

Shear Bolt cable lugs up to 12kV

| For applications up to 12kV

| 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 12kV.

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 are treated with special antioxidation grease to ensure the lubrication and eliminate all kinds of oxidation in places of electrical contact.
- 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

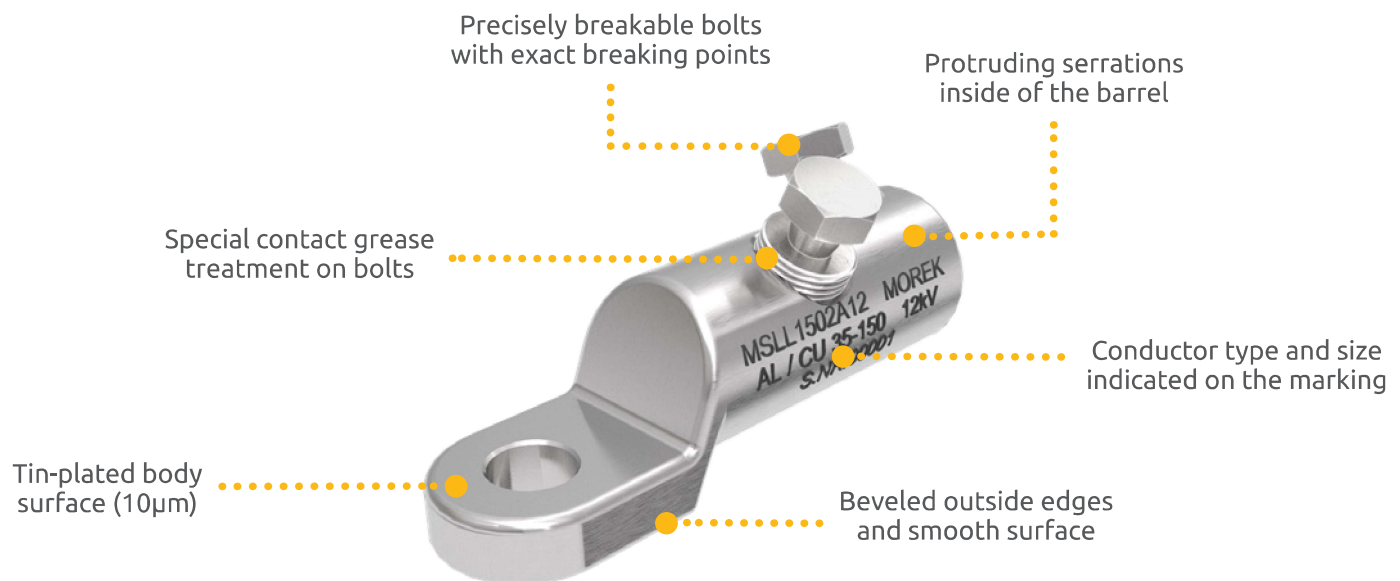
Technical specifications

- Nominal voltage up to 12kV
- Suitable for copper and aluminium conductors
- Bolts are treated with antioxidation grease

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




	MSLL35	MSLL50	MSLL51	MSLL70	MSLL95
M10	MSLL0351A10	MSLL0501A10	MSLL0502A10	-	-
M12	MSLL0351A12	MSLL0501A12	MSLL0502A12	MSLL0702A12	MSLL0951A12
M16	-	-	-	-	-

Technical data

Conductor cross-section Al (mm²)

RE  Round, solid	6 - 35	6 - 50	6 - 50	16 - 70	16 - 95
RM  Round, stranded	10 - 35	10 - 50	10 - 50	16 - 70	16 - 95
SE  Sector shaped, solid	16 - 35	16 - 50	16 - 50	16 - 70	16 - 95
SM  Sector shaped, stranded	16 - 25	16 - 35	16 - 35	16 - 70	16 - 95

Conductor cross-section Cu (mm²)

