



8 WIRE MODULAR SOLUTION ELECTRI-PAK



WIRE POWER LIKE A PRO

ELECTRI-PAK SYSTEMS

ECA offers a complete line of modular electrical wiring systems which can be easily integrated into many panel and furniture designs. Available in 3 simplex (triplex) and 4 simplex (quad) single circuit and multi-circuit configurations, link multiple units together from one power infeed, in no particular order. A variety of mounting options are available, making the Modular Wiring Solution perfect for benching, workstations, and computer tables and retrofit applications.



EP 8 WIRE SCHEMATICS

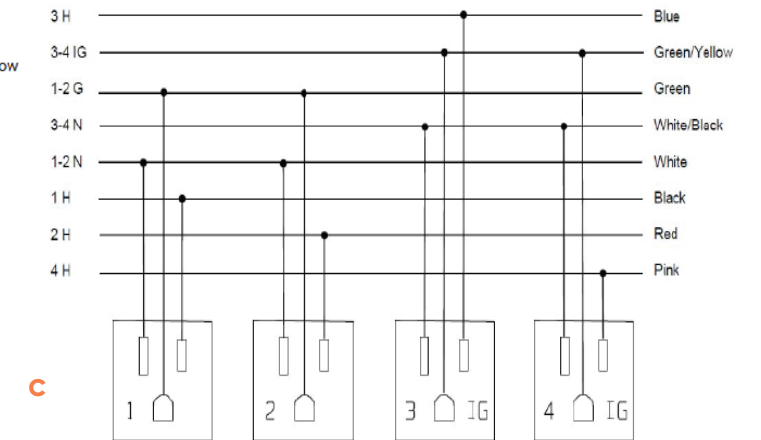
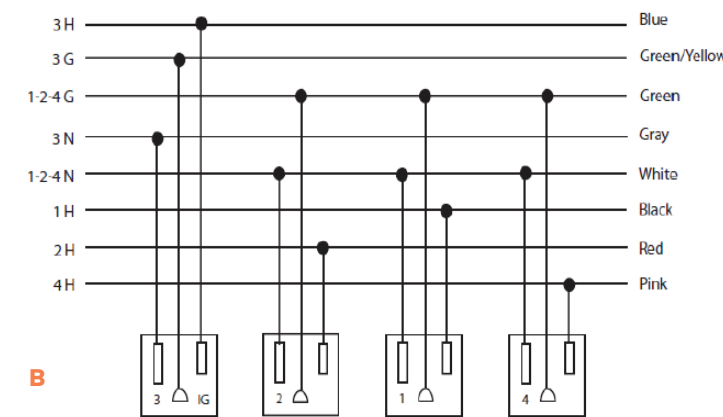
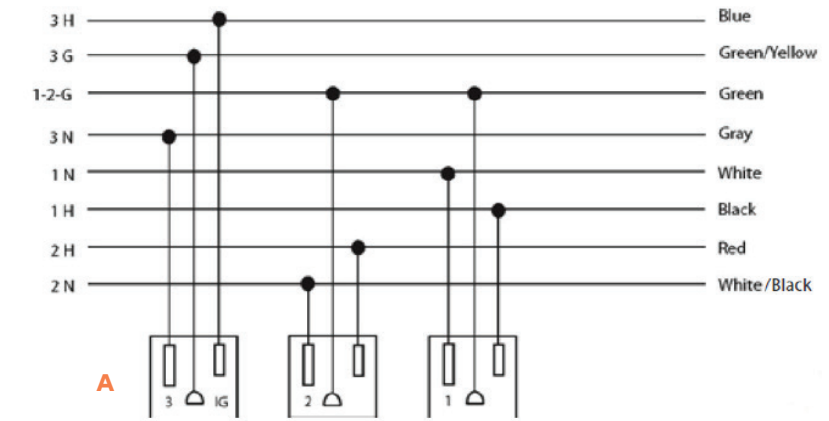
FEATURES:

