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EX-1

Bid #452-11538 - Load Bank, Trailer Mounted

Creation Date **Nov 14, 2014**

End Date **Dec 4, 2014 2:00:00 PM EST**

Start Date **Nov 18, 2014 9:13:41 AM EST**

Awarded Date **Not Yet Awarded**

452-11538--01-01 Load Bank, Trailer Mounted					
Supplier	Unit Price	Qty/Unit	Total Price	Attch.	Docs
ADOL Business Consulting Services, LLC	Alt 2 - \$51,175.20	1 / lot	\$51,175.20		Y
Product Code: Agency Notes:		Supplier Product Code: Supplier Notes: Please note following alternative specifications: Model K675A Trailer-Ready Outdoor Resistive Load Bank, Featuring: Ratings: 500 KW at 480 Volts AC, 3 Phase, 60 Hertz, 601 Amps per Phase. 500 KW at 240 Volts AC, 3 Phase, 60 Hertz, 1202 Amps per Phase. 375 KW at 208 Volts AC, 3 Phase, 60 Hertz, 1040 Amps per Phase. Tolerance: -0 to +5% overall Load Tolerance at rated Voltage. Duty Cycle: Rated for continuous operation. Load Step Resolution: 5, 10, 10, 25, 50, 100, 100, and 200 KW at 240 or 480 VAC Cooling System: An integrally mounted Blower Motor with direct drive fan . Control Power: An Integral Dual Voltage Control Power Transformer is provided for control circuit operation. Operator Controls: Local Control Panel (factory mounted and wired to the load bank). Digital Monitoring System: volts, amps, frequency and KW with data logging capability. Load Elements: Avtron Helidyne™ Resistor Load Elements, No cool down period required! Safety Features: Branch circuit fusing, a differential pressure switch provides cooling air loss protection, an over-temperature switch is provided to sense load bank exhaust temperature, blower motor circuit is protected by current limiting fuses, and thermal overload relays, operator warning and caution statements are located on appropriate access panels. Construction: The load bank is constructed of heavy gauge aluminized steel with polyester powder coat finish. Load Connections: Quick disconnect insulated power connectors are provided on the exterior of the load bank enclosure for customer load connections. Weight and Dimensions: 1100 pounds [499 kg], 61.0" L [1549mm] x 46.5" W [1181mm] x 51" H [1320mm]. Heavy-Duty, Dual-Axle, DOT Road Legal Trailer MANUAL LOAD CABLE REELS: Each reel is capable of storing approximately 1200 feet of # 4/0 AWG customer furnished load cable. One reel will be installed on the trailer.			
PowerLogics	First Offer - \$52,770.40	1 / lot	\$52,770.40	Y	Y
Product Code: Agency Notes:		Supplier Product Code: Supplier Notes: Attached is the quote for the 500KW trailer mounted load bank. Please note the following: Avtron does not offer a 400 amp lock out This offer does not include Automatic Voltage Selection. That feature is only available with our digital hand held controller which would add \$9500 to the price. The Avtron digital meter does not include test plugs for meter probes Avtron does not offer a cover for the load bank or trailer. Our offer does include removable travel cover			

to protect the air intake and exhaust.
 Avtron's offer does not include an Appleton ADR20044 receptacle. Cam-Lok style connectors are included for each phase and ground.
 Avtron's standard warranty shall apply. Copy attached.
 We do not have a drawing available showing the four cable reel configuration. However, the load bank would be very similar to the attached drawing.

