By CARPEL® s.r.l.

EN

CABLE CARRYING LINE

EUROPEAN STAINLESS STEEL TYPE

Cable carrying line
“EUROPEAN STAINLESS STEEL TYPE”

The EUROPEO INOX cable carrying line is a practical, efficient and safe system for for the distribution of energy, whether electrical, pneumatic or other, for mobile equipment such as cranes, gantries, etc...

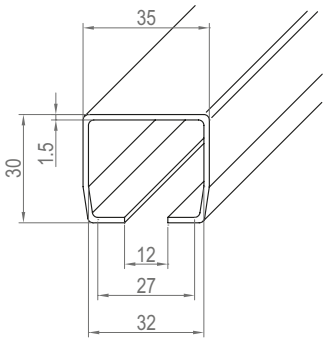
The INOX series is characterised by the fact that the body, components and screws of the articles are all made of completely in AISI 304 steel.

Stainless steel makes the line suitable for use in particular conditions such as steel mills, corrosive environments, marine and other surroundings with the presence of acids, or in food in food environments and for all the particular needs of your installations and projects.

Quality and safety are the characteristics of this line certified by the “CE” mark, which guarantees that our products meet the guarantee that our products meet the requirements of the Machinery Directive 2006/42/EC and subsequent amendments.

CAT 1 A /2020 INOX

CABLE CARRYING RACEWAY



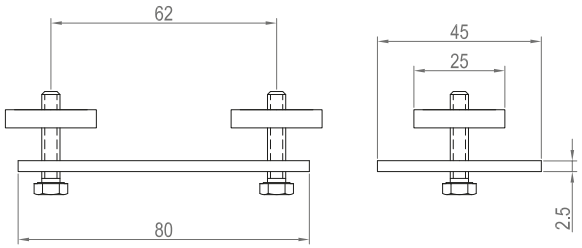
Material	**Stainless Steel AISI 304**
Thickness	**1,5 mm**
Moment of inertia	**1,9 cm⁴**
Resisting moment	**1,1 cm³**
Weight	**1,19 kg/m**
Capacity	**30 kg every 1,5 m**
Suspension distance	**1,5 m**

ITEM	BAR CODE
1	**CAN 1 EUR 3 INOX**
	CAN 1 EUR 6 INOX

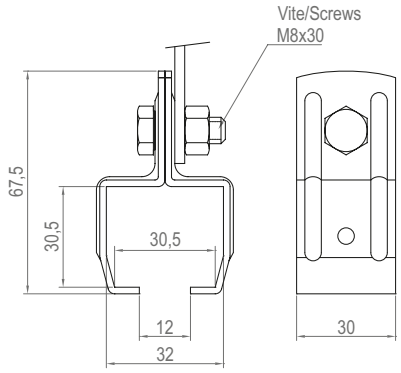
STEEL SIMPLE HEAD

Material	**Stainless Steel AISI 304**
Weight	**175 g**

ITEM	CODE
5	**TS 1 SEMPAI**



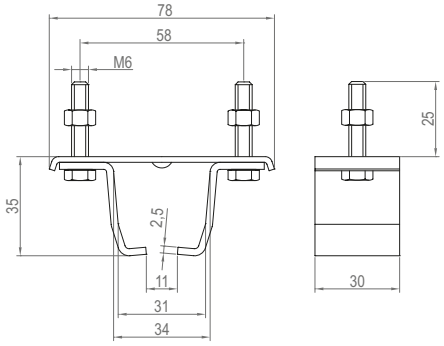
SUSPENSION WITH SIDE FIXING



Material	Stainless Steel AISI 304	
	with screws	without screws
Weight	100 g	80 g
Capacity	30 kg	30 kg

