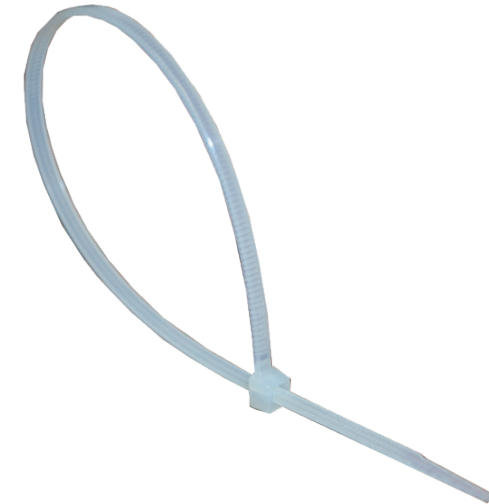


Part Number	Colour	Length (mm)	Width (mm)	Max. Bundle Diameter (mm)	Tensile Strength (kg)
CT140I	White	140	3.5	36	15
CT200I	White	200	3.5	55	15
CT300I	White	280	3.5	80	15



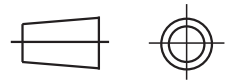
NOTES

1. Mean opening load in daN (1 daN = 1kg)
2. The figures given are mean values taken at 23°C ±10% and R.H. 50%
3. Raw material does not contain halogen
4. Self extinguishing



PART NAME	NYLON CABLE TIES	APPROVED	LIANA	N	MATERIAL	NATURAL NYLON 66 (UL94 V2)
PART NO.	CT140I TO CT300I	CHECK			SHEET	1/6
		DRAW	LIANA			

DATE	DRAW	APPROVED	ECN NO.
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Heat-Resistant Cable Ties In Natural Nylon For High-Temperature Applications

Resist heat up to a constant 130°C. Light colour in pale green shade.
Apply a safety factor of 8 ÷ 10 at maximum operating temperature.

UV-Stabilized Cable Ties In Black Nylon - Non-Self Extinguishing (HB-UL 94)

For external applications. Resistant to temperatures of -40°C to +65°C. Black.
Apply a safety factor of 8 ÷ 10 at maximum operating temperature.

UV-Stabilized Cable Ties In Black Nylon (V2-UL 94)

For external applications. Resistant to temperatures of -20°C to +80°C. Black.
Apply a safety factor of 8 ÷ 10 at maximum operating temperature.

UL94V-0 Halogen-Free, Self Extinguishing, Fire-Proof Cable Ties

Resistant to temperatures of -20°C to +80°C - white.
Apply a safety factor of 8 ÷ 10 at maximum operating temperature.

Coloured Nylon Cable Ties

Colours on request: indicate the RAL code. Colour availability: natural, black RAL9011, blue RAL5002, brown RAL8011, yellow RAL1021, grey RAL7035, grey RAL7001, green RAL6024, red RAL3000, purple RAL4005, ochre RAL8004, orange RAL2004, pink RAL3017, green RAL6004.

Polypropylene Cable Ties For Aggressive Chemical Environments

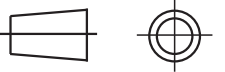
Resistant to chemical agents, strong acids in particular. Natural colour – green tones.
Mechanical resistance: 50% lower than normal cable ties.

PART NAME	NYLON CABLE TIES	APPROVED	LIANA	N	MATERIAL	WEATHER RESISTANT NYLON 66 (UL 94 V2)
		CHECK				
PART NO.		DRAW	LIANA		SHEET	2/6

DATE	DRAW	APPROVED	ECN NO.
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Spec

Technical Characteristics								
Properties	Sapiselco Method	U.M.	2.5	3.5	4.5	7.5	9	12.5
Opening Load	MAF/06	dan	[9 , 17]	[18 , 25]	[22 , 35]	[54 , 90]	[80 , 100]	[115 , 135]
Fragility	MAF/02-b	°C	[-12 , -6]	[-12 , -6]	[-12 , -6]	[-12 , -6]	[-12 , -6]	[-12 , -6]
Minimum Application Temperature	MAF/03	°C	-25	-25	-15	-15	-15	-15
Resistance Time To An Applied Flame	MAF/08	S	<5	5	10	10	20	30
Resistance To An Applied Flame	MAF/05 As Per UL 94 Standard	/	V2	V2	V2	V2	V2	V2

Nominal Dimensions								
Measurement	UM	Dimensional Tolerances	Data					
Size	mm	± 5%	2.5	3.5	4.5	7.5	9	12.5
C - Thickness (Min - Max)		± 5%	1.08 ; 1.10	1.10 ; 1.40	1.30 ; 1.50	1.80 ; 2.0	2.0	2.0
A - Length		± 2%	100 200	140 200 280	160 180 200 280 360 430	200 320 360 540	780 920 1220 1330	500

NOTES

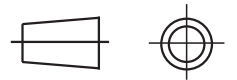
1. All the measurements in these tables are expressed in millimeters
2. The work loads are expressed in daN (1 daN = 1kg)
3. The figures given are mean values taken at 23°C ±10% and R.H. 50%

PART NAME	NYLON CABLE TIES	APPROVED	LIANA	N	MATERIAL	WEATHER RESISTANT NYLON 66 (UL 94 V2)
PART NO.		CHECK			SHEET	3/6
		DRAW	LIANA			











