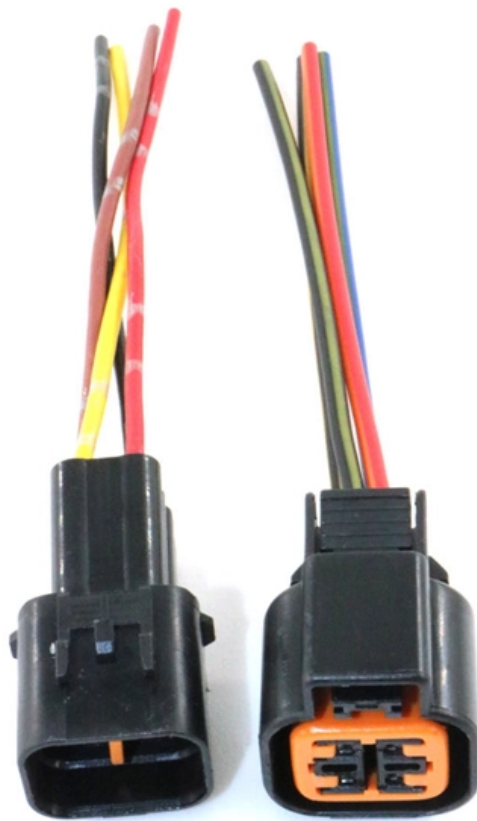


Low-voltage switchgear and busbar connection





Overview

It is strongly recommended that a full-scale drawing is made of the bars, in particular for bends and stacking of bars. The contact area (s_c) must be at least 5 times the cross-section of the bar (S_b). Devices to prevent loosening: Applying a mark (paint, brittle coating) will show any loosening and can also be used to check that tightening has been carried out correctly (tell-tale). Apart from pronounced oxidation (significant blackening or presence of copper carbonate or "verdigris"), bars do not require any special preparation. Cleaning with acidified water is prohibited, as, apart from the risks, it requires neutralisation and rinsing.



Low-voltage switchgear and busbar connection

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The manuscript presents advanced coupled analysis: Maxwell 3D, Transient Thermal and Fluent CFD, at the time of a rated current occurring on the

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