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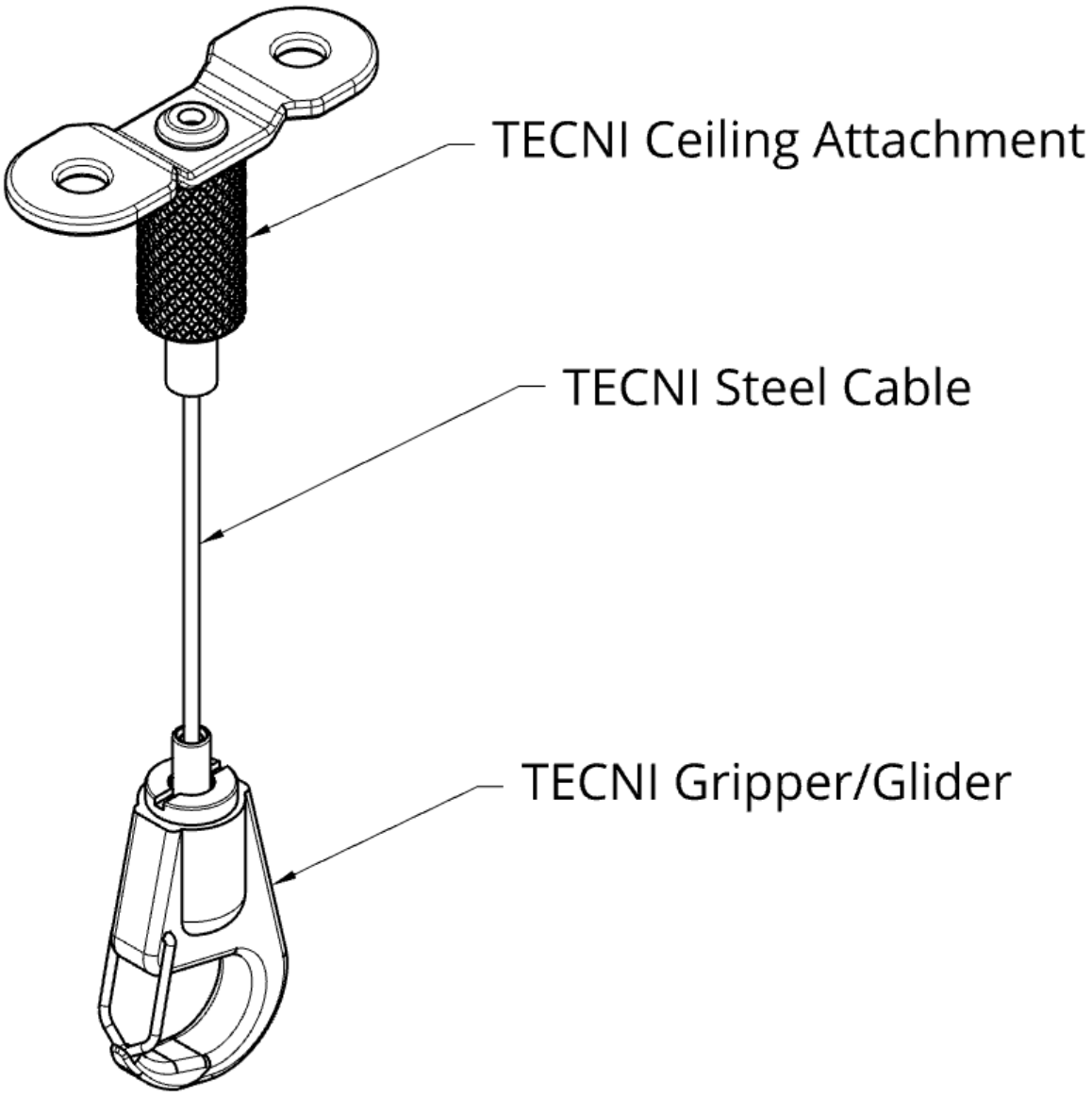
Technical Data Sheet - TECNI® Gripper Suspension Systems



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Introduction

TECNI gripper suspension systems are made up of 3 quick and easy to install components. The ceiling attachment, cable and gripper.
There are exceptions to the rule as no two suspension projects are the same. TECNI can offer a range of fittings to create a multi point suspension system stemming from one main cable if required.

Cable requirements

The cable diameter required for your installation is directly linked to the loading requirements of your suspension system. To ensure the correct cable is selected please check the table in the loading requirements section below.

The Working Load Limit determines the cable diameter required for your system. Most components are suitable for use with a range of cable diameters however, to make the selection process simpler we have based the diameter of the cable on the highest working load available for each component.

TECNI recommends using 7x7 construction cable up to 3mm diameter and 7x19 construction for 4-8mm diameter cables.

Load ratings for the grippers are only valid when the grippers are supplied with TECNI brand cables.

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Loading requirements

The table below shows the working load limit alongside the appropriate cable diameter. There are exceptions to the rule for some grippers regarding the working load limit which will be noted on the website. TECNI gripper names include the diameter of the cable to make the selection process easier eg: TG1 or CA1 = 1mm cable = 8kg WLL. TG relates to TECNI Grippers CA relates to Ceiling Attachments.

