

# ABS1339 Light Cable Clamps

Lightweight versions of ABS1339 legacy



# **Commercial Aerospace**

Defence

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BROCHURE 03/15 - V2.0

# PRESENTATION



ABS1339 Light series is the Lightweight version of the ABS1339 standard Cable Clamps series.						
They are decirped to keep the colds have seen acquirely maintained on structure. They are fixed on	WEIGHT SAVING UP TO 18% !					
They are designed to keep the cable harnesses securely maintained on structure. They are fixed on structure by a screw and a washer (not supplied) and closed with a standard cable-tie (not supplied) of 5,5 mm width maximum.						
Robust and flexible, ABS1339 Light clamps absorb shocks, vibrations, and offer an unequalled protection						
of bundles against pinching, crushing or mechanical wear, thanks to a silicone cushion.						
They are suited for applications in standard environment (general use) and temperatures up to 150°C.						
They are available in 8 sizes, for bundles diameters from 5 to 48 mm.						
APPLICATIONS IN HARSH ENVIRONMENTS Commercial Aerospace & Defence	2 3 4					
STANDARDS AND QUALIFICATIONS						
ABS1339 (products) ABS1916 and ABS1337 (tests)						
REACH AND ROHS     CAPTION						
In accordance with the REACH spec.						
Silicone Cushion	100					
CLAMP RANGE  CLAM						
8 sizes available 4 - Fixing by cable-Tie 5,5 mm width max.						
Size 01 02 03 04 05 06 07	08					
Bundle diameter (mm)         5 to 8         8 to 11         10,5 to 14         13,5 to 19,5         19 to 26         25,5 to 33         32,5 to 40	39,5 to 48					

# MAIN TECHNICAL FEATURES

#### MATERIAL

Clamp Band	: Thermoplastic
Cushion	: Silicone elastomer

## ENVIRONMENTAL

Operating Temperature : -55° to +150°C permanent

**ELECTRICAL** : as per ABS1916 standard Insulation resistance :> 10<sup>6</sup> MΩ

## FLAMMABILITY / SMOKE / TOXICITY

ABD 0031 FAR 25.853

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## FLUIDS RESISTANCE : as per ABS1916 standard

Spray tests : Fuels, Hydraulic fluids, Lubrication Oils, Solvent and Cleaning fluids, De-icing fluids, insecticides

#### MECHANICAL : as per ABS1916 standard

Shocks: 6g during 20 msVibrations: 3 H per axis, resonance frequency > 30 HzWindmilling test : 6g, frequency 2,9 to 30 HzLoad test : depending on the clamp size, in 4 directionsNose wheel imbalance : 3,5 to 10g, frequency 5 to 27 Hz

#### MOUNTING : as per ABS1916 standard

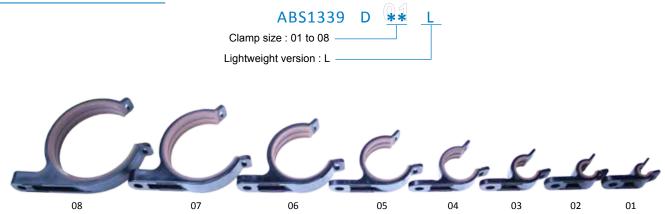
Closure and Fixing: Screw / washer Ø 5,2 mmScrew / washer (recommended) : NSA1801-03 / NAS1149Tightening torque: 3,2 Nm (+/- 0,5 Nm)Clamp closure: Cable-tie (5,5 mm width)Cable-tie (recommended) : NSA 935401-05

Size	01	02	03	04	05	06	07	08
Weight of ABS1339 Light clamps (g)	1,75	2,15	2,65	3,3	4,35	6,8	9,5	12,5
Weight of ABS1339 standard clamps (g)	2,1	2,5	3,2	4,0	5,3	8,3	11,5	14,6
Weight saved versions Light / standard	-17%	-14%	-17%	-17%	-18%	-18%	-17%	-14%

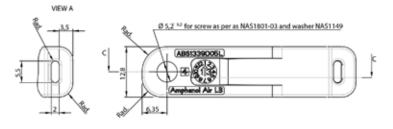
# PART NUMBERS & DIMENSIONS

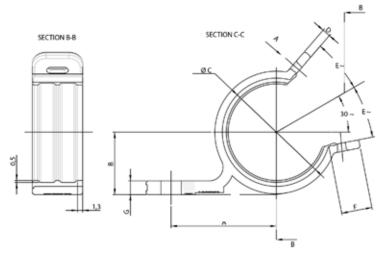






## **TECHNICAL DRAWINGS**





## DIMENSIONS

Part Number ABS	Clamp size	Admissible Bundle diameters (mm)	A (mm)	B (mm)	ØC (mm)	D (mm)	E (°)	F (mm)	G (mm)
ABS1339 D 01 L	01	5 to 8	17	5,5	8	1,7	15	7,4	
ABS1339 D 02 L	02	8 to 11	18,5	7,15	11	1,8	16	7,5	
ABS1339 D 03 L	03	10,5 to 14	20,4	9,2	14,8	1,9	17	7,6	3,5
ABS1339 D 04 L	04	13,5 to 19,5	23,05	12	20,1	2	18	7,7	
ABS1339 D 05 L	05	19 to 26	26,75	15,85	27,5	2,1	19	7,8	
ABS1339 D 06 L	06	25,5 to 33	31	20,25	36	2,5	20	7,9	5,8
ABS1339 D 07 L	07	32,5 to 40	36	25,4	46	20	21	8	0.2
ABS1339 D 08 L	08	39,5 to 48	40	31	55	2,8	21	ð	8,3

# **IMPLEMENTATION**



Fixing and closure of ABS1339 Light clamps are fulfilled in 2 steps.

Pre-mounting on structure is possible. Once clamps are mounted on structure and cable harnesses put in, then ABS1339 clamps can be closed.

## CLAMPS FIXING

ABS1339 Light clamps are fixed on structure, using a screw and a washer (not supplied) matching the diameter of the fixing hole (5,2 mm). The ABS1339 standard recommend to use the following hardware :

- Screw : NSA1801-03

- Washer : NAS1149

Tightening torque : 3,2 Nm (nominal)

T	Screw
0	Washer

## BUNDLE INSERTION & CLAMP CLOSING

Elastic properties of materials provide an easy insertion of Cable harnesses in the ABS1339 Light clamps.

They are closed with a cable-tie (5,5 mm width maximumu). ABS1339 standard recommend to use a cable-tie as per NSA935401-05 standard. Use a cable-tie tool, as per MS 90387-1 (position 6 to 8), to provide the required tightening torque (about 120 N).

