

About us



Sicame Group is one of the key players in the electrical equipment business worldwide. It has been able to adapt and develop to support the continuous evolution of electricity infrastructure in France and around the world, and become the largest independent entity in its sector.

A true player in the energy transition, it offers its customers new products and services to improve energy efficiency, deal with environmental risks and support the development of electric vehicle and solar power plant markets.

+65

years of worldwide success

458 M€

2021 turnover

3,600 employees



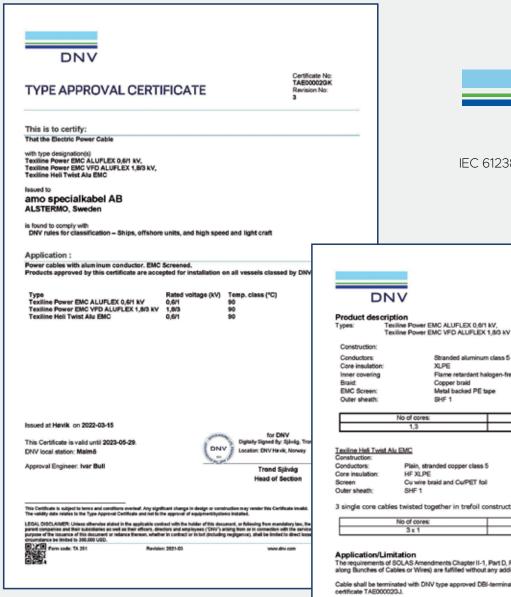
Our fields of acticity

Sicame Group is specialised in **products** and services related to the transmission and distribution of **electrical energy** as well as safety equipment and industrial applications.



Approved certificates

MECATRACTION has obtained the certificate of authorization for a connecting system using DBI lugs established on 2018-04-24.



DNV is a global quality assurance and risk management company. DNV provides classification, technical assurance, software and independent expert advisory services to the maritime, oil & gas, power and renewables industries. DNV also provide certification.



IEC 61238-1 class A tested

Stranded aluminum class 5 according to ISO 6722-2

Metal backed PE tape

No of cores:	Cross sectional area [mm ²]
1,3	50, 70, 95, 120, 150

Plain, stranded copper class 5

3 single core cables twisted together in trefoil construction without common outer sheath.

No of cores:	Cross sectional area [mm ²]
3 x 1	50, 70, 95, 120, 150

The requirements of SOLAS Amendments Chapter II-1, Part D, Reg. 45, 5.2 (provision to be taken to limit Fire Propagation along Bunches of Cables or Wires) are fulfilled without any additional measures.

ed with DNV type approved DBI-terminations designed for aluminium conductors, ref. DNV TA

Press to be performed with approved press tool and correct die size.

Heat shrink tubing with melt glue shall be installed over pressed termination in order to prevent ingress of moisture

DNV Rules states: If bunched cables are expected to be under full continuous load simultaneously with risk of being overheated, then IEC 60092-352 Annex A should be used. Ampacities from IEC 60092-352 table A4 shall be detailed with 0.76 for aluminum conductors.

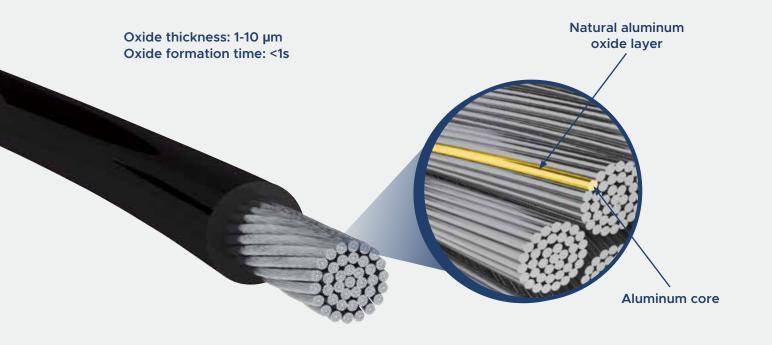
Type Approval documentation

ar sub-uniferration Textine Power EMC ALUFLEX 0,6/1 kV, Textine Power EMC VFD ALUFLEX 1,8/3 kV TEXILine Heli Twist EMC dated 07.01.2022