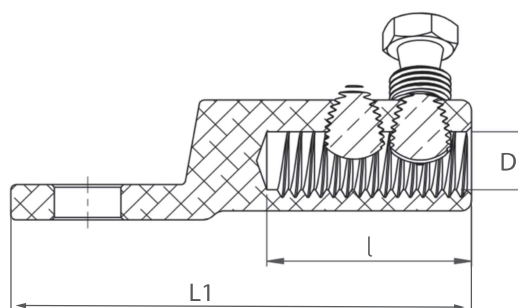
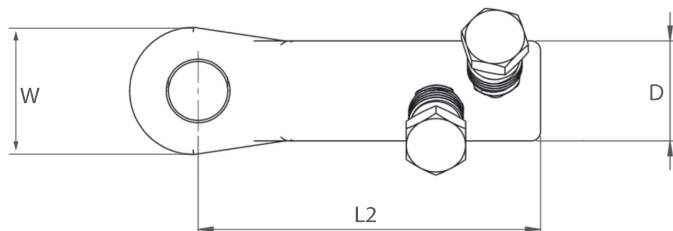
RM  Round, stranded	16 - 35	6 - 50	6 - 50	16 - 70	25 - 95
SM  Sector shaped, stranded	16 - 35	6 - 50	6 - 50	16 - 70	25 - 95
RE  Round, solid	6 - 25	6 - 35	6 - 35	6 - 35	10 - 35

No. of bolts Ø mm	1 / M10	1 / M10	2 / M10	2 / M12	1 / M12
L1 / L2 / l	53 / 40 / 18	62 / 51 / 28	62 / 51 / 30	90 / 75 / 40	65 / 52 / 24
W / D / d	24 / 16 / 9	25 / 20 / 11	25 / 20 / 11	28 / 22 / 12	25 / 25 / 14
Weight (g)	23	37	42	62	65
Package (pcs)	50	50	50	50	25

Bolts: aluminium alloy

Suitable for Al/Cu applications

Dimensions












Palm opening size	MSLL96	MSLL150	MSLL240	MSLL300
M10	-	-	-	-
M12	MSLL0952A12	MSLL1502A12	MSLL2402A12	MSLL3002A12
M16	-	-	MSLL2402A16	MSLL3002A16

Technical data

Conductor cross-section Al (mm²)

RE  Round, solid	16 - 95	35 - 150	50 - 240	120 - 300
RM  Round, stranded	16 - 95	35 - 150	50 - 240	120 - 300
SE  Sector shaped, solid	16 - 95	35 - 150	50 - 240	120 - 300
SM  Sector shaped, stranded	16 - 95	35 - 120	50 - 240	120 - 300

Conductor cross-section Cu (mm²)

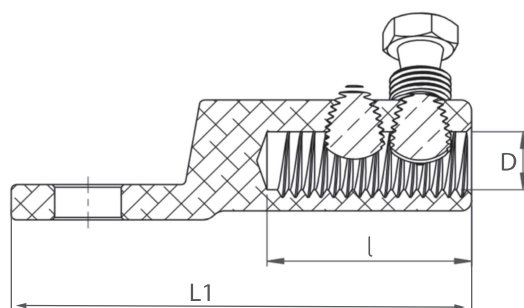
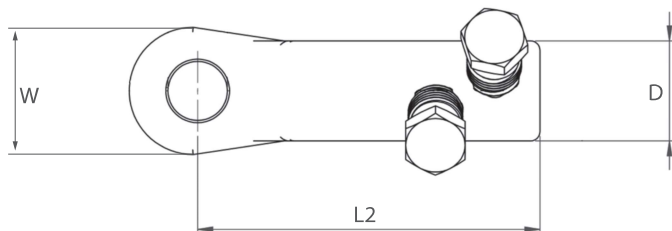
RM  Round, stranded	25 - 95	35 - 150	50 - 240	120 - 300
SM  Sector shaped, stranded	25 - 95	35 - 150	50 - 240	120 - 300
RE  Round, solid	10 - 35	25 - 35	-	-

No. of bolts Ø mm	2 / M12	2 / M16	2 / M18	2 / M22
L1 / L2 / l	76 / 63 / 32	100 / 85 / 52	115 / 97 / 57	123 / 104 / 59
W / D / d	25 / 25 / 15	29 / 29 / 18	35 / 35 / 22	38 / 38 / 24,5
Weight (g)	82	120	250	280
Package (pcs)	25	40	15	10

Bolts: aluminium alloy

Suitable for Al/Cu applications

Dimensions



Shear Bolt cable connectors up to 12kV

| For applications up to 12kV

| Suitable for Al and
Cu conductors

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EN61238-1 class A



Shear Bolt connectors are used for joining aluminium or copper conductors in applications up to 12kV.

