

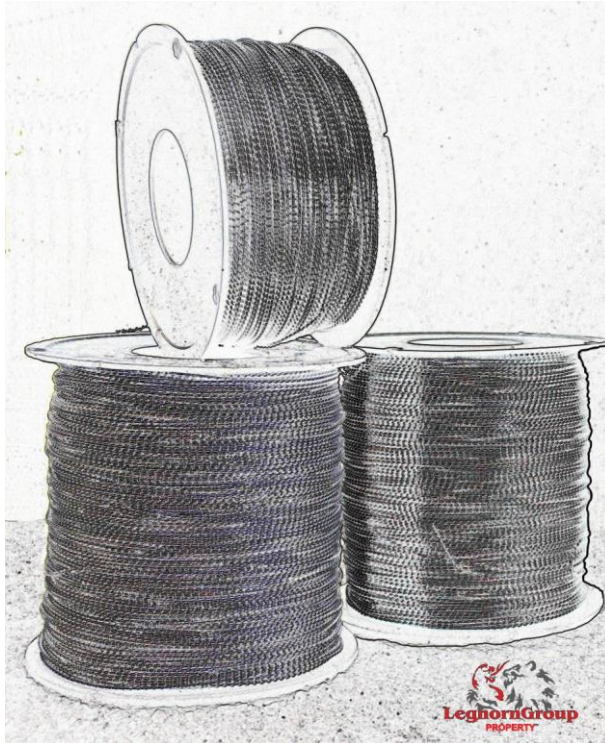


LeghornGroup

SEALING WIRES FOR SEALS



PROTECTION - CONTROL - IDENTIFICATION - TRACKING



LeghornGroup offers a wide range of sealing wires suitable for any need and that must be used with the proper security seal.

Customers can choose from a wide range of sealing wires that meet the various needs.

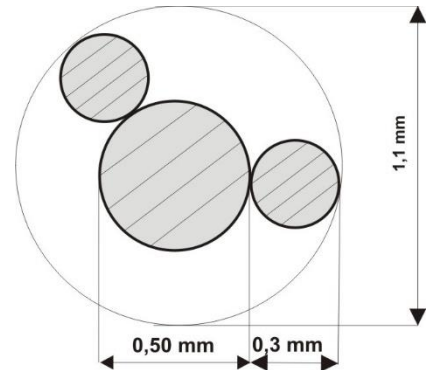
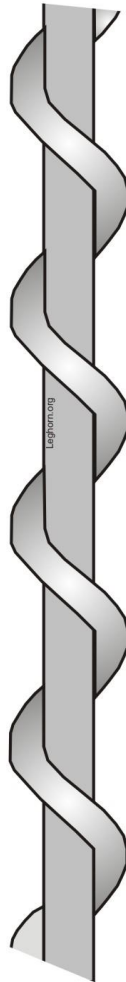
Sealing wires have different resistances, depending also on their composition e.g. made of 2 steel wires, plastic coated or even 7 wires.

Sealing wires can be supplied in reels of different length or in pre-cut pieces, depending on the needs of the customer.

In the refinery field, wire seals are commonly used to seal valves and fuel depots. Moreover, they are used where fuel is unloaded. Wire seals are particularly suitable for sealing liquid sampling bottles.

Wire seals are generally used to protect water, gas and electricity meters against any possible attempt of tampering. They may be customised and have progressive numbering.

We can supply:
 stainless steel sealing wire
 galvanised sealing wire
 copper sealing wire
 brass sealing wire
 nylon-copper sealing wire



1mm DIAMETER GALVANIZED STEEL SEALING WIRE TECHNICAL DATA

MATERIAL CLASSIFICATION:
GALVANIZED STEEL
ANNEALED

COMPOSITION:
Core wire: \varnothing mm 0.50 - Spiral
wire: \varnothing mm 0.30

STRENGTH PER METRE:
2,45g (1 Kg = 400 m ca)

