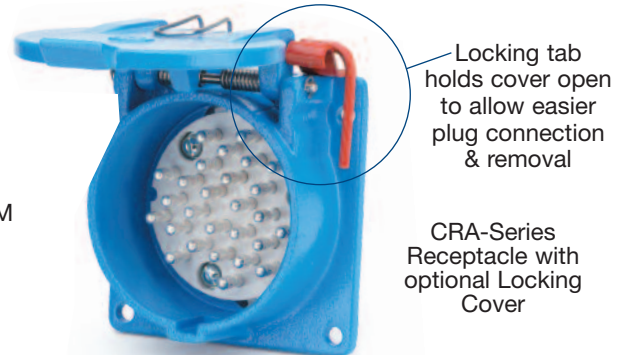




CRA-Series Receptacle with male contacts



CRA-27-MU-CL - MU receptacle assembly

CRA-27-AMTK-CL - COMM receptacle assembly

Consult factory for optional connector housing colors

**Clements National's Cadillac brand of 27-point jumper assemblies and receptacles are available in a variety of configurations for trainline (COMM) car control/communication and (MU) multiple unit locomotive control.**

Car control/communication trainlines are interconnected between the entire length of the car. Typical electrical signals include: door controls and indications, public address, brake applied/released indications. Multiple unit trainlines carry traction and dynamic brake commands and indications. Typical signals between equipment include:

- Locomotives coupled together
- Cab car and locomotive
- Locomotives or power cars placed at opposite ends of the train

### Design Benefits:

- Manufactured to conform to AAR S-512 and APTA RP-E-019-99 specifications.
- Qualified for use on all Amtrak equipment, as well as other major transit agencies.
- Self aligning silver plated copper socket contacts permit low mating forces, prevent excessive voltage drop and promote long contact life.
- Interchangeable and intermateable with other major brands
- Environmentally protected design with individual contact seal boots and outer "O" ring seal on front dielectric to connector body.
- Unique "multi-contact" band design on pin contacts provides reliable electrical engagement and is field serviceable and replaceable without removing connector from train.



### CPA-27XXX-MU

CPA - Plug  
CRA - Receptacle

MU - Freight  
COMM - Passenger Rail

Cable Length (inches)  
(ie - 0048 = 48 inches)

### CPA-27XXX-COMM-XX

CPA - Plug  
CRA - Receptacle

Plug/Receptacle Color Code  
BL = Blue  
BR = Brown  
BK = Black  
G = Green  
OR = Orange  
W = White

Cable Length (inches)  
(ie - 0048 = 48 inches)

MU - Freight  
COMM - Passenger Rail

Note: Clements National Company also offers; 12, 21 and 36 poles. Consult factory for details.

## Part Number Examples

### **CRA-2767-COMM**

27 point trainline communication receptacle assembly, 67 inch cable length.

### **CPA-2767-COMM**

27 point trainline communication jumper assembly, 67 inch cable length.

### **CRA-2790**

27 point trainline locomotive control receptacle assembly, 90 inch cable length.

### **CPA-2790-MU**

27 point trainline locomotive control jumper assembly, 90 inch cable length.

### **CRA-271200-MU-BL**

27 point trainline locomotive control receptacle assembly, 1200 inch cable length, blue housing and cover.

### **CPA-271200-MU-BL**

27 point trainline locomotive control jumper assembly, 1200 inch cable length, blue housing and cover.

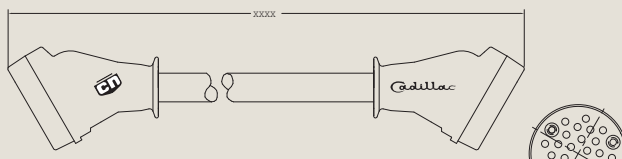
### **CRA-2767-COMM**

27 point trainline communication receptacle assembly, 67 inch cable length.

### **CPA-2767-COMM**

27 point trainline communication jumper assembly, 67 inch cable length.

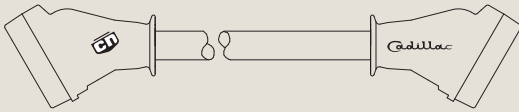
**CPA Series Jumper Assembly – Plug assembly with female contacts**