ITEM	CODE
3	SOS 1 FLCVI
4	SOS 1 FLSVI

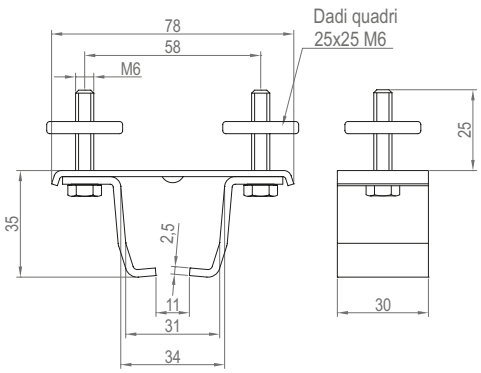
SUSPENSION WITH WALL FIXING



Material	Stainless Steel AISI 304	
	with screws	without screws
Weight	125 g	100 g
Capacity	45 kg	45 kg

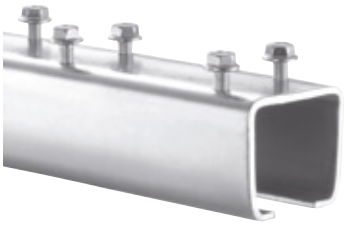
ITEM	CODE
4+4	SOS 1 PACVI
4+4	SOS 1 PASVI

WALL SUSPENSION WITH BUILT-UP FIXING SYSTEM



Material	Stainless Steel AISI 304
Weight	150 g
Capacity	45 kg

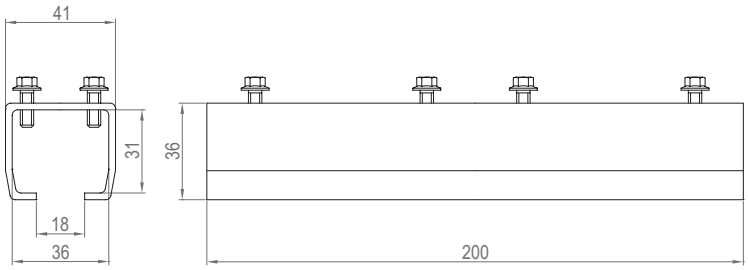
ITEM	CODE
4+4/C	SOS 1 PATCI

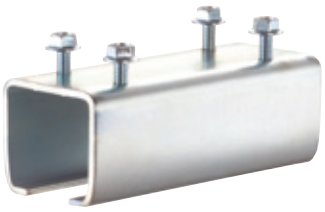


DOUBLE STEEL JOINT

Material	**Stainless Steel AISI 304**
Weight	**485 g**

ITEM	CODE
2 bis	**GIU 1 FDI**

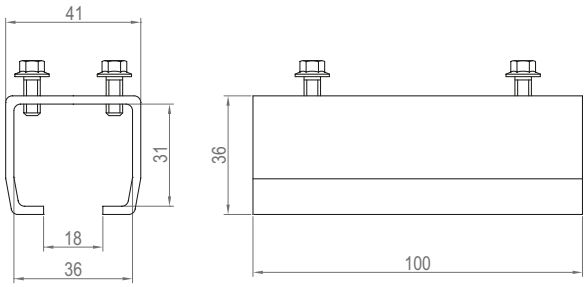




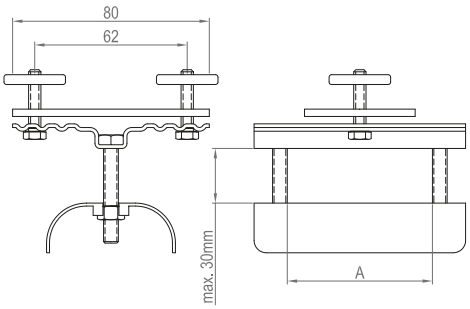
SIMPLE STEEL JOINT

Material	**Stainless Steel AISI 304**
Weight	**235 g**

ITEM	CODE
2	**GIU 1 FSI**

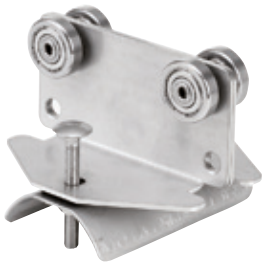


HEAD WITH SADDLE

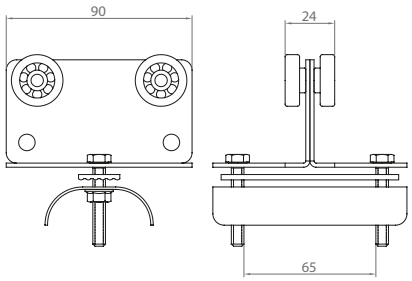


Material	Stainless Steel AISI 304
Capacity	35 kg

SADDLE	WEIGHT	ITEM	CODE
A= 65 mm	340 g	63	TSA 1 P65I
A= 100 mm	400 g	65	TSA 1 P10I



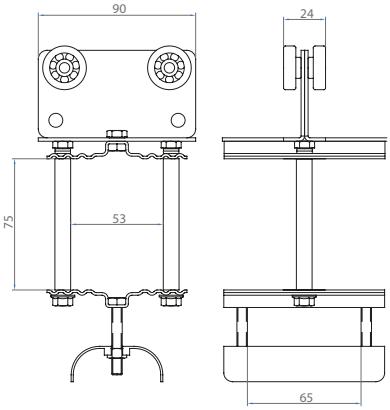
CABLE CARRYING TROLLEY



