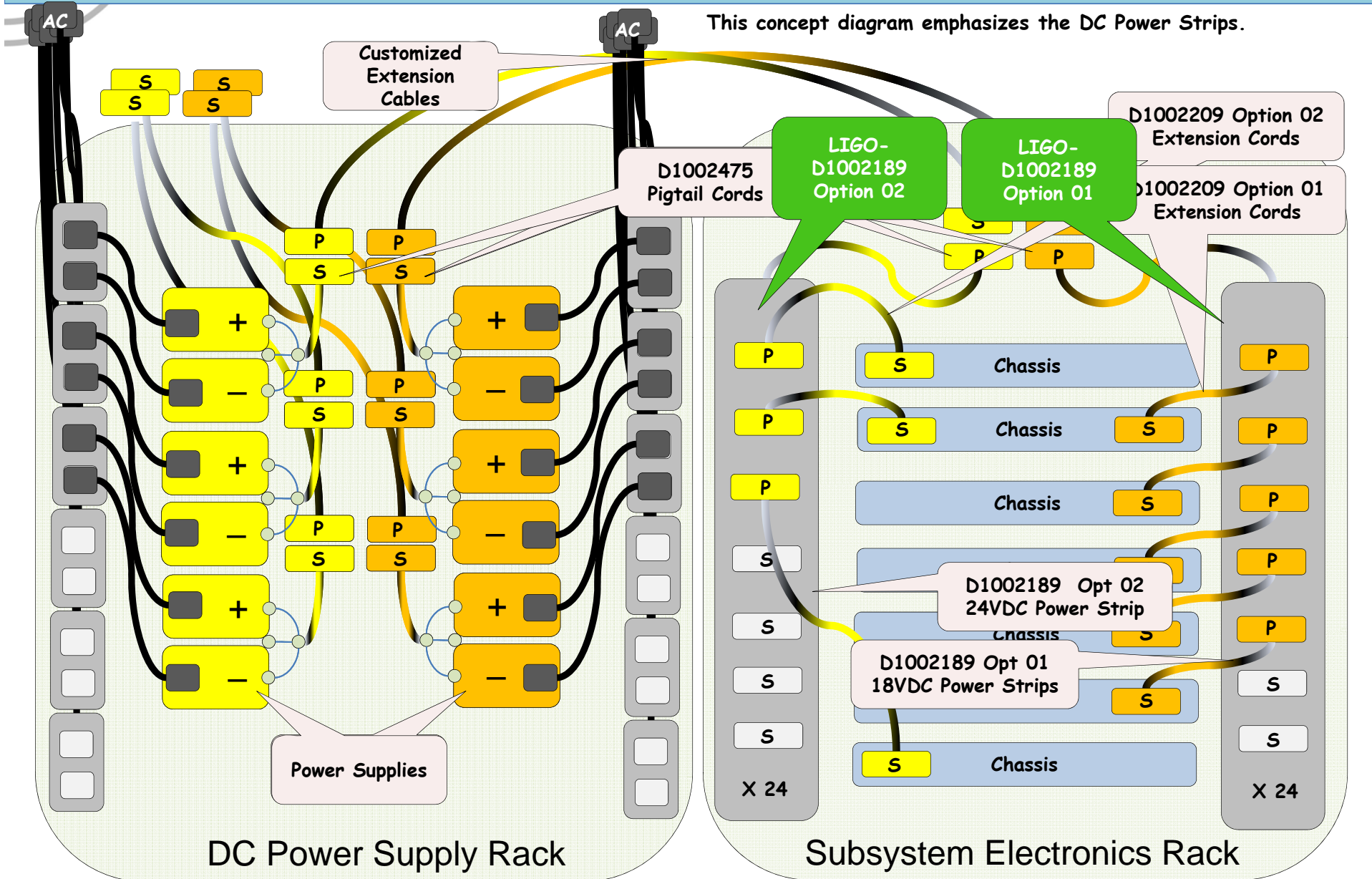


D1002189 - DC Power Distribution Strips

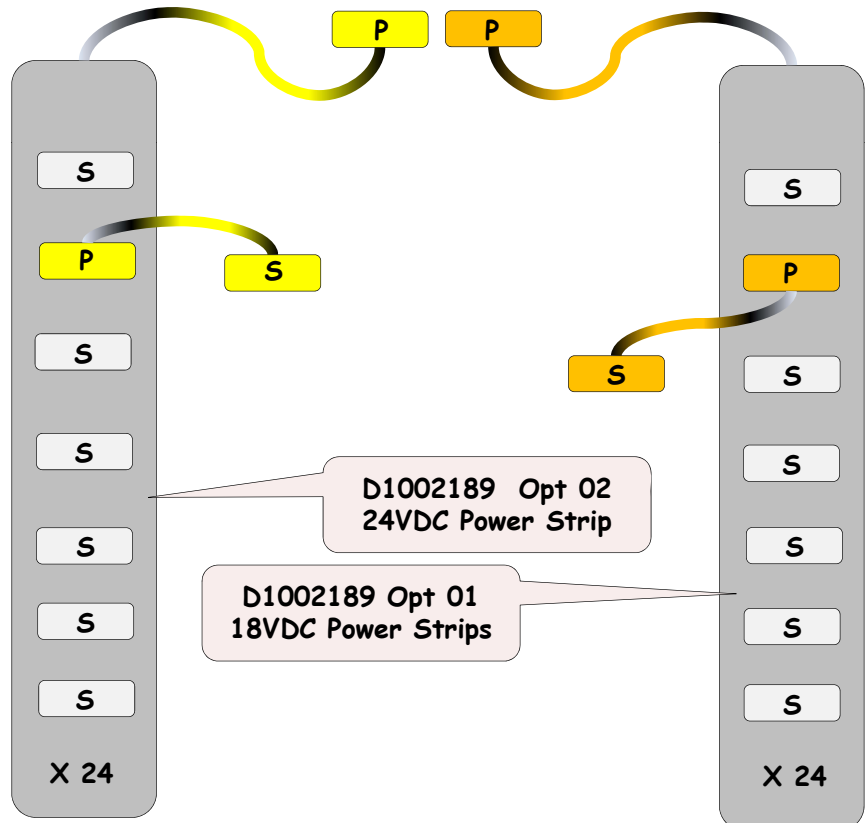