CPA-27XX-AMTK Communications Jumper Assembly



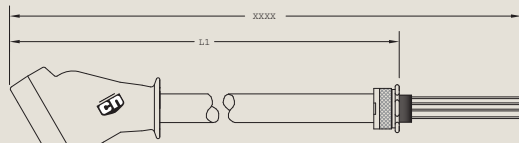
COMM



CPA-27XX-MU Locomotive Control Jumper Assembly

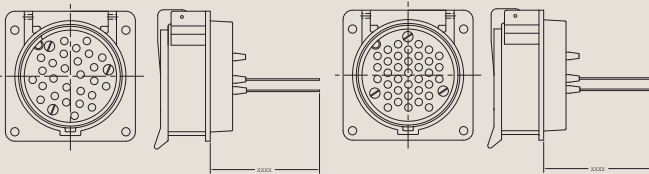


MU



CPA-27XX-VXX Single ended jumper fixed

**Receptacles with Male Contacts**



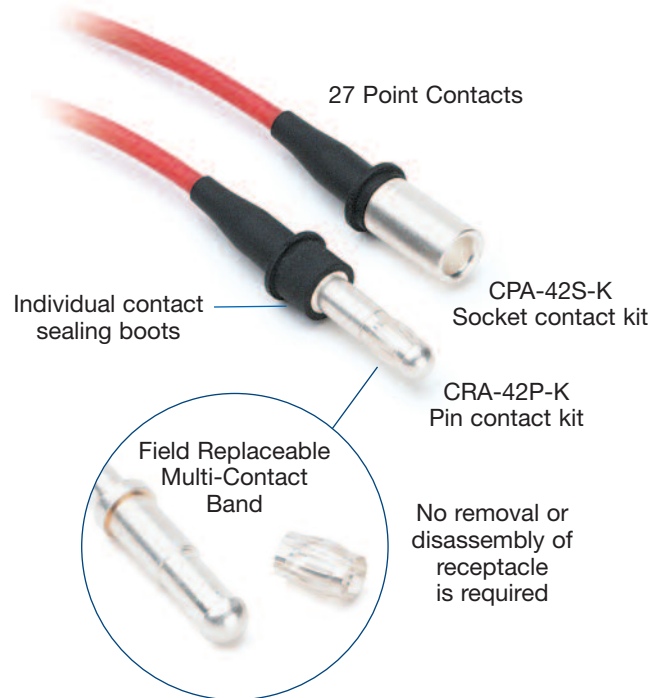
CRA-27 AMTK Receptacle

CRA-27 MU Multiple-Unit Receptacle

**27 Point Performance Specifications**

Operating temperature: -40°F to 140°F (-40°C to 60°C)  
Electrical rating: 30 amps 600V  
Dielectric strength: 1000 volts RMS  
Housing material: Aluminum alloy  
Contact mating force: 54+/-10 lbs.

Note: XXXX denotes customer specified length in inches.  
Ex: CRA-2760-MU = 60" in length

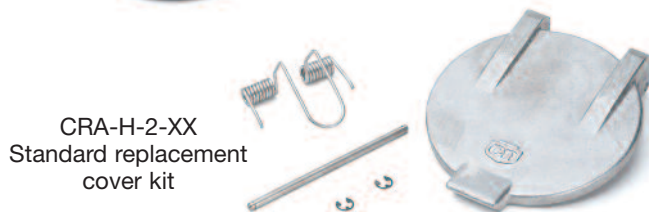


**Clements National provides custom cable assemblies for COMM or MU configuration at any length requirement.** We offer optional accessories and contact kits so you can order exactly what you need for an existing part. Please consult the factory for questions or if you need a customized 27 Point Series.

## Optional Accessories



CRA-H-2L-XX  
Replacement cover kit  
Improved cover with latch



CRA-H-2-XX  
Standard replacement cover kit

CPA-27-V85 - Blue flag plug with locomotive lock-out protection



CRA Series  
Receptacle with male contacts



Consult factory for optional connector housing colors

Note: XX=Specify color. BK=Black, BL=Blue, RD=Red, OR=Orange, GR=Green, YL=Yellow

## Clements National Sales Contacts

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### Distributors:

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New Milford, CT 06776  
Tel: (860) 355-8100  
Fax: (860) 350-5411  
Email: sales@easternconnector.com

#### Northwest Rail Electric

2630 S.E. Steele Street  
Portland, OR 97202  
Tel: (503) 231-4808  
Fax: (503) 230-0572

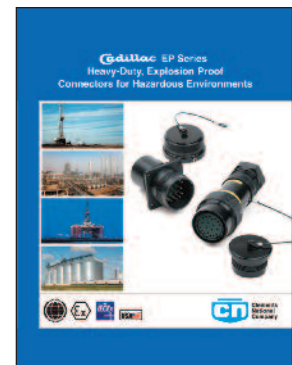
Clements National is a Chicago-based electrical connector design manufacturer that has made a significant contribution in the connector industry by serving the following markets:

- Rail Mass Transit
- Marine, Oil & Gas
- Industrial

### Additional Clements National Industry Specific Catalogs



CN Series Power & Control Connectors for applications including Process & Control, Marine, Oil & Gas, Machine Tool, Industrial, Power Distribution & Transportation.



EP Series Heavy-Duty, Explosion Proof Connectors for Hazardous Environments, including Marine, Oil & Gas, and Grain Silos.

For more information, please contact:



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