Material	Stainless Steel AISI 304
Wheels	Steel coated bearings Ø 25
Capacity	30 kg

SADDLE	WEIGHT	ITEM	CODE
A= 65 mm	385 g	69	CRA 1 P65CI
A= 100 mm	445 g	71	CRA 1 P10CI

TRAILER

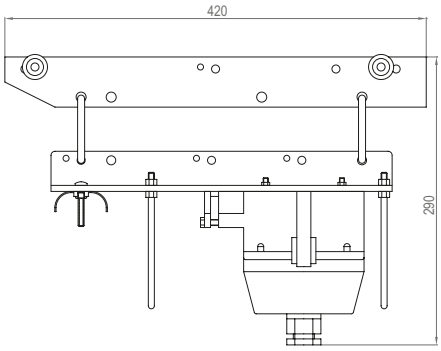


Material	Stainless Steel AISI 304
Wheels	Steel coated bearings Ø 25
Capacity	25 kg

SADDLE	WEIGHT	ITEM	CODE
A= 65 mm	560 g	75	TRA 1 P65CI
A= 100 mm	620 g	77	TRA 1 P10CI

CONNECTOR FOR FLAT CABLE

SOCKET TYPE CARPEL

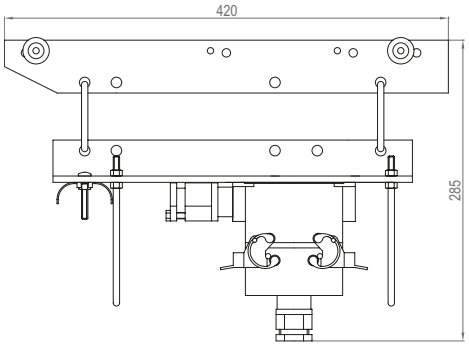


Material	Alluminium plate Nylon socket Stainless Steel AISI 304 Slat Small parts Stainless Steel AISI 304
Wheels	Steel coated bearings Ø 25 mm
Capacity	35 kg
Weight	2900 g

	ITEM	CODE
10 Pole	015	CON 1 P10
16 Pole	030	CON 1 P16
24 Pole	040	CON 1 P24

CONNECTOR FOR FLAT CABLE

SOCKET TYPE STANDARD

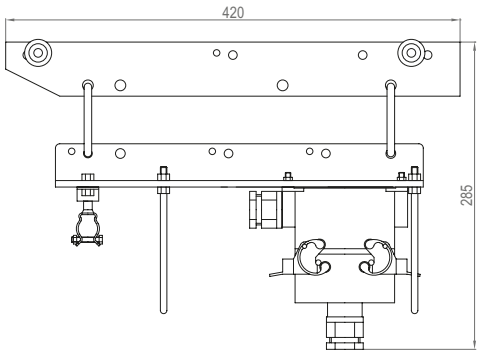


Material	Material Alluminium plate Alluminium socket Stainless Steel AISI 304 Slat Small parts Stainless Steel AISI 304
Wheels	Steel coated bearings Ø 25 mm
Capacity	35 kg
Weight	2660 g

	ITEM	CODE
10 Pole	026	CON 1 P10I
16 Pole	027	CON 1 P16I
24 Pole	028	CON 1 P24I
32 Pole	029	CON 1 P32I

