

Title (en)
SINGLE-LAYER MULTI-STRAND CABLE HAVING IMPROVED ENERGY AT BREAK AND AN IMPROVED TOTAL ELONGATION

Title (de)
EINLAGIGES MEHRADRIGES KABEL, DAS EINE VERBESSERTE REISSDEHNUNG UND VERBESSERTE GESAMTDEHNUNG AUFWEIST

Title (fr)
CÂBLE MULTI-TORONS À UNE COUCHE À ÉNERGIE À RUPTURE AMÉLIORÉE ET À ALLONGEMENT TOTAL AMÉLIORÉ

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Abstract (en)
[origin: WO2021140287A1] The invention relates to a multi-strand cable (50) having a 1xN structure comprising a single layer (52) of N strands (54) that are helically wound about a main axis (A), each strand (54) consisting of a layer (56) of metal wires (F1) and comprising M>1 metal wires that are helically wound about an axis (B). The cable (50) has a total elongation $A_t > 8.10\%$, and the energy-at-break index $E_r = rA_t$ of the cable (50) is defined as $E_r = \int A_t \sigma(A_i) \times dA_i$, where $\sigma(A_i)$ is the tensile stress in MPa measured at the elongation A_i , and dA_i is the elongation such that E_r is strictly greater than 52 MJ/m³.

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