Saf-D-Grid®

AC / HVDC Global 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*



ANDERSON POWER™

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SAF-D-GRID®

Anderson Power™ 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 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

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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®

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NOMINAL PERFORMANCE CHARACTERISTICS		
	Saf-D-Grid® 400V	Saf-D-Grid® 300 VAC
MECHANICAL		
Contact Retention	20 lb (89N)	20 lb (89N)
Plug Latch Retention	20 lb (89N)	20 lb (89N)
Panel Latch Retention	60 lb (267N)	60 lb (267N)
Durability	5,000 Cycles (no load)	5,000 Cycles (no load)
Receptacle Max Wire Size	10 AWG (4.0 mm²)	
Creep and Clearance (between live parts of different polarity, earthing circuit and mating surface)	7.0 mm min	7.0 mm min
Max PCB Thickness (for PCB contacts only) [A]	0.093" (2.4 mm)	N/A
Mechanical Shock (IEC 60512-4-6C) [B]	50g	50g
Vibration (IEC 60512-4-6d) [B]	20g	20g
ELECTRICAL		
Voltage AC **Disconnect Current Interrupt**	600V (UL 1977/CSA 22.2) 400V (IEC)	600V (UL 1977/CSA 22.2) 400V (IEC)
Voltage DC **Disconnect Current Interrupt**	600V (UL 1977/CSA 22.2) 400V (IEC)	600V (UL 1977/CSA 22.2) 400V (IEC)
Current Rating (UL 1977)	See Table on Page 5	See Table on Page 5
Wire Range	10 AWG to 18 AWG (0.75 mm² to 5.5 mm²)	10 AWG to 18 AWG (0.75 mm² to 5.5 mm²)
Dielectric Withstanding Voltage	3300V	3300V
Operating Temperature [C]	-4 to 176°F (-20 to 105°C)	-4 to 284°F (-20 to 105°C)
Fault Current Withstand (UL 467)	14 AWG, 300V, 4s (10 AWG, 750V, 4s)	14 AWG, 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	Copper/Tin Plate	Copper/Tin Plate
Cable/Strain Relief	Thermoplastic UL94 V-2	Thermoplastic UL94 V-2

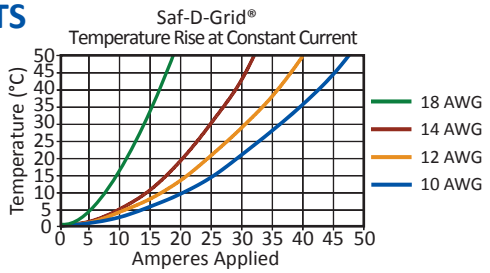
NOTE: Parts are RoHS compliant

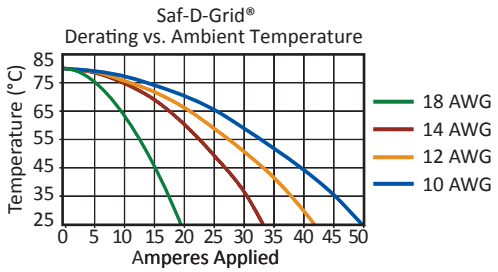
[A] Applicable only to receptacle intended for termination to PCB

[B] Tested with straight plug and flush mount receptacle with #14 AWG wire and 2003G1

[C] Overall rating may be limited by cable size/type

TEMPERATURE CHARTS





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RECEPTACLE CONNECTOR RATINGS AND APPROVALS

			RATED CURRENT (Amps) *					
			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 1.5mm² H05VV-F	1.5mm² H05VV-F	2002	N/A	N/A	16	N/A	N/A	16
SDG 400V Flush Mount 2.5mm² H05VV-F	2.5mm² 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 1.5mm² H05VV-F	1.5mm² H05VV-F	2005	N/A	N/A	16	N/A	N/A	16
SDG 400V Short 2.5mm² H05VV-F	2.5mm² 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 1.5mm² H05VV-F	1.5mm² H05VV-F	2006	N/A	N/A	16	N/A	N/A	16
SDG 400V Ultra Short 2.5mm² H05VV-F	2.5mm² H05VV-F	2006	N/A	N/A	25	N/A	N/A	25
SDG 400V Ultra Short 4.0mm² H05VV-F	4.0mm² H05VV-F	2007	N/A	N/A	32	N/A	N/A	30

* Overall rating may be limited by cable type and size.