CONNECTOR FOR ROUND CABLE

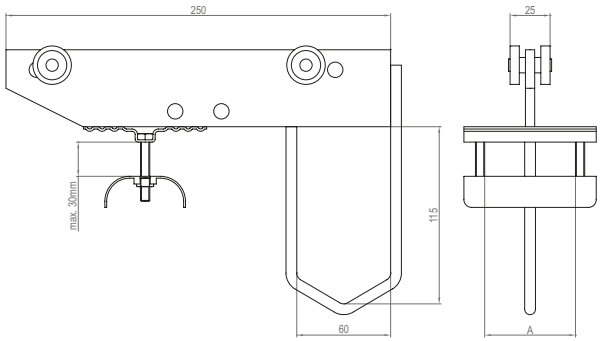
SOCKET TYPE STANDARD



Material	Alluminium plate Alluminium socket Stainless Steel AISI 304 Slat Small parts Stainless Steel AISI 304
Wheels	Steel coated bearings Ø 25 mm
Capacity	35 kg
Weight	2885 g

	ITEM	CODE
10 Pole	005	CON 1 T10
16 Pole	010	CON 1 T16
24 Pole	020	CON 1 T24
32 Pole	025	CON 1 T32

SPECIAL TRAILER

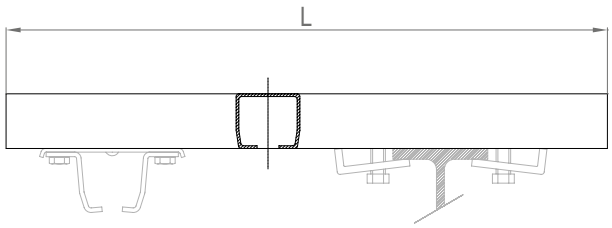


Material	**Stainless Steel AISI 304**
Wheels	**Steel coated bearings Ø 25**
Capacity	**30 kg**

SADDLE	WEIGHT	ITEM	CODE
A= 65 mm	**370 g**	**004**	**TRA 1 S65C**
A= 100 mm	**430 g**	**007**	**TRA 1 S10C**

ASSEMBLY ACCESSORIES

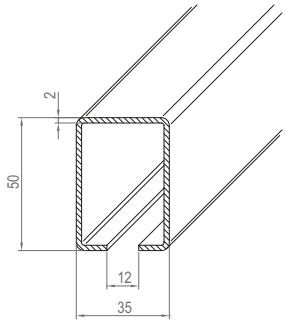
BRACKET



Material	Stainless Steel AISI 304

LUNGH.	WEIGHT	CAPACITY	ITEM
650 mm	**800 g**	**20 kg**	**MEN-EUR-INOX**
800 mm	**960 g**	**15 kg**	**MEN-800-INOX**
1000 mm	**1,2 kg**	**10 kg**	**MEN-1000-INOX**

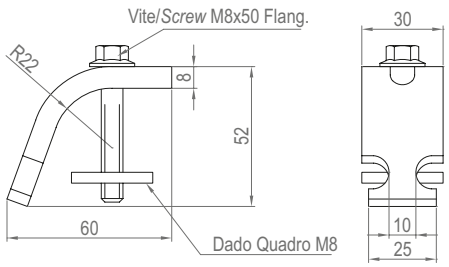
C-RAIL SPECIAL 35X50



MATERIAL	WEIGHT	LUNGH.	ITEM
Stainless Steel AISI 304	**2,3 kg/mt**	**6 mt ***	**CRAIL35X50-INOX**
Stainless Steel AISI 304	**2,3 kg/mt**	**6 mt ***	**CRAIL35X50INOX-316**

**possibilità di taglio a misura*

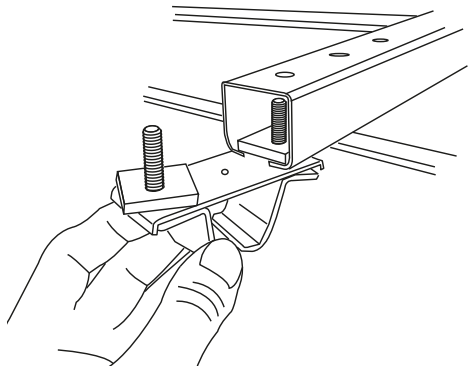
CURVED STIRRUPS



MATERIAL	WEIGHT	CAPACITY	ITEM
Stainless Steel AISI 304	**150 g**	**50 kg**	**STA-INOX**
Stainless Steel AISI 304	**150 g**	**50 kg**	**STA-INOX-316**