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 connectors 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 connectors' 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 are treated with special antioxidation grease to ensure the lubrication and eliminate all kinds of oxidation in places of electrical contact.
- 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 connectors 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

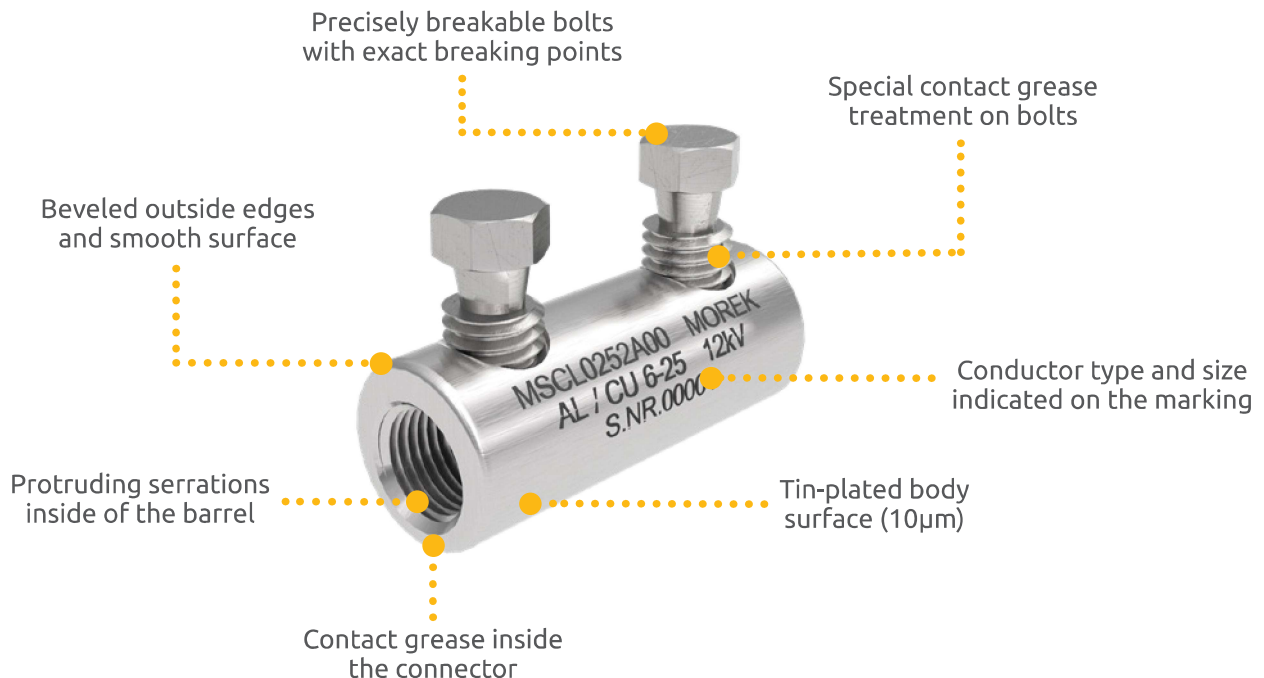
Technical specifications

- Nominal voltage up to 12kV
- Suitable for copper and aluminium conductors
- Bolts are treated with antioxidation grease