**STRUCTURAL
CARACTERISTICS:**
COIL DISTANCE:
2.00 mm (50 coils per 100 mm)

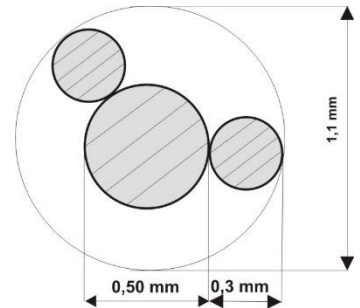
**SURFACE
CARACTERISTICS:**
SURFACE SATE: ZINC
COATING .
Minimum zinc coating 20gr/m2

CHEMICAL BREAKDOWN:

C%	Mn%	P%	S%
0,08	0,45	0,035	0,035

MECHANICAL CARACTERISTICS:

TOTAL DIAMETER mm	TOLERANCE \varnothing	BREAKING LOAD N/mm ²
1	10%	300/450



1mm DIAMETER STAINLESS STEEL SEALING WIRE TECHNICAL DATA

MATERIAL CLASSIFICATION:
Annealed steel AISI 304

COMPOSITION:

Core wire:
Ø mm 0.50 - Spiral wire: Ø mm
0.30

STRENGTH PER METRE:
2,45g (1 Kg = 400 m ca)

STRUCTURAL CARACTERISTICS:

COIL DISTANCE: 2.00 mm (50
coils per 100 mm)

SURFACE

CARACTERISTICS:

SURFACE SATE: GLOSS

CHEMICAL BREAKDOWN:

C%	Mn %	Si%	Ni%	Cr%	P%	S%
<= 0.08	<= 2.00	<= 1.00	8.00 - 10.50	18.00 - 20.00	<= 0.045	<= 0.030

MECHANICAL CARACTERISTICS

TOTAL DIAMETER mm	TOLERANCE Ø	BREAKING LOAD N/mm ²
1.00	10%	700/750

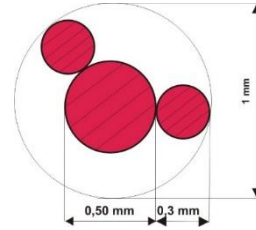
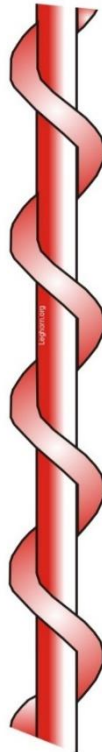


**STRUCTURAL
CARACTERISTICS:**

COIL DISTANCE: 2.00 mm (50 coils per 100 mm)

**SURFACE
CARACTERISTICS:**

SURFACE SATE: GLOSSY



**1mm DIAMETER RED
COPPER SEALING WIRE
TECHNICAL DATA**

**MATERIAL CLASSIFICATION:
RED COPPER ANNEALED
ASTM B 49,92 – UNI EN 1977
– 2000**

COMPOSITION:

Core wire:

Ø mm 0.50 - Spiral wire: Ø mm 0.30

STRENGTH PER METRE:

2,78g (1 Kg = 360 m circa)

CHEMICAL BREAKDOWN

Cu%	Fe%	Pb%	As%	Ag%	Ni%	Sn%	S%
99,974	0,0035	0,0013	0,0011	0,0011	0,0008	0,0009	0,004

MECHANICAL CARACTERISTICS

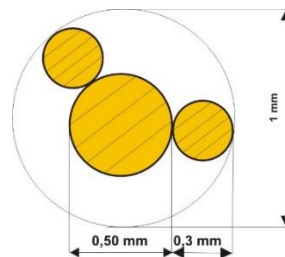
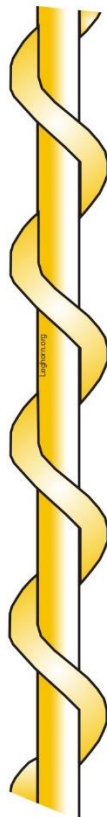
TOTAL DIAMETER mm	TOLERANCE Ø	BREAKING LOAD N/mm ²
1.00	10%	210/220