Ramsay Bliese Corporation [Ad]	First Offer - \$55,800.00	1 / lot	\$55,800.00	Y
Product Code: Agency Notes:		Supplier Product Code: Load Bank Direct- Model LT500-240-480-5MT Supplier Notes: A. Load Bank Direct- Model LT500-240-480-5MT, Trailer-Ready, UL Listed Resistive Load Bank with the following ratings: -500 KW at 240/480 Volts AC, 3-phase, 60 Hertz, 1202/601 Amps per Phase -376 KW at 208 Volts AC, 3-phase, 60 Hertz, 1044 Amps per Phase - 5 KW minimum load step resolution provided Duty Cycle: Forced Air-Cooled, rated for continuous operation. Cooling System: Integrally mounted blower motor with high-performance, direct-driven fan blade delivers the required airflow volume (CFM) for cooling resistor load elements. Motor is rated 5 HP at 240/480 Volts AC, 3-phase, 60 Hertz. Power for the blower circuit can be selected from an external power source, or internally derived and operated from the main input load bus (source under test). [T] Control Power Transformer: An integral control power transformer delivers the necessary 120 Volt AC required for control circuit operation. Transformer is primary and secondary fuse protected. Local Operator Control Panel Including: Emergency Stop (E-STOP) push button, Main Power On/Off switch, Blower Start/Stop push buttons, Blower Voltage selector switch (208-240, Center-OFF, 440-480), Fan-Phase Reversal switch (ABC-OFF-ACB), Load Voltage selector switch (208-240, Center-OFF, 440-480), Master Load On/Off switch, and Individual Load Step switches (KW On/Off) provided for each load step. Illuminated indicators provided for Power On, Blower On, Motor Overload, Air-Flow Failure, Over-Temperature, Load Dump, and Wrong Voltage. [M] Digital Power Meter: Fully equipped, 3-phase Digital Metering System that measures a standard range of 16 load parameters. Includes RS485 (Modbus protocol) for remote reading - compatible with PC, PLC, and data loggers. See additional details at: http://www.multitek-ltd.com/HTMs/M800/M850.htm Operator Protection and Safety Features: - A Control Power Emergency-Stop (E-STOP) push button is provided to disable control power voltage to all operator control power circuits, including blower circuit and load application circuits. - Operator control panel provides detection and display of Main Power On, Blower Motor On, Motor Overload, Air-Flow Failure, Over-Temperature, Load Dump, and Wrong Voltage Applied. - Branch circuit fuse protection provides short-circuit fault protection of all load steps. Fuses are fast-acting, current-limiting type with an interrupting rating of 200K A.I.C. - Blower Motor is short-circuit protected by current-limiting fuses and thermally protected by overload relay. - A differential air pressure switch provides protection		

from loss of cooling air or insufficient airflow. The switch automatically removes all load if an airflow problem is detected. Load cannot be reapplied until sufficient airflow is present. Proprietary and Confidential for Client Use Only - Do Not Distribute
Page 2 of 2

- An over-temperature switch is provided to monitor load bank exhaust temperature. The switch automatically removes all load if an over-temperature condition is detected. Load cannot be reapplied until the over-temperature condition is corrected.

- An operator wrong voltage protection circuit is provided to prevent application of load if 480 VAC is detected with the Load Voltage selector switch in the 240 VAC position.

- Operator warning and caution statements are located on appropriate access panels.

LBD-PowerDyneâ„¢ Resistor load elements provide the necessary KW load rating for each load step.

PowerDyneâ„¢ Resistors are fully supported across their entire length within the air stream by stainless steel support rods which are insulated with heavy-duty, high-temperature ceramic insulators. Change in resistance is minimized by maintaining conservative resistor designs.

Load Bank Construction:

- The load bank enclosure is constructed of galvanized steel with powder coat paint finish with exterior stainless steel fasteners. Bolt on access panels provide a dead-front enclosure, safely enclosing all electrical and mechanical connections.

- The load bank is designed for installation and operation in an outdoor environment with sufficient fresh intake air available.

- The enclosure is designed for direct mounting to a customer supplied DOT approved over the road trailer.

- Cooling airflow is drawn in from the screened air-intake sides, with hot air vertically exhausted from the top of the unit away from personnel. Stainless steel exhaust air-gravity louvers provide for a superior all-weather protected enclosure.

- Fork-lift channels are provided in the base for ease of lifting and handling during installation. Quick-Connect-Disconnect of customer load cable provided by fully rated â€œindustry exclusiveâ€ Cam-Lok power connectors. Connectors are color-coded for safe and easy phase identification. Protective snap-back covers provide added safety during storage and operation.

Approximate Dimensions: 40.25"W x 52.5"D x 72"H
[1020 x 1335 x 1830 mm]

Approximate Weight: 1350 pounds [615 kg]

B. TRAILER

5,000 Pound GVW Highway rated trailer featuring heavy-duty welded steel construction with steel deck, dual axles, and radial tires.

Trailer is DOT and ICC road legal. Electric brakes with lights, adjustable lunette eye, and stabilizer jacks are also included.