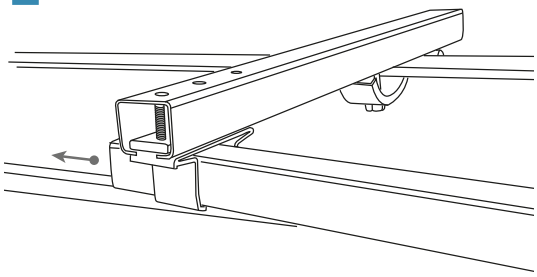
ASSEMBLY INSTRUCTIONS
LINEA CON TRAINO

1



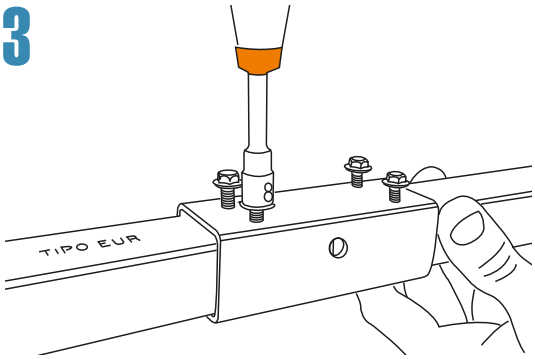
Place the suspensions into their seats (walls or brackets). In this assembly phase the suspension screws must not be overtightened, in order to allow the raceway bars to be inserted and positioned, if necessary.

2



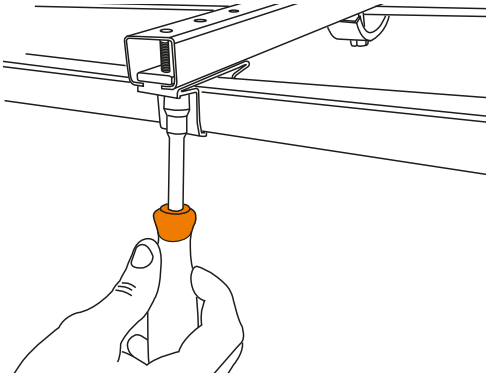
Insert the raceway bars into the suspensions. Make sure that there is a proper number of suspensions all along the line. In this phase particular attention has to be paid to the “sharp edge” of the raceway cutting side: such an edge is required to properly align the raceway parts to be joined and for the trolley to properly slide inside.

3



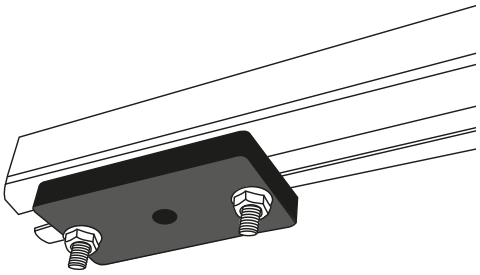
Apply the joints to the bar ends, then tighten the screws without deforming the raceway. The raceway ends must be adjacent and well aligned (the joint configuration avoids the raceway misalignment) preventing the trolley to strike the raceway ends during its stroke and the trolley to properly work in the time.

4



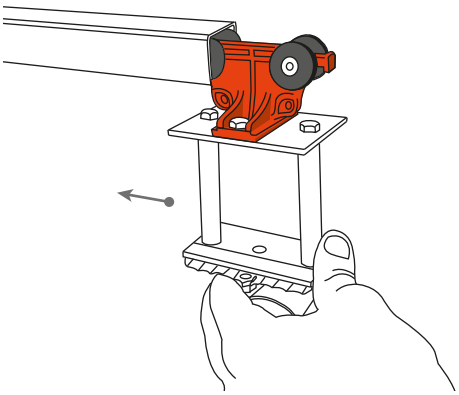
Tighten all the suspension screws and at the same time check that the entire line is locked.

