

Shear Bolt cable connectors up to 12kV

For applications up to 12kV

Suitable for Al and Cu conductors

Certified according to

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

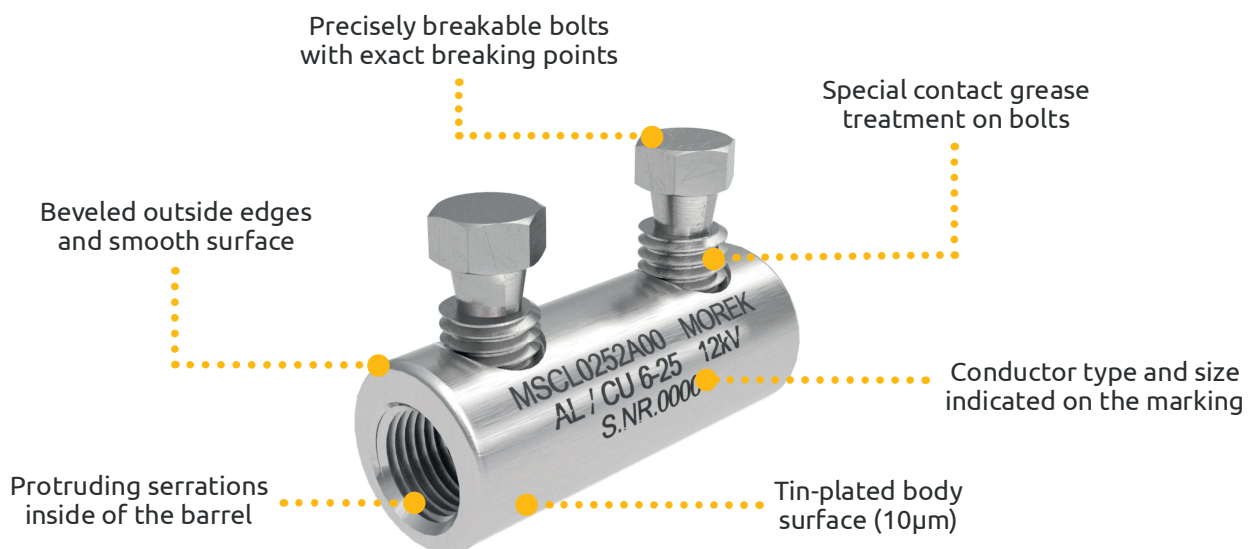
- Nominal voltage up to 12kV
- Suitable for copper and aluminium conductors
- Bolts are treated with antioxidation grease

Materials

Connector body: tin-plated high-strength aluminium alloy

Aluminium-bolt cable connector bolts: aluminium alloy

Brass-bolt cable connector bolts: tin-plated brass



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**.



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

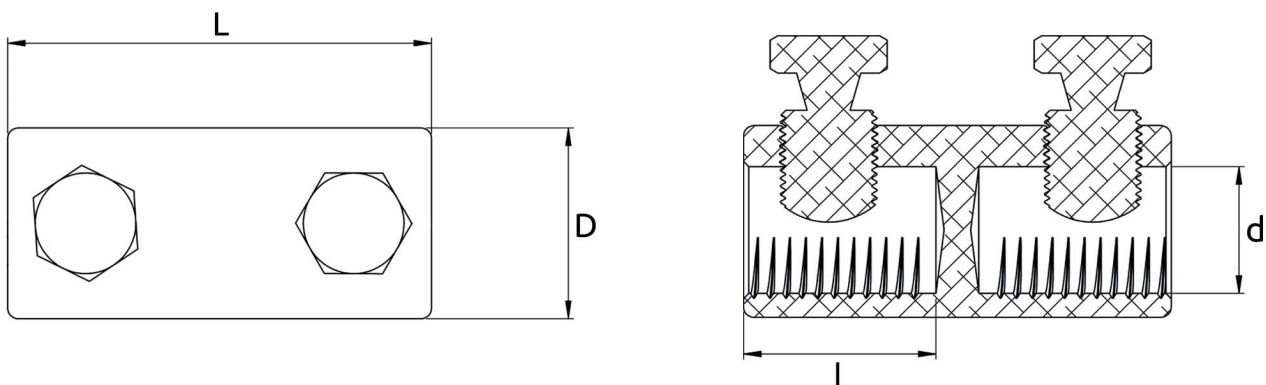
Conductor cross-section Cu (mm²)

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	50	50	50

Bolts: aluminium alloy
Suitable for Al/Cu applications

Dimensions





MSCL150

MSCL240

MSCL241

MSCL300

	MSCL1502A00	MSCL2402A00	MSCL2404A00	MSCL3004A00
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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

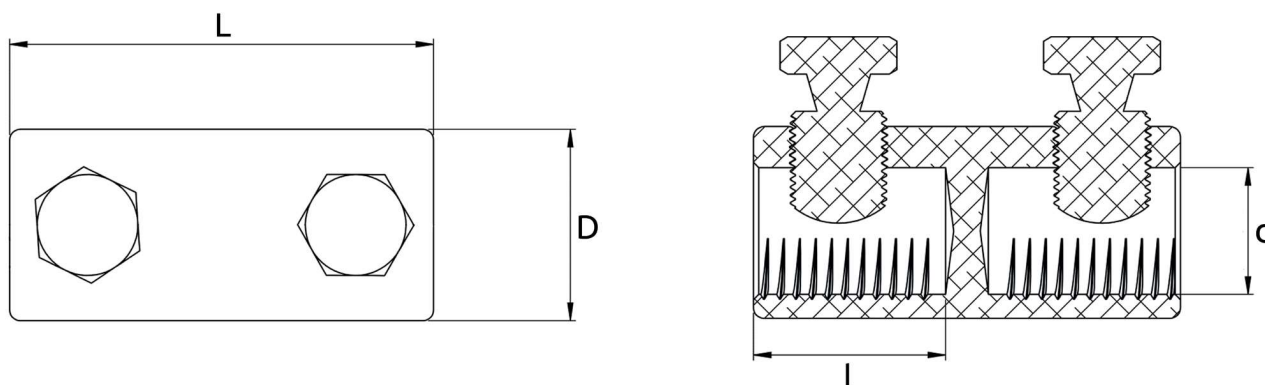
Conductor cross-section Cu (mm²)

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





MSCL16

MSCL25





MSCL50

MSCL95




	MSCL0162B00	MSCL0252B00	MSCL0502B00	MSCL0952B00
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Technical data

Conductor cross-section Al (mm²)

RE 	Round, solid	1,5 - 16	6 - 35	16 - 50	25 - 95
RM 	Round, stranded	1,5 - 16	10 - 25	16 - 50	25 - 95
SE 	Sector shaped, solid	1,5 - 16	16 - 25	16 - 50	25 - 95
SM 	Sector shaped, stranded	1,5 - 16	16 - 25	16 - 35	25 - 95

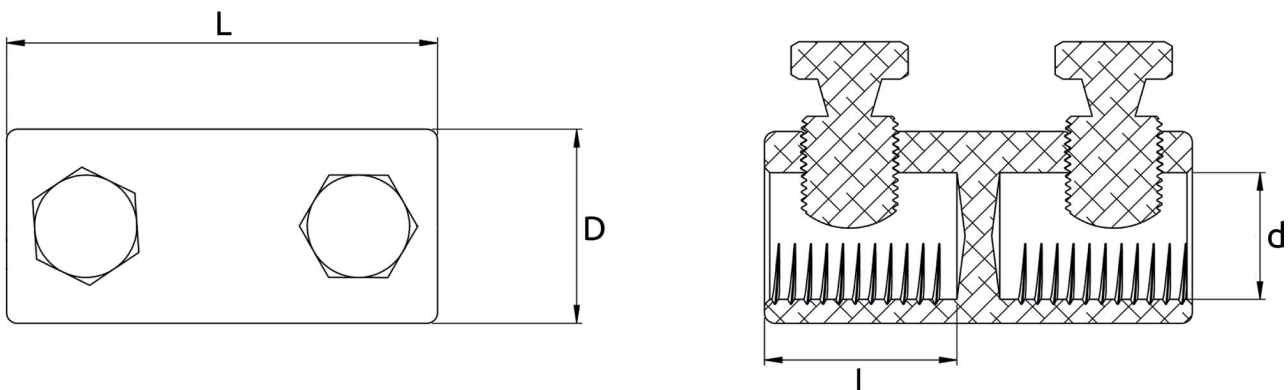
Conductor cross-section Cu (mm²)

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	55 / 24	56 / 24
D / d	12 / 6	16 / 9	21 / 11	25 / 14
Weight (g)	15	32	60	90
Package (pcs)	100	50	50	50

Bolts: tin-plated brass
Suitable for Al/Cu applications

Dimensions





MSCL150



MSCL240



MSCL300

	MSCL1502B00	MSCL2402B00	MSCL3004B00
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Technical data

Conductor cross-section Al (mm²)

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

Conductor cross-section Cu (mm²)

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

No. of bolts Ø mm	2 / M16	2 / M18	4 / M22
L / l	70 / 30	80 / 36	112 / 52
D / d	28 / 18	36 / 24	38 / 24
Weight (g)	135	240	310
Package (pcs)	35	25	20

Bolts: tin-plated brass
Suitable for Al/Cu applications

Dimensions

