

Multi-Flatcable



Patented by ekd gelenrohr GmbH. EKD is a manufacturer of cable carrier systems and a customer of SAB. This system is based on cables which are axial movable to each other. This construction provides free movement to all directions. Due to its self-supporting construction the Multi-Flatcable is also usable for cable track applications.

Particularly with regard to the noise emission which is very low, the T-Cable provides several advantages in comparison with other cable track systems.

The T-Cable is an alternative choice to the common running of cables. The T-groove and the T-tongue are integrated in the outer sheath.

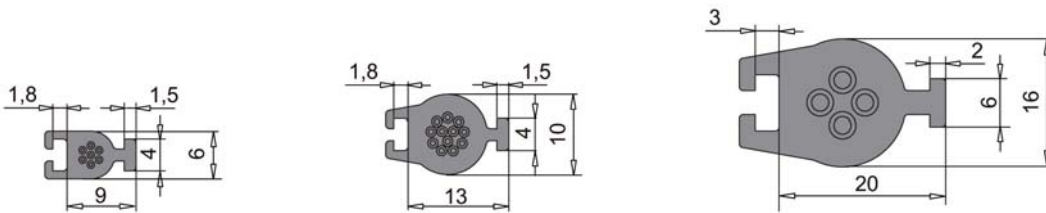
MULTI-FLATCABLE SYSTEM

The compound of T-cables is extensible to both sides. It is possible to combine T-cables with T-tubes, maybe for the integration in hydraulic systems or any other things you need to combine with. Our target for the following development steps is to find some industrial customers who are interested in this new system. It would be preferable to find a customer who can test this cable in a real application. For example: We made the first contact with a customer of SAB, the manufacturer of mobile elevating

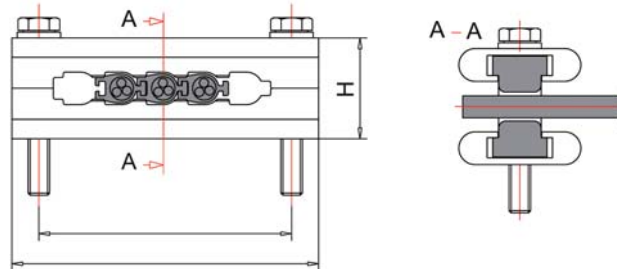
platforms, who will test this system in one of his applications. As this customer is very much interested in this Multi-Flatcable system, he intends to test four of our flat cable elements in a compound with two cables $3 \times 1.5 \text{ mm}^2$ and $3 \times 0,75 \text{ mm}^2$ and two flexible hydraulic tubes.

This is one first small step in the development of such a product, but a fine step forward and the best way to find out individual application situations and built a perfect solution.

At the moment we have 3 tools to extrude the specific outer sheath of this cable. It is possible to produce cables with different dimensions. We can use nearly every kind of cable to extrude the outer sheath trappings.



The cable compound can be mounted with plastic or metal rail like the following schematic draft shows:



Advantages:

- For nearly very kind of movement
- Extensible to both sides
- Almost noiseless
- Low mass



It is possible to use this system for the following applications: (to mention just a few examples)

- positioning systems
- measuring automation
- moulding machines
- telescoping cranes
- bonding
- packaging systems
- medical devices-