Materials

Connector body: tin-plated high-strength aluminium alloy

Aluminium-bolt cable connector bolts: aluminium alloy



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MSCL16

MSCL25

MSCL50

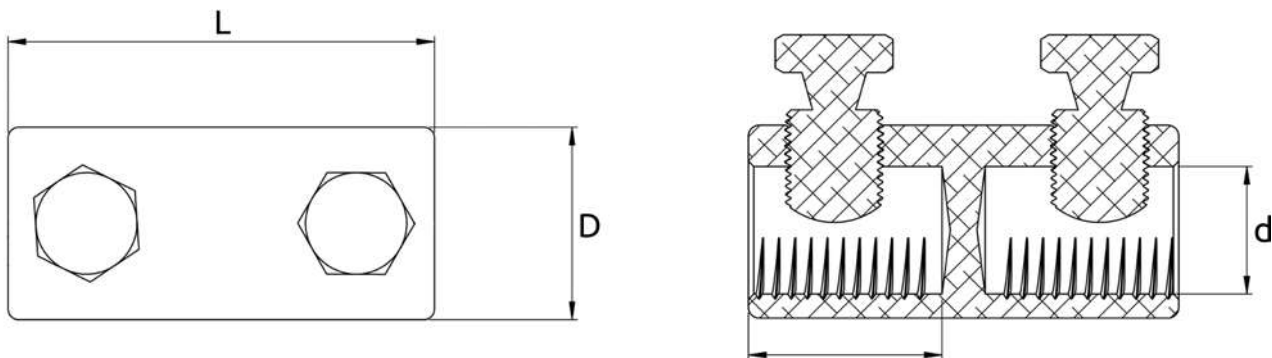
MSCL95

	MSCL0162A00	MSCL0252A00	MSCL0502A00	MSCL0952A00
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Technical data						
Conductor cross-section Al (mm²)						
RE		Round, solid	1,5 - 16	6 - 35	10 - 50	25 - 95
RM		Round, stranded	1,5 - 16	10 - 35	10 - 50	25 - 95
SE		Sector shaped, solid	1,5 - 16	16 - 35	16 - 50	25 - 95
SM		Sector shaped, stranded	1,5 - 16	16 - 25	16 - 35	25 - 95
Conductor cross-section Cu (mm²)						
RM		Round, stranded	1,5 - 16	16 - 35	16 - 50	25 - 95
SM		Sector shaped, stranded	1,5 - 16	16 - 35	16 - 50	25 - 95
RE		Round, solid	1,5 - 16	6 - 25	16 - 35	25 - 35
No. of bolts Ø mm			2 / M6	2 / M8	2 / M10	2 / M12
L / l			30 / 14	40 / 17	37 / 17	54 / 24
D / d			12 / 6	16 / 9	18 / 10	25 / 14
Weight (g)			10	22	26	47
Package (pcs)			100	100	50	50

Bolts: aluminium alloy
Suitable for Al/Cu applications

Dimensions





MSCL150





MSCL240

MSCL241




MSCL300

Technical data

Conductor cross-section Al (mm²)

RE  Round, solid	25 - 150	120 - 240	50 - 240	150 - 300
RM  Round, stranded	25 - 150	120 - 240	50 - 240	150 - 300
SE  Sector shaped, solid	25 - 150	120 - 240	50 - 240	150 - 300
SM  Sector shaped, stranded	25 - 120	120 - 240	50 - 240	150 - 300

Conductor cross-section Cu (mm²)

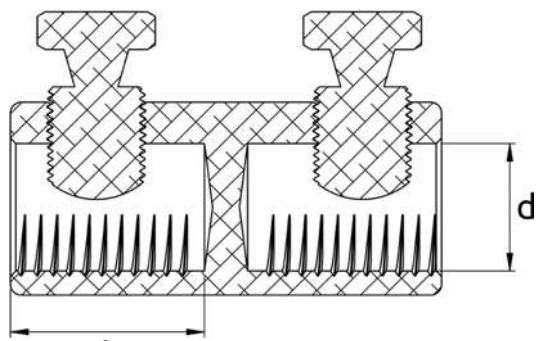
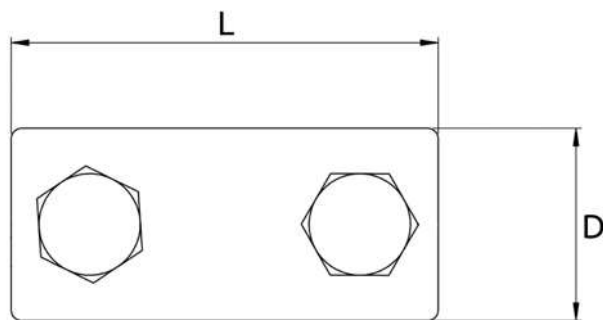
RM  Round, stranded	25 - 120	120 - 240	50 - 240	150 - 300
SM  Sector shaped, stranded	25 - 35	-	-	-
RE  Round, solid	-	-	-	-