**STRUCTURAL****CARACTERISTICS:**

COIL DISTANCE: 2.00 mm (50 coils per 100 mm)

SURFACE**CARACTERISTICS:**

SURFACE SATE: GLOSSY



1mm DIAMETER RED BRASS SEALING WIRE TECHNICAL DATA

MATERIAL CLASSIFICATION:
brass ANNEALED

COMPOSITION:

Core wire: \varnothing mm 0.50 –
Spiral wire: \varnothing mm 0.30

STRENGTH PER METRE:

2,63g (1 Kg = 380 m circa)

CHEMICAL BREAKDOWN

Cu%	Zn%	Pb%	Fe%	Al%	Ni%	Sn%	S%
67,000	32,000	0,010	0,0014	0,010	0,049	0,016	0,05

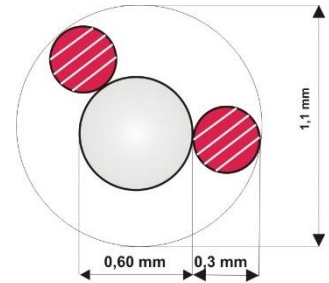
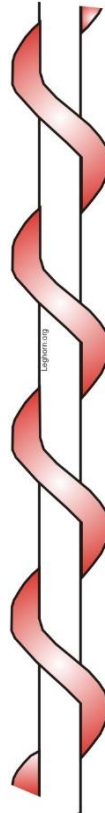
MECHANICAL CARACTERISTICS

TOTAL DIAMETER mm	TOLERANCE \varnothing	BREAKING LOAD N/mm ²
1.00	10%	400/430



STRUCTURAL CARACTERISTICS:

COIL DISTANCE: 1,50 mm
(66 coils per 100 mm)



1,1 MM DIAMETER NYLON COPPER SEALING WIRE TECHNICAL DATA

MATERIAL CLASSIFICATION:
Nylon - Copper

COMPOSITION:

Core nylon : Ø 0.6 mm - 100%
Polyamide
Spiral: red ANNEALED copper :
Ø 0.3 mm . in conformity of
ASTM 49,92 – UNI EN 1977 -
2000

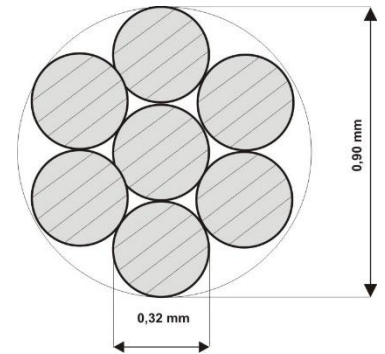
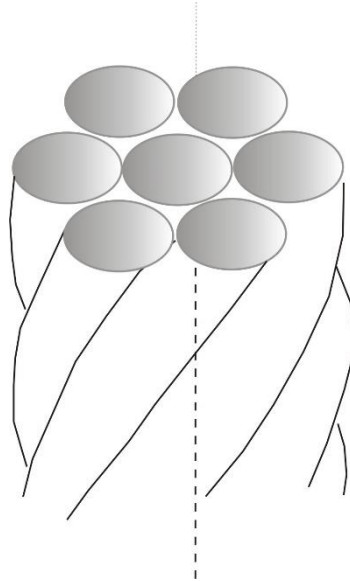
MECHANICAL CARACTERISTICS

TOTAL DIAMETER mm	TOLERANCE Ø	BREAKING LOAD N/mm ²
1.00	10%	159/178

STRENGTH PER METRE:

1,50g (1 Kg = 650 m ca)

PLASTIC COATED STAINLESS STEEL CABLE



DESCRIPTION:

- Seven stainless steel wire diameter: 0,32 mm + transparent plastic covered.
- Total diameter 0,90 mm
- Stainless Steel cable approximate weights and lengths
- 100m reel is equal to 406m
- 250m reel is equal to 675g
- 500m reel is equal to 1440g
- 1000m reel is equal to 2960g

