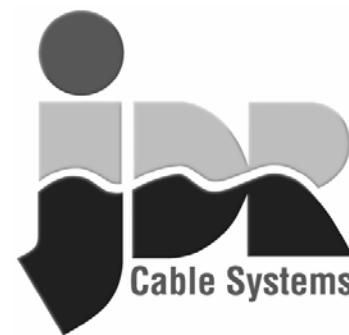


E-mail Quotation

To: Andrew Hamilton
Company: MBARI



From: Richard Voight

Date: 07/30/03

Pages including this page: 5

JDR Cable Systems Inc.
6225 W. Sam Houston Pkwy N.
Houston
Texas 77041

Tel: +1 281 240 6600

Fax: +1 281 240 6601

Dir Tel: +1 713 466 6394

E-mail: richard.voight
@jdr cables.com

Web: www.jdr cables.com

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Subject: MOOS Riser Cable

Our ref: C200306248

Andrew:

JDR Cable Systems is pleased to offer the following proposal C200306248 for your current application. The proposal is in accordance to the submitted specification, "MOOS SYSTEM RISER CABLE SPECIFICATION (synthetic fiber rope) –Preliminary Revision 3.0." Please feel free to contact me at your earliest convenience to discuss and/or clarify any portion of this offer. I can be reached directly at 281-380-2709.

Regards,

Richard Voight
JDR Cable Systems, Inc.

Scotland	Tel : +44 (0)1224 782 244	Fax : +44 (0)1224 782 250	E-mail : aberdeen@jdr cables.com
England	Tel : +44 (0)1353 860 022	Fax : +44 (0)1353 861 388	E-mail : uk@jdr cables.com
USA	Tel : +1 281 240 6600	Fax : +1 281 240 6601	E-mail : usa@jdr cables.com
Norway	Tel : +47 3704 3202	Fax : +47 3704 0255	E-mail : norway@jdr cables.com
France	Tel : +33 (0)3 44 40 80 81	Fax : +33 (0)3 44 40 81 18	E-mail : france@jdr cables.com

Option 1: 2-Layer Vectran Serving

Qty: 1
Length: 2,500 meters
JDR Part Number: 010 A 099 Rev 1A, Ref Attached

Pricing

Total Net Price FOB Moss Landing, California, 95039:.....\$ 158,905 USD

Delivery

On or before October 27th 2003.

Option 2: 4-Layer Vectran Serving

Qty: 1
Length: 2,500 meters
JDR Part Number: 010 A 099 Rev 1B, Ref Attached

Pricing

Total Net Price FOB Moss Landing, California, 95039:.....\$ 172,530 USD

Delivery

On or before October 27th 2003.

For the latest news and to find out more about our commitment to Service, you can visit our website at

www.jdrcables.com

Please Note:

- Firm for the period of the contract
- Including JDR standard FAT procedure (Factory Acceptance Test)
- All prices in US Dollars/, net, F.O.B Monterey, CA USA
- Tolerance on delivered length +- 4%.

Payment terms: 30% ARO. Net 30 days.
70% at shipment. Net 30 days.

Validity: 15 days from date of quotation, thereafter will be subject to our confirmation in writing.

Above offer is subject to JDR Cable Systems standard terms and conditions of sale, copy available on request.

We trust that our offer meets with your approval and look forward to your order this week. In the meantime, should you require any further information, please do not hesitate to contact us.

For the latest news and to find out more about our commitment to Service, you can visit our website at

