

# Shear Bolt cable lugs up to 36kV

| For applications up to 36kV

| Suitable for Al and Cu conductors

Certified according to

| **EN61238-1 class A**



Shear Bolt lugs are used for terminating aluminium or copper conductors in applications up to 36kV.

### Advantages

- Shear Bolt technology allows installation of the lugs using a regular wrench or a spanner, no crimping or other special tools are needed.
- Morek Shear Bolt cable lugs are range taking products that can be used with conductors of varying cross-sections, accommodating a wide range of conductors with only a few items.
- Shear Bolt lugs' specially designed aluminium bodies are made of high-strength aluminium alloy and are tin-plated, allowing their use with both aluminium and copper conductors.
- Bolts made of aluminium or tin-plated brass are designed to break at the exact torque required for best electrical connection.
- Shear Bolts and barrels of lugs are treated with special antioxidation grease to ensure the lubrication and eliminate all kinds of oxidation in places of electrical contact.
- Conductor centering rings and instruction manual are supplied together with each lug to ensure proper installation.
- All Morek Shear Bolt lugs are watertight and suitable for indoor and outdoor installation, to be used with solid, stranded, sector shaped and round conductors with plastic or oil-impregnated paper isolation.
- Shear Bolt lugs are compatible with most termination kits by many manufacturers. Compact design requires less installation space, especially for larger sizes.

### Certification and regulations

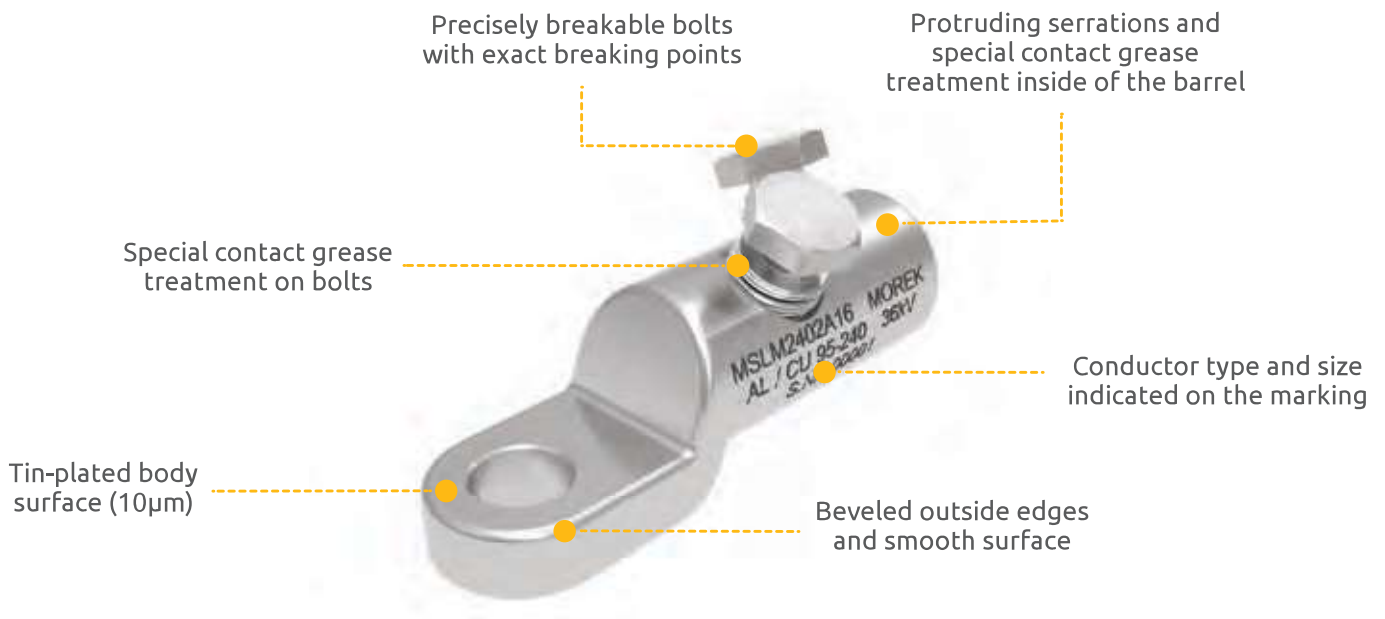
Tested according to IEC61238-1 class A

### Technical specifications

- Nominal voltage up to 36kV
- Suitable for copper and aluminium conductors
- Bolts and barrels are treated with antioxidation grease
- Conductor centering rings included

### Materials

**Lug body:** tin-plated high-strength aluminium alloy  
**Cable lug bolts:** aluminium alloy



EN 61238-1:2003 divides cable lugs and connectors into two classes:

**Class A** (heat cycle and **short-circuit tested**) - These are connectors intended for electrical distribution or industrial networks in which they can be subjected to short-circuits of relatively high intensity and duration. Therefore, Class A connectors are suitable for most applications.




**Class B** (heat cycle tests only, **not short-circuit tested**) - These are connectors for networks in which overloads or short-circuits are rapidly cleared by the installed protective devices, e.g. **fast-acting fuses**.





