Termination .680 Trawl Wire

Posted on September 16, 2010

Originated From: Andrew Woogen (MLML) on Wed, 15 Sep 2010

Can anyone recommend an effective method for terminating the conducting .680in trawl wire?

Can anyone recommend a compact design for mounting a pressure sensor to the termination to allow for real time depth readings?

Thank You,

Andrew

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Andrew Woogen
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Reply From: Rob Hagg (UW) on Wed, 15 Sep 2010

Andrew,

We use poured terminations with the .680. I may have a drawing of one you can have made. If I find it, i'll pass it along.

Re depth of the package. I would put a 12kHz pinger on the wire above the package, say 50-100 up the wire depending on what your deploying. The use your sub-bottom profiler (Knudsen in most cases) and set it to "Pinger mode".

You will see a trace on the Knudsen for the bottom and often the package on the wire itself. By counting the crossings of the bottom you'll be able to tell