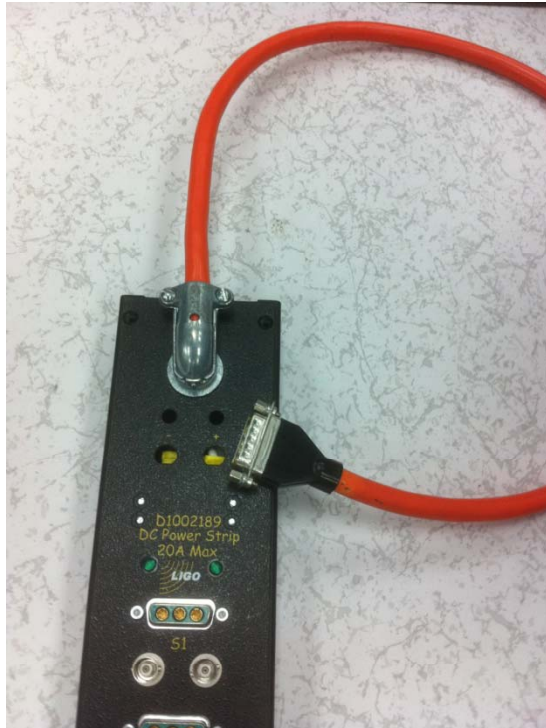
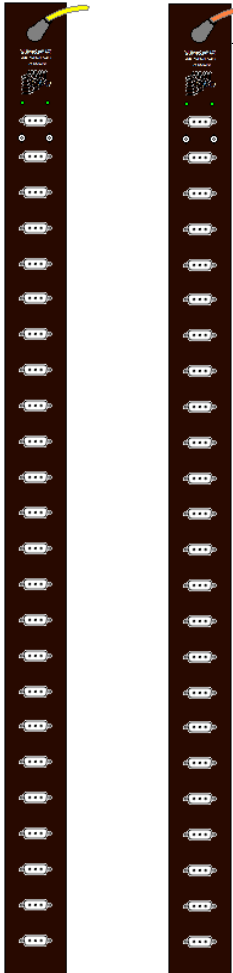
This concept diagram emphasizes the DC Power Strips.