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

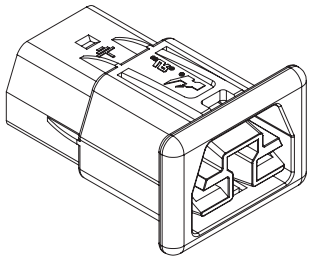
- UL1977 ratings are for recognized components under UL1977 file # E26226. Ratings may vary once the final listing category is considered. Do not exceed maximum operating temperature of connector or wire insulation. Ratings are based on an ambient temperature of 25˚C.
- CNR- indicates investigation to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

c US File No. E26226 c UL US LISTED File No. E343569 RoHS-II COMPLIANT APP

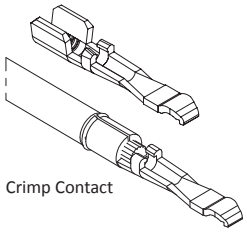
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400V FLUSH MOUNT RECEPTACLES

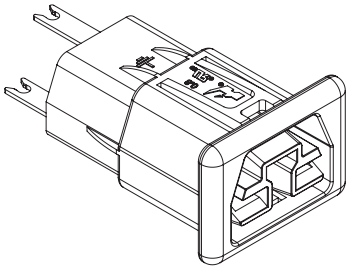
Part Number	Panel Mount Thickness	Termination Style	Contacts Loaded
2002G1-BK	0.8mm	Crimp	No
2002G2-BK	1.2mm	Crimp	No
2002G3-BK	1.0mm	Crimp	No
2002G4-BK	1.6mm	Crimp	No
2002G5-BK	2.0mm	Crimp	No
2002G6-BK	2.5mm	Crimp	No



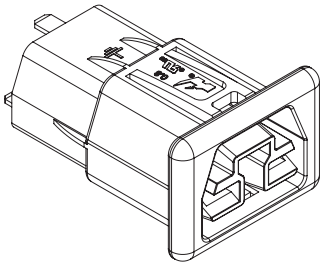
Crimp Contacts	Wire Size	Packaging
2003G1	18 AWG to 12 AWG	Reeled
2003G1-LPBK	18 AWG to 12 AWG	Loose Piece
2003G2-LPBK	10 AWG	Loose Piece


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

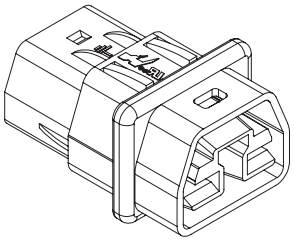


Part Number	Panel Mount Thickness	Termination Style	Contacts Loaded
2002V1-BK	0.8mm	PCB Mount	Yes
2002V2-BK	1.2mm	PCB Mount	Yes
2002V3-BK	1.0mm	PCB Mount	Yes
2002V4-BK	1.6mm	PCB Mount	Yes



400V SHORT MOUNT RECEPTACLES

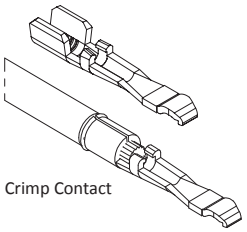
Part Number	Panel Mount Thickness	Termination Style	Contacts Loaded
2005G1-BK	0.8mm	Solder	No
2005G2-BK	1.2mm	Solder	No
2005G3-BK	1.0mm	Solder	No
2005G4-BK	1.6mm	Solder	No



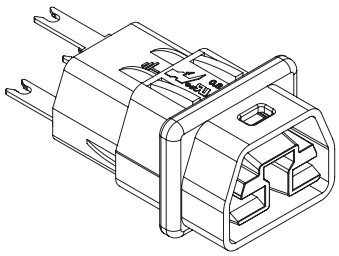
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Short Mount Receptacles Continued

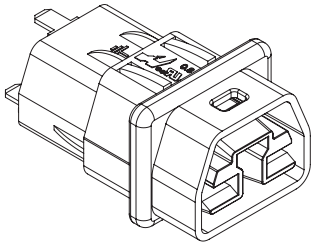
Crimp Contacts	Wire Size	Packaging
2003G1	18 AWG to 12 AWG	Reeled
2003G1-LPBK	18 AWG to 12 AWG	Loose Piece
2003G2-LPBK	10 AWG	Loose Piece


Crimp Contact

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

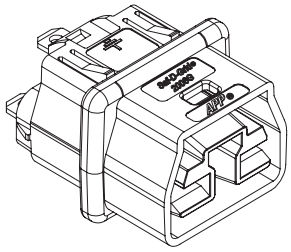


Part Number	Panel Mount Thickness	Termination Style	Contacts Loaded
2005V1-BK	0.8mm	PCB Mount	Yes
2005V2-BK	1.2mm	PCB Mount	Yes
2005V3-BK	1.0mm	PCB Mount	Yes
2005V4-BK	1.6mm	PCB Mount	Yes



400V ULTRA SHORT RECEPTACLES

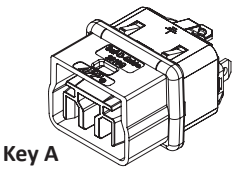
Part Number	Panel Mount Thickness	Termination Style	Contacts Loaded	Hot plug Current Rating	Disconnect Plug Rating
2006G1-BK	0.8mm	Solder	Yes	20A UL, CSA- 25A IEC	20A UL, CSA- 25A IEC
2006G2-BK	1.2mm	Solder	Yes	20A UL, CSA- 25A IEC	20A UL, CSA- 25A IEC
2006G3-BK	1.0mm	Solder	Yes	20A UL, CSA- 25A IEC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

