CLAIMS

1. A hybrid rope comprising a core element containing high modulus fibers surrounded by at least one outer layer containing wirelike metallic members,

wherein the core element is coated with a copolyester elastomer containing soft blocks in the range of 10 to 70 wt %.

2. The hybrid rope according to claim 1, wherein the hardness Shore D of the copolyester elastomer as measured according to ISO 868 is larger than 50.

3. The hybrid rope according to claims 1 or 2, wherein the copolyester elastomer is a copolyester block copolymer with soft blocks consisting of segments of polyester, polycarbonate and/or polyether.

4. The hybrid rope according to any one of the preceding claims, wherein the high modulus fibers contain high molecular weight polyethylene (HMwPE), ultrahigh molecular weight polyethylene (UHMwPE), liquid crystal polymer (LCP), aramid, and PBO (poly(p-phenylene-2,6-benzobisoxazole).

5. The hybrid rope according to any one of the preceding claims, wherein the polymer is coated on the core element by extrusion.

6. The hybrid rope according to any one of the preceding claims, wherein the thickness of the polymer is larger than 0.5 mm.

7. The hybrid rope according to any one of the preceding claims, wherein said hybrid rope has a diameter in the range of 2 to 400 mm.

8. The hybrid rope according to any one of the preceding claims, further comprising a jacket surrounding the metallic outer layer, said jacket comprising a plastomer, thermoplastic and/or elastomer.

9. The hybrid rope according to any one of the preceding claims, wherein the wirelike metallic members are steel wires and/or steel wire strands.

10. The hybrid rope according to claim 9, wherein the steel wires and/or steel wire strands are coated with zinc and/or zinc alloy.

11. The hybrid rope according to any one of the preceding claims, wherein the hybrid rope contains two or more outer layers containing wirelike metallic members.

12. The hybrid rope according to any one of the preceding claims, wherein an additional plastomer layer is added in-between the core element and the coated polymer, and/or in-between the two or more outer layers.

13. A method to decrease elongation and diameter reduction and increase lifetime of a hybrid rope after being in use when taking as a reference a hybrid rope without coating or with other coatings such as polypropylene on the core, said method comprises the steps:

providing a core element, wherein said core element includes high modulus fibers;

coating said core element with a polymer having copolyester elastomer containing soft blocks in the range of 10 to 70 wt %; and

twisting a plurality of wirelike metallic members together around the core element to form a metallic outer layer.

14. A method to avoid pressing out a coated material on an inner core in-between the wirelike members of a hybrid rope after being in use, said method comprises the steps:

providing a core element, wherein said core element includes high modulus fibers;

coating said core element with a polymer having copolyester elastomer containing soft blocks in the range of 10 to 70 wt %; and

twisting a plurality of wirelike metallic members together around the core element to form a metallic outer layer.