D1002189 - DC Power Strips

D1002189 Opt 02
24VDC Power Strip

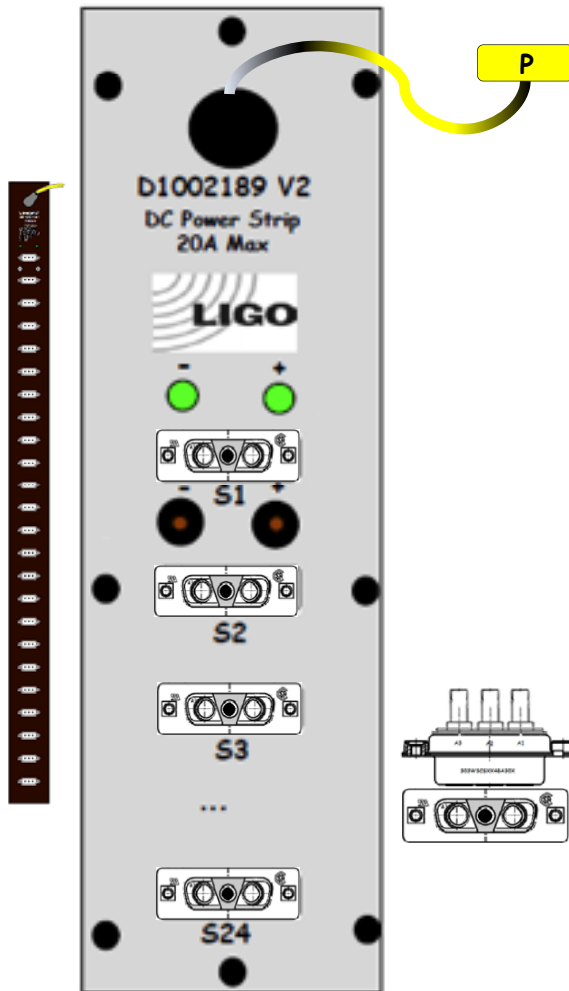
D1002189 Opt 01
18VDC Power Strips





D1002189 - Components and Labeling

24 VDC (Option 02)



McMaster-Carr 7267K33

Digi-Key 920022-20-ND

McMaster-Carr 7527K43

Digi-Key 920020-13-ND

Digi-Key L10005-ND

Mouser 610-1N5314

Digi-Key ARFX1063-ND

Newark 49H5464

Digi-Key MDVS44-ND

24 VDC Connector
CONEC 303W3CSXX48A30X

18 VDC Connector
CONEC 3003W3SXX48A30X

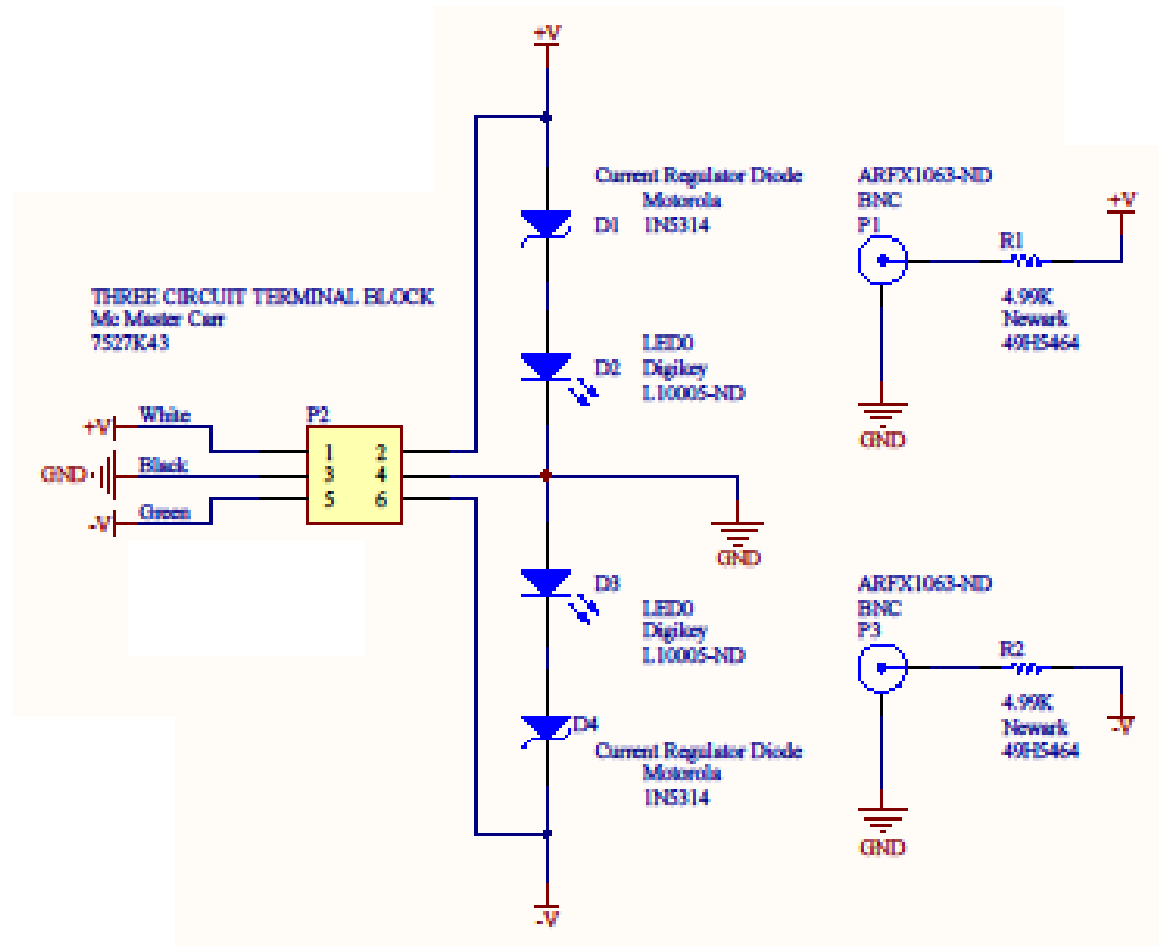
18 VDC (Option 01)