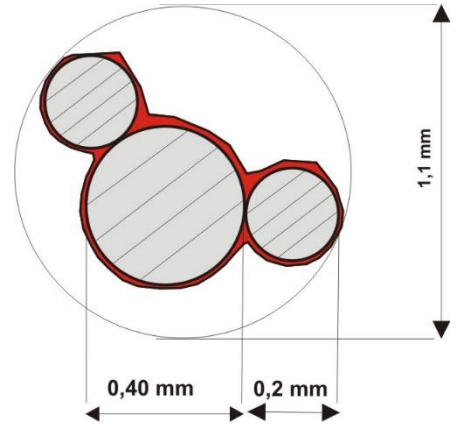
1 MM DIAMETER STAINLESS STEEL SEALING WIRE TECHNICAL DATA

GRADE	N.W. (kg)	TS (Mpa)	EL %
304	483,88	785	75

1 MM DIAMETER STAINLESS STEEL SEALING WIRE CHEMICAL COMPOSITION (%)

C	Si	Mn	P	S	Cr	Ni
0,03	0,43	1,30	0,026	0,008	18,23	8,03

PLASTIC COATED GALVANISED SEALING WIRE

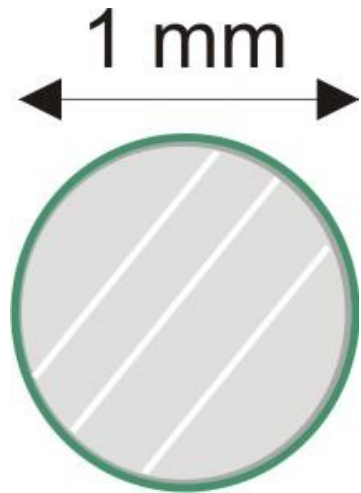


CHEMICAL BREAKDOWN:

C%	Mn%	P%	S%
0,08	0,45	0,035	0,035

**SURFACE
CARACTERISTICS:**
Plastic upholstery: 0,15 mm

PLASTIC COATED FLAT IRON WIRE



DESCRIPTION:

- Plastic coated wire: diameter 1 mm
- Standard colour: green and white
- Minimum quantity 108 reels 200 gr each

Each reel:

- 200 gr = 120 metres

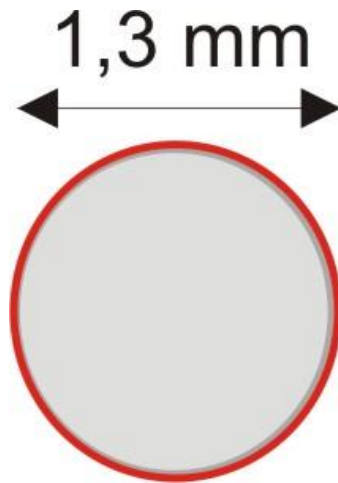
STANDARD COLOURS

Green – White

PACKING:

- 1 Carton : 108 reels
- Carton sizes: 38x38x24 cm
- Carton weight : 2,5 kg



**DESCRIPTION:**

Plastic coated nylon cable
diameter 1,3 mm

STANDARD COLOURS:

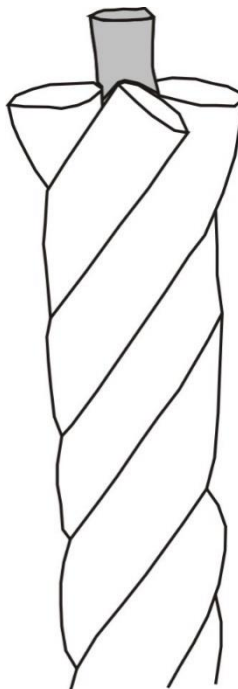
Yellow
Green
White
Blue
Grey
Orange
Red

PACKAGING

25 transparent envelopes per carton – 10 reels
per envelope
carton size: 64 x 35 x 37 cm
carton weight: 18 kg

REELS:

100 m = 125 gr



GALVANISED STEEL

LINEN

DESCRIPTION:

Metal core custom string

SIZE:

Diameter: 2mm

Length of the reel: 135-145 m circa

Weight of the reel: 180/200 gr circa

MATERIAL:

- ° External: linen
- ° Internal: galvanised steel

DESCRIPTION:

LeghornGroup offers a wide range of pre-cut sealing wires suitable for any need and which may be combined with any wire security seal.