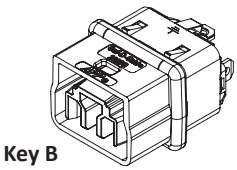


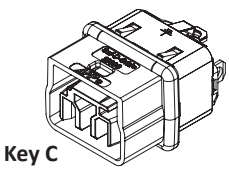
Part Number	Panel Mount Thickness	Termination Style	Contacts Loaded	Hot Plug Current Rating	Disconnect Plug Rating
2007G1-BK	0.8mm	Solder	Yes	30A UL, CSA, IEC	30A UL, CSA- 32A IEC
2007G2-BK	1.2mm	Solder	Yes	30A UL, CSA, IEC	30A UL, CSA- 32A IEC
2007G3-BK	1.0mm	Solder	Yes	30A UL, CSA, IEC	30A UL, CSA-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

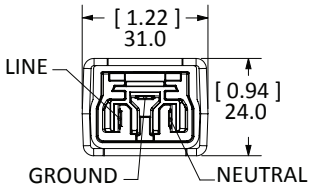
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300V ULTRA SHORT RECEPTACLES

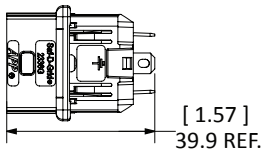

Key A


Key B


Key C



Front View

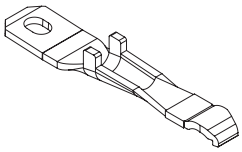


Top View

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	Solder	Yes	20A UL, CSA - 25A IEC	20A UL, CSA - 25A IEC
2316G2-BK	A	1.2mm	Solder	Yes	20A UL, CSA - 25A IEC	20A UL, CSA - 25A IEC
2316G3-BK	A	1.0mm	Solder	Yes	20A UL, CSA - 25A IEC	20A UL, CSA - 25A IEC
2316G4-BK	A	1.6mm	Solder	Yes	20A UL, CSA - 25A IEC	20A UL, CSA - 25A IEC
2326G1-BK	B	0.8mm	Solder	Yes	20A UL, CSA - 25A IEC	20A UL, CSA - 25A IEC
2326G2-BK	B	1.2mm	Solder	Yes	20A UL, CSA - 25A IEC	20A UL, CSA - 25A IEC
2326G3-BK	B	1.0mm	Solder	Yes	20A UL, CSA - 25A IEC	20A UL, CSA - 25A IEC
2326G4-BK	B	1.6mm	Solder	Yes	20A UL, CSA - 25A IEC	20A UL, CSA - 25A IEC
2336G1-BK	C	0.8mm	Solder	Yes	30A UL, CSA, IEC	30A UL, CSA- 32A IEC
2336G2-BK	C	1.2mm	Solder	Yes	30A UL, CSA, IEC	30A UL, CSA- 32A IEC
2336G3-BK	C	1.0mm	Solder	Yes	30A UL, CSA, IEC	30A UL, CSA- 32A IEC
2336G4-BK	C	1.6mm	Solder	Yes	30A UL, CSA, IEC	30A UL, CSA- 32A IEC

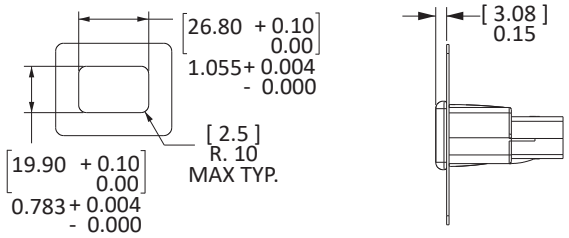
Solder Contacts For Ultra Short	
2016G1-LPBK	18 AWG to 12 AWG
2016G2-LPBK	10 AWG


Ultra Short Solder Contact

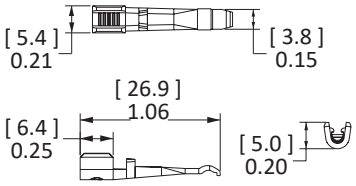
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DRAWINGS | See Product Drawings on the Website for Additional Information

Panel Cut Out For All Receptacle Types



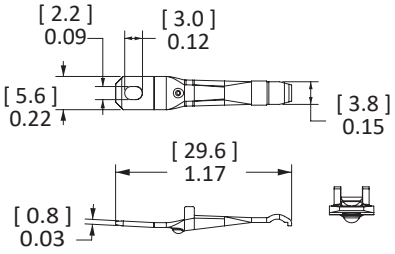
Flush Mount & Short Contacts



Ultra Short Depth - For Solder Termination To Wire



Ultra Short Contacts



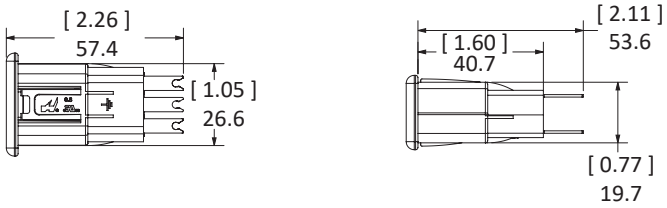
Short Depth - For Crimp Termination To Wire



