



CC5516 Cable Clamps

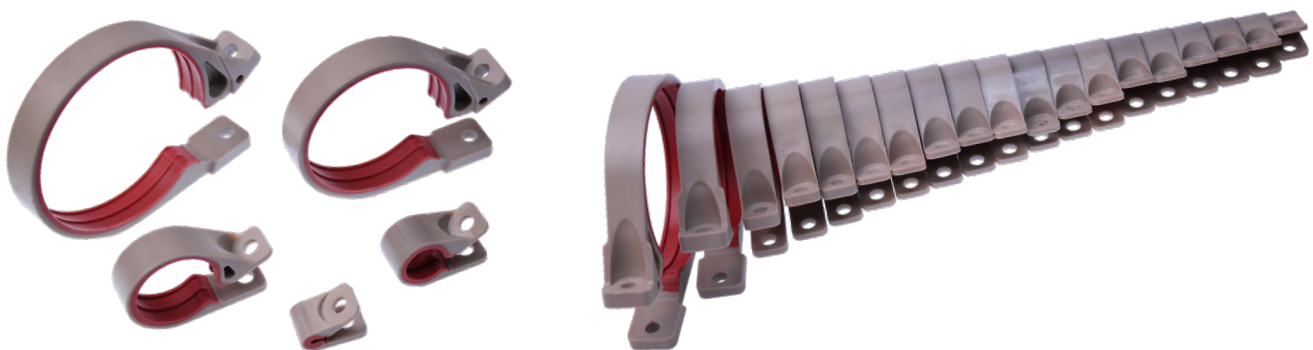
Lightweight composite & silicone clamps,
derived from NSA5516 metallic clamps



Commercial Aerospace

Defence

Space



BROCHURE 02/21 - V5.0

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PRESENTATION

CC5516 series is a new line of lightweight Cable Clamps, in composite and silicone, derived from the legacy NSA5516 metallic clamps.

WEIGHT SAVING
UP TO 60% !

They are designed to keep the cable harnesses or hydraulic pipes securely maintained on structure. They are closed and fixed on structure by screw (not supplied), in one operation.

TIME SAVING

CC5516 clamps absorb shocks and vibrations, and offer an unequalled protection of bundles and pipes against pinching, crushing or mechanical wear.

RELIABILITY

They are suited for applications in harsh environment and temperatures up to 225°C.

HIGH TEMPERATURE

They are available in 37 sizes, for bundles or pipes diameters from 3 to 60 mm.

APPLICATIONS IN HARSH ENVIRONMENTS

Commercial Aerospace, Defence and Space

STANDARDS AND QUALIFICATIONS

RTCA DO 160G (products)

ABS1916 (tests)

Micro-VCM according to ECSS-Q-ST-70-02C (outgassing tests)

REACH AND ROHS

In accordance with the REACH spec.

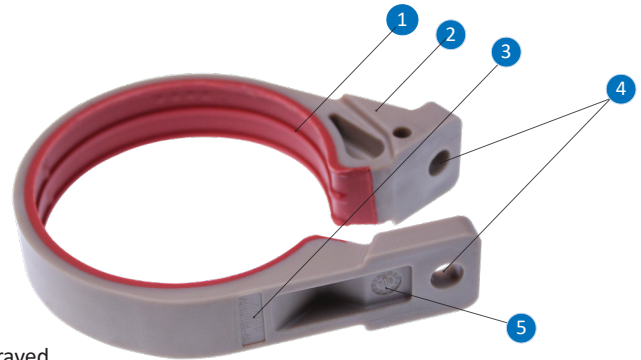
In accordance with the RoHS spec.

