



STEEL WIRE ROPE



Zip-Clip suspension and bracing systems utilise premium grade wire rope in order to deliver high performance when used in conjunction with Zip-Clip wire locking devices. The higher grade delivers optimum hardness qualities providing higher safe working loads.

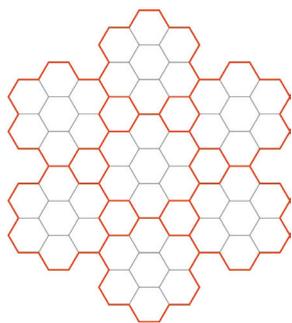
Manufactured in accordance with BS EN 12385, ASTM A1023/A1023M.

For Seismic bracing applications, the effective modulus of elasticity of each wire rope has been independently verified, with break strengths tested to ASTM A931.

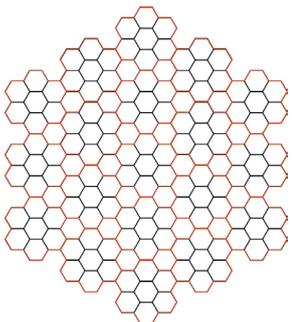
CONSTRUCTION

Zip-Clip offer two varieties of wire rope construction depending on the outer diameter size required.

Independent Wire Rope Cores (IWRC)



◀ 7x7 wire braid construction



◀ 7x19 wire braid construction

AVAILABILITY

Galvanised EIPS high-tensile steel electroplated wire rope:

Wire Code	SWL of Wire	Construction	Tensile Strength
G	15 kg	7×7 (6/1) RHRL	1960 N/mm ²
S	50 kg	7×7 (6/1) RHRL	1960 N/mm ²
Y	120 kg	7×7 (6/1) RHRL	1960 N/mm ²
P	300 kg	7×19 (6/1) RHRL	1960 N/mm ²
N	500 kg	7×19 (6/1) RHRL	1960 N/mm ²

Stainless steel wire rope:

Wire Code	SWL of Wire	Construction	Grade
G/SS	12 kg	7×7 (6/1) RHRL	AISI316
S/SS	40 kg	7×7 (6/1) RHRL	AISI316
Y/SS	100 kg	7×7 (6/1) RHRL	AISI316
P/SS	250 kg	7×19 (6/1) RHRL	AISI316
N/SS	400 kg	7×19 (6/1) RHRL	AISI316

Tables above indicate Safe Working Loads (SWL) of Zip-Clip's range of wire rope sizes, however, all systems are designed with a built-in safety factor.

Note: The G Wire is not for use with HVAC.

For installations where it is not possible to install the wire rope vertically, the reduction in the Safe Working Load created by the angle of installation must be considered and the factor applied.

Table below shows the effect on Safe Working Load when a system is working at an angle from the vertical (galvanised EIPS high-tensile steel electroplated wire rope).

Angular Performance

Wire Code	Vertical	15°	30°	45°	60°
G	15 kg	14.40 kg	12.9 kg	10.5 kg	7.5 kg
S	50 kg	48 kg	43 kg	35 kg	25 kg
Y	120 kg	115.2 kg	103.2 kg	84 kg	60 kg
P	300 kg	288 kg	258 kg	210 kg	150 kg
N	500 kg	480 kg	430 kg	350 kg	250 kg
LOAD	100%	96%	86%	70%	50%

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