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Spec

Certification Institute	Certificate Number
 IMQ	Certificates of approval for cable ties from n° CA0100073 to n° CA0100632
 Germanischer Lloyd	GL Type Approval Certificate n° 99173-96 HH
 Bureau Veritas	Certificate of Type Approval n° 09113/A1 BV file n° ACE 14/725/02
 RINA	Type Approval Certificate ELE 349307CS
 Lloyd's Register	LR Type Approval Certificate n° 00/00017
 Det Norske Ceritas	Type Approved Certificate n° E-6650
 Military Standard (USA) American Defense Dept.	Qualified Products List (QPL) 23190: 02635201.AD/9-16-14 Commercial and Government Entity (CAGE) Number: A9759
 Underwriters Laboratories (USA)	File E 160935
 Sapiselco s.r.l	CE Marking: Self-Certification
 ROHS - European Directive	Self-Declaration of Conformity
R.E.A.C.H	Self-Declaration of Conformity

Sapiselco Cable Ties have product certification and testing to the most rigid standards throughout the world including;

IMQ
Germanischer Lloyd
Bureau Veritas
RINA
Lloyd's Register
DNV (Det Norske Veritas)
Military Standard (USA American Defense Dept)
UL (Underwriters Laboratories USA)
CE
ROHS

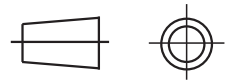


PART NAME	NYLON CABLE TIES	APPROVED	LIANA	N	MATERIAL	WEATHER RESISTANT NYLON 66 (UL 94 V2)
PART NO.		CHECK			SHEET	4/6
		DRAW	LIANA			

DATE	DRAW	APPROVED	ECN NO.
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Spec

Features

		Cable ties are made from Nylon 66, halogen free and are UL94V-2 Self-extinguishing
		Maximum cable diameter - the tip of the ties are straight. This design has been chosen to increase the admissible cable diameter to the maximum value
		Maximum identification - all cable ties are stamped on the underside with the symbol 2S
		Minimum impact on secured materials - the ties have rounded off edges to avoid damage to cables, etc
		Maximum efficiency - all racks reach the underside of the head to increase the minimum securing diameter

NOTES

Pacific Components major goal is to ensure total product reliability and full client satisfaction. We ensure that our cable ties are fully functional by having them go through the following tests;

- Minimum Operating Temperature Test.
- Dynamometer Test.
- Resistance Test.
- Self-Extinguishing Test.

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Minimum Operating Temperature Test

To test product functionality at minimum operating temperature.



MAF / 03

Dynamometer Test

To measure the load when the product is reopened.



MAF / 06

Resistance Test

Resistance time to an applied flame.



MAF / 08

Self-Extinguishing Test

To test flame-retardant properties and ensure maximum safety levels.



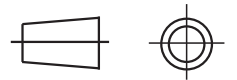
MAF / 05 (UL 94)



PART NAME	NYLON CABLE TIES	APPROVED	LIANA	N	MATERIAL	WEATHER RESISTANT NYLON 66 (UL 94 V2)
		CHECK				
PART NO.		DRAW	LIANA		SHEET	5/6



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Data Sheet Comparison Of Materials

All the materials are halogen-free

Raw Material	Standard Nylon	U.V. Stabilised Nylon	U.V. Resistant V2 Nylon	U.V. Resistant Nylon	Class V0 Nylon	Collar Nylon Wall (PA12)	Wall Plug Nylon	Toughened Nylon	Nylon And Fibre Glass	Polypropylene
Product	Cable Ties And Accessories					Collars	Expansion Fixing	Winged Plugs	Screws	Cable Ties
Colour Availability	NATURAL AND BLACK	BLACK	BLACK	Natural	White	Black	Grey	Black	Natural And Black	Natural
Operating Temperature	-40°C - +85°C	-40°C - +65°C	-40°C - +85°C	-40°C - +125°C	-40°C - +65°C	-40°C - +65°C	-40°C - +80°C	-40°C - +65°C	-40°C - +240°C	-15°C - +95°C
Fire Resistance To UL94 Standards	V2	HB	V2	V2	V0	HB	HB	HB		HB
Water Absorption At A Balance Of 23°C and 50% R.H.	2.5%	2.2%	2.5%	2.5%	1.5%	0.7%	1.8%	2.2%		<0.02%
Flexural Modulus	2750 MPa	2700 MPa	3000 MPa	2950 MPa	3400 MPa	690 MPa	2200 MPa	2000 MPa	15800 MPa	1500 MPa
Chemical Resistance	Resistant to solvents and reagents, oil, petrol and hydrocarbons. When used at low temperatures, in low concentrations and for short periods of time Not resistant to mineral acids, oxidising agents.									Resists Acids, Alcohol And Salts. Non Resistant To Hydrocarbons And Solvents
Elongation At Break	70%	32%	40%	65%	45%	250%	100%	60%	2-4%	2-4%
Shock Indent Impact	16 KJ/m2	26 KJ/m2	15 KJ/m2	14.4 KJ/m2	15 KJ/m2	45 KJ/m2	100 KJ/m2	100 KJ/m2	32 KJ/m2	32 KJ/m2
Applications	Internal Environment =20°C -50% R.H.	External Environment With Very Low Temperatures	Outside Environment With Low Temperatures	Internal Environment < 130°C	Particularly Safe For Use In Halogen Free Environments	External Environment With Very Low Temperatures	Interior And Exterior Walls	Particularly Safe For Use In Internal Environments	Internal And External Environments	Internal And External Environments

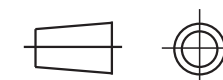


PART NAME	NYLON CABLE TIES	APPROVED	LIANA	N	MATERIAL	WEATHER RESISTANT NYLON 66 (UL 94 V2)
		CHECK				
PART NO.		DRAW	LIANA		SHEET	6/6

DATE	DRAW	APPROVED	ECN NO.
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