

UTECH

CABLE ROUTES OF COMPLEX SHAPE

TRAY SUPPORT
STRUCTURES

CABLE TRAYS, ЛЕСТНИЦЫ
И АКЦЕССУАРЫ

APPLICATIONS OF CABLE
MANAGEMENT SYSTEMS



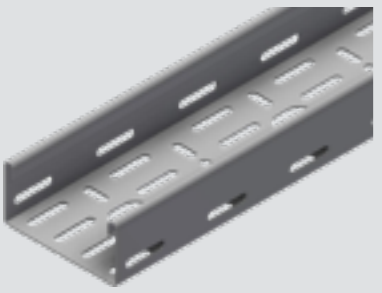


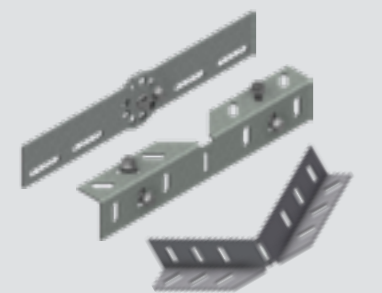
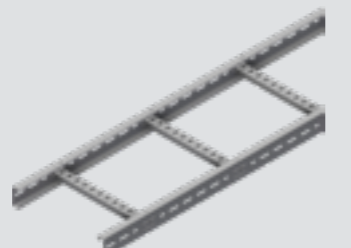
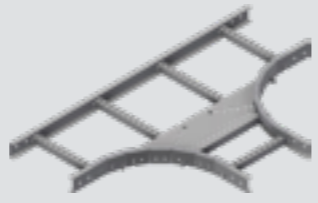
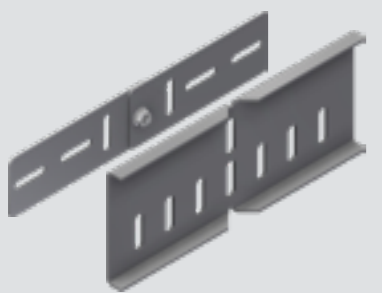


APPLICATIONS OF CABLE ROUTES OF COMPLEX SHAPE:

- For routing of power, control and lighting cables on industrial modules and inside workshops.
- In commercial buildings for routing cable systems with complex geometry.
- In outdoor areas, for routing cables on cable trestles.

ADVANTAGES OF UTECH SOLUTIONS FOR CABLE ROUTES OF COMPLEX SHAPE:

- Development and supply of supports specially designed for the specific project, ensuring maximum efficiency and reliability of the structure.
- Minimal set of elements ensuring maximum system flexibility and adaptability to different installation and operating conditions.
- Detailed solutions tailored to individual project features, avoiding possible inconsistencies and problems in the future.

MAIN ELEMENTS USED

<p>SPB-RF CABLE TRAYS</p> <p>Height 50; 75; 100 Width 50 – 600</p>  <p>See section «Cable trays»</p>	<p>CABLE TRAY ACCESSORIES SPB-RF</p> <p>Height 50; 75; 100 Width 50 – 600</p>  <p>See section «Cable trays»</p>	<p>INSTALLATION SYSTEMS MEKANO</p> <p>Types: CH50, CH100 Thickness 1,5; 2; 2,5; 3 mm</p>  <p>See section «CMS support elements»</p>
<p>HI-HO/HI-VE HINGES</p> <p>Thickness 0,7 и 1 mm Width 50 – 600</p>  <p>See section «Cable trays»</p>	<p>LOE CABLE LADDERS</p> <p>Height 55; 75; 100 Width 200; 300; 400; 600</p>  <p>See section «LOE»</p>	<p>LADDER ACCESSORIES LOE</p> <p>Height 55; 75; 100 Width 200; 300; 400; 600</p>  <p>See section «LOE»</p>
<p>HI-HO/HI-VE HINGES</p> <p>Simple and convenient solution for non-standard bends</p>  <p>See section «LOE»</p>	<p>TAPE CLAMP</p> <p>Provides short-circuit protection up to 135 kA</p>  <p>See section «Clamps»</p>	<p>CA-50 BRACKETS</p> <p>Lengths from 180 to 530 mm</p>  <p>See section «CMS support elements»</p>

ОСОБЕННОСТИ РАСЧЕТА И ПРОЕКТИРОВАНИЯ

Designing structures for complex cable routes requires consideration of many factors:

- weight, cable type and cross-section, turning radius;
- minimum allowable distance between the tiers;
- accessibility of cable route fixing points for installation;
- the load on the structure during operation:
 - a. Maintenance.
 - b. Additional cables.
 - c. Light fittings, etc.

The design needs to consider the materials of construction, seismic activity in the installation region, wind load, corrosion resistance, fire safety, safety for installers and personnel, accessibility of maintenance points, expandability, and energy efficiency.

The environmental friendliness of the materials used is also an important factor.

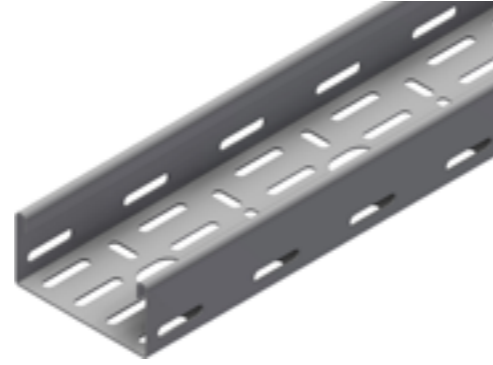
A feasibility analysis must also determine additional brackets for lighting fixtures and cable entry structures, the optimum spacing of the structures, and the fixing locations on the plan.



