There are five basic steps required to layout a Heavy Duty festoon system. Specific information regarding each step can be found on the accompanying pages.

Step I: Application Information All pertinent facts regarding the crane, its electrical requirements and duties, are required to properly size the festoon system. You can use the specification checklist on pgs. 4-5 to collect and communicate this information.

Step II: Cable Selection and Arrangement In order to satisfy the electrical requirement of the crane, the number, the size of conductors and the type of cable must be determined. Once determined, they must then be arranged in an order that is suitable for the constant work (flexing) required during operation.

Step III: Trolley Selection Method to determine a suitable trolley carrier that will not only protect the electrical cables, but also meet the physical demands of the application.

Trolley selection is based on the minimum bend diameter of the cable to be festooned. Minimum allowable cable saddle diameter is 10 times the O.D. of the largest cable in the cable package. After determining cable saddle diameter, a saddle width must be specified by determining the maximum width of the cable package.

Step IV: System Calculations Required to determine the length of cables and the number of trolleys required to meet the application requirements.

Step V: System Accessories Items that may be required in order to enhance the performance of the festoon system.

CONDUCTIX Festoon System on a Container Crane

Closeup shot of the same crane.