C. Additional Adders- Custom

Qty (4) Cable Reels for 50â€TM of 4/0 cable each, manual cranks, 8â€ drum.

Qty (4) Cables 50â€TM of 4/0 Super Vu-Tron Type W Extra Flex cable with Cam-Lok connectors M/F

Qty (1) Appleton ADR20044 receptacle

Qty (1) Crouse Hinds AR40422 receptacle

Qty (1) UV protected, 22 oz vinyl cover for entire load bank and trailer.

Exceptions:

*Unit quoted is as close to specs as possible. Please review to insure that the equipment will meet your needs and complies with the specifications as per your interpretation.

		*Unit does not meet 400amp lock out as amps at all voltages exceed 400amps and this would not work. If customer wished to clarify this feature further we can add any needed features. * We are offering unit as quoted, any additional options or changes can affect the final price of unit ordered. *Price Includes shipping FOB to buyer *Price Does not include install or testing of equipment on-site, off-loading of equipment, taxes or permits.			
ADOL Business Consulting Services, LLC	Alt 1 - \$58,634.45	1 / lot	\$58,634.45	Y	
Product Code: Agency Notes:		Supplier Product Code: Supplier Notes: Please Note price if payment is via check or ACH and not p-card. Also note the following exceptions: Load Bank Capabilities KW Voltage/ph. Amps/ph 500 480-3 600/ph Trident 500 Trailer is 500KW at both 240V & 480V, 3-phase and de-rates to 375KW at 208V, 3-phase 330 240-3 800/ph 248 208-3 688/ph 3 phase 4 wire connection Load bank is 3-phase, 3-wire. 4-wire systems are for unbalanced loading (probably not required) 5 KW step resolution OK 400 amp lock out Not sure what this means Automatic Voltage Selection system to automatically select the voltage mode on voltage supplied OK Branch circuit fusing on all steps OK Local Controls with 3 line display Includes digital touch panel controller that is the same as what is used on DynaMITES and Electras 3 phase 480 & 240-208 VAC cooling fan power OK Internal step down transformer for control circuit OK Digital Meters and test plugs for meter probes OK Data Logging software Controller has capability for real-time data monitoring/logging for export for flash drive. No software required Over temperature and loss of air flow protection OK Trailer must be fully FDOT compliant and have a military style hitch Trailer is fully DOT compliant and can be provided with either 3" pintle ring or 2-5/16" ball hitch Provide a cover of marine grade UV resistant vinyl to cover the entire load bank and trailer. Not available (Could quote through 3rd party if awarded) Four trailer mounted cable reels to accommodate 50' of 4/0 wire Option OPLB-93, which is (3) trailer mounted reels that each hold up to 750ft of cables with connectors attached Load bank must have a panel with an Appleton ADR20044 receptacle, Crouse Hinds AR40422 receptacle and four single pole cam locks to accept 4/0 cables. NOTE: Cam-loks are Leviton Four, 50' 4/0 leads with ends color coded for 480 3ph input and output to mate with single pole cam locks on load bank Must supply two (2) Hardcopies of Operations and Maintenance manuals and two (2) CDs in PDF Format OK Must provide all warranty certificates on all new equipment which must start at time of delivery of Load Bank. All equipment, and components and workmanship must be warranted a minimum of one year from delivery OK			
Zabatt, Inc.	First Offer - \$58,789.00	1 / lot	\$58,789.00	Y	Y
Product Code: Agency Notes:		Supplier Product Code: Load Bank Supplier Notes:			
ADOL Business Consulting Services, LLC	First Offer - \$60,219.78	1 / lot	\$60,219.78		Y

Product Code:
Agency Notes:

Supplier Product Code:

Supplier Notes: Please Note the following exceptions:

Load Bank Capabilities
 KW Voltage/ph. Amps/ph
 500 480-3 600/ph Trident 500 Trailer is 500KW at both 240V & 480V, 3-phase and de-rates to 375KW at 208V, 3-phase
 330 240-3 800/ph
 248 208-3 688/ph
 3 phase 4 wire connection Load bank is 3-phase, 3-wire. 4-wire systems are for unbalanced loading (probably not required)
 5 KW step resolution OK
 400 amp lock out Not sure what this means
 Automatic Voltage Selection system to automatically select the voltage mode on voltage supplied OK
 Branch circuit fusing on all steps OK
 Local Controls with 3 line display Includes digital touch panel controller that is the same as what is used on DynaMITEs and Electras
 3 phase 480 & 240-208 VAC cooling fan power OK
 Internal step down transformer for control circuit OK
 Digital Meters and test plugs for meter probes OK
 Data Logging software Controller has capability for real-time data monitoring/logging for export for flash drive. No software required
 Over temperature and loss of air flow protection OK
 Trailer must be fully FDOT compliant and have a military style hitch Trailer is fully DOT compliant and can be provided with either 3" pintle ring or 2-5/16" ball hitch
 Provide a cover of marine grade UV resistant vinyl to cover the entire load bank and trailer. Not available (Could quote through 3rd party if awarded)
 Four trailer mounted cable reels to accommodate 50' of 4/0 wire Option OPLB-93, which is (3) trailer mounted reels that each hold up to 750ft of cables with connectors attached
 Load bank must have a panel with an Appleton ADR20044 receptacle, Crouse Hinds AR40422 receptacle and four single pole cam locks to accept 4/0 cables. NOTE: Cam-loks are Leviton
 Four, 50' 4/0 leads with ends color coded for 480 3ph input and output to mate with single pole cam locks on load bank
 Must supply two (2) Hardcopies of Operations and Maintenance manuals and two (2) CD's in PDF Format OK
 Must provide all warranty certificates on all new equipment which must start at time of delivery of Load Bank. All equipment, and components and workmanship must be warranted a minimum of one year from delivery OK

Supplier Totals

ADOL Business Consulting Services, LLC		\$51,175.20
Bid Contact	Ivory Swain adolbcs@gmail.com Ph 727-459-5611	Address 10810 Boyette Rd# 3222 Riverview, FL 33569-3222
Qualifications	DBE MBE SB	
Agency Notes:	Supplier Notes:	
PowerLogics		\$52,770.40
Bid Contact	Barbara Smith barbarasmith@powerlogics.com Ph 813-645-2971 Fax 813-645-2971	Address 1115 Marbella Plaza Drive Tampa, FL 33572
Supplier Code	00011199	

Qualifications **MBE WBE**

Bid Notes **Attached is the quote for the 500KW trailer mounted load bank. Please note the following:**
 • Avtron does not offer a 400 amp lock out
 • This offer does not include Automatic Voltage Selection. That feature is only available with our digital hand held controller which would add \$9500 to the price.
 • The Avtron digital meter does not include test plugs for meter probes
 • Avtron does not offer a cover for the load bank or trailer. Our offer does include removable travel cover to protect the air intake and exhaust.
 • Avtron's offer does not include an Appleton ADR20044 receptacle. Cam-Lok style connectors are included for each phase and ground.
 • Avtron's standard warranty shall apply. Copy attached.
 • We do not have a drawing available showing the four cable reel configuration .However, the load bank would be very similar to the attached drawing.

Agency Notes:

Supplier Notes:

Attached is the quote for the 500KW trailer mounted load bank. Please note the following:
 • Avtron does not offer a 400 amp lock out
 • This offer does not include Automatic Voltage Selection. That feature is only available with our digital hand held controller which would add \$9500 to the price.
 • The Avtron digital meter does not include test plugs for meter probes
 • Avtron does not offer a cover for the load bank or trailer. Our offer does include removable travel cover to protect the air intake and exhaust.
 • Avtron's offer does not include an Appleton ADR20044 receptacle. Cam-Lok style connectors are included for each phase and ground.
 • Avtron's standard warranty shall apply. Copy attached.
 • We do not have a drawing available showing the four cable reel configuration .However, the load bank would be very similar to the attached drawing.

