



Tube connectors
and end-caps



Square tube connectors



Connectors consisting of two parts made out of polyamide (PA) based tecnopolymer, black or grey colour. Available with or without zinc-plated steel or stainless steel reinforcement.

• Standard executions

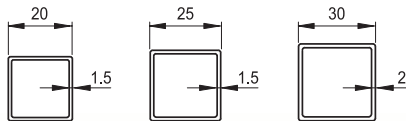
- Available in different shapes: monodimensional (1A), bidimensional (2A) and tridimensional (3A), two-way (2W), three-way (3W), six-way (6W).
- Without reinforcement.
- With zinc-plated steel reinforcement.
- With zinc-plated steel reinforcement and threaded hole for the assembly of other elements (levelling elements etc.)
- With stainless steel reinforcement.

Features and applications

Suitable for creating structures consisting of square profiles. The assembly can be performed simply by positioning the connector, forcing it, inside the profile, with no need of screws or other fasteners.

Dimensions

For tubes with external dimension [mm]: 20, 25, 30.



1A-2W



2A-2W



2A-3W



2A-4W



3A-3W



3A-4W



3A-5W



3A-6W



Adjustable angle square tube connectors



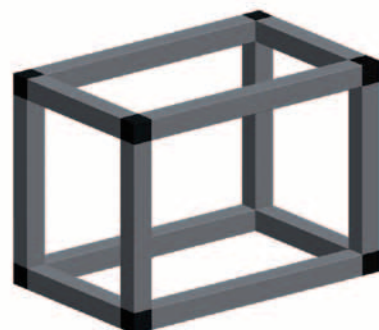
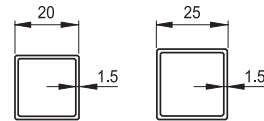
Connectors made out of polyamide (PA) based tecnopolymer, black colour.

Features and applications

Suitable for creating structures consisting of square profiles. The assembly can be performed simply by positioning the connector, forcing it, inside the profile, with no need of screws or other fasteners.

Dimensions

For tubes with external dimension [mm]: 20, 25.



STE · RTE

Square and round tube expander connectors



Connectors made out of polyamide (PA) based technopolymer, black colour.

Features and applications

The two connector parts have pins which are housed in special counter-seats. Two cavities inside the connector are provided for housing an hexagonal-head screw or an hexagonal nut (supplied on request). Thanks to the tapered shape of the cavity, the connector exerts a pressure on the inner walls of the tube, due to the tightening of the screw or of the nut, thus ensuring the tensile strength of the connection.

The connector has no collar and allows the joining of square or round tubes to other elements.

The assembly can be performed simply by positioning the connector inside the tube, with no need of screws or other fasteners.

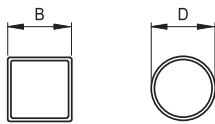
Assembly of the tube to the connector

It can be made alternatively with:

- Hexagonal-head screw DIN 933
- Hexagonal nut DIN 934
- Self-locking hexagonal nut DIN 985.

Dimensions

- **STE**: for square tubes, B [mm] = 20, 22, 25, 30, 35, 40.
- **RTE**: for round tubes, D [mm] = 20, 22, 25, 28, 30, 32, 35, 40.



NDE.Q · NDE.T

Square and round tube expander end-caps



End-caps made out of polyamide (PA) based technopolymer, black colour, with zinc-plated steel nuts DIN 934.

Features and applications

The two end-cap parts have pins which are housed in special counter-seats. Two cavities inside the end-cap are provided for housing two hexagonal nuts DIN 934. Thanks to the tapered shape of the cavity, the end-cap exerts a pressure on the inner walls of the tube, due to the tightening of the nuts, thus ensuring the tensile strength of the connection.

The end-cap enables the joining of square or round tubes with other elements or the installation of wheels or levelling elements with locking nut, having the function of activating the end-cap expansion.