5



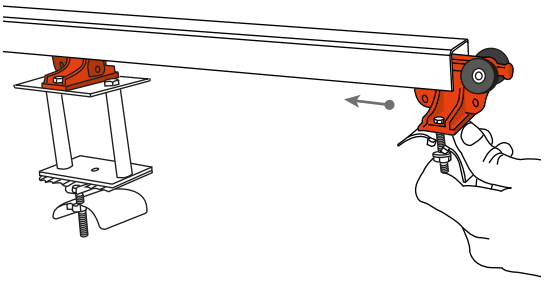
Check the alignment of the entire line.

6



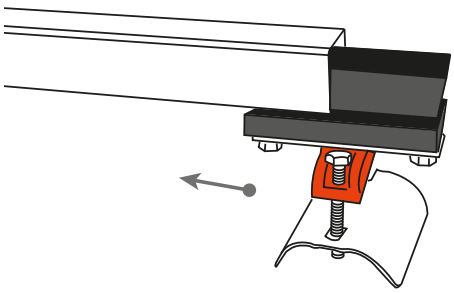
Insert the first head without the saddle, fixing it at the end opposite to that where the line will be connected to the feeding line.

7/8



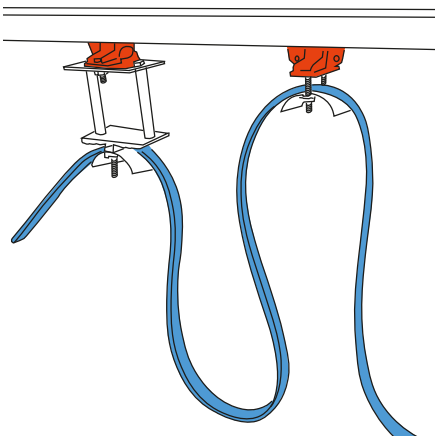
Insert the trailer into the raceway at the end without head. Then insert all the trolleys that will have to carry the feeding cable.

9



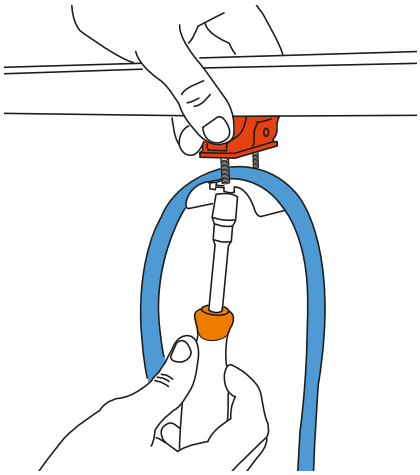
Place the head with saddle and fix it in order to close the line. The line closing prevents the trailer and the trolleys to come out.