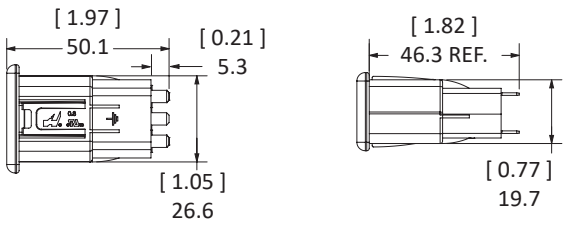
Flush Mount - For Crimp Termination To Wire



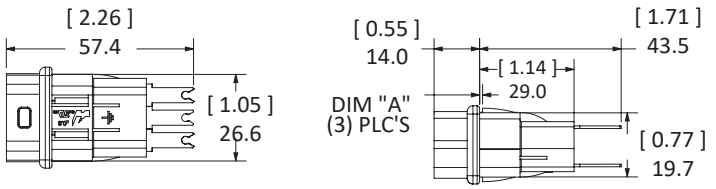
Flush Mount - For Solder Termination To Wire



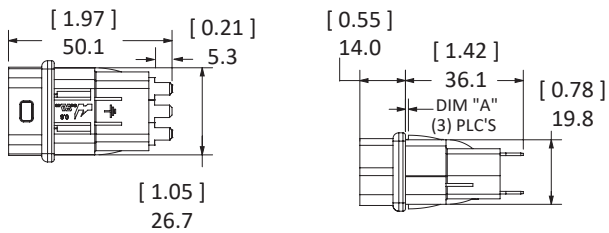
Flush Mount - For Solder Termination To PCB



Short Depth - For Solder Termination To Wire

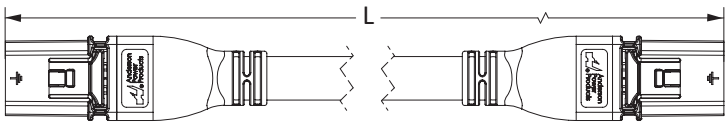


Short Depth - For Solder Termination To PCB



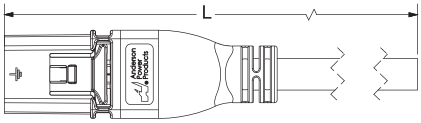
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NORTH AMERICAN 600V CABLE CONFIGURATIONS



Connector 1 **Top View** Connector 2

Double Ended Plug Assembly



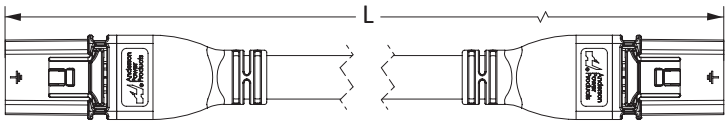
Top View

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

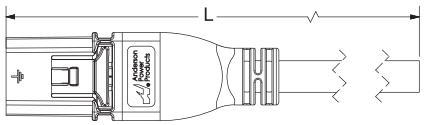
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METRIC CABLE CONFIGURATIONS