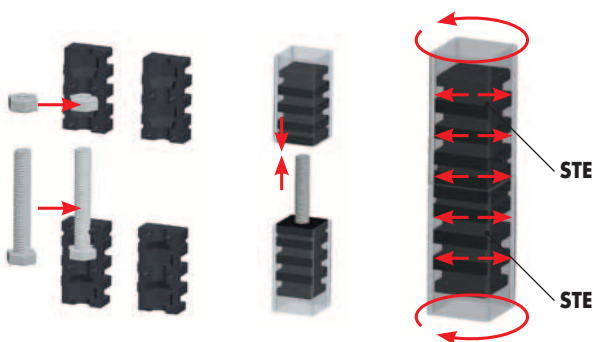
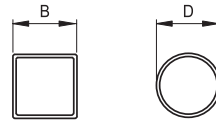
The installation of a simple levelling element does not enable the expansion of the end-cap: for this kind of applications the use of NDL.Q end-caps is a more proper alternative.

The assembly can be performed simply by positioning the end-cap, forcing it, inside the tube, with no need of screws or other fasteners.

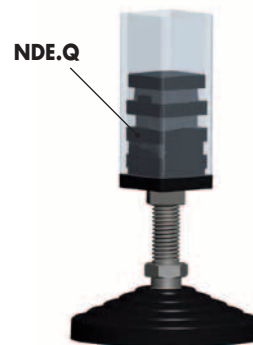
Load capacity under compression = 3000 N

Dimensions

- **NDE.Q**: for square tubes, B [mm] = 20, 25, 30, 35, 40, 50, 60.
- **NDE.T**: for round tubes, D [mm] = 20, 25, 28, 30, 32, 35, 40, 50.



Example: joining between two tubes



Example: installation of a levelling element with locking nut

NDL.Q · NDL.T

Square and round end-caps



End-caps made out of polyamide (PA) based technopolymer, black colour, with zinc-plated steel nut DIN 934.

Features and applications

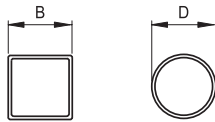
The two end-cap parts are connected together by means of two pins which are housed in special counterseats. A cavity inside the end-cap is provided for housing an hexagonal nut DIN 934.

The assembly can be performed simply by positioning the end-cap, forcing it, inside the tube, with no need of screws or other fasteners.

Load capacity under compression = 3000 N

Dimensions

- **NDL.Q**: for square tubes, B [mm] = 20, 25, 30, 35, 40, 50, 60.
- **NDL.T**: for round tubes, D [mm] = 20, 25, 28, 30, 32, 35, 40, 50.



NDL.Q

NDL.T



NDA.Q · NDA.T

Square and round end-caps with adjustable height levelling element



End-caps made out of polyamide (PA) based technopolymer, black colour.

Features and applications

End-caps for square tubes with adjustable height levelling element.

The assembly can be performed simply by positioning the end-cap, forcing it, inside the tube, with no need of screws or other fasteners.

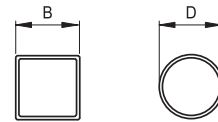
Load capacity under compression

according to the end-cap threading dimensions:

- M12: 1000 N
- M16: 1500 N
- M22: 2500 N

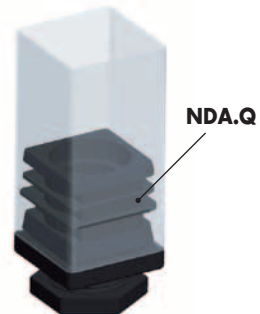
Dimensions

- **NDA.Q**: for square tubes, B [mm] = 20, 22, 25, 30, 35, 40, 45, 50.
- **NDA.T**: for round tubes, D [mm] = 20, 22, 25, 28, 30, 32, 35, 38, 40, 45, 50.



NDA.Q

NDA.T



ELESA S.p.A.
Via Pompei 29
20900 Monza (MB) ITALY
Phone: +39 039 28 11.1
Fax: +39 039 83 63 51
www.elesa.com
info@elesa.com

OTTO GANTER GmbH & Co.KG
Triberger Straße 3
78120 Furtwangen GERMANY
Phone: +49 7723 65 07 130
Fax: +49 7723 65 07 165
www.ganter-griff.com
info@ganter-griff.de

www.elesa-ganter.com