No. of bolts Ø mm	2 / M16	2 / M18	4 / M18	4 / M22
L / l	70 / 30	80 / 36	120 / 56	112 / 52
D / d	28 / 17	36 / 24	35 / 22	38 / 24
Weight (g)	87	162	220	265
Package (pcs)	35	25	20	20

Bolts: aluminium alloy

Suitable for Al/Cu applications

Dimensions



Shear Bolt pin lugs

| For applications up to 12kV

| Suitable for Al and
Cu conductors

Certified according to

| **EN61238-1 class A**





MSPL095



MSPL150







MSPL240




	MSPL0952A00	MSPL1502A00	MSPL2402A00
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Technical data

Conductor cross-section Al (mm²)

RE 	Round, solid	25 - 95	35 - 150	120 - 240
RM 	Round, stranded	25 - 95	35 - 150	120 - 240
SE 	Sector shaped, solid	25 - 95	35 - 150	120 - 240
SM 	Sector shaped, stranded	25 - 95	35 - 120	120 - 240

Conductor cross-section Cu (mm²)

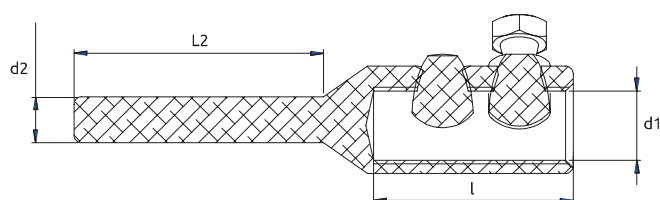
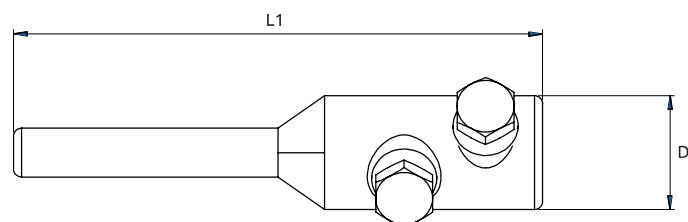
RM 	Round, stranded	25 - 95	35 - 150	120 - 240
SM 	Sector shaped, stranded	25 - 95	35 - 120	120 - 240
RE 	Round, solid	25 - 35	35	-

No. of bolts Ø mm	2 / M12	2 / M16	2 / M18
L1 / L2 / l	120 / 65 / 43	130 / 65 / 52	135 / 65 / 56,5
D / d1 / d2	24 / 14 / 10	28 / 18 / 12	35 / 22 / 15
Weight (g)	65	95	156
Package (pcs)	30	25	20