Three-Circuit Terminal Block

D1002189 - Assembly

Assembly - electronics schematic



D1002189 - Assembly

Assembly - rear of front cover

Digi-Key 920022-20-ND

McMaster-Carr 7527K43

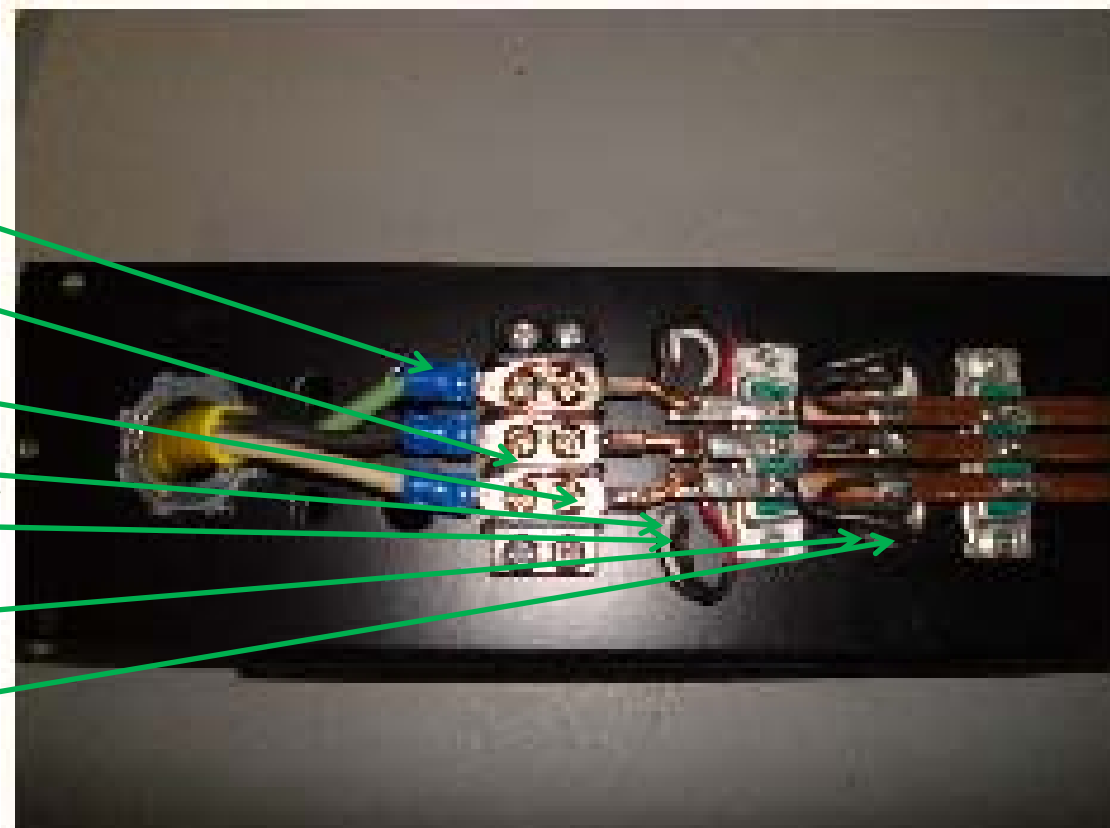
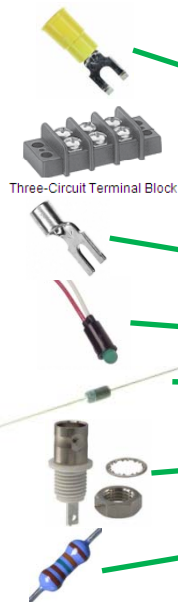
Digi-Key 920020-13-ND