Ramsay Bliese Corporation [Ad]

\$55,800.00

Bid Contact **Richard Ramsay**
b.perry@leetegenerators.com
Ph 707-545-0484

Address **3360 McMaude Pl**
Santa Rosa, CA 95407

Qualifications **SB WBE**

Bid Notes **A. Load Bank Direct- Model LT500-240-480-5MT, Trailer-Ready , UL Listed Resistive Load Bank with the following ratings:**
 -500 KW at 240/480 Volts AC, 3-phase, 60 Hertz, 1202/601 Amps per Phase
 -376 KW at 208 Volts AC, 3-phase, 60 Hertz, 1044 Amps per Phase
 - 5 KW minimum load step resolution provided
Duty Cycle: Forced Air-Cooled, rated for continuous operation.
Cooling System: Integrally mounted blower motor with high-performance, direct-driven fan blade delivers the required airflow volume (CFM) for cooling resistor load elements. Motor is rated 5 HP at 240/480 Volts AC, 3-phase, 60 Hertz. Power for the blower circuit can be selected from an external power source, or internally derived and operated from the main input load bus (source under test).
[T] Control Power Transformer: An integral control power transformer delivers the necessary 120 Volt AC required for control circuit operation. Transformer is primary and secondary fuse protected.
Local Operator Control Panel Including: Emergency Stop (E-STOP) push button, Main Power On/Off switch, Blower Start/Stop push buttons, Blower Voltage selector switch (208-240, Center-OFF, 440-480), Fan-Phase Reversal switch (ABC-OFF-ACB), Load Voltage selector switch (208-240, Center-OFF, 440-480), Master Load On/Off switch, and Individual Load Step switches (KW On/Off) provided for each load step. Illuminated indicators provided for Power On, Blower On, Motor Overload, Air-Flow Failure, Over-Temperature, Load Dump, and Wrong Voltage.
[M] Digital Power Meter: Fully equipped, 3-phase Digital Metering System that measures a standard range of 16 load parameters. Includes RS485 (Modbus protocol) for remote reading - compatible with PC, PLC, and data loggers. See additional details at: <http://www.multitek-ltd.com/HTMs/M800/M850.htm>
Operator Protection and Safety Features:
 - A Control Power Emergency-Stop (E-STOP) push button is provided to disable control power voltage to all operator control power circuits, including blower circuit and load application circuits.
 - Operator control panel provides detection and display of Main Power On, Blower Motor On, Motor Overload, Air-Flow

Failure, Over-Temperature, Load Dump, and Wrong Voltage Applied.

- Branch circuit fuse protection provides short-circuit fault protection of all load steps. Fuses are fast-acting, current-limiting type with an interrupting rating of 200K A.I.C.
- Blower Motor is short-circuit protected by current-limiting fuses and thermally protected by overload relay.
- A differential air pressure switch provides protection from loss of cooling air or insufficient airflow. The switch automatically removes all load if an airflow problem is detected. Load cannot be reapplied until sufficient airflow is present. Proprietary and Confidential for Client Use Only - Do Not Distribute Page 2 of 2
- An over-temperature switch is provided to monitor load bank exhaust temperature. The switch automatically removes all load if an over-temperature condition is detected. Load cannot be reapplied until the over-temperature condition is corrected.
- An operator wrong voltage protection circuit is provided to prevent application of load if 480 VAC is detected with the Load Voltage selector switch in the 240 VAC position.
- Operator warning and caution statements are located on appropriate access panels.

LBD-PowerDyne Resistor load elements provide the necessary KW load rating for each load step. PowerDyne Resistors are fully supported across their entire length within the air stream by stainless steel support rods which are insulated with heavy-duty, high-temperature ceramic insulators. Change in resistance is minimized by maintaining conservative resistor designs.

Load Bank Construction:

- The load bank enclosure is constructed of galvanized steel with powder coat paint finish with exterior stainless steel fasteners. Bolt on access panels provide a dead-front enclosure, safely enclosing all electrical and mechanical connections.
- The load bank is designed for installation and operation in an outdoor environment with sufficient fresh intake air available.
- The enclosure is designed for direct mounting to a customer supplied DOT approved over the road trailer.
- Cooling airflow is drawn in from the screened air-intake sides, with hot air vertically exhausted from the top of the unit away from personnel. Stainless steel exhaust air-gravity louvers provide for a superior all-weather protected enclosure.
- Fork-lift channels are provided in the base for ease of lifting and handling during installation. Quick-Connect-Disconnect of customer load cable provided by fully rated industry exclusive Cam-Lok power connectors. Connectors are color-coded for safe and easy phase identification. Protective snap-back covers provide added safety during storage and operation.

Approximate Dimensions: 40.25"W x 52.5"D x 72"H [1020 x 1335 x 1830 mm]

Approximate Weight: 1350 pounds [615 kg]

B. TRAILER

5,000 Pound GVW Highway rated trailer featuring heavy-duty welded steel construction with steel deck, dual axles, and radial tires.