Connector 1 **Top View** Connector 2

Double Ended Plug Assembly



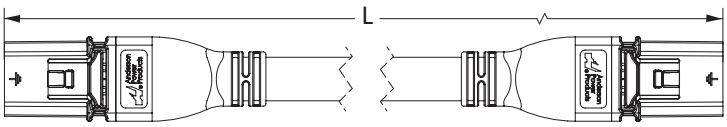
Top View

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	1.5mm² H05VV-F	None	1m	300V	300V	16A	70°C
2041KZ2-BK	Saf-D-Grid® 400V	1.5mm² H05VV-F	None	2m	300V	300V	16A	70°C
2041KZ3-BK	Saf-D-Grid® 400V	1.5mm² H05VV-F	None	3m	300V	300V	16A	70°C
2041KZ6-BK	Saf-D-Grid® 400V	1.5mm² H05VV-F	None	6m	300V	300V	16A	70°C
2041KK1-BK	Saf-D-Grid® 400V	1.5mm² H05VV-F	Saf-D-Grid® 400V	1m	300V	300V	16A	70°C
2041KK2-BK	Saf-D-Grid® 400V	1.5mm² H05VV-F	Saf-D-Grid® 400V	2m	300V	300V	16A	70°C
2041KK3-BK	Saf-D-Grid® 400V	1.5mm² H05VV-F	Saf-D-Grid® 400V	3m	300V	300V	16A	70°C
2041KK6-BK	Saf-D-Grid® 400V	1.5mm² H05VV-F	Saf-D-Grid® 400V	6m	300V	300V	16A	70°C
2047KZ1-BK	Saf-D-Grid® 400V	2.5mm² H05VV-F	None	1m	300V	300V	25A	70°C
2047KZ2-BK	Saf-D-Grid® 400V	2.5mm² H05VV-F	None	2m	300V	300V	25A	70°C
2047KZ3-BK	Saf-D-Grid® 400V	2.5mm² H05VV-F	None	3m	300V	300V	25A	70°C
2047KZ6-BK	Saf-D-Grid® 400V	2.5mm² H05VV-F	None	6m	300V	300V	25A	70°C
2047KK1-BK	Saf-D-Grid® 400V	2.5mm² H05VV-F	Saf-D-Grid® 400V	1m	300V	300V	25A	70°C
2047KK2-BK	Saf-D-Grid® 400V	2.5mm² H05VV-F	Saf-D-Grid® 400V	2m	300V	300V	25A	70°C
2047KK3-BK	Saf-D-Grid® 400V	2.5mm² H05VV-F	Saf-D-Grid® 400V	3m	300V	300V	25A	70°C
2047KK6-BK	Saf-D-Grid® 400V	2.5mm² H05VV-F	Saf-D-Grid® 400V	6m	300V	300V	25A	70°C
2049KZ2-BK	Saf-D-Grid® 400V	4.0mm² H05V2V2-F	None	2m	300V	300V	32A (Disconnect) 30A Current Interrupt	90°C
2049KZ3-BK	Saf-D-Grid® 400V	4.0mm² H05V2V2-F	None	3m	300V	300V	32A (Disconnect) 30A Current Interrupt	90°C
2049KZ6-BK	Saf-D-Grid® 400V	4.0mm² H05V2V2-F	None	6m	300V	300V	32A (Disconnect) 30A Current Interrupt	90°C
2049KK2-BK	Saf-D-Grid® 400V	4.0mm² H05V2V2-F	Saf-D-Grid® 400V	2m	300V	300V	32A (Disconnect) 30A Current Interrupt	90°C
2049KK3-BK	Saf-D-Grid® 400V	4.0mm2 H05V2V2-F	Saf-D-Grid® 400V	3m	300V	300V	32A (Disconnect) 30A Current Interrupt	90°C
2049KK6-BK	Saf-D-Grid® 400V	4.0mm2 H05V2V2-F	Saf-D-Grid® 400V	6m	300V	300V	32A (Disconnect) 30A Current Interrupt	90°C

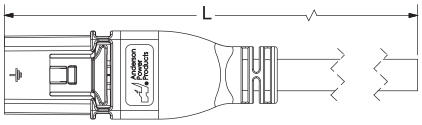
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UNIVERSAL CABLE CONFIGURATIONS



Connector 1 **Top View** Connector 2

Double Ended Plug Assembly



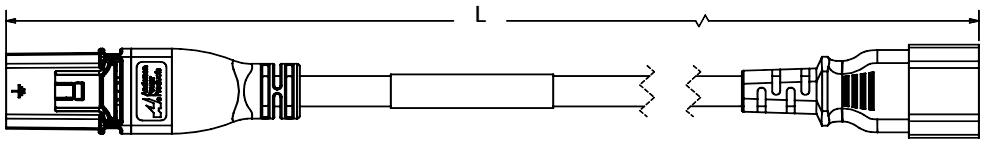
Top View

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 / 1.5mm² H05VV-F	None	1m	300V	300V	16A / 16A	75°C UL / 70°C IEC
2050KZ2-BK	Saf-D-Grid® 400V	14 AWG SJT / 1.5mm² H05VV-F	None	2m	300V	300V	16A / 16A	75°C UL / 70°C IEC
2050KZ3-BK	Saf-D-Grid® 400V	14 AWG SJT / 1.5mm² H05VV-F	None	3m	300V	300V	16A / 16A	75°C UL / 70°C IEC
2050KZ6-BK	Saf-D-Grid® 400V	14 AWG SJT / 1.5mm² H05VV-F	None	6m	300V	300V	16A / 16A	75°C UL / 70°C IEC
2050KK1-BK	Saf-D-Grid® 400V	14 AWG SJT / 1.5mm² H05VV-F	Saf-D-Grid® 400V	1m	300V	300V	16A / 16A	75°C UL / 70°C IEC
2050KK2-BK	Saf-D-Grid® 400V	14 AWG SJT / 1.5mm² H05VV-F	Saf-D-Grid® 400V	2m	300V	300V	16A / 16A	75°C UL / 70°C IEC
2050KK3-BK	Saf-D-Grid® 400V	14 AWG SJT / 1.5mm² H05VV-F	Saf-D-Grid® 400V	3m	300V	300V	16A / 16A	75°C UL / 70°C IEC
2050KK6-BK	Saf-D-Grid® 400V	14 AWG SJT / 1.5mm² H05VV-F	Saf-D-Grid® 400V	6m	300V	300V	16A / 16A	75°C UL / 70°C IEC
2058KZ1-BK	Saf-D-Grid® 400V	12 AWG SJT / 2.5mm² H05VV-F	None	1m	300V	300V	20A / 25A	75°C UL / 70°C IEC
2058KZ2-BK	Saf-D-Grid® 400V	12 AWG SJT / 2.5mm² H05VV-F	None	2m	300V	300V	20A / 25A	75°C UL / 70°C IEC
2058KZ3-BK	Saf-D-Grid® 400V	12 AWG SJT / 2.5mm² H05VV-F	None	3m	300V	300V	20A / 25A	75°C UL / 70°C IEC
2058KZ6-BK	Saf-D-Grid® 400V	12 AWG SJT / 2.5mm² H05VV-F	None	6m	300V	300V	20A / 25A	75°C UL / 70°C IEC
2058KK1-BK	Saf-D-Grid® 400V	12 AWG SJT / 2.5mm² H05VV-F	Saf-D-Grid® 400V	1m	300V	300V	20A / 25A	75°C UL / 70°C IEC
2058KK2-BK	Saf-D-Grid® 400V	12 AWG SJT / 2.5mm² H05VV-F	Saf-D-Grid® 400V	2m	300V	300V	20A / 25A	75°C UL / 70°C IEC
2058KK3-BK	Saf-D-Grid® 400V	12 AWG SJT / 2.5mm² H05VV-F	Saf-D-Grid® 400V	3m	300V	300V	20A / 25A	75°C UL / 70°C IEC
2058KK6-BK	Saf-D-Grid® 400V	12 AWG SJT / 2.5mm² H05VV-F	Saf-D-Grid® 400V	6m	300V	300V	20A / 25A	75°C UL / 70°C IEC