Bolts: aluminium alloy

Suitable for Al/Cu applications

Dimensions



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

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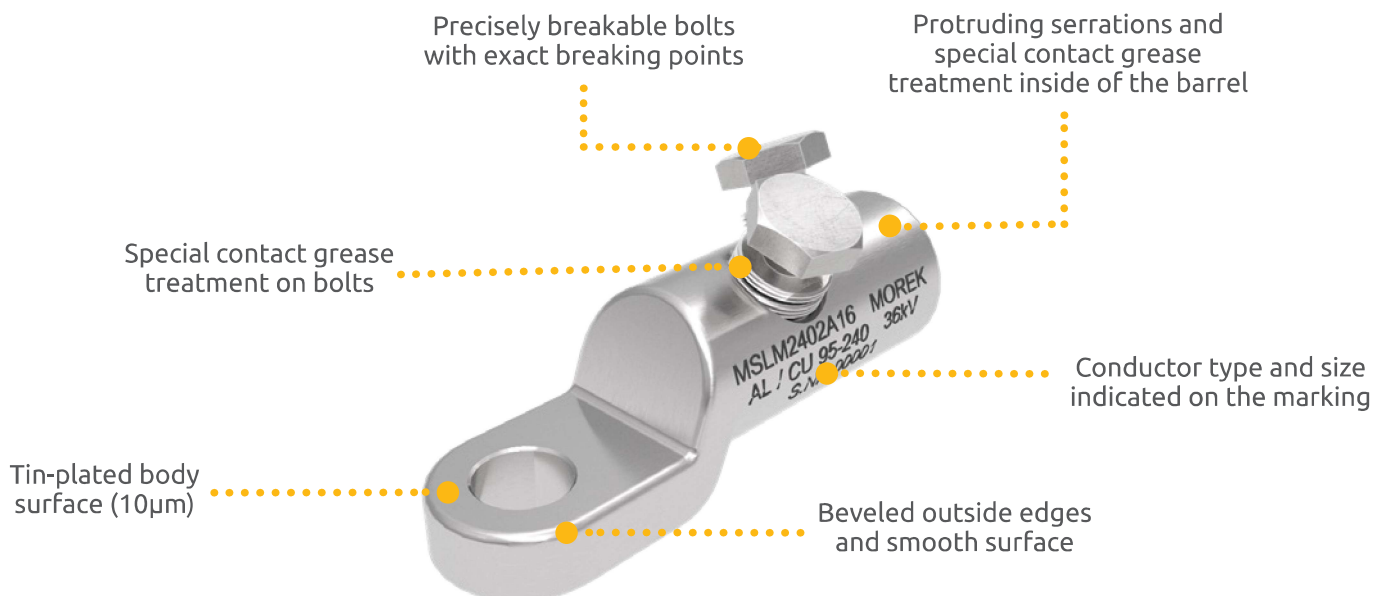
Technical specifications

- 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

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 (mm²)

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 (mm²)

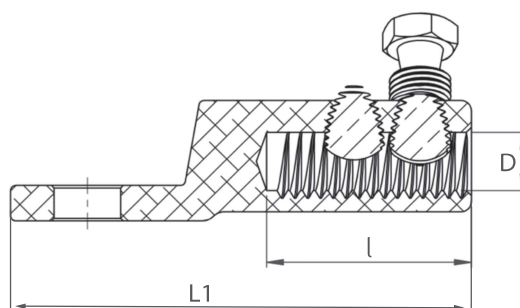
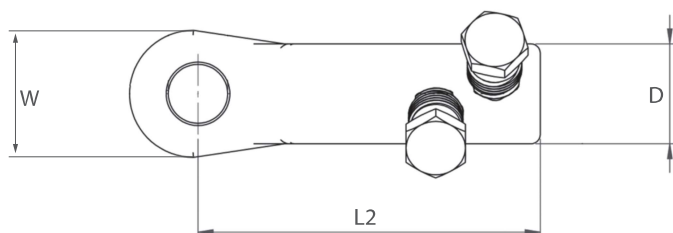
RM 	Round, stranded	16 - 70	50 - 120	95 - 240	120 - 300
SM 	Sector shaped, stranded	25 - 70	50 - 120	95 - 185	120 - 240

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

Bolts: aluminium alloy. Upon request we can deliver products with brass bolts.

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 (mm²)

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 (mm²)

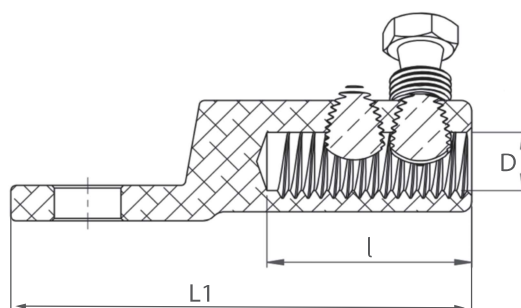
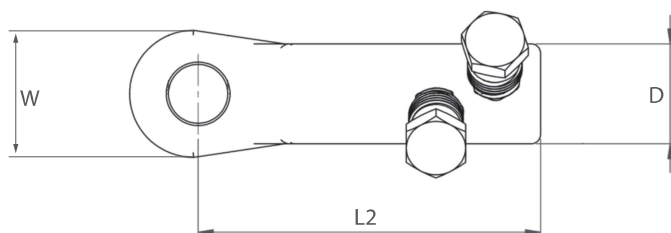
RM  Round, stranded	185 - 400	400 - 630	630 - 1000
SM  Sector shaped, stranded	185 - 300	400 - 500	630 - 800

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






Bolts: aluminium alloy. Upon request we can deliver products with brass bolts.