LIST OF FREQUENTLY USED ITEMS

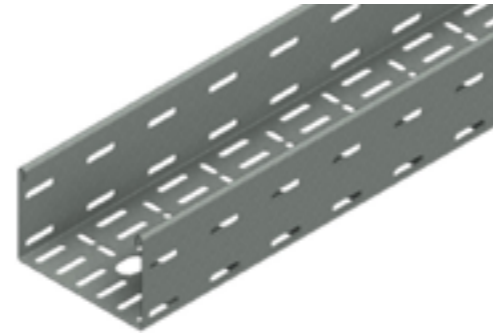
PERFORATED CABLE TRAY SPB-RF50

Item No.	Name	Weight, kg/m
3851075	Cable tray OS SPB-RF50 CT-100-3000-0.7 PG	0,90
3850184	Cable tray OS SPB-RF50 CT-100-3000-0.7 PG	1,12
3853579	Cable tray OS SPB-RF50 CT-150-3000-0.7 PG	1,34
3850185	Cable tray OS SPB-RF50 CT-200-3000-0.7 PG	1,56
3850186	Cable tray OS SPB-RF50-CT-300-3000-0.7 PG	2,24
3848760	Cable tray OS SPB-RF50 CT-400-3000-0.7 PG	2,72
3848761	Cable tray OS SPB-RF50 CT-500-3000-0.7 PG	3,25
3848762	Cable tray OS SPB-RF50 CT-600-3000-0.7 PG	3,78



PERFORATED CABLE TRAY SPB-RF100

Item No.	Name	Weight, kg/m
3850436	Cable tray OS SPB-RF100 CT-100-3000-0.7 PG	1,64
3853581	Cable tray OS SPB-RF100 CT-150-3000-0.7 PG	1,86
3850437	Cable tray OS SPB-RF100 CT-200-3000-0.7 PG	2,08
3850442	Cable tray OS SPB-RF100 CT-300-3000-0.7 PG	2,78
3850439	Cable tray OS SPB-RF100 CT-400-3000-0.7 PG	3,26
3850440	Cable tray OS SPB-RF100 CT-500-3000-0.7 PG	3,79
3850441	Cable tray OS SPB-RF100 CT-600-3000-0.7 PG	4,32



INTERNAL BUTT CONNECTOR

For securing the inside of the cable tray.
Two connectors are recommended per connection.

Item No.	Name	Weight, kg/m
3858355	Connector OS SPB-RF50 SC-IN PT PG	0,21
3858356	Connector OS SPB-RF100 SC PG	0,41

4 M6 × 12 locking bolts and nuts to be ordered separately.



VERTICAL HINGE

Item No.	Name	Weight, kg/m
3858477	Hinge OS SPB-RF50 HI-VE PG	0,2
3859519	Hinge OS SPB-RF100 HI-VE HDG	1,10

4 M6 × 12 locking bolts and nuts to be ordered separately.



HORIZONTAL HINGE

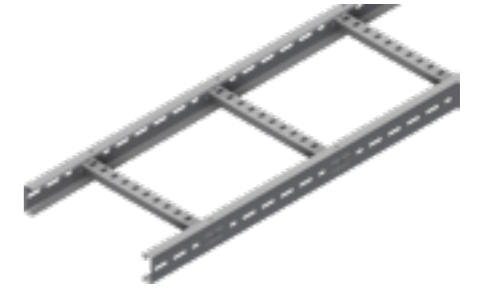
Item No.	Name	Weight, kg/m
3859520	Hinge OS SPB-RF100 HI-HO HDG	0,50
3858478	Hinge OS SPB-RF50 SA-HO-FX PG	0,2

4 M6 × 12 locking bolts and nuts to be ordered separately.



CABLE LADDER LOE55 3 M LONG

Item No.	Name	Weight, kg/m
3858748	Ladder OS LOE55-M CL-200-3000 HDG	3,33
3858749	Ladder OS LOE55-M CL-300-3000 HDG	3,60
3858750	Ladder OS LOE55-M CL-400-3000 HDG	3,87
3858751	Ladder OS LOE55-M CL-500-3000 HDG	4,13
3858752	Ladder OS LOE55-M CL-600-3000 HDG	4,40



EXTERNAL JOINT CONNECTOR LOE55

Joint connector for mounting on the outside of the LOE cable ladder.
Two connectors are required per connection.

Item No.	Name	Weight, kg/m
3858841	Connector OS LOE55 SC HDG	0,21

4 M6 × 12 locking bolts and nuts to be ordered separately.



HORIZONTAL BUTT CONNECTOR

Item No.	Name	Weight, kg/m
3859533	Connector OS LOE55 HI-HO HDG	0,22

4 M6 × 12 locking bolts and nuts to be ordered separately.



VERTICAL HINGE

Item No.	Name	Weight, kg/m
3859532	Hinge OS LOE55 HI-VE HDG	0,27

4 M6 × 12 locking bolts and nuts to be ordered separately.



CA-50 BRACKETS

Item No.	Name	Weight, kg/m
3847420	Bracket OS CA-50-180 HDG	0,56
3860119	Bracket OS CA-50-250 HDG	0,76
3860120	Bracket OS CA-50-330 HDG	0,90
3860121	Bracket OS CA-50-430 HDG	1,10
3860122	Bracket OS CA-50-530 HDG	1,40