Digi-Key L10005-ND

Mouser 610-1N5314

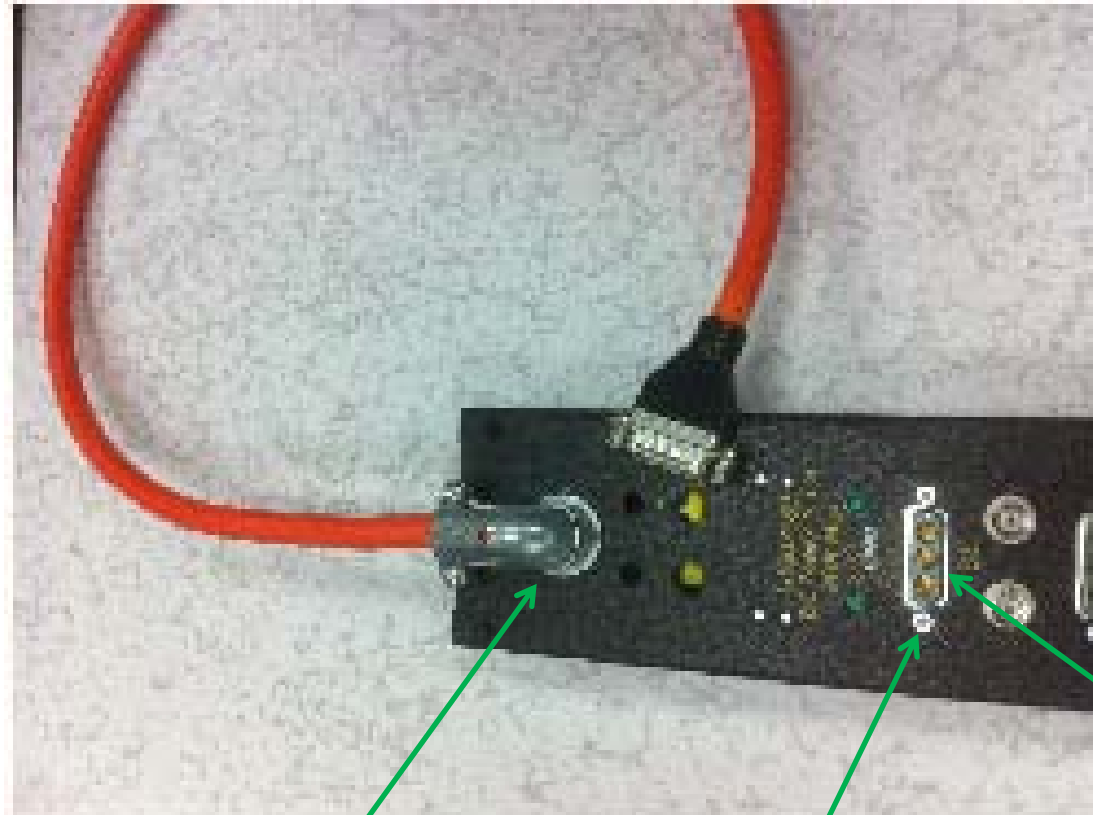
Digi-Key ARFX1063-ND

Newark 49H5464



D1002189 - Assembly

Assembly - front of front cover



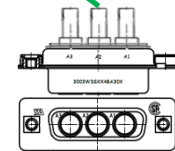
McMaster-Carr 7267K33



Digi-Key MDVS44-ND



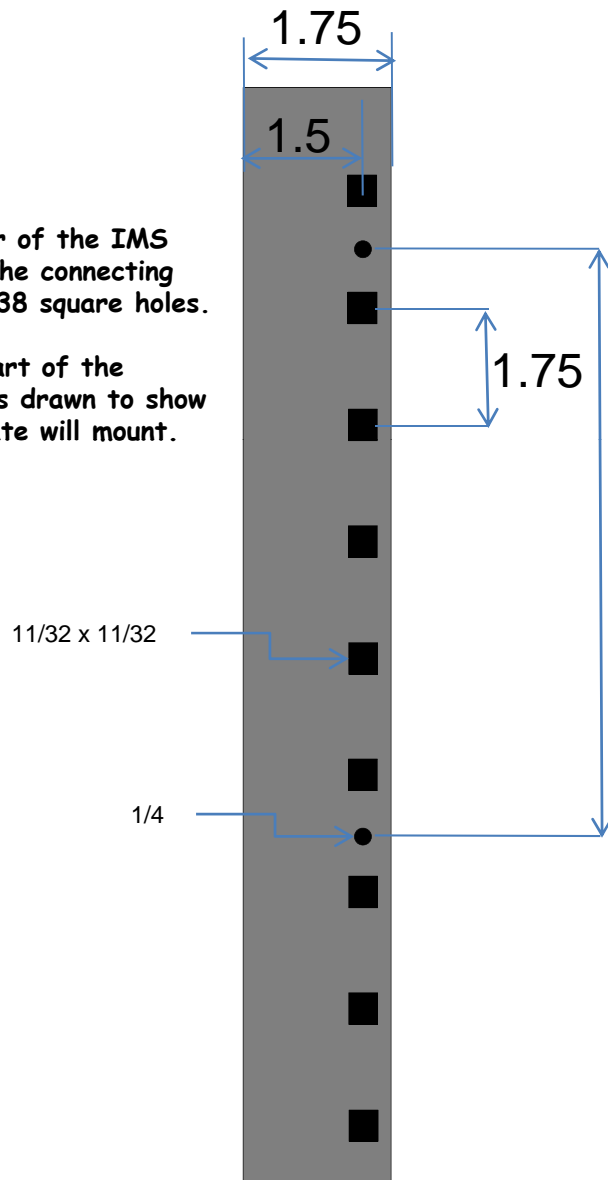
18 VDC Connector
CONEC 3003W3SXX48A30X



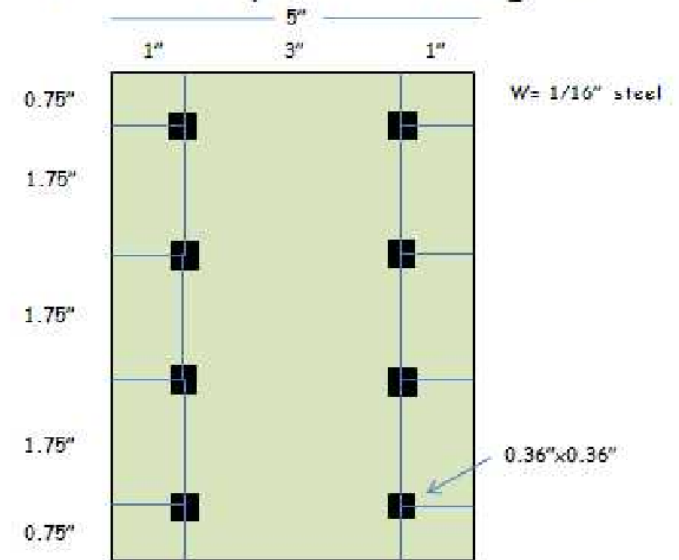
DC Power Strip Connecting Plate

The structural member of the IMS AMCO rack to which the connecting plate must mount has 38 square holes.

Note: This is NOT part of the connecting plate. It is drawn to show how the connecting plate will mount.



DC Power Strip Connecting Plate





D1002189 Opt 01 (18V 20A Power Strip)

D1002189 Opt 01 (18V 20A Power Strip - Long)								
Item	Part Type	Description	Designator	Manufacturer	Supplier	Supplier Part Number	Quantity	Unit
1	D1002189	Case		Hamilton Metalcraft, Inc.	Hamilton		1	@
2		End Cover		Hamilton Metalcraft, Inc.	Hamilton		2	@
3		Cover		Hamilton Metalcraft, Inc.	Hamilton		1	@