Suitable for Al/Cu applications

Dimensions

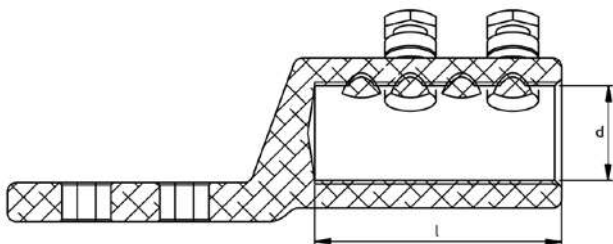
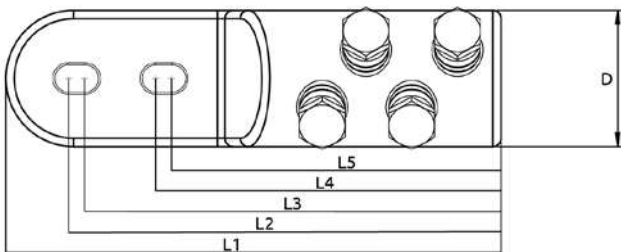




Palm opening size		MSLM400	MSLM630	MSLM1000
M12 x 20 x 2		MSLM4003A32	MSLM6303A32	MSLM10004A32
Technical data				
Conductor cross-section Al (mm²)				
RE 	Round, solid	185 - 400	400 - 630	630 - 1000
RM 	Round, stranded	185 - 400	400 - 630	630 - 1000
SM 	Sector shaped, stranded	185 - 300	400 - 500	630 - 800
Conductor cross-section Cu (mm²)				
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

Bolts: aluminium alloy
Suitable for Al/Cu applications

Dimensions



Shear Bolt cable connectors up to 36kV

| For applications up to 36kV

| Suitable for Al and
Cu conductors

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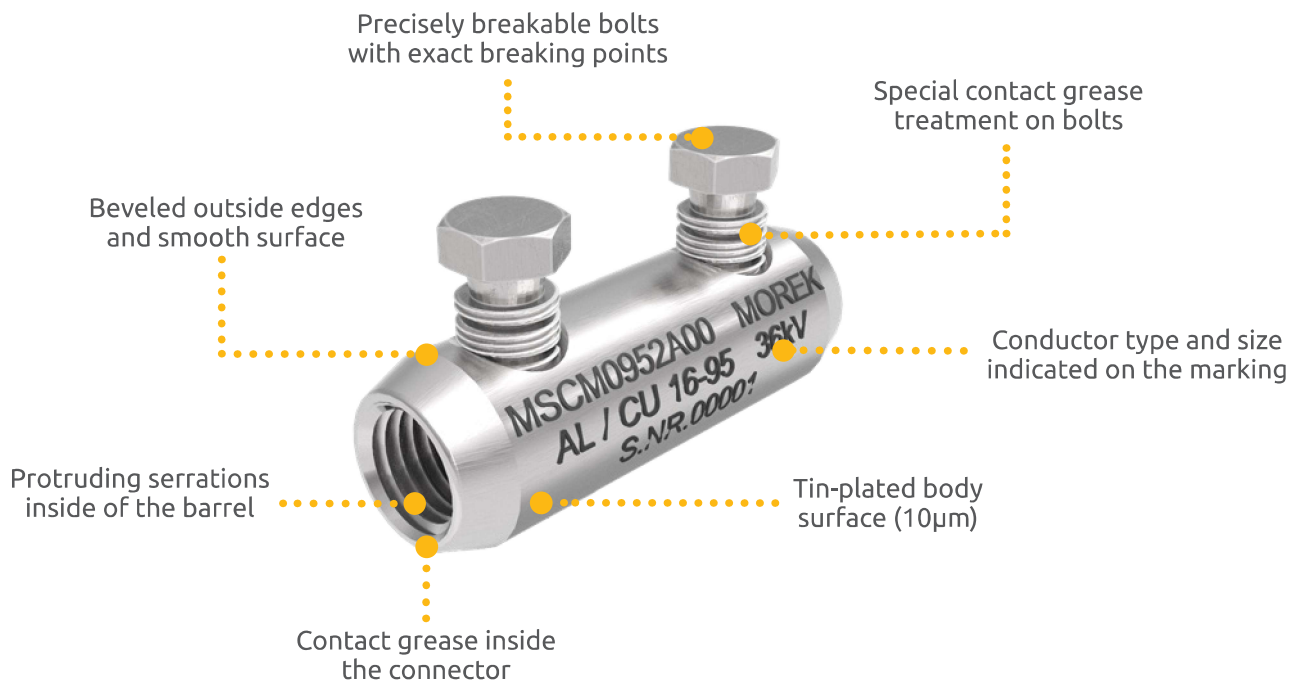
Technical specifications