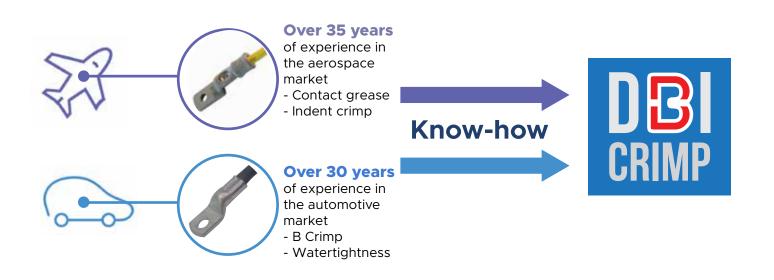
ests carried out					
		Release	General description	Limitation	
	DNV-CP-0399	2021-08	Class Programme Electric cables	Same requirements as for copper cables except for Aluminum conductor	
	DNV-CP-0409	2021-09	Class Programme for terminal lugs for LV power		

The specificity of flexible cables in aluminum

The crimping of aluminum cables is made difficult by the very rapid formation of an insulating oxide layer around each strand of the cable that does not allow good conductivity.



Crimping know-how



A patented solution

The DBI solution combines a special "DBI terminal" associated to an innovative "DBI crimp":

- "DBI Terminal": a copper tubular lug equipped with an interface grid and contact grease.
- "DBI crimp": includes a deep indent shape and two B shapes (one on each side), acting in single crimping step.



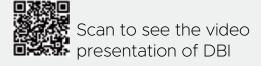
- "DBI crimp" creates elongation of the conductor inducing a high deformation of the strands.
- "DBI crimp" breaks alumina layer and creates a reliable electrical contact with durability ensured by the grease.

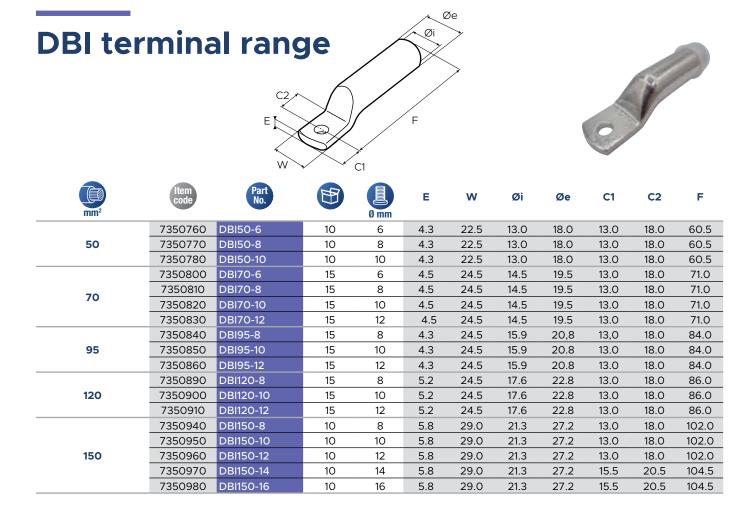




Conventional crimping process

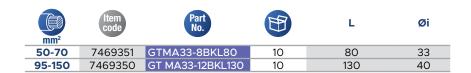






Heat shrink tubing

Suitable for DBI 95, 120 and 150 terminals.





Crimping dies set

Compatible with SH450J hydraulic compression head.

Item	Part No.		TERMINAL TYPE
7510635	H45DBI50-370	1	DBI50
7510636	H45DBI70-460	1	DBI70
7510629	H45DBI95-520	1	DBI95
7510630	H45DBI120-585	1	DBI120
7510631	H45DBI150-715	1	DBI150





Crimping tooling

Hydraulic compression head

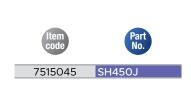
Single action.

• Output force: 540 kN under 850 bar

• Size: 260 x 135 x 115 mm

Weight: 9.8 kg







SH450 connectable hydraulic compression head kit

Kit composition:

- Hydraulic compression head PN: SH450J
- Metallic carry case PN: CMSH450



Electro-hydraulic pump

Single action. Wire remote control. Operating energy: Li-lon battery or 110-230 VAC adapter EU plug (included).

· Nominal output pressure: 850 bar

• Flow rate: 0.7-1 L/minute

Oil tank: 0.65 L

• Size: 285 x 255 x 185 mm

Weight: 6.5 kg





Hydraulic hose with push-pull couplers CEJN115





SVEPT20-520 portable and compact electro-hydraulic pump kit

Kit composition:

• Electro-hydraulic pump PN: SVE

• Metallic carry case PN: CM

Hydraulic hose

PN: SVEPT20-520J

Stud hole diameter

PN: CMSPT20

PN: SF30J





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SVEPT20-520JCM



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