Applications

- Side-mount
- Under-mount
- Panel systems

Compatible Products

- J-Channel
- Sandbar
- Power Blocks:
 - Triplex Single-Sided Type SA
 - Triplex Double-Sided Type AA
 - Double Duplex Single-Sided Type SA
 - Double Duplex Double-Sided Type AA



8 Wire 3 Circuit

- 3 Hots, 3 Neutrals, 3 Ground
- 3 Utility Circuits Share a #10AWG Super Neutral & Ground
- 3rd Circuit Dedicated Hot, Neutral, and Ground
- Compatible with Triplex & Quad Power Blocks

8 Wire 4 Circuit (3+1)

- 4 Hots, 4 Neutrals, 2 Grounds
- 2 Utility Circuits Share Neutral & Ground + 2 Isolated share a Neutral & Ground
- Compatible with Triplex and Quad Power Blocks

8 Wire 4 Circuit (2+2)

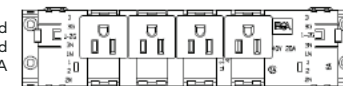
- 4 Hots, 2 Neutrals, 2 Grounds
- Common Neutral & Ground for each pair of Circuits (1-2 & 3-4)
- Compatible with Triplex & Quad Power Blocks

Components

TriPlex Single-Sided Type SA



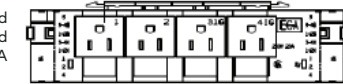
Quad Single-Sided Type SA



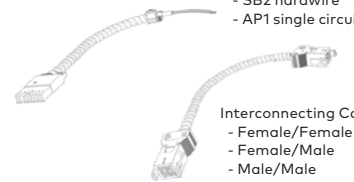
TriPlex Double-Sided Type AA



Quad Double-Sided Type AA



Multi-Circuit Starter Cables:
- SB2 hardware
- AP1 single circuit



Interconnecting Cables:
- Female/Female
- Female/Male
- Male/Male
- Minimum Length 12"
- Rigid channels for connections less than 12" (CFF)



8 WIRE, 3 CIRCUIT DOUBLE DUPLEX

EXTRA POSITION AVAILABLE.
2 UTILITY CIRCUITS EACH HAVE A NEUTRAL AND SHARE A GROUND.
3RD CIRCUIT HAS DEDICATED, HOT, NEUTRAL AND GROUND.



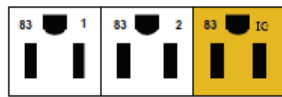
4 WIRE, 2 CIRCUIT DUPLEX

2 UTILITY CIRCUITS SHARE A NEUTRAL AND GROUND



8 WIRE, 3 CIRCUIT TRIPLEX

2 UTILITY CIRCUITS EACH HAVE A NEUTRAL AND SHARE A GROUND.
3RD CIRCUIT HAS DEDICATED, HOT, NEUTRAL AND GROUND.



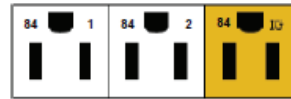
8 WIRE, 4 CIRCUIT DOUBLE DUPLEX

UTILITY CIRCUITS (1,2,4) SHARE A #10 AWG SUPER NEUTRAL AND SHARE A GROUND.
3RD CIRCUIT HAS DEDICATED, HOT, NEUTRAL AND GROUND.



8 WIRE, 4 CIRCUIT TRIPLEX

3 UTILITY CIRCUITS (1,2,4) SHARE A #10 AWG SUPER NEUTRAL AND SHARE A GROUND.
3RD CIRCUIT HAS DEDICATED, HOT, NEUTRAL AND GROUND.