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SAF-D-GRID 400 TO C14 14AWG SJT/1.5MM² H05VV-F

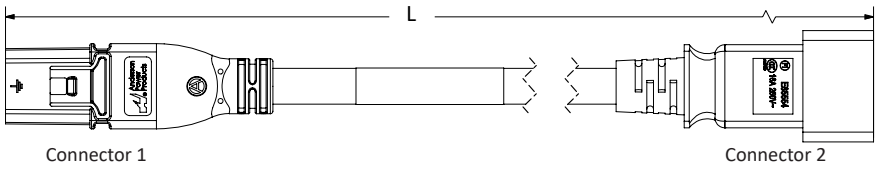


Top View

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
2059KN1-BK	Saf-D-Grid 400V	14 AWG SJT / 1.5mm² H05VV-F	IEC 320 C14	1m	250V	250V	15A / 10A	70°C
2059KN2-BK	Saf-D-Grid 400V	14 AWG SJT / 1.5mm² H05VV-F	IEC 320 C14	2m	250V	250V	15A / 10A	70°C
2059KN3-BK	Saf-D-Grid 400V	14 AWG SJT / 1.5mm² H05VV-F	IEC 320 C14	3m	250V	250V	15A / 10A	70°C
2059KN4R5-BK	Saf-D-Grid 400V	14 AWG SJT / 1.5mm² H05VV-F	IEC 320 C14	4.5m	250V	250V	15A / 10A	70°C
2059KN1-RED-BK	Saf-D-Grid 400V	14 AWG SJT / 1.5mm² H05VV-F (RED)	IEC 320 C14 (RED)	1m	250V	250V	15A / 10A	70°C
2059KN2-RED-BK	Saf-D-Grid 400V	14 AWG SJT / 1.5mm² H05VV-F (RED)	IEC 320 C14 (RED)	2m	250V	250V	15A / 10A	70°C
2059KN3-RED-BK	Saf-D-Grid 400V	14 AWG SJT / 1.5mm² H05VV-F (RED)	IEC 320 C14 (RED)	3m	250V	250V	15A / 10A	70°C
2059KN4R5-RED-BK	Saf-D-Grid 400V	14 AWG SJT / 1.5mm² H05VV-F (RED)	IEC 320 C14 (RED)	4.5m	250V	250V	15A / 10A	70°C
2059KN1-BLUE-BK	Saf-D-Grid 400V	14 AWG SJT / 1.5mm² H05VV-F (BLUE)	IEC 320 C14 (BLUE)	1m	250V	250V	15A / 10A	70°C
2059KN2-BLUE-BK	Saf-D-Grid 400V	14 AWG SJT / 1.5mm² H05VV-F (BLUE)	IEC 320 C14 (BLUE)	2m	250V	250V	15A / 10A	70°C
2059KN3-BLUE-BK	Saf-D-Grid 400V	14 AWG SJT / 1.5mm² H05VV-F (BLUE)	IEC 320 C14 (BLUE)	3m	250V	250V	15A / 10A	70°C
2059KN4R5-BLUE-BK	Saf-D-Grid 400V	14 AWG SJT / 1.5mm² H05VV-F (BLUE)	IEC 320 C14 (BLUE)	4.5m	250V	250V	15A / 10A	70°C

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SAF-D-GRID 400 TO C20 14AWG SJT/1.5MM² H05VV-F

