

Cable, Tether, Ventana ROV Upgrade Part-Number FM101003-1CP

A - 4 Fibers, 9/125 single-mode, SMF-28(TM), each buffered with 250um in a gel-filled, laser-welded, 0.052" OD SS tube

B - 0.044" wall Black Polypropylene

C - 5 Conductors #12AWG (Stranded) tin-plated copper with 0.047" wall X-link PE insulation - 5,000 volts peak DCR@20 C < 2 ohms/1,000-FT

D - 0.025" wall PUR inner jacket pressure extruded into voids

H - 0.080" wall Yellow Polyurethane Outer Jacket

G - Reinforcement twine open braid

F - 2 Layers contrahelical Kevlar type 49 yarns separated with tape wrap

E - #36 AWG TC Braid, 21% coverage in contact with aluminum/polyester tape, overlapped

Overall Diameter = 0.90 inch nominal
Breaking Strength = 25,000 lbs nominal
Peak Tension Load = 5,000 lbs maximum
Bend Radius = 18 inch minimum
Weight in Air = 395 lbs/1,000-FT
Weight in Sea = 112 lbs/1,000-FT

Designed for Monterey Bay Aquarium Research Institute

October 10, 2003

NOT TO SCALE