Palm opening size	MSLM95	MSLM150	MSLM240	MSLM300
M12	MSLM0951A12	MSLM1501A12	MSLM2402A12	MSLM3002A12
M16	-	-	MSLM2402A16	MSLM3002A16
M20	-	-	-	-

**Technical data**

Conductor cross-section Al (mm<sup>2</sup>)

RE  Round, solid	16 - 95	50 - 150	95 - 240	120 - 300
RM  Round, stranded	16 - 95	50 - 150	95 - 240	120 - 300
SM  Sector shaped, stranded	25 - 70	50 - 120	95 - 185	120 - 240

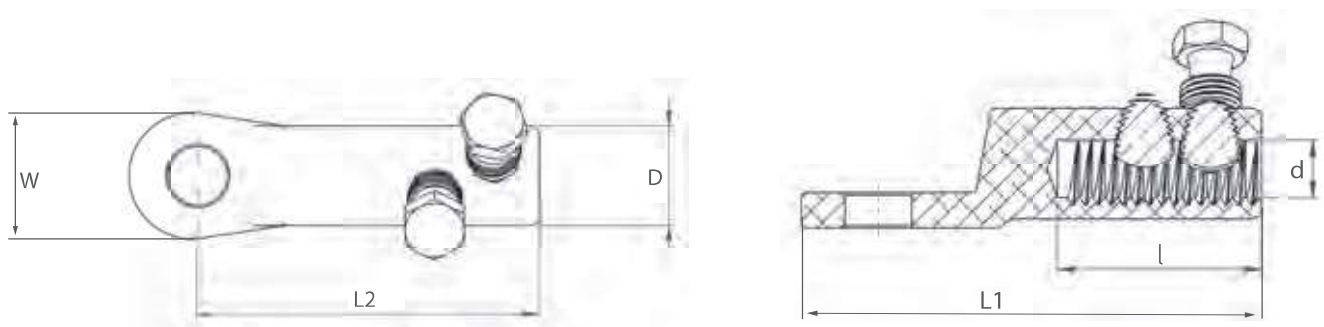
Conductor cross-section Cu (mm<sup>2</sup>)

RM  Round, stranded	16 - 70	50 - 120	95 - 240	120 - 300
SM  Sector shaped, stranded	25 - 70	50 - 120	95 - 185	120 - 240

No. of bolts Ø mm	1 / M12	1 / M14	2 / M18	2 / M22
L1 / L2 / l	76 / 60 / 32	95 / 78 / 42	112 / 95 / 57	125 / 105 / 67
W / D / d	32 / 24 / 9,5	29 / 29 / 16	33 / 33 / 20	38 / 38 / 24,5
Weight (g)	60	122	182	246
Package (pcs)	25	25	15	14

Suitable for Al/Cu applications

**Dimensions**





Palm opening size	MSLM400	MSLM630	MSLM1000
M12	MSLM4003A12	MSLM6303A12	-
M16	MSLM4003A16	MSLM6303A16	MSLM10004A16
M20	-	-	MSLM10004A20
2 x M12	-	-	-

**Technical data**

Conductor cross-section Al (mm<sup>2</sup>)

RE  Round, solid	185 - 400	400 - 630	630 - 1000
RM  Round, stranded	185 - 400	400 - 630	630 - 1000
SM  Sector shaped, stranded	185 - 300	400 - 500	630 - 800

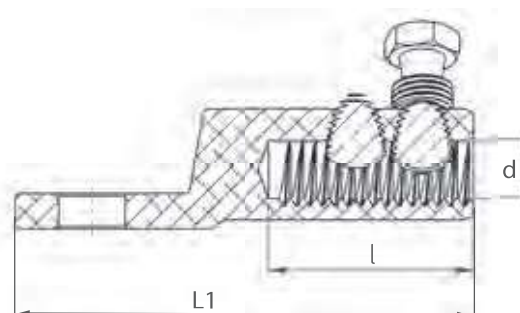
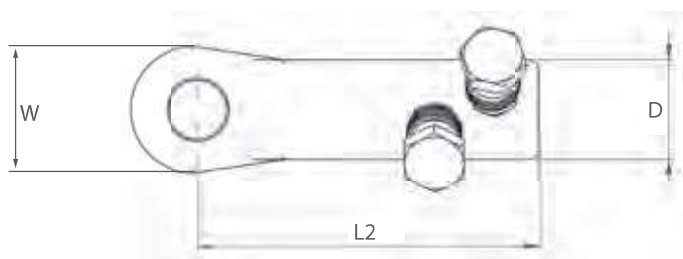
Conductor cross-section Cu (mm<sup>2</sup>)

RM  Round, stranded	185 - 400	400 - 630	630 - 1000
SM  Sector shaped, stranded	185 - 300	400 - 500	630 - 800

No. of bolts Ø mm	3 / M22	3 / M22	4 / M22 long
L1 / L2 / l	140 / 120 / 79	163 / 136 / 94	194 / 161 / 105
W / D / d	42 / 42 / 26	52 / 52 / 34	65 / 65 / 41
Weight (g)	367	605	1095
Package (pcs)	10	6	3

Suitable for Al/Cu applications

**Dimensions**





**MSLM400**



**MSLM630**






**MSLM1000**

**Palm opening size**

M12 x 20 x 2	MSLM4003A32	MSLM6303A32	MSLM10004A32
--------------	-------------	-------------	--------------

**Technical data**

Conductor cross-section Al (mm<sup>2</sup>)

RE  Round, solid	185 - 400	400 - 630	630 - 1000
RM  Round, stranded	185 - 400	400 - 630	630 - 1000
SM  Sector shaped, stranded	185 - 300	400 - 500	630 - 800

Conductor cross-section Cu (mm<sup>2</sup>)

RM  Round, stranded	185 - 400	400 - 630	630 - 1000
SM  Sector shaped, stranded	185 - 300	400 - 500	630 - 800

No. of bolts Ø mm	3 / M22	3 / M22	4 / M22 long
L1 / l (mm)	180 / 82	205 / 94,5	238 / 106
L2 / L3 / L4 / L5	159 / 153 / 121 / 115	180 / 174 / 142 / 136	207,5 / 200,5 / 165,5 / 158,5
D / d (mm)	42 / 26	52 / 34	65 / 41
Weight (g)	395	655	1200
Package (pcs)	10	6	3

Suitable for Al/Cu applications

**Dimensions**

