

Aluminum Alloy Mechanical Connector

This mechanical connector is used for intermediate connections of copper, aluminum, and aluminum alloy cables at low voltage. It features torque-controlled shear head bolts that ensure stable working performance without conductor damage.



ADDITIONAL IMAGES



Product Overview

High-Performance Mechanical Connector

The SCLL series mechanical connector provides a reliable, high-strength solution for the intermediate connection of copper, aluminum, and aluminum alloy cables in low-voltage systems. Designed for ease of installation, it features shear-off bolt technology that ensures stable electrical performance without the need for specialized crimping tools. The connectors arrive prefilled with jointing compound and feature a durable tin-plated aluminum alloy body to ensure superior conductivity and mechanical integrity in various power network applications.

Technical Specifications

Type	AL in mm ²				CU in mm ²				Number Of Bolts	Shear-off Torque (Nm)	Wrench Size	Pack (pcs)
	round stranded	sector stranded	round solid	sector solid	round stranded	sector stranded	round solid	class 5				
SCLL1.5-16/2S	-	-	-	-	1.0-16	-	1.0-16	1.0-16	2	3	3 ²)	250x4
SCLL1.5-16/2L	1.0-16	-	1.0-16	-	1.0-16	-	1.0-16	1.0-16	2	3	8	200x4
SCLL6-25/2L	10-35	16-25	6-35	16-35	10-25	16-25	4-25	1.5-35	2	5	8	150x4
SCLL6-50/2L	10-50	35-50	10-50	35-50	6-50	35-50	6-35	50	2	11	10	100x4
SCLL16-95/2L	16-95	35-95	16-95	35-95	16-95	35-95	16-35	95	2	20	13	75x4
SCLL25-150/2L	25-150	35-150	25-150	35-150	25-150	35-150	16-35	120-150	2	34	17	40x4
SCLL50-240/4L	50-240	50-240	50-240	50-240	50-240	50-240	-	240	4	35	19	16x4

Specification overview including torque settings and conductor ranges.

Installation Features

- No crimping tools required (use socket spanner or wrench)
- Torque-controlled shear head bolts
- Prefilled with jointing compound
- Threaded inner surface for enhanced performance

Product Range Table

Model	AL Range (mm ²)	Bolts	Torque (Nm)
SCLL1.5-16/2S	1.0-16	2	3
SCLL1.5-16/2L	1.0-16	2	3
SCLL6-25/2L	6-35	2	5
SCLL6-50/2L	6-50	2	11
SCLL16-95/2L	16-95	2	20
SCLL25-150/2L	25-150	2	34
SCLL50-240/4L	50-240	4	35

Material Composition

High strength aluminum alloy body, Aluminum alloy bolts, Tin-plated surface

Standards and Compliance

Standards

IEC 61238-1:2003