8 WIRE, 4 CIRCUIT (2+2) ISOLATED DOUBLE DUPLEX

2 UTILITY CIRCUITS HAVE A SHARED NEUTRAL AND GROUND.
2 DEDICATED CIRCUITS SHARE A NEUTRAL AND A GROUND.



DESCRIPTION

DIMENSIONS

PART NUMBER

Power Modules -

Single Sided Triplex Type SA

- 8 wire 3 circuit — 2 utility share ground + 1 isolated
- 8 wire 4 circuit — 3 utility share neutral and ground + 1 isolated

7.96" x 1.03" x 2.35"
7.96" x 1.03" x 2.35"

83 SA
84 SA

Note: Single sided power blocks ONLY compatible with size 150 receptacles

Power Modules -

Single Sided Double Duplex Type SA

- 8 wire 3 circuit — 2 utility share ground + 1 isolated
- 8 wire 4 circuit — 3 utility share neutral and ground + 1 isolated
- 8 wire 4 circuit — 2 utility share neutral and ground + 2 isolated share neutral and ground

9.30" x 1.03" x 2.35"
9.30" x 1.03" x 2.35"
9.30" x 1.03" x 2.35"

834 SA
844 SA
8422 SA

Note: Single sided power blocks ONLY compatible with size 150 receptacles

Power Modules -

Single Sided Triplex Type SAE

- 8 wire 3 circuit — 2 utility share ground + 1 isolated
- 8 wire 4 circuit — 3 utility share neutral and ground + 1 isolated

7.07" X 1.03" X 2.84"
7.07" X 1.03" X 2.84"

83 SAE
84 SAE

Note: Single sided power blocks ONLY compatible with size 150 receptacles

Power Modules -

Single Sided Double Duplex Type SAE

- 8 wire 3 circuit — 2 utility share ground + 1 isolated
- 8 wire 4 circuit — 3 utility share neutral and ground + 1 isolated
- 8 wire 4 circuit — 2 utility share neutral and ground + 2 isolated share neutral and ground

8.4" X 1.03" X 2.84"
8.4" X 1.03" X 2.84"
8.4" X 1.03" X 2.84"

834 SAE
844 SAE
8422 SAE

Note: Single sided power blocks ONLY compatible with size 150 receptacles

DESCRIPTION

DIMENSIONS

PART NUMBER

Power Modules -

Double Sided Triplex Type AA

- 8 wire 3 circuit — 2 utility share ground + 1 isolated
- 8 wire 4 circuit — 3 utility share neutral and ground + 1 isolated

7.07" x 1.50" x 2.48"
7.07" x 1.50" x 2.48"

83 AA
84 AA

Note: Six simplexes required—all simplex sizes will fit in an AA block

Power Modules -

Double Sided Double Duplex Type AA

- 8 wire 3 circuit — 2 utility share ground + 1 isolated
- 8 wire 4 circuit — 3 utility share neutral and ground + 1 isolated
- 8 wire 4 circuit — 2 utility share neutral and ground + 2 isolated share neutral and ground

8.40" x 1.50" x 2.48"
8.40" x 1.50" x 2.48"
8.40" x 1.50" x 2.48"

834 AA
844 AA
8422 AA

Note: Eight simplexes required—all simplex sizes will fit in an AA block

Simplexes-

System 83

- Circuit 1 black
- Circuit 2 black
- Circuit 3 black
- Isolated Circuit orange
- Blank black

Black
Black
Black
Orange
Black

83 S1-BL-150
83 S2-BL-150
83 S3-BL-150
83 S3IG-OR-150
83 SB-BL-150

Available sizes: 150, 175, 200, 225, 250, 275

Change last 3 digits in the part number to specify simplex size. 150 is standard.

Grey Simplexes Available. Change "BL" in part number to "GR".

Simplexes-

System 84

- Circuit 1 black
- Circuit 2 black
- Circuit 3 black
- Circuit 4 black
- Isolated Circuit orange
- Blank black

Black
Black
Black
Black
Orange
Black

84 S1-BL-150
84 S2-BL-150
84 S3-BL-150
84 S4-BL-150
84 S3IG-OR-150
84 SB-BL-150

Available sizes: 150, 175, 200, 225, 250, 275, 300, 325

Change last 3 digits in the part number to specify simplex size. 150 is standard.

