

SECTION 936
WIRE ROPE FOR FENDER PILE CLUSTER

Unless otherwise shown on the plans, galvanized aircraft quality wire rope with ultraviolet ray resistant polypropylene impregnation shall be used. The polypropylene plastic shall form a wall of protection by using spacer wires in the outer gallery of each strand and shall be effectively bonded to the outer plastic jacket. The rope diameter shall be 1/2 inch [12.7 mm] and the outside diameter of the covering 5/8 inch [15.9 mm]. The rope construction shall be 6 by 19 independent wire rope core with nominal strength of 22,800 pounds [100 kN]. All ends shall be protected with heat shrinkable end caps, compatible with the rope's polypropylene. The caps shall provide an effective water-tight seal and shall be installed in accordance with the manufacturer's instructions. The rope shall conform to Federal Specifications W83420 for aircraft quality and the protective coating shall conform to ASTM A 475 (Type 1 coating).