4		Copper Strip		Hamilton Metalcraft, Inc.	Hamilton		3	@
5		Connector Plate		Hamilton Metalcraft, Inc.	Hamilton		1	@
6	Screw	Zinc-Plated Stl Flat Head Phil Machine Screw 6-32 Thread, 1/4" Length			McMaster-Carr	90273A144	22	@
7	Connector	Conec 3 Pin Socket (3 Female), Solder pin, straight 20 A, D= .077" 1.95 mm, 4-40 UNC threaded insert	S1, S2, ... S24	Conec	Conec	3003W35XX48A30X	24	@
8	Jack Socket	Jack Socket Kit		3M	Digi-Key	MDVS44-ND	24	Kit
9	LED	Green LED, Leaded, Panel mount		Chicago Miniature Lighting	Digi-Key	L10005-ND	2	@
10	BNC Terminal	BULKHEAD JACK - SOLDER 50 OHM		Amphenol	Digi-Key	ARFX1063-ND	2	@
11	Diode	Current Regulator Diode 4.7mA		Central Semiconductor	Mouser Electronics	1N5314	2	@
12	Terminal Block	300 VAC/VDC Terminal Block 3 Circuits, .38" Center-to-Center, 20 Amps		Tyco / Buchanan	McMaster-Carr	7527K43	1	@
13	Screw	Znc Pltd Stl Round Head Phillip Machine Screw 6-32 Thread, 3/8" Length			McMaster-Carr	90279A146	4	@