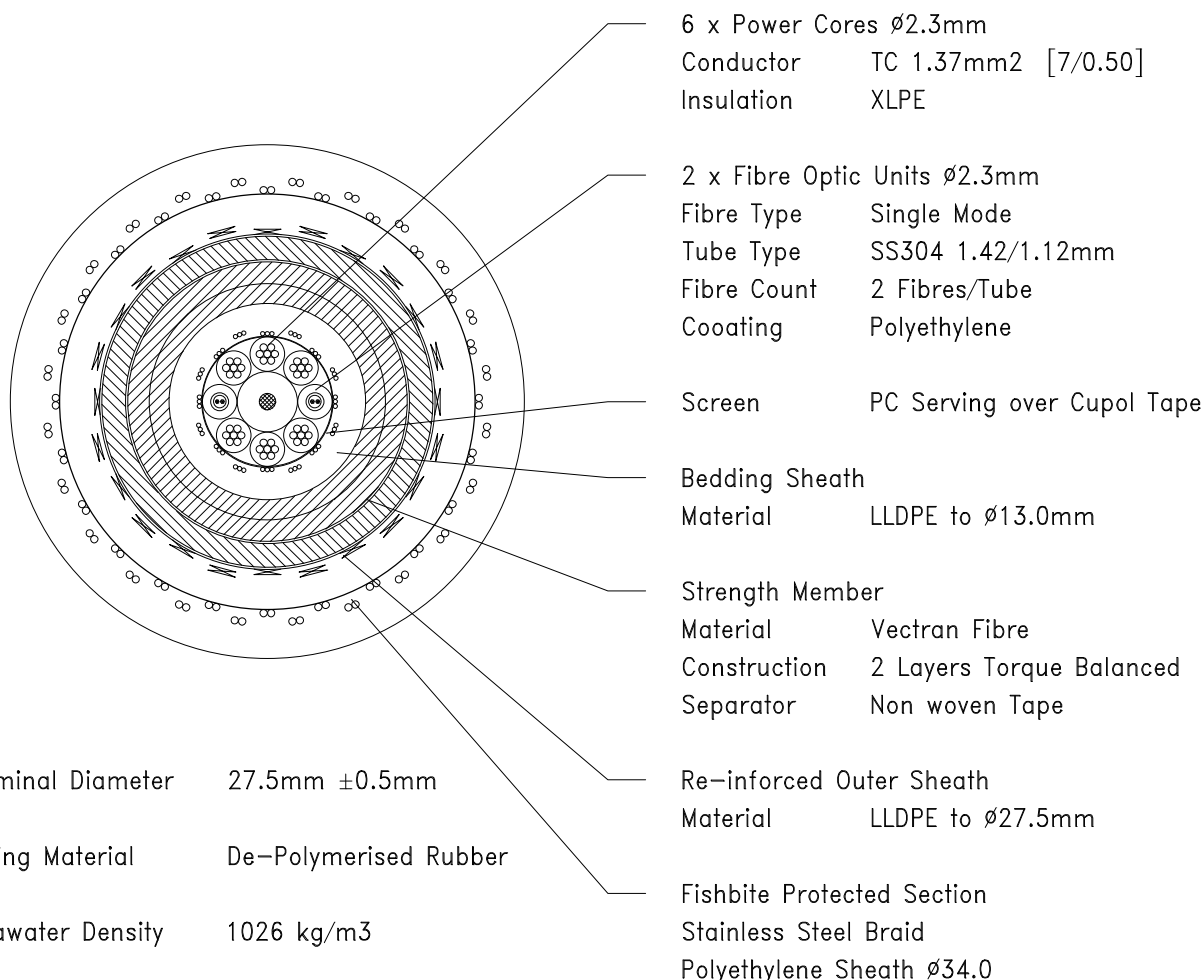
www.jdrcables.com

Cable Specification Sheet

TITLE MOOS System Riser Cable

ART. No. 010 A 099 REV. 1A DATE 24/07/03 RFQ. :

Values are corrected for the overlength of the elements.



Electrical Properties :

Components	Rcond	Rinsul 500V DC	Voltage Rating U ₀ /U	High Volt DC Test V ₀ /V
	Ohm/km	Mohm.km	kV	kV
PC 1.37 mm ²	15	> 3000	0.5/0.5	5/5

Properties – Fishbite Protected Section

Nominal Diameter	34.0 mm
Length	700 m
Weight in Air	1150 kg/km
Weight in Sea	220 kg/km

Mechanical Properties : Riser Cable

Breaking strength	Bending radius	Specific Density	Weight calculated	
minimum	dynamic	calculated	air	seawater
kN	mm	SG	kg/km	kg/km
245	500	–	685	75

Optical Properties :

Component	Mode	Dispersion 1300/1550 pS/nm.km	Attenuation 1300/1550 dB/km
9.5/125/250	single	3/18	0.5/0.3

Drawn by:

Phil Roscoe

Approved by:

DRAFT for INFO

Scale N.T.S.