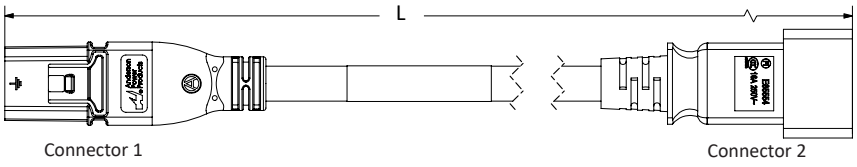


Top View

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
2050KH1-BK	Saf-D-Grid 400V	14 AWG SJT / 1.5mm² H05VV-F	IEC 320 C20	1m	250V	250V	16A / 16A	70°C
2050KH2-BK	Saf-D-Grid 400V	14 AWG SJT / 1.5mm² H05VV-F	IEC 320 C20	2m	250V	250V	16A / 16A	70°C
2050KH3-BK	Saf-D-Grid 400V	14 AWG SJT / 1.5mm² H05VV-F	IEC 320 C20	3m	250V	250V	16A / 16A	70°C
2050KH4R5-BK	Saf-D-Grid 400V	14 AWG SJT / 1.5mm² H05VV-F	IEC 320 C20	4.5m	250V	250V	16A / 16A	70°C
2050KH1-RED-BK	Saf-D-Grid 400V	14 AWG SJT / 1.5mm² H05VV-F (RED)	IEC 320 C20 (RED)	1m	250V	250V	16A / 16A	70°C
2050KH2-RED-BK	Saf-D-Grid 400V	14 AWG SJT / 1.5mm² H05VV-F (RED)	IEC 320 C20 (RED)	2m	250V	250V	16A / 16A	70°C
2050KH3-RED-BK	Saf-D-Grid 400V	14 AWG SJT / 1.5mm² H05VV-F (RED)	IEC 320 C20 (RED)	3m	250V	250V	16A / 16A	70°C
2050KH4R5-RED-BK	Saf-D-Grid 400V	14 AWG SJT / 1.5mm² H05VV-F (RED)	IEC 320 C20 (RED)	4.5m	250V	250V	16A / 16A	70°C
2050KH1-BLUE-BK	Saf-D-Grid 400V	14 AWG SJT / 1.5mm² H05VV-F (BLUE)	IEC 320 C20 (BLUE)	1m	250V	250V	16A / 16A	70°C
2050KH2-BLUE-BK	Saf-D-Grid 400V	14 AWG SJT / 1.5mm² H05VV-F (BLUE)	IEC 320 C20 (BLUE)	2m	250V	250V	16A / 16A	70°C
2050KH3-BLUE-BK	Saf-D-Grid 400V	14 AWG SJT / 1.5mm² H05VV-F (BLUE)	IEC 320 C20 (BLUE)	3m	250V	250V	16A / 16A	70°C
2050KH4R5-BLUE-BK	Saf-D-Grid 400V	14 AWG SJT / 1.5mm² H05VV-F (BLUE)	IEC 320 C20 (BLUE)	4.5m	250V	250V	16A / 16A	70°C

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SAF-D-GRID 400 TO C20 12AWG SJT/2.5MM² H05VV-F



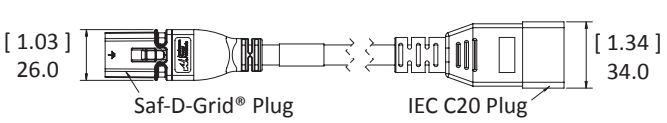
Top View

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
2058KH1-BK	Saf-D-Grid 400V	12 AWG SJT / 1.5mm² H05VV-F	IEC 320 C20	1m	250V	250V	16A / 16A	70°C
2058KH2-BK	Saf-D-Grid 400V	12 AWG SJT / 2.5mm² H05VV-F	IEC 320 C20	2m	250V	250V	20A / 16A	70°C
2058KH3-BK	Saf-D-Grid 400V	12 AWG SJT / 2.5mm² H05VV-F	IEC 320 C20	3m	250V	250V	20A / 16A	70°C
2058KH4R3-BK	Saf-D-Grid 400V	12 AWG SJT / 2.5mm² H05VV-F	IEC 320 C20	4.3m	250V	250V	20A / 16A	70°C
2058KH6-BK	Saf-D-Grid 400V	12 AWG SJT / 2.5mm² H05VV-F	IEC 320 C20	6m	250V	250V	20A / 16A	70°C
2058KH1-RED-BK	Saf-D-Grid 400V	12 AWG SJT / 1.5mm² H05VV-F (RED)	IEC 320 C20 (RED)	1m	250V	250V	16A / 16A	70°C
2058KH2-RED-BK	Saf-D-Grid 400V	12 AWG SJT / 2.5mm² H05VV-F (RED)	IEC 320 C20 (RED)	2m	250V	250V	20A / 16A	70°C
2058KH3-RED-BK	Saf-D-Grid 400V	12 AWG SJT / 2.5mm² H05VV-F (RED)	IEC 320 C20 (RED)	3m	250V	250V	20A / 16A	70°C
2058KH4R5-RED-BK	Saf-D-Grid 400V	12 AWG SJT / 2.5mm² H05VV-F (RED)	IEC 320 C20 (RED)	4.5m	250V	250V	20A / 16A	70°C
2058KH6-RED-BK	Saf-D-Grid 400V	12 AWG SJT / 2.5mm² H05VV-F (RED)	IEC 320 C20 (RED)	6m	250V	250V	20A / 16A	70°C
2058KH1-BLUE-BK	Saf-D-Grid 400V	12 AWG SJT / 1.5mm² H05VV-F (BLUE)	IEC 320 C20 (BLUE)	1m	250V	250V	16A / 16A	70°C
2058KH2-BLUE-BK	Saf-D-Grid 400V	12 AWG SJT / 2.5mm² H05VV-F (BLUE)	IEC 320 C20 (BLUE)	2m	250V	250V	20A / 16A	70°C
2058KH3-BLUE-BK	Saf-D-Grid 400V	12 AWG SJT / 2.5mm² H05VV-F (BLUE)	IEC 320 C20 (BLUE)	3m	250V	250V	20A / 16A	70°C
2058KH4R5-BLUE-BK	Saf-D-Grid 400V	12 AWG SJT / 2.5mm² H05VV-F (BLUE)	IEC 320 C20 (BLUE)	4.5m	250V	250V	20A / 16A	70°C
2058KH6-BLUE-BK	Saf-D-Grid 400V	12 AWG SJT / 2.5mm² H05VV-F (BLUE)	IEC 320 C20 (BLUE)	6m	250V	250V	20A / 16A	70°C