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

Materials

Connector body: tin-plated high-strength aluminium alloy

Cable lug bolts: aluminium alloy



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MSCM95



MSCM150



MSCM240






MSCM300



	MSCM0952A00	MSCM1502A00	MSCM2404A00	MSCM3004A00
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Technical data

Conductor cross-section Al (mm²)

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 (mm²)

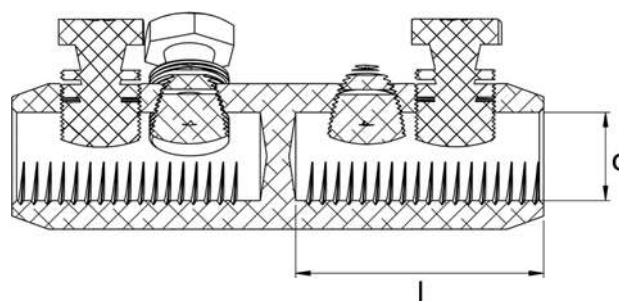
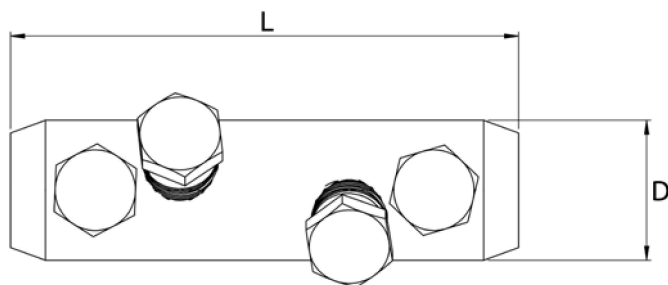
RM 	Round, stranded	16 - 70	50 - 120	95 - 240	120 - 300
SM 	Sector shaped, stranded	25 - 70	50 - 120	95 - 185	120 - 240

No. of bolts Ø mm	2 / M12	2 / M14	4 / M18	4 / M22
L / l	70 / 33	80 / 35	120 / 56	142 / 67
D / d	24 / 14	30 / 16	33 / 20	38 / 24,5
Weight (g)	74	146	230	400
Package (pcs)	30	25	15	10

Bolts: aluminium alloy. Upon request we can deliver products with brass bolts.

Suitable for Al/Cu applications

Dimensions





MSCM400

MSCM630

MSCM1000

	MSCM4006A00	MSCM6306A00	MSCM10008A00
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Technical data

Conductor cross-section Al (mm²)

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 (mm²)

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

No. of bolts Ø mm	6 / M22	6 / M22	8 / M22 long
L / l	170 / 82	200 / 94	220 / 105
D / d	42 / 26	52 / 34	65 / 41
Weight (g)	580	815	1340
Package (pcs)	5	3	2

Bolts: aluminium alloy. Upon request we can deliver products with brass bolts.
Suitable for Al/Cu applications

Dimensions