Gripper Name	Cable Diameter	Working Load Limit
TG1 OR CA1	1mm	8kg
TG1.2 OR CA1.2	1.2mm	12kg
TG1.5 OR CA1.5	1.5mm	15kg
TG2 OR CA2	2mm	38kg
TG2.5 OR CA2.5	2.5mm	42kg

Incorrect installation and selecting the wrong components may provide undesirable results. Weight Load Guidelines refer to STATIC LOADS ONLY.

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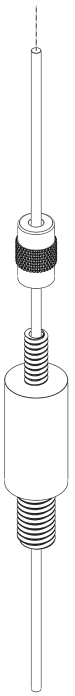
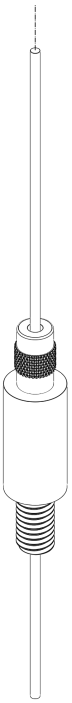
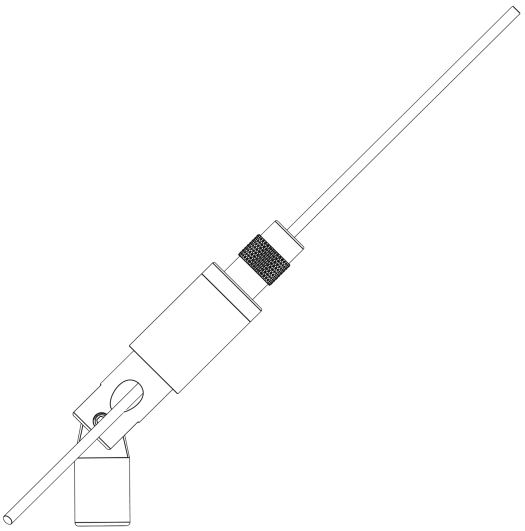
How to use Grippers







Insert cable into the top of the gripper. Always insert through the plunger at the top unless otherwise stated. Adjust the gripper downwards by pushing the plunger on the top of the gripper.

If the gripper has a locking cap, tighten back on to the plunger once you are happy with the positioning of your installation.

When using an angled gripper the joint of the gripper must take the angle and the cable must be run at the same angle as the plunger.

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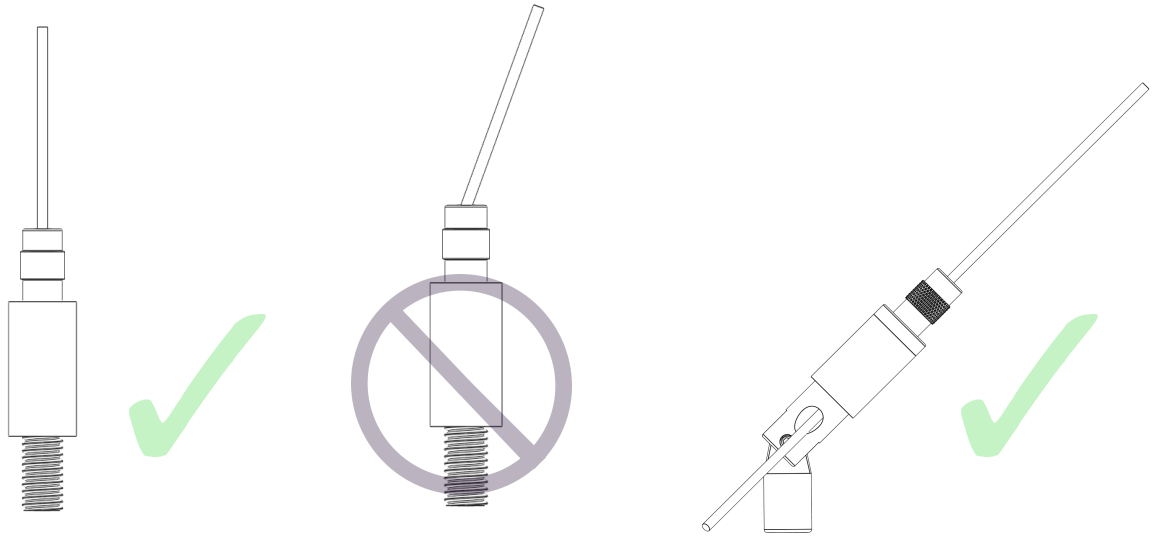

Grippers and ceiling fittings perform best when in a straight line. For angled applications use angle grippers and ceiling fittings.

Avoid angled pulls in excess of 5°on straight pull type grippers.

An angled cable will reduce the weight a suspension system can hold. Use a gripper designed for angles. Angles over 60° are not recommended.

Angle from vertical	0°	15°	30°	45°	60°
Factor	1	0.9	0.8	0.7	0.5

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Limitations of use

TECNI Gripper Suspension Systems are not recommended for outdoor use. Avoid areas with chemical fumes for example swimming pools and persistent air currents for example by an air conditioning unit or hot air blower. Persistent vibration can also affect the long term effectiveness of the suspension system.

Certification and Testing

All items purchased from TECNI are supplied with a certificate of conformity. The working load limits on this document are for reference and are only valid when used in conjunction with TECNI brand cables. TECNI can offer the option to Proof Load or Destruction Test items as a chargeable service.

Custom Design Options

TECNI can supply cable in a length to suit your requirements; You can choose from either cut lengths or the overall quantity can be supplied in a roll or on a reel (depending on lengths), along with a pair of wire rope cutters. Large quantities of cut lengths will incur a labour charge.

TECNI has the capability to manufacture cables with swaged (pressed) end fittings if required, a member of the sales team will be able to assist you with any enquiries or questions you might have regarding this option.