14	Wire	10 AWG solid copper wire	Bus Bar Wiring		McMaster-Carr	7125K43	0.5	ft
15	Terminal	CONN FORK UNINSUL 12-10 AWG #6		3M	Digi-Key	920020-13-ND	3	@
16	Terminal	CONN TERM SPADE INS 12-10AWG #6		3M	Digi-Key	920022-20-ND	3	@
17	Resistor	Resistor, Metal Film, 4.99KOHM, 250mW, 1%		Vishay Dale	Newark	49H5464	2	@
18	Fitting	90 Deg Die Cast Zinc Flexible Metal Conduit Fitting 90 Degree Elbow Connector, 3/8" Trade Sizeree Conduit Fitting			McMaster-Carr	7267K33	1	@
19	Pigtail	DC Power Pigtail Plug (+/- 18V, 20A) Orange	DC Power Cable Hookup (+/- 18V, 20A) Orange		LIGO	D1002745 Option 01	1	@
a	Cable	Orange 5JTW AWG 12/3 25A Stranded			McMaster-Carr	7394K13	3	ft
b	Connector Shell	3W3 Male Combo Shell - No Power		Conec	Conec	3003W3PXX99A10X	1	@
c	Connector Contact	20 AMP Male Power Contact		Conec	Conec	131C11029X	3	@
d	Backshell	Connector Backshell DB15 DIE CAST ZINC		Amphenol	Digi-Key	17E-1657-15-ND	1	@
20	Solder		Lab Supplies				1	@
21	Flux		Lab Supplies				1	@
22	Heat Shrink	Heat Shrink Insulation	Lab Supplies				1	@