Grey Simplexes Available. Change "BL" in part number to "GR".

Simplexes-

System 8422

- Circuit 1 black
- Circuit 2 black
- Circuit 3 black
- Isolated Circuit 2 orange
- Isolated Circuit 4 orange
- Blank black

Black
Black
Black
Orange
Orange
Black

84 S1-BL-150
84 S2-BL-150
84 S3-BL-150
84 S3IG-OR-150
84 S4IG-OR-150
84 SB-BL-150

Available sizes: 150, 175, 200, 225, 250, 275, 300, 325

Change last 3 digits in the part number to specify simplex size. 150 is standard.

Grey Simplexes Available. Change "BL" in part number to "GR".

Simplexes Removal Tool

- Tool used to remove simplexes from power blocks

N/A

8 SR

DESCRIPTION	DIMENSIONS	PART NUMBER
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**Controlled Simplexes-
System 83**

• Circuit 1 black	Black	83 S1CC-BL-150
• Circuit 2 black	Black	83 S2CC-BL-150
• Circuit 3 black	Black	83 S3CC-BL-150

Available sizes: 150, 175, 200, 225, 250, 275
Change last 3 digits in the part number to specify simplex size. 150 is standard.
Grey Simplexes Available. Change "BL" in part number to "GR".

**Controlled Simplexes-
System 84**

• Circuit 1 black	Black	84 S1CC-BL-150
• Circuit 2 black	Black	84 S2CC-BL-150
• Circuit 3 black	Black	84 S3CC-BL-150
• Circuit 4 black	Black	84 S4CC-BL-150

Available sizes: 150, 175, 200, 225, 250, 275, 300, 325
Change last 3 digits in the part number to specify simplex size. 150 is standard.
Grey Simplexes Available. Change "BL" in part number to "GR".

**Controlled Simplexes-
System 8422**

• Circuit 1 black	Black	84 S1CC-BL-150
• Circuit 2 black	Black	84 S2CC-BL-150
• Circuit 3 black	Black	84 S3CC-BL-150
• Circuit 4 black	Black	84 S4CC-BL-150

Available sizes: 150, 175, 200, 225, 250, 275, 300, 325
Change last 3 digits in the part number to specify simplex size. 150 is standard. Grey Simplexes Available. Change "BL" in part number to "GR".

Simplexes Removal Tool

• Tool used to remove simplexes from power blocks	N/A	8 SR
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Mounting Bracket for Power Modules

• Low profile - secures the power module to the panel	N/A	MB
• U -Channel - secures the power module to the panel; accommodates panels with a higher wire management profile	N/A	MBM
• "I" Beam -Secures the power module to the panel; accommodates raceways with "I" beam conguration	N/A	CMBM

Junction Boxes

• Junction Box, 4 Receptacles, 6 Knock Outs, 4 Key Slots, ETL Listed	Black	JCT-4P-B
• Junction Box with Cover, 6 Knock Outs, 4 Key Slots	Black	78 JB

Starter-Cable Quick Specs:

Flex Cable Lengths= 12" min- 180" max
SOW Cord= .59 round
4 Wire Diameter= 3/8" round Trade Size
8 Wire Diameter= 9/16" round Trade Size
Galvanized Steel; #10 AWG super neutral in 8 Wire 4 Circuit; #12 AWG in all other systems.
Insulation: THHN, THWN, rated 600 volts

DESCRIPTION	DIMENSIONS	PART NUMBER
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**Starter Options -
Single Circuit**

• 4 wire system - female flex cable length with 24" SOW cord with 20 AMP plug	2.10" x 1.26" x .86"	42 20AP1-72
• 8 wire systems - female flex cable length with 24" SOW cord with 20 AMP plug	3.38" x 2.01" x .61"	83 20AP1-48-24 84 20AP1-48-24

15 Amp adapter cord is included for Canadian applications where only 15 Amp is required. Combined length of 24" SOW cord and Flex Cable cannot exceed 72".