Trailer is DOT and ICC road legal. Electric brakes with lights, adjustable lunette eye, and stabilizer jacks are also included.

C. Additional Adders- Custom

Qty (4) Cable Reels for 50' of 4/0 cable each, manual cranks, 8" drum.

Qty (4) Cables 50' of 4/0 Super Vu-Tron Type W Extra Flex cable with Cam-Lok connectors M/F

Qty (1) Appleton ADR20044 receptacle

Qty (1) Crouse Hinds AR40422 receptacle

Qty (1) UV protected, 22 oz vinyl cover for entire load bank and trailer.

Exceptions:

*Unit quoted is as close to specs as possible. Please review to insure that the equipment will meet your needs and complies with the specifications as per your interpretation.

*Unit does not meet 400amp lock out as amps at all voltages exceed 400amps and this would not work. If customer wished to clarify this feature further we can add any needed features.

* We are offering unit as quoted, any additional options or changes can affect the final price of unit ordered.

*Price includes shipping FOB to buyer

*Price Does not include install or testing of equipment on-site, off-loading of equipment, taxes or permits.

Agency Notes:**Supplier Notes:**

A. Load Bank Direct- Model LT500-240-480-5MT, Trailer-Ready, UL Listed Resistive Load Bank with the following ratings:

- 500 KW at 240/480 Volts AC, 3-phase, 60 Hertz, 1202/601 Amps per Phase

- 376 KW at 208 Volts AC, 3-phase, 60 Hertz, 1044 Amps per Phase

- 5 KW minimum load step resolution provided

Duty Cycle: Forced Air-Cooled, rated for continuous operation.

Cooling System: Integrally mounted blower motor with

high-performance, direct-driven fan blade delivers the required airflow volume (CFM) for cooling resistor load elements. Motor is rated 5 HP at 240/480 Volts AC, 3-phase, 60 Hertz. Power for the blower circuit can be selected from an "external" power source, or "internally" derived and operated from the main input load bus (source under test).

[T] Control Power Transformer: An integral control power transformer delivers the necessary 120 Volt AC required for control circuit operation. Transformer is primary and secondary fuse protected.

Local Operator Control Panel Including: Emergency Stop (E-STOP) push button, Main Power On/Off switch, Blower Start/Stop push buttons, Blower Voltage selector switch (208-240, Center-OFF, 440-480), Fan-Phase Reversal switch (ABC-OFF-ACB), Load

Voltage selector switch (208-240, Center-OFF, 440-480), Master Load On/Off switch, and Individual Load Step switches (KW

On/Off) provided for each load step. Illuminated indicators provided for Power On, Blower On, Motor Overload, Air-Flow

Failure, Over-Temperature, Load Dump, and Wrong Voltage.

[M] Digital Power Meter: Fully equipped, 3-phase Digital Metering System that measures a standard range of 16 load parameters.

Includes RS485 (Modbus protocol) for remote reading - compatible with PC, PLC, and data loggers. See additional details at:

<http://www.multitek-ltd.com/HTMs/M800/M850.htm>

Operator Protection and Safety Features:

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- Operator control panel provides detection and display of Main Power On, Blower Motor On, Motor Overload, Air-Flow

Failure, Over-Temperature, Load Dump, and Wrong Voltage Applied.

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Do Not Distribute Page 2 of 2

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*Price includes shipping FOB to buyer

*Price Does not include install or testing of equipment on-site, off-loading of equipment, taxes or permits.

\$58,789.00

Zabatt, Inc.

Bid Contact **Steven Rhyne**
steve.rhyne@zabatt.com
Ph 904-421-9836

Address **4612 Highway Ave**
Jacksonville, FL 32254

Qualifications **MBE**

Bid Notes **Quoting Per Attached Bill of Material / See attached unit specs and picture**
Electrical One-Line Diagram not provided
400 Amp lock out, not provided
Auto voltage selection; not provided, providing cam-lok quick connect type
4 Cable reel; providing 3 reels due to spacing
Appleton / Crouse Hinds receptacles; not provided, providing cam-lok type
Estimated lead time: 10-12 Weeks (84 days)

Agency Notes:

Supplier Notes:

Quoting Per Attached Bill of Material / See attached unit specs and picture
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