D1002189 Opt 02 (24V 20A Power Strip)

D1002189 Opt 02 (24V 20A Power Strip - Long)								
Item	Part Type	Description	Designator	Manufacturer	Supplier	Supplier Part Number	Quantity	Unit
1	D1002189	Case		Hamilton Metalcraft, Inc.	Hamilton		1	@
2		End Cover		Hamilton Metalcraft, Inc.	Hamilton		2	@
3		Cover		Hamilton Metalcraft, Inc.	Hamilton		1	@
4		Copper Strip		Hamilton Metalcraft, Inc.	Hamilton		3	@
5		Connector Plate		Hamilton Metalcraft, Inc.	Hamilton		1	@
6	Screw	Zinc-Plated Stl Flat Head Phil Machine Screw 6-32 Thread, 1/4" Length			McMaster-Carr	90273A144	22	@
7	Connector	Conec 3 Pin Socket (2 Female, Center Male) Solder pin, straight 20 A, D= .077" 1.95 mm 4-40 UNC threaded insert	S1, S2, ... S24	Conec	Conec	303W3CSXX48A30X	24	@
8	Jack Socket	Jack Socket Kit		3M	Digi-Key	MDV544-ND	24	Kit
9	LED	Green LED, Leaded, Panel mount		Chicago Miniature Lighting	Digi-Key	L10005-ND	2	@
10	BNC Terminal	BULKHEAD JACK - SOLDER 50 OHM		Amphenol	Digi-Key	ARFX1063-ND	2	@
11	Diode	Current Regulator Diode 4.7mA		Central Semiconductor	Mouser Electronics	1N5314	2	@
12	Terminal Block	300 VAC/VDC Terminal Block 3 Circuits, .38" Center-to-Center, 20 Amps		Tyco / Buchanan	McMaster-Carr	7527K43	1	@
13	Screw	Znc Pltd Stl Round Head Phillip Machine Screw 6-32 Thread, 3/8" Length			McMaster-Carr	90279A146	4	@
14	Wire	10 AWG solid copper wire	Bus Bar Wiring		McMaster-Carr	7125K43	0.5	ft
15	Terminal	CONN FORK UNINSUL 12-10 AWG #6		3M	Digi-Key	920020-13-ND	3	@
16	Terminal	CONN TERM SPADE INS 12-10AWG #6		3M	Digi-Key	920022-20-ND	3	@
17	Resistor	Resistor, Metal Film, 4.99KOHM, 250mW, 1%		Vishay Dale	Newark	49H5464	2	@
18	Fitting	90 Deg Die Cast Zinc Flexible Metal Conduit Fitting 90 Degree Elbow Connector, 3/8" Trade Sizeree Conduit Fitting			McMaster-Carr	7267K33	1	@
19	Pigtail	DC Power Pigtail Plug (+/- 24V, 20A) Yellow	DC Power Cable Hookup (+/- 24V, 20A) Yellow		LIGO	D1002745 Option 03	1	@
a	Cable	Yellow SJEOOW AWG 12/3 25A Stranded			McMaster-Carr	8046K16	3	ft
b	Connector Shell	3W3C Male Combo Shell - No Power		Conec	Conec	303W3CPXX99A10X	1	@
c	Connector Contact	20 AMP Male Power Contact		Conec	Conec	131C11029X	2	@
d	Connector Contact	20 AMP Female Power Contact		Conec	Conec	132C11029X	1	@
e	Backshell	Connector Backshell DB15 DIE CAST ZINC		Amphenol	Digi-Key	17E-1657-15-ND	1	@
20	Solder		Lab Supplies				1	@
21	Flux		Lab Supplies				1	@
22	Heat Shrink	Heat Shrink Insulation	Lab Supplies				1	@