10

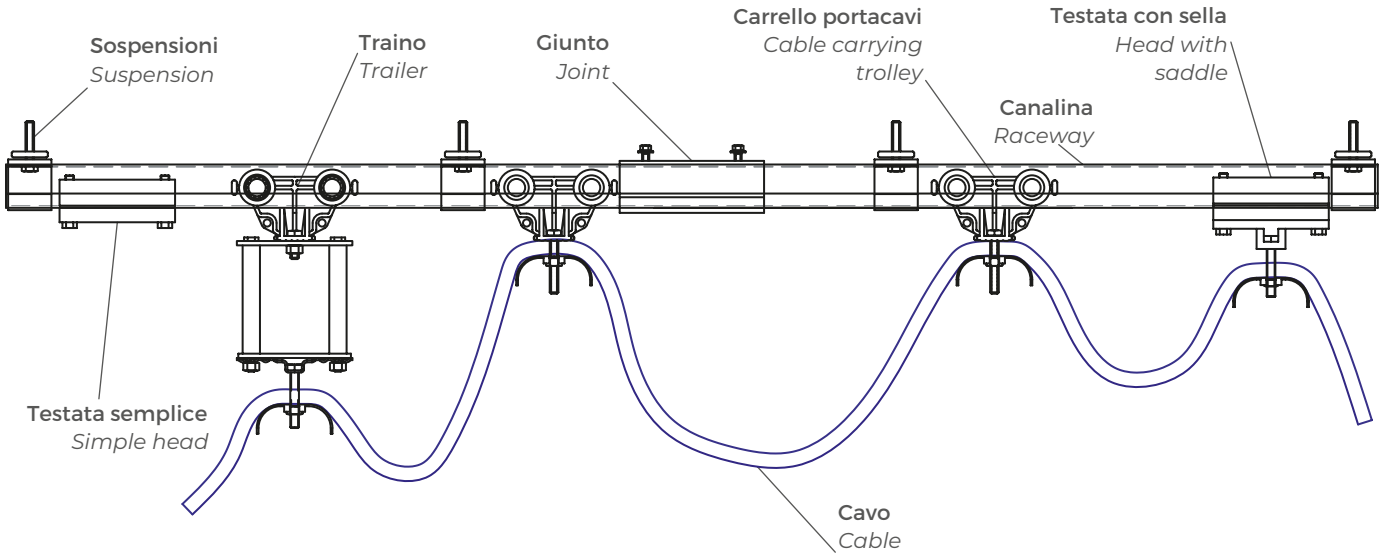


Insert the conductor cable into the trolley, between the saddle and the countersaddle starting from the head with saddle until reaching the trailer.

11



Tighten the trolley screws fixing the cable between the saddle and the countersaddle, paying attention to verify that the cable does not slide at all into the trolley.
Leave a quantity of cable between each trolley equal to the required loop.



ASSEMBLY INSTRUCTIONS
LINE WITH PUSH-BUTTON PANEL

In case you have to mount the drive control line with push-button panel, the procedure is similar to the previous one, but having the foresight to insert the connector instead of the trailer. Start from point 6 of the instructions LINE WITH TRAILER. Proceed with the installation of the connector as follows:

1	Prepare the flat cable to be mounted on the line, removing approx. 3 cm of external sheath and approx. 1 cm of sheath for each internal wire.
2	Run the flat cable between the saddle and the connector plate.
3	Open the connector: should it be a nylon one (orange, light blue or yellow coloured) lever, by means of a proper tool (pliers or screwdriver), the spring end. Should it be a metal connector, press the two external levers for releasing the coupling. Remove the cover.
4	Take the contact blocks inside the connector. Separate them, if necessary.
5	Run the flat cable through the cable gland placed on the connector base.
6	Connect the line flat cable to the female contact block (contact block without the external contact pins) by inserting the single wires into the proper numbered seats. Fix the cable by tightening the relevant screws to each seat. The cable connection sequence is provided by the installer according to his own requirements.
7	Insert the female contact block into the connector base and lock it by means of the four screws placed at the edges.
8	Tighten the cable gland screws to the connector base, thus preventing any dust or other foreign matters to enter.
9	Tighten the saddle screws paying attention to leave a big quantity of cable between the saddle and the cable gland.
10	After separating the round cable from the side metal wires for approx. 40-50 cm, run the round cable of the push-button panel through the cable gland of the connector cover.
11	Remove the sheaths as described for the flat cable and connect the round cable to the male contact block (the one provided with the external contact pins), paying attention to follow the instructions and proceeding in the same order as done for the female contact block.
12	Fix the male contact block to the connector cover using the four screws placed on the cover edges.
13	Apply the connector cover to the base matching the two contact blocks, then tighten it with the levers for STANDARD connectors, or with the spring for the CARPEL nylon connector.
14	Be sure the round cable completes an entire revolution, then fix a side wire to each tie rod plate.
15	Fix the metal side wires to the round cable at the point where they meet, using a proper fastening clamp, thus avoiding the side wires to be further separated from the round cable during the operation.
16	Fix the round cable to a side wire using a proper fastening clamp in a point where the cable is idle turning. This operation, besides assuring a cable idle turning, is required to prevent the cable traction affecting the contacts inside the connector during the operations, instead of distributing on the metal wires.
17	Tighten the cable gland placed on the connector cover by turning the cable gland screw, thus avoiding any dust or other foreign matters to enter.

By CARPEL® s.r.l.

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