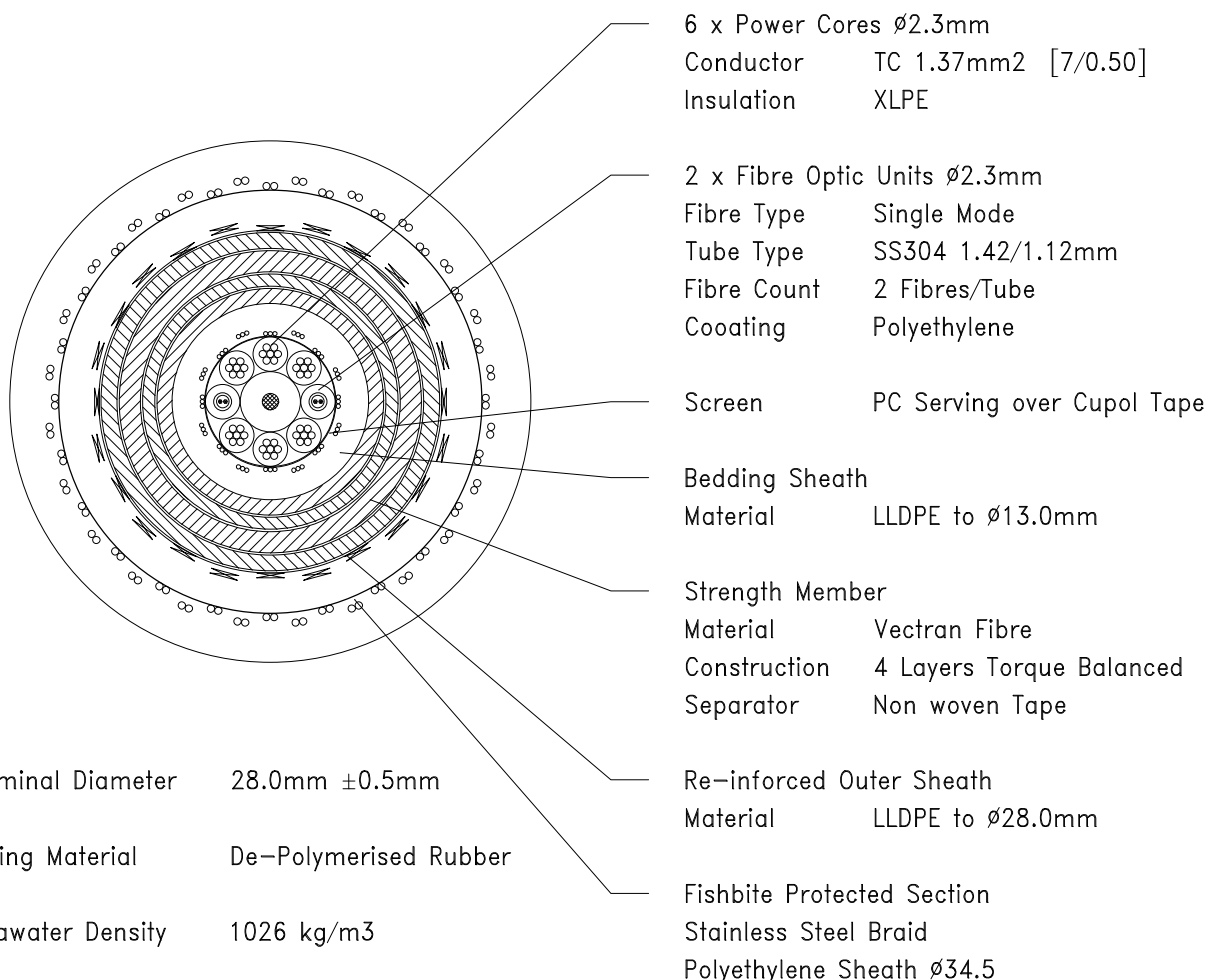
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Cable Specification Sheet

TITLE MOOS System Riser Cable

ART. No. 010 A 099 REV. 1B DATE 24/07/03 RFQ. :

Values are corrected for the overlength of the elements.



Electrical Properties :

Components	Rcond	Rinsul 500V DC	Voltage Rating U ₀ /U	High Volt DC Test V ₀ /V
	Ohm/km	Mohm.km	kV	kV
PC 1.37 mm ²	15	> 3000	0.5/0.5	5/5

Properties – Fishbite Protected Section

Nominal Diameter	34.5 mm
Length	700 m
Weight in Air	1170 kg/km
Weight in Sea	210 kg/km

Mechanical Properties : Riser Cable

Breaking strength	Bending radius	Specific Density	Weight calculated	
minimum	dynamic	calculated	air	seawater
kN	mm	SG	kg/km	kg/km
245	500	–	700	65

Optical Properties :

Component	Mode	Dispersion 1300/1550 pS/nm.km	Attenuation 1300/1550 dB/km
9.5/125/250	single	3/18	0.5/0.3

Drawn by:

Phil Roscoe

Approved by:

DRAFT for INFO

Scale N.T.S.



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