only | CNR | 12 | 600 |
| | Current Interrupt | UL 1977 | 18 | |
| 16 AWG | Disconnect Only | CNR | 14 | 600 |
| | Current Interrupt | UL 1977 | 18 | |
| 14 AWG | Disconnect Only | CNR | 20 | 600 |
| | Current Interrupt | UL 1977 | 35 | |
| 12 AWG | Disconnect Only | CNR | 30 | 600 |
| | Current Interrupt | UL 1977 | 40 | |
| 10 AWG | Disconnect Only | CNR | 30 | 600 |
| | Current Interrupt | UL 1977 | 40 | |

| UL 817 RATINGS |

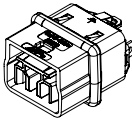
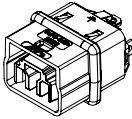
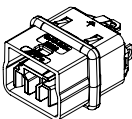
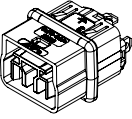
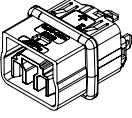
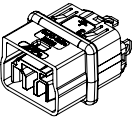
| Wire Size | Cable Type | Amps (Current Interrupt 300V Max) |
|-----------|------------|-----------------------------------|
| 18 AWG | SJT | 10 |
| 14 AWG | | 18 |
| 12 AWG | | 20 |
| 10 AWG | | 30 |

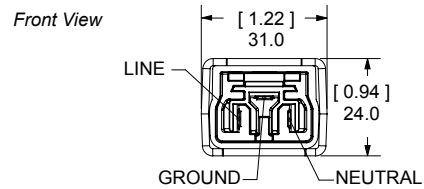
- "Disconnect Only" indicates the devices are not for interrupting current.
- "Current Interrupt" indicates the devices have been investigated for the interruption of current.
- APP assembly tooling is required for UL, CSA & other safety agency compliance. Use of unapproved tooling will void connector warranty.
- 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.
- CNR - indicates investigation to Canadian National Standards, C22.2 No. 182.3.
- UL 817 recognized or listed cord sets under UL file number E 343569.



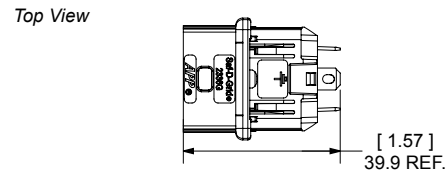
| RECEPTACLES | - For solder termination to wire

Assembled Receptacle: Housings and Contacts

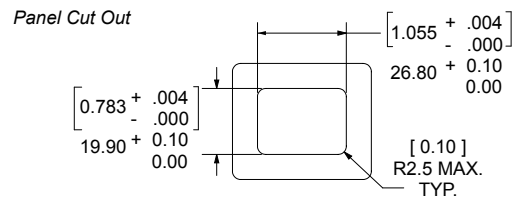
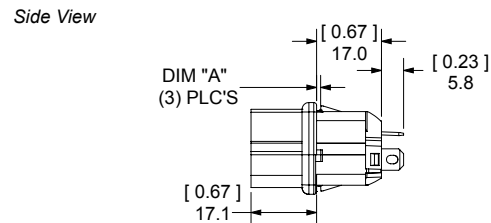
| Shielding | Key* | Panel Thickness | Bulk Part Number | Std. Pack |
|--|------------|--|------------------|-----------|
| Shielded  | A | 0.8 mm | 2316G1S-BK | 100 |
| | | 1.0 mm | 2316G3S-BK | 100 |
| | | 1.2 mm | 2316G2S-BK | 100 |
| | | 1.6 mm | 2316G4S-BK | 100 |
| | | 2.0 mm | 2316G5S-BK | 100 |
| | | 2.5 mm | 2316G6S-BK | 100 |
| | |  | B | 0.8 mm |
| 1.0 mm | 2326G3S-BK | | | 100 |
| 1.2 mm | 2326G2S-BK | | | 100 |
| 1.6 mm | 2326G4S-BK | | | 100 |
| 2.0 mm | 2326G5S-BK | | | 100 |
| 2.5 mm | 2326G6S-BK | | | 100 |
|  | C | | | 0.8 mm |
| | | 1.0 mm | 2336G3S-BK | 100 |
| | | 1.2 mm | 2336G2S-BK | 100 |
| | | 1.6 mm | 2336G4S-BK | 100 |
| | | 2.0 mm | 2336G5S-BK | 100 |
| | | 2.5 mm | 2336G6S-BK | 100 |
| | | Not Shielded  | A | 0.8 mm |
| 1.0 mm | 2316G3-BK | | | 100 |
| 1.2 mm | 2316G2-BK | | | 100 |
| 1.6 mm | 2316G4-BK | | | 100 |
| 2.0 mm | 2316G5-BK | | | 100 |
| 2.5 mm | 2316G6-BK | | | 100 |
|  | B | | | 0.8 mm |
| | | 1.0 mm | 2326G3-BK | 100 |
| | | 1.2 mm | 2326G2-BK | 100 |
| | | 1.6 mm | 2326G4-BK | 100 |
| | | 2.0 mm | 2326G5-BK | 100 |
| | | 2.5 mm | 2326G6-BK | 100 |
| | |  | C | 0.8 mm |
| 1.0 mm | 2336G3-BK | | | 100 |
| 1.2 mm | 2336G2-BK | | | 100 |
| 1.6 mm | 2336G4-BK | | | 100 |
| 2.0 mm | 2336G5-BK | | | 100 |
| 2.5 mm | 2336G6-BK | | | 100 |