Any security seal that is used with one type of our sealing wires cannot be pulled out since it has a spiral shape.

Sealing wires that are in stock for immediate dispatch are delivered in 24 hours.

For all the non-standard pre-cut pieces, we deliver goods in 3-5 days from receipt of order.

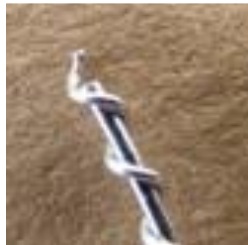
EXAMPLE OF PRECUT GALVANISED SEALING WIRE



GALVANISED SEALING WIRE



STAINLESS STEEL SEALING WIRE



COPPER SEALING WIRE



BRASS SEALING WIRE



NYLON-COPPER SEALING WIRE



PLASTIC COATED 7 WIRES

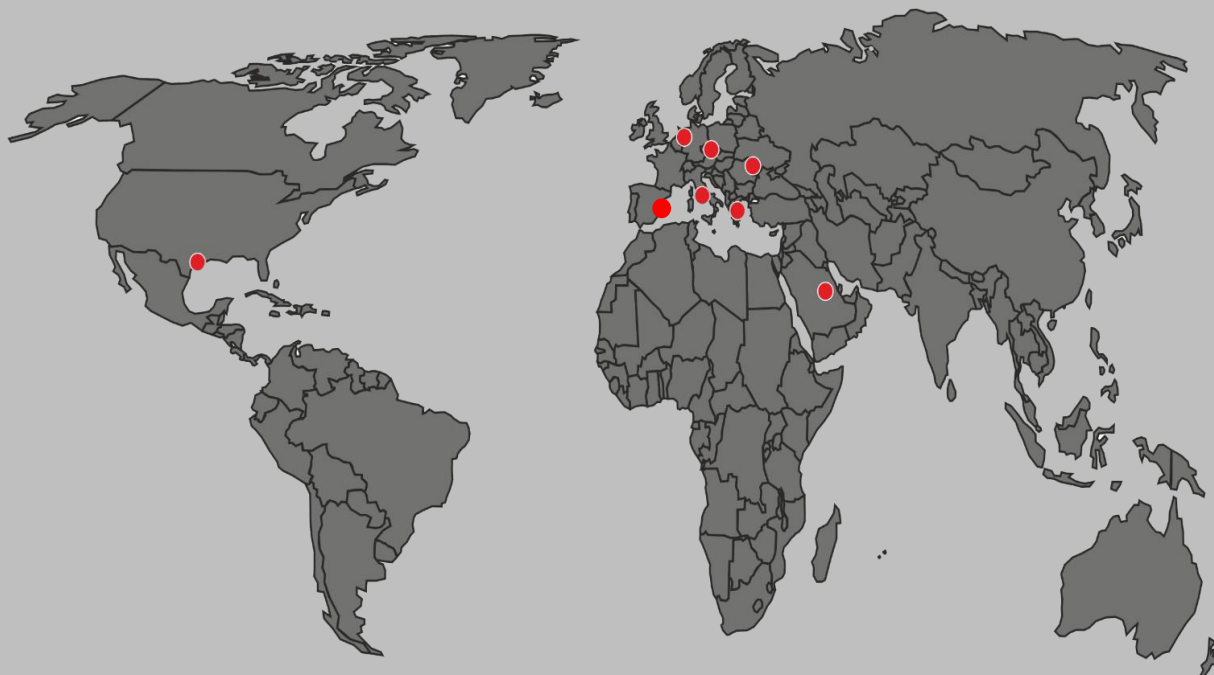


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