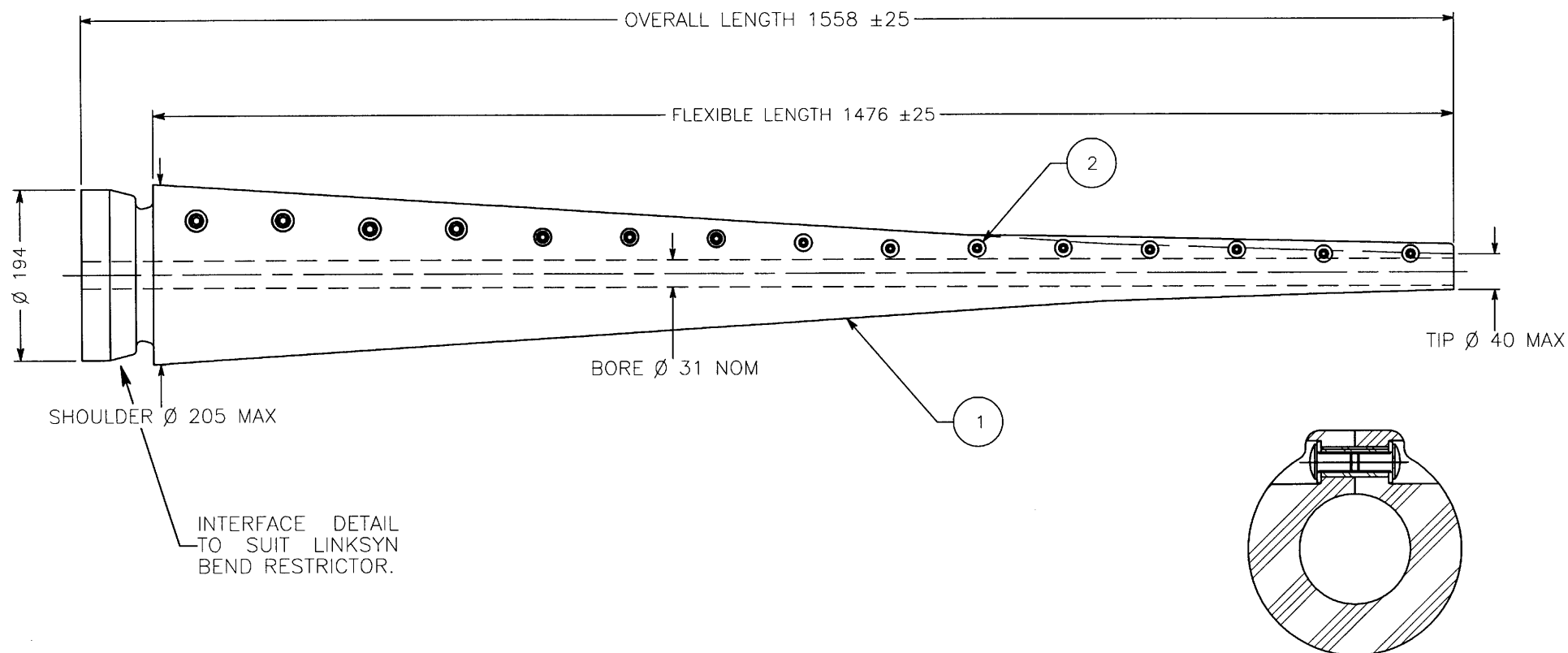




ENLARGED SECTION THROUGH
TYPICAL FASTENER POSITION.
HEADS RECESSED TO PROTECT
ADJACENT TURNS OF CABLE
WHEN SPOOLED.

NOTES;

MATERIAL – FLEXIBLE COMPONENT : POLYETHER BASED POLYURETHANE, COLOUR ORANGE.

SPLIT LINE INSERT TUBES : STAINLESS STEEL, 316L.

FASTENERS : BUTTON HEAD CAP SCREWS, STAINLESS STEEL A4-50 MIN.

APPROX WEIGHT

IN AIR – 21 KGS
IN WATER – 2 KGS

OCP Cable Protection Ltd
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COMPANY REG. No. 2391144

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DOCUMENT No. DES003/1 A4 ISSUE 3

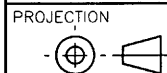
REMOVE ALL BURRS BUT LEAVE CORNERS SHARP
UNLESS OTHERWISE STATED
SURFACE FINISH – N7 UNLESS OTHERWISE STATED

N No.	N5	N6	N7	N8	N9
MICROINCH	16	32	63	125	250
MICROMETER	0.4	0.8	1.6	3.2	6.3

GENERAL TOLERANCES
UNLESS OTHERWISE
STATED

X = ± 1.00 MM
X.X = ± 0.50 MM
X.XX = ± 0.25 MM
X* = ± 0.5*
X.X* = ± 0.25*

SCALE
1:7 AT A4 SIZE



UNITS MM

ISS

DCN NO

AUTHOR

DATE

DRAWN

CHECKED

RELEASED BY

DATE

DATE

DATE

TITLE

MOULD ARRANGEMENT

– SPLIT BEND STIFFENER
– CAPTIVE INTERFACE
– Ø 31 NOM BORE SIZE

DRG NO

5559

ISS

1

SHEET

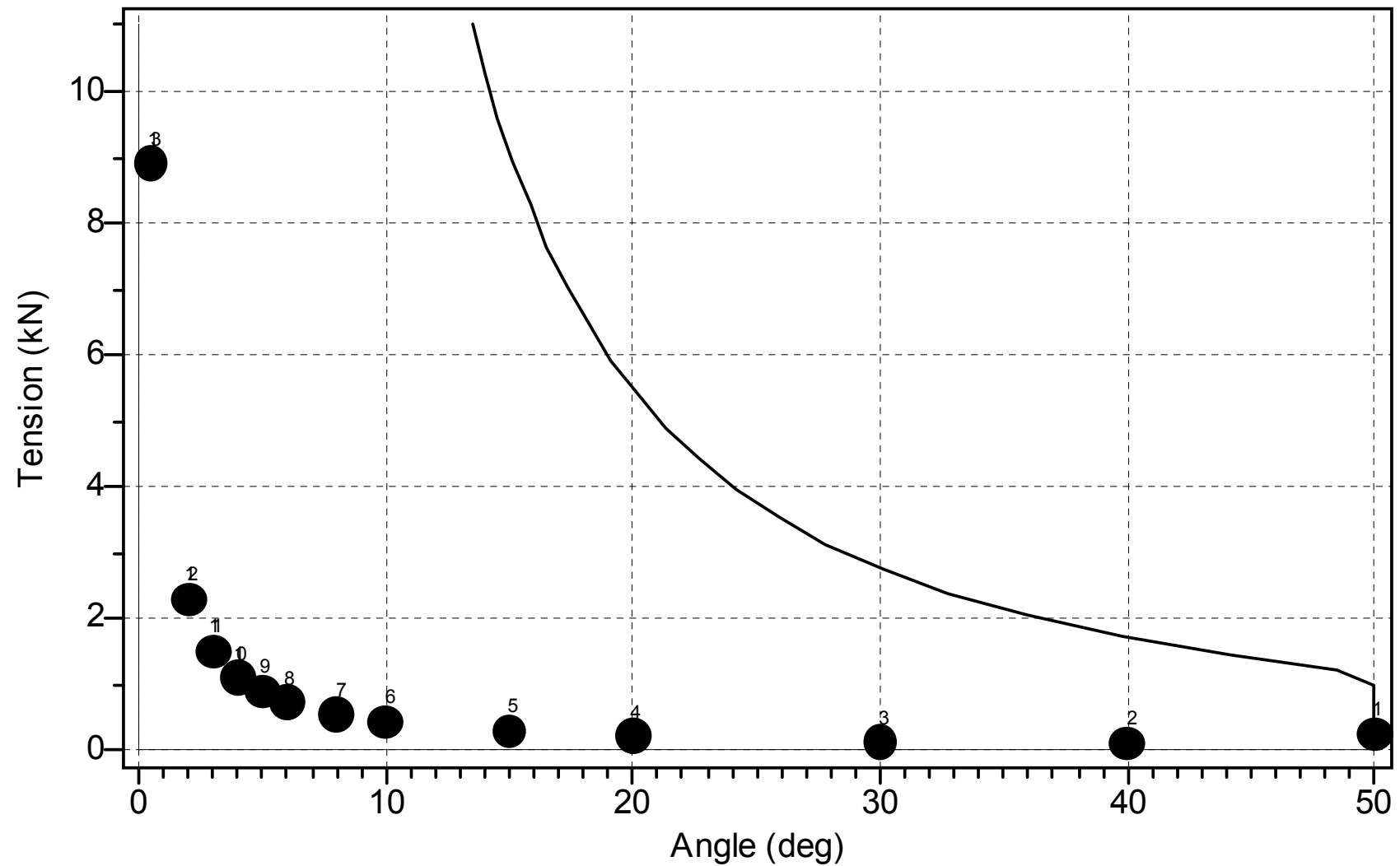
1 OF 2

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ITEM No.	No. OFF	MATERIAL	PART No.	DESCRIPTION
1	1	POLYURETHANE	5560	Ø 205 ROOT SPLIT BEND STIFFENER WITH A Ø 31 NOM BORE SIZE
2a	8	ST/ST 316L	3250	INSERT TUBE Ø 8 X 28 MM LONG
2b	1	ST/ST 316L	3250	INSERT TUBE Ø 12 X 52 MM LONG
2c	2	ST/ST 316L	3250	INSERT TUBE Ø 12 X 72 MM LONG
2d	2	ST/ST 316L	3250	INSERT TUBE 9/16" X 82 MM LONG
2e	1	ST/ST 316L	3250	INSERT TUBE 9/16" X 96 MM LONG
2f	1	ST/ST 316L	3250	INSERT TUBE 9/16" X 107 MM LONG
2g	16	ST/ST A4-50	3250	M 6 X 12 MM LONG BUTTON HEAD SCREW – TORQUE VALUE 2 Nm
2h	6	ST/ST A4-50	3250	M 8 X 12 MM LONG BUTTON HEAD SCREW – TORQUE VALUE 4 Nm
2i	8	ST/ST A4-50	3250	M 10 X 20 MM LONG BUTTON HEAD SCREW – TORQUE VALUE 8 Nm
2j	16	ST/ST A4	3250	M 6 X 3/4" DIA X 1.6 MM THICK WASHER
2k	6	ST/ST A4	3250	M 8 X 3/4" DIA X 1.6 MM THICK WASHER
2l	8	ST/ST A4	3250	M 10 FORM 'C' WASHER

OCP Cable Protection Ltd North Lonsdale Rd Ind Est, Ulverston, Cumbria, LA12 9DL, UK Tel +44 (0)1229 583914 Fax +44 (0)1229 581695 COMPANY REG. No. 2391144	THIS DRAWING AND THE INFORMATION AND DESIGNS ON IT ARE THE COPYRIGHT AND PROPERTY OF OCP CABLE PROTECTION LTD, AND MUST NOT BE COPIED IN WHOLE OR IN PART OR CONVEYED TO ANY THIRD PARTY WITHOUT THE WRITTEN CONSENT OF OCP CABLE PROTECTION LTD DOCUMENT No. DES003/1 A4 ISSUE 3					GENERAL TOLERANCES UNLESS OTHERWISE STATED X = ± 1.00 MM X.X = ± 0.50 MM X.XX = ± 0.25 MM X* = ± 0.5* X.X* = ± 0.25*		SCALE NOT TO SCALE		ISS	DCN NO	AUTHOR	DATE	TITLE PARTS LIST - SPLIT BEND STIFFENER - CAPTIVE INTERFACE - Ø 31 NOM BORE SIZE																