KEY "A" SHOWN



KEY "A" SHOWN



* Keys Permit Mating Only with Like Keyed Power Cords

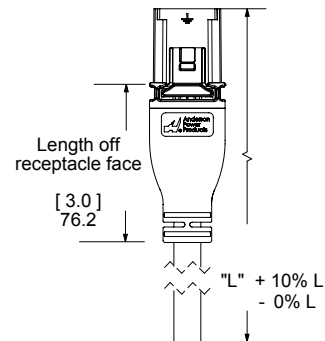
NOTE 1: Shading Indicates Build to Order

NOTE 2: 2316G Series Housings are Gray

| PLUG POWER CORD |

Single-Ended Straight Plug Power Cord

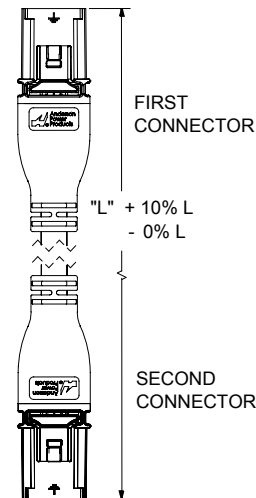
| Key* | Length | | Cable Type | Non-Bulk Part Number | Std. Pack |
|------|--------|-------|------------------------|----------------------|-----------|
| | M | FT | | | |
| A | 1.0 | 3.28 | 18 AWG SJT UL 300V 90C | 2354-1100-10 | 1 |
| B | 1.0 | 3.28 | 18 AWG SJT UL 300V 90C | 2354-1200-10 | 1 |
| A | 1.0 | 3.28 | 14 AWG SJT UL 300V 90C | 2352-1100-10 | 1 |
| B | 1.0 | 3.28 | 14 AWG SJT UL 300V 90C | 2352-1200-10 | 1 |
| A | 1.0 | 3.28 | 12 AWG SJT UL 300V 90C | 2351-1100-10 | 1 |
| B | 1.0 | 3.28 | 12 AWG SJT UL 300V 90C | 2351-1200-10 | 1 |
| C | 1.0 | 3.28 | 10 AWG SJT UL 300V 90C | 2350-1300-10 | 1 |
| A | 2.0 | 6.56 | 18 AWG SJT UL 300V 90C | 2354-1100-20 | 1 |
| B | 2.0 | 6.56 | 18 AWG SJT UL 300V 90C | 2354-1200-20 | 1 |
| A | 2.0 | 6.56 | 14 AWG SJT UL 300V 90C | 2352-1100-20 | 1 |
| B | 2.0 | 6.56 | 14 AWG SJT UL 300V 90C | 2352-1200-20 | 1 |
| A | 2.0 | 6.56 | 12 AWG SJT UL 300V 90C | 2351-1100-20 | 1 |
| B | 2.0 | 6.56 | 12 AWG SJT UL 300V 90C | 2351-1200-20 | 1 |
| C | 2.0 | 6.56 | 10 AWG SJT UL 300V 90C | 2350-1300-20 | 1 |
| A | 3.0 | 9.84 | 18 AWG SJT UL 300V 90C | 2354-1100-30 | 1 |
| B | 3.0 | 9.84 | 18 AWG SJT UL 300V 90C | 2354-1200-30 | 1 |
| A | 3.0 | 9.84 | 14 AWG SJT UL 300V 90C | 2352-1100-30 | 1 |
| B | 3.0 | 9.84 | 14 AWG SJT UL 300V 90C | 2352-1200-30 | 1 |
| A | 3.0 | 9.84 | 12 AWG SJT UL 300V 90C | 2351-1100-30 | 1 |
| B | 3.0 | 9.84 | 12 AWG SJT UL 300V 90C | 2351-1200-30 | 1 |
| C | 3.0 | 9.84 | 10 AWG SJT UL 300V 90C | 2350-1300-30 | 1 |
