Business Unit **Special Conductors**

Brass Strands for Data Cables

Brass is a technically good and cost effective replacement for copper in data cables (e.g. twisted pair types, UTP, FTP, etc)

Objective

To replace copper in data cables with a stronger alloy wire thereby saving weight without compromising on tensile strength.

Technical Advantage

- Weight reduction of up to 50 %
- Space saving as cables can be made smaller
- Increased flex life in spite of smaller conductor cross sections
- Comparable tensile strength

Economic Advantage

Risks associated with volatile commodity prices and their impact on raw material costs are reduced.

Environmental Advantage

- Lowered demand on scarce raw materials
- Reduced fuel consumption and CO_2 emissions when installed in motor vehicles

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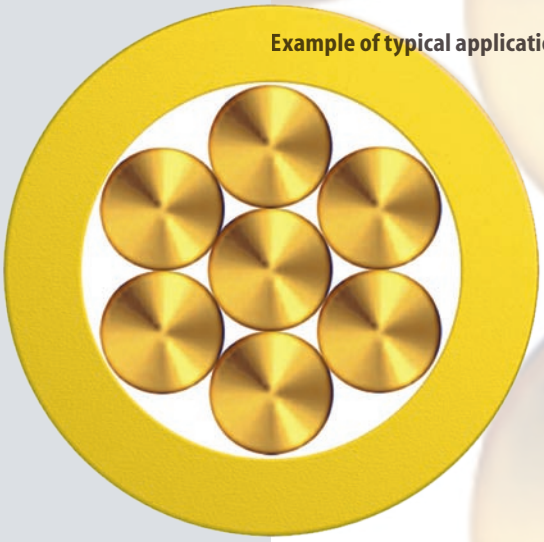
Comparison of ETP copper strand 0.35 mm² 7 x 0.254 bare
and brass strand 0.22 mm² 7 x 0.20 bare

Significant findings

- Saving in material costs through reduction of cross section from 0.35 mm² to 0.22 mm²
- Weight reduction of 38 %
- Reduction of overall diameter of strand thereby reducing use of insulation materials
- Price neutral based on current metal prices
- Crimpable (in contrast to aluminium)
- No creeping (in contrast to aluminium)

Tests prove that 7 x 0.2 mm brass strand is compatible with all widely used termination methods with the exception of resistance welding.

Example of typical application



Other sizes and constructions available on request.

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