CLAMP RANGE

37 sizes available

CAPTION

- 1 - Silicone Cushion
- 2 - Clamp Band
- 3 - CC5516 P/N engraved
- 4 - Fixing Ø 5,2 mm
- 5 - Date Code



Size	02	03	04	06	07	08	10	12	13	14	15	17	18	19	21	22	23	25	27
Bundle / Pipe diameter	3	4	5	6,3	7	8	9,5	11	12	12,7	14	15	15,9	17	18	19	20	22	24

Size	29	31	33	35	37	39	41	42	44	46	48	49	51	53	55	57	59	61
Bundle / Pipe diameter	25,4	28	30	31,8	34	36	38,1	40	42	44	46	48	50,8	52	54	56	58	60

MAIN TECHNICAL FEATURES

MATERIAL

Clamp Band : Thermoplastic

Cushion : Silicone elastomer

ENVIRONMENTAL

Operating Temperature : -55° to +225°C permanent

Solar radiation : suitable for outdoor use (56 days of exposure according to procedure II level A1 of the MIL STD 810 G method 505.5 test standard)

ELECTRICAL : as per RTCA DO 160G standard

Insulation resistance : > 10⁶ MΩ

FLAMMABILITY / SMOKE / TOXICITY

ABD 0031
FAR 25.853

FLUIDS RESISTANCE : as per RTCA DO 160G standard

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

WEIGHTS

Size	02	03	04	06	07	08	10	12	13	14	15	17	18	19	21	22	23	25	27
Weight (g)	1,5	1,6	1,8	2,05	2,1	2,25	2,5	2,7	2,85	3	3,4	3,55	3,9	4,1	4,2	4,35	4,7	5	5,35

Size	29	31	33	35	37	39	41	42	44	46	48	49	51	53	55	57	59	61
Weight (g)	5,5	7,15	7,55	8	8,9	9,35	9,8	11,15	11,6	12,4	12,8	13,35	14,05	14,2	14,7	15,2	15,7	16,15

MECHANICAL : as per RTCA DO 160G standard

Shocks : 6g during 20 ms

Vibrations : 3 H per axis, resonance frequency > 30 Hz

Windmilling test : 6g, frequency 2,9 to 30 Hz

Load test : depending on the clamp size, in 4 directions

Nose wheel imbalance : 3,5 to 10g, frequency 5 to 27 Hz

MOUNTING : as per RTCA DO 160G standard

Closure and Fixing : Screw / washer Ø 5,2 mm

Screw (recommended) : .1900-32UNJF or NSA5191-3

Washer (recommended) : NAS1149D0332J

Tightening torque : 4,2 Nm

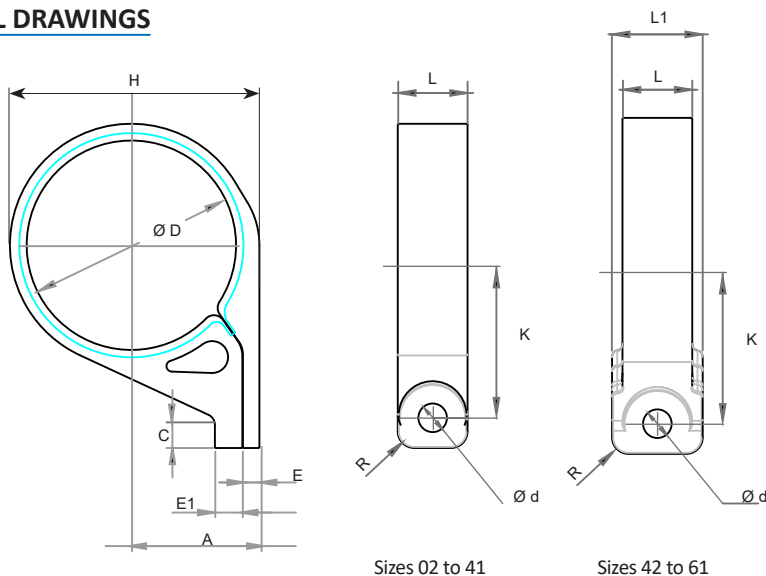
Clamp opening : 90° maximum recommended

OUTGASSING : test according to ECSS-Q-ST-70-02C

	Thermoplastic	Silicone elastomer	Requirement
TML (Total Mass Loss)	0,31 %	0,46 %	/
RML (Recovered Mass Loss)	0,13 %	0,42 %	< 1,00 %
CVCM (Collected Volatile Condensable Material)	0,00 %	0,09 %	< 0,10 %
WVR (Water Vapour Regained)	0,18 %	0,04 %	/