**Starter Options -
Multi-Circuit**

• 4 wire system - female flex cable length	2.10" x 1.26" x .86"	42 SB2-L*
• 8 wire systems - female flex cable length	3.38" x 2.01" x .61"	83 SB2-L* 84 SB2-L* 8422 SB2-L*

All circuits rated for 20 AMPs and are energized. Whip end connected to building power by electrician. Female end connects to ECA Power Modules
*Lengths specified in inches

**Starter Options -
Special Purpose Multi-Circuit**

• 8 wire systems - female flex cable length	3.38" x 2.01" x .61"	83 SB1-L* 84 SB1-L* 8422 SB1-L*
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Used as Power Infeed in New York City. Circuits rated for 20 AMPs and are energized. Connected to building power by electrician
*Lengths specified in inches

**Starter Options -
Quick Disconnect**

• 4 & 8 wire systems - Fits into a standard decora plate opening. 42, 83, 84 FF cables plug into Quick Disconnect. Other end of FF cable plugs into Power Module.	4 11/16th	42 QD INSERT 83 QD 84 QD 8422 QD
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4 11/16" junction box included with 83, 84, and 8422 systems. Textured Black finish on face plate.

Interconnecting-Cable Quick Specs:

Cable lengths available in 1" increments
4 Wire Diameter= 3/8" round Trade Size
8 Wire Diameter= 9/16" oval Trade Size
#10 AWG super neutral in 8 Wire 4 Circuit; #12 AWG
in all other systems
Metal Flex made of Galvanized Steel

DESCRIPTION	DIMENSIONS	PART NUMBER
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Interconnecting Cables - (Used to interconnectone Power Module to the next)

Female/Female Metal Flex Cable

• 4 wire 2 circuit cable	4 Wire= 2.10" x 1.26" x .86"	42 FF-"L"
• 8 wire 3 circuit cable	8 Wire= 3.38" x 2.01" x .61"	83 FF-"L"
• 8 wire 4 circuit cable		84 FF-"L"
• 8 wire 4 circuit (2+2) cable		8422 FF-"L"

Also available in Male/Male—change "FF" in part number to "MM"
Min Length: 12" Max Length: 180"

Interconnecting Cables - (Connects to a starter cable or can be used as an extension to a Female/Female cable)

Female/Male Metal Flex Cable

• 4 wire 2 circuit cable	4 Wire= 1.94" x .86" x .86"	42 FF-"L"
• 8 wire 3 circuit cable	8 Wire= 4.25" x 2.23" x .73"	83 FF-"L"
• 8 wire 4 circuit cable		84 FF-"L"
• 8 wire 4 circuit (2+2) cable		8422 FF-"L"

Also available in Male/Male—change "FF" in part number to "MM"
Min Length: 12" Max Length: 180"

Interconnecting Cables - (Used to split an application into two directions as a "Y" coupler)

Female/Dual Male Metal Flex Cable

• 8 wire 3 circuit cable		83 FD-"L"
• 8 wire 4 circuit cable	8 Wire= 4.25" x 2.23" x 1.43"	84 FD-"L"
• 8 wire 4 circuit (2+2) cable		8422 FD-"L"

Also available in Male/Male—change "FF" in part number to "MM"
Min Length: 12" Max Length: 180"

Interconnecting Cables - (Connects two power modules together within a panel where multiple receptacles are required.)

Female/Female Rigid Channel

• 8 wire 3 circuit F/F Rigid Channel		83 CFF-"L"
• 8 wire 4 circuit F/F Rigid Channel	N/A	84 CFF-"L"
• 8 wire 4 circuit (2+2) cable F/F Rigid Channel		8422 CFF-"L"

Also available in Male/Male—change "FF" in part number to "MM"
Min Length: 1.50" Max Length: 12"