| A | 6.0 | 19.68 | 18 AWG SJT UL 300V 90C | 2354-1100-60 | 1 |
| B | 6.0 | 19.68 | 18 AWG SJT UL 300V 90C | 2354-1200-60 | 1 |
| A | 6.0 | 19.68 | 14 AWG SJT UL 300V 90C | 2352-1100-60 | 1 |
| B | 6.0 | 19.68 | 14 AWG SJT UL 300V 90C | 2352-1200-60 | 1 |
| A | 6.0 | 19.68 | 12 AWG SJT UL 300V 90C | 2351-1100-60 | 1 |
| B | 6.0 | 19.68 | 12 AWG SJT UL 300V 90C | 2351-1200-60 | 1 |
| C | 6.0 | 19.68 | 10 AWG SJT UL 300V 90C | 2350-1300-60 | 1 |



Cord profile dimensions based on cable/overmold size.

Double-Ended Straight Plug Power Cord

| Key* | Length | | Cable Type | Non-Bulk Part Number | Std. Pack |
|------|--------|-------|------------------------|----------------------|-----------|
| | M | FT | | | |
| A/B | 1.0 | 3.28 | 18 AWG SJT UL 300V 90C | 2354-1112-10 | 1 |
| A/B | 1.0 | 3.28 | 14 AWG SJT UL 300V 90C | 2352-1112-10 | 1 |
| A/B | 1.0 | 3.28 | 12 AWG SJT UL 300V 90C | 2351-1112-10 | 1 |
| A/B | 2.0 | 6.56 | 18 AWG SJT UL 300V 90C | 2354-1112-20 | 1 |
| A/B | 2.0 | 6.56 | 14 AWG SJT UL 300V 90C | 2352-1112-20 | 1 |
| A/B | 2.0 | 6.56 | 12 AWG SJT UL 300V 90C | 2351-1112-20 | 1 |
| A/B | 3.0 | 9.84 | 18 AWG SJT UL 300V 90C | 2354-1112-30 | 1 |
| A/B | 3.0 | 9.84 | 14 AWG SJT UL 300V 90C | 2352-1112-30 | 1 |
| A/B | 3.0 | 9.84 | 12 AWG SJT UL 300V 90C | 2351-1112-30 | 1 |
| A/B | 6.0 | 19.68 | 18 AWG SJT UL 300V 90C | 2354-1112-60 | 1 |
| A/B | 6.0 | 19.68 | 14 AWG SJT UL 300V 90C | 2352-1112-60 | 1 |
| A/B | 6.0 | 19.68 | 12 AWG SJT UL 300V 90C | 2351-1112-60 | 1 |



* Keys Permit Mating Only with Like Keyed Receptacles **NOTE:** Shading Indicates Build to Order

Custom Power Cords - Power Cords Are Available with Various Source Plugs

NEMA



IEC 60320



IEC 60309



Country Specific



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DS-SDG300 REV 0

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