PART NUMBERS & DIMENSIONS

TECHNICAL DRAWINGS



PART NUMBERS AND DIMENSIONS

Part Number CC5516	Clamp size	Bundle / Pipe diameter ØD (mm)	A		K		C	E	E1	R	L	L1	Ød	H (for information)	
			mm	tolerance	mm	tolerance	mm	mm	mm	± 0,2	max.	max.	mm	mm	tolerance
CC5516A02	02	3	4,5	± 0,3	11,6	± 0,5	5,5	2	2	3	13,1	--	5,2	8,15	± 0,5
CC5516A03	03	4	5,3		12,1									9,45	
CC5516A04	04	5	5,8		12,6									10,65	
CC5516A06	06	6,3	6,6		13,4									12,125	
CC5516A07	07	7	6,8		13,6									12,65	
CC5516A08	08	8	7,3	± 0,5	14,1									13,65	
CC5516A10	10	9,5	8,1		14,9									15,2	
CC5516A12	12	11	8,8		15,6									16,65	
CC5516A13	13	12	9,3		16,1									17,65	
CC5516A14	14	12,7	9,8		16,6									18,5	
CC5516A15	15	14	10,3		18,9									19,65	
CC5516A17	17	15	10,8		19,4									20,65	
CC5516A18	18	15,9	11,3		19,9									21,6	
CC5516A19	19	17	11,8		20,4									22,65	
CC5516A21	21	18	12,3	± 0,5	20,9									23,83	
CC5516A22	22	19	12,8		21,3									24,65	
CC5516A23	23	20	13,3		21,9									25,85	
CC5516A25	25	22	14,3		22,9									28	
CC5516A27	27	24	15,3		23,9									29,85	
CC5516A29	29	25,4	15,8		24,4									31,05	
CC5516A31	31	28	18,3		26,4									35,15	
CC5516A33	33	30	19,3		27,4									37,15	
CC5516A35	35	31,8	20,3		28,4									39,025	
CC5516A37	37	34	21,3		29,4									41,35	
CC5516A39	39	36	22,3	± 0,8	30,4									43,5	
CC5516A41	41	38,1	23,3		31,4									45,4	
CC5516A42	42	40	24,3		32,4									47,55	
CC5516A44	44	42	25,3		33,4									49,55	
CC5516A46	46	44	26,3		34,4									51,55	
CC5516A48	48	46	27,3		35,4									53,55	
CC5516A49	49	48	28,3		36,4									55,55	
CC5516A51	51	50,8	29,8		37,9									58,45	
CC5516A53	53	52	30,3		38,4									59,55	
CC5516A55	55	54	31,3		39,4									61,55	
CC5516A57	57	56	32,3	± 0,8	40,4									63,55	
CC5516A59	59	58	33,3		41,4									65,55	
CC5516A61	61	60	34,3		42,4									67,55	

IMPLEMENTATION

RECOMMENDATIONS

Regarding the insertion of cable bundles or hydraulic pipes inside the CC5516 Cable Clamps, Amphenol Air LB France recommend a maximum opening angle of 90°.



CC5516 clamps are closed and fixed on structure, in one operation, using a screw and a washer (not supplied) matching the diameter of the fixing hole (5,2 mm). Amphenol Air LB France recommend to use the following hardware :

- Screw : .1900-32UNJF or NSA5191-3
- Washer : NAS1149D0332J

Tightening torque recommended : 4,2 Nm