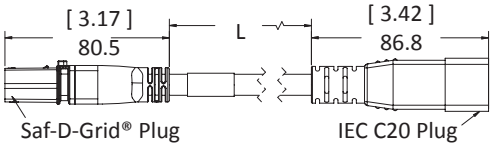
Saf-D-Grid housing and overmold are black.
Cabling and IEC 60320 connectors are black unless otherwise specified above.

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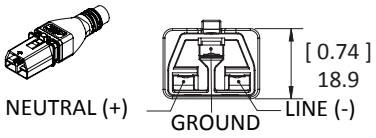
SDG TO IEC 320 CABLE CONFIGURATIONS | C20 SHOWN

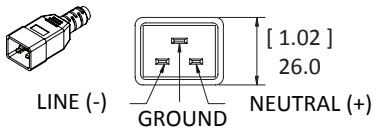


Top View
Double Ended Plug Assembly



Side View
Double Ended Plug Assembly





TOOLING

Tooling Available Directly From Anderson (all customers)

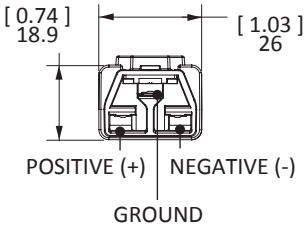
			Automated Tooling	
Contact Part Number	Description	Hand Tool	Press	Applicator
2003G1	Receptacle Contact, Reeled	-	115V = TE0101 230V = TE0102	TD0104
2003G1-LPBK	Receptacle Contact, Loose Piece	1309G9	-	-
2003G2-LPBK	Receptacle Contact, Loose Piece, 10AWG	1309G10	-	-

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

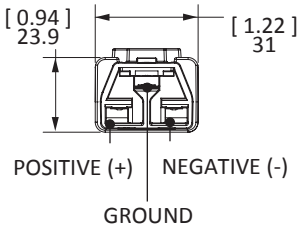
WIDE "T" LATCH PLUG

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





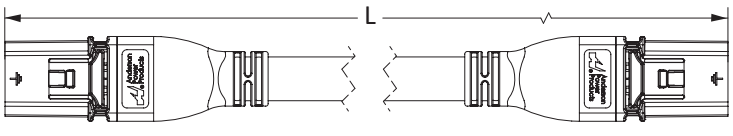
18 - 14 AWG | 1.0mm² - 2.0mm²



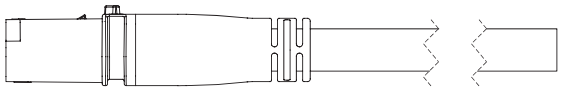
12 AWG

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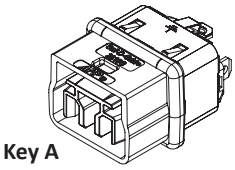
NORTH AMERICAN 300V CONFIGURATIONS | WITH KEYS FOR AC USAGE



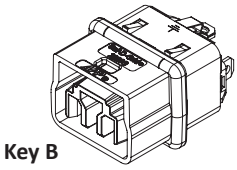
Top View
Double Ended Plug Assembly



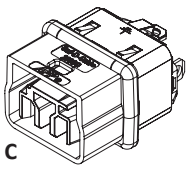
Side View
Double Ended Plug Assembly



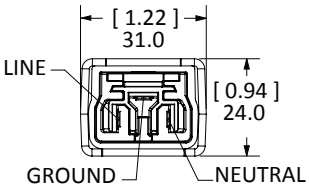
Key A



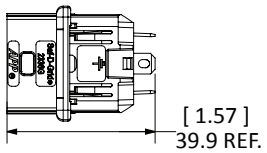
Key B



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

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

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Inside back cover

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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.

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