	REMOVE ALL BURRS BUT LEAVE CORNERS SHARP UNLESS OTHERWISE STATED SURFACE FINISH – N7 UNLESS OTHERWISE STATED					PROJECTION 		DRAWN FRT	DATE 05-02-04																					
								CHECKED P. Pearson	DATE 05-02-04																					
	<table><tr><td>N No.</td><td>N5</td><td>N6</td><td>N7</td><td>N8</td><td>N9</td></tr><tr><td>MICROINCH</td><td>16</td><td>32</td><td>63</td><td>125</td><td>250</td></tr><tr><td>MICROMETER</td><td>0.4</td><td>0.8</td><td>1.6</td><td>3.2</td><td>6.3</td></tr></table>					N No.	N5	N6	N7	N8	N9	MICROINCH	16	32	63	125	250	MICROMETER	0.4	0.8	1.6	3.2	6.3	UNITS MM		RELEASED BY P. Pearson	DATE 05-02-04	DRG NO 5559	ISS 1	SHEET 2
N No.	N5	N6	N7	N8	N9																									
MICROINCH	16	32	63	125	250																									
MICROMETER	0.4	0.8	1.6	3.2	6.3																									

OrcaBend: J2316#1 (Linksyn).obd (modified 14:44 on 19/12/03)



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OCP CABLE PROTECTION LTD

J2316-DESIGN SUMMARY-001

Orcabend Run No. :	J2316#1	Date :	19 th December 2003
Enquiry No. :	E2385	Customer :	MBARI – Via CRP Group
Job No. :	J2316	Project :	Moos Mooring System

Introduction

OCP have been requested to provide cable protection to work in conjunction with the CRP Linksyn system.

Reference Documents

1. "CRP_Design_Specifics", Rev 1.0 - 5 Dec 2003, emailed from Andrew Hamilton – Dated 09/12/03.
2. "11550 MBARI Schedule.xls", emailed to Andrew Hamilton – Dated 03/12/03

Properties of Flexible

Outside Diameter	28	mm	with a	N/A	mm	tolerance
Minimum Bend Radius	1,000	mm	(stored)	N/A	mm	(operational)
Stiffness	0.015 Est'	KNm ²	(min.)	0.05 Est'	KNm ²	(max.)

Duty and Environmental Conditions

Load Cases

Tension (kN)	Angle °	Tension (kN)	Angle °
1000/θ	See Chart		

Deployed in **air / water** (*delete as applicable*)
Both air and water.

Temperature 0° °C (min)
 23° °C (max)

Design Parameters

P.U. Code OCP 009

Key Dimensions

— Root O/D	205	mm	(max.)
— Flexible Length	1476	mm	(nom.)
— Tip O/D	40	mm	(nom.)
— Bore	30	mm	(nom.)

Bolt Details

— Size	N/A
— Material	Stainless Steel A4-50 Min
— Quantity	N/A
— P.C.D	N/A Split Bend Stiffener mm