

Verification methods according to AS/NZS 61439.1:2016

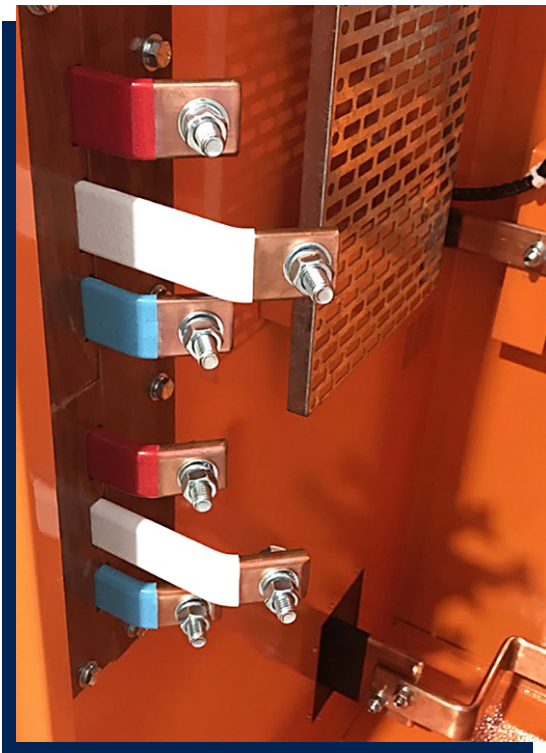
ITEM NO.8 – TERMINALS FOR EXTERNAL CONDUCTORS

In accordance with AS/NZS 61439.1:2016, Clauses 10.8 & 8.8

BE Switchcraft follows the design requirements of 8.8 terminals for external conductors and is verified by the routine inspections.

BE Switchcraft will provide suitable termination facilities whether the terminals are appropriate for connection of copper or aluminium conductors, or both as indicated on technical drawings. Also, the terminals shall be such that the external conductor may be connected by a means (screw, connectors, etc.) which ensures that the necessary contact pressure corresponding to the current rating and the short-circuit strength of the apparatus and the circuit is maintained.

In the absence of a special agreement between the ASSEMBLY manufacturer and the user, terminals shall be capable of accommodating copper conductors from the smallest to the largest cross-sectional areas corresponding to the appropriate rate current according to Annex A (see Page 2).



Left:
Active Terminals.

Right:
*Neutral and
Earth Terminals.*

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Annex A (normative)

Minimum and maximum cross-section of copper conductors suitable for connection to terminals for external conductors (see 8.8).

Table A.1 below applies for the connection of one copper cable per terminal.

Table A.1 – Cross-section of copper conductors suitable for connection to terminals for external conductors.

Rated current	Solid or stranded conductors		Flexible conductors	
	Cross-sections		Cross-sections	
A	min.	max.	min.	max.
	mm ²		mm ²	
6	0,75	1,5	0,5	1,5
8	1	2,5	0,75	2,5
10	1	2,5	0,75	2,5
13	1	2,5	0,75	2,5
16	1,5	4	1	4
20	1,5	6	1	4
25	2,5	6	1,5	4
32	2,5	10	1,5	6
40	4	16	2,5	10
63	6	25	6	16
80	10	35	10	25
100	16	50	16	35
125	25	70	25	50
160	35	95	35	70
200	50	120	50	95
250	70	150	70	120
315	95	240	95	185

If the external conductors are connected directly to built-in apparatus, the cross-sections indicated in the relevant specifications are valid.

In cases where it is necessary to provide for conductors other than those specified in the table, special agreement shall be reached between the ASSEMBLY manufacturer and the user.