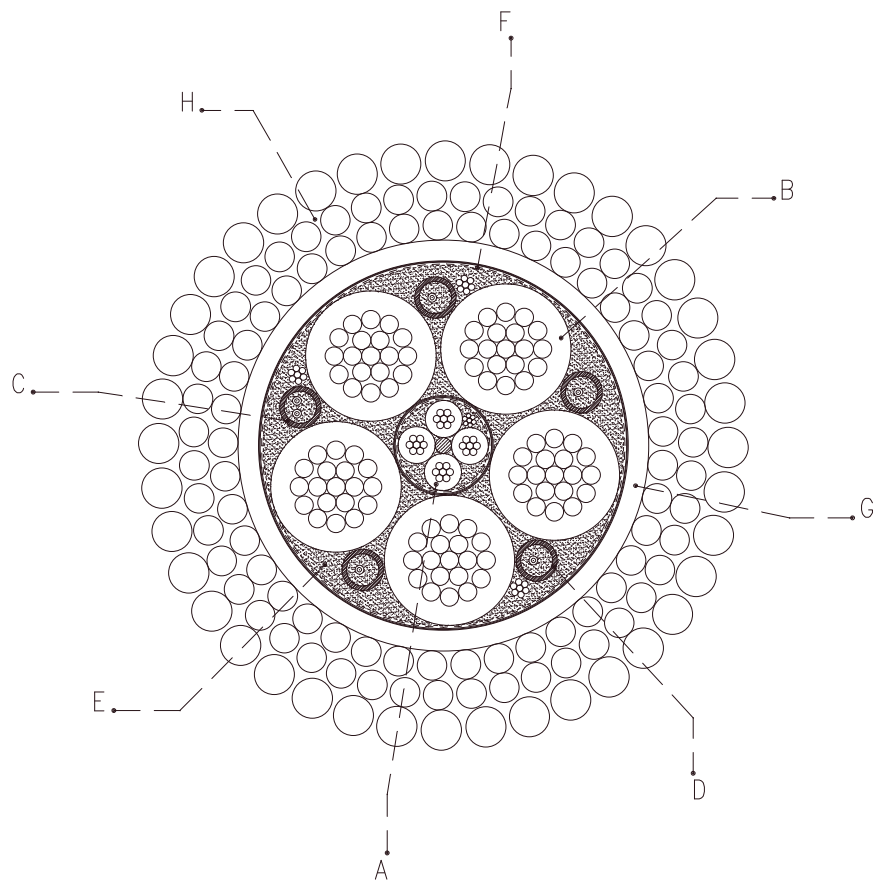


REVISIONS HISTORY

00	INITIAL RELEASE	07/06/07
01	INCORPORATE MM FIBRE	25/06/07

Assembly Detail:—

- A) 1 off 0.22 mm² screened twisted signal quad,
(U_o/U = 0.35/0.60 kVac max).
Screen comprises copper/polyester laminate
tape and tinned copper drain wire.
(colour [from 12 o'clock position, c/w]: Bl/Ye/Wh/Re)
- B) 5 off polypropylene insulated 4.0 mm² plain copper
power conductors, (U_o/U = 2.4/4.2 kVac max).
(colour [from 1 o'clock position, c/w]: Gn/Wh/Ye/Re/Bl)
- C) 4 off gel filled stainless steel tubes each containing
1 x 9/125/250 μm single-mode optical fibre.
(colour [from 12 o'clock position, c/w]: Bl/Gn/Wh/Ye)
- D) 1 off gel filled stainless steel tube containing 1 x
9/125/250 μm single-mode optical fibre and 1 x
50/125/250 μm multi-mode optical fibre.
(colour: Re/Bk)
- E) Assembly voids filled with silicone rubber compound.
- F) Collective screen comprising copper/polyester
laminate tape and tinned copper drain wires.
- G) High density polyethylene sheath (0.8 mm nominal thickness)
- H) Three torsionally balanced layers of Brlube II
coated galvanised steel wire armour.



Nominal Mechanical Characteristics:—

Finished diameter:	17.3 mm.
Weight in air:	1,150 kg/km.
Weight in sea-water:	900 kg/km, (note 1).
Minimum bend radius:	210 mm, (static).
Minimum bend radius:	230 mm, (dynamic).
Minimum breaking load:	180 kN.

Note 1) Assumed sea-water density = 1,026 kg/m³.

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Unless otherwise specified,
all dimensions are in mm.

All values nominal.

Drawing No:
RM0011

Description:
MBARI ROV UMBILICAL

Rev:
01

Scale: N.T.S.

Date: 25th Jun, 2007.

Sheet: 1 of 1

Drawn: S.McQ.

Approved: