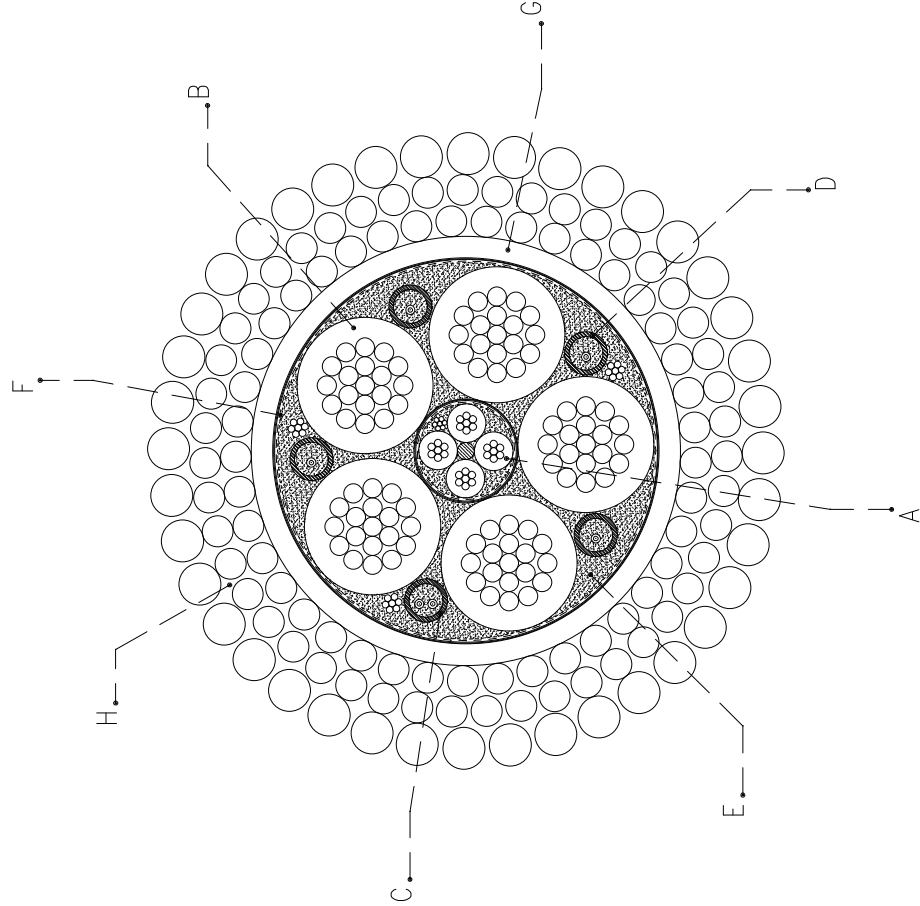




REVISIONS HISTORY		
00	INITIAL RELEASE	07/06/07
01	INCORPORATE MM FIBRE	25/06/07

Assembly Detail:—



- A) 1 off 0.22 mm² screened twisted signal quad, (U₀/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, (U₀/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.

d galvanised steel wire armour.		Cortland Fibron BX Ltd		
		Unit C, Belcon Ind. Est. Bingley Road, Hoddesdon, Hert's, EN11 ONX		
		Tel: +44 (0) 1992 471444 Fax: +44 (0) 1992 471555 www.thecortlandcompanies.com		
Unless otherwise specified, all dimensions are in mm.		Rev: 01		
All values nominal.		Sheet: 1 of 1		
Drawing No: RMO011		Description: MBARI ROV UMBILICAL		
Scale: N.T.S.	Date: 25th Jun, 2007.	Sheet: 1 of 1		
Drawn: S.McQ.	Approved:			