



I-Beam Track

1. Install **I**-beam track parallel with runway of equipment; the side clearance to be sufficient to avoid interference with swinging cables.
2. The support structure of the **I**-beam must be adequately designed for the anticipated loads. Smooth out welded joints to ensure smooth traversing of cable carriers.

Cable Carriers

Carriers type W 20

Installation procedure:

1. Lead carrier; MN 20 factory pre-adjusted.
2. Intermediate carriers; WN 20 factory pre-adjusted.
3. Track clamp; E 20 to be bolted to the lower flange of the **I**-beam.

4. Connect lead carrier to equipment by an outrigger-tube of 25-30 mm Ø. The outrigger should fit centrally into the rectangular opening of the lead carrier. Make sure that the distance between the outrigger and the track clamp is not less than the calculated storage distance for the cable carriers.

Carriers type W 25-30, W 35, W 40

Installation procedure:

1. Intermediate carriers; adjustable per customer's **I**-beam.
2. Track clamp; to be bolted to the lower flange of the **I**-beam.
3. Install bumper stop to the web of the **I**-beam. (W 35, W 40 only)

4. The lead clamps M 35 and M 40 are to be attached to an outrigger (e.g. channel iron) on the moving equipment and function as the first moving cable carrier element on the system. Installation in accordance to the **I**-beam size and per the detail drawings in this catalog.
5. Track clamps E 25-30 F serve the same way for W 25 thru W 30 installations.

Carriers type W 55 thru W 95

Installation procedure:

1. Intermediate carriers; factory pre-adjusted.
2. Track clamp; to be bolted to the lower flange of the **I**-beam.
3. The lead clamps of this series are to be attached to an outrigger (e.g. channel iron) on the moving equipment and function

as the first moving cable carrier element on the system. Installation in accordance to the **I**-beam size and per the detail drawings in this catalog. Also see bumper extension PV 55 for installation to the first intermediate carrier W 55 only.

Cables

Cables to be installed in accordance to the pre-designed package, considering stability of the cable set when clamped via pads to the carrier saddles. Use counter-nuts for safety.

Make sure the cable length (L) is equally distributed from track clamp to lead clamp forming equal loops between the carriers.

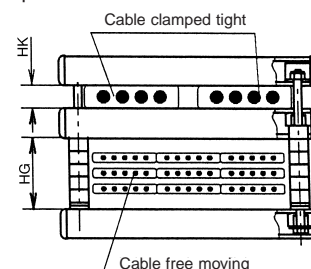
A free space of 10-15 mm between the stacked cable layers should be considered in the lower vertex of the loops.

Cable Loop Clamps

Use 1 clamp in each lower loop vertex with a loop depth up to 2 m. The loop clamps can be installed in a suspended position (power cable above) or in a supported position (power cable below).

For more than 2 m loop depth install two clamps in the lower third and slightly staggered on each side of the cable loops.

The clamps are to be secured tight to the power cables of your cable package, so to allow the other flat cables free movement within the grid type clamps.



Steel Ropes

Using tow cables means tension relief on your conductor cables. The tow ropes must be untwisted and are attached by means of shackles to the cable carriers. Shackle locking by hex nut and split pin or by safety nut.

Elastic Ropes

See principle arrangements in this catalog. When in doubt ask the factory.

Pre-installed System

Vahle cable festoon systems can be completely pre-installed and shipped on an **I**-beam stand. In this case it is important to consider adequate support of the hookup cable lengths during shipping and installation; do not overload individual carriers.

Test runs

Check smooth running of cable carriers and accurate passing over **I**-beam joints.

Maintenance

All wheels and rollers are lubricated for life and do not need re-greasing. However, the following check-up should be arranged in 3 months intervals:

1. Check wear of wheels and rollers
2. Check all hardware
3. Check cable clamping at carriers, lead- & track-clamp and counter nuts if necessary
4. Check the cable loop clamps
5. Check the tension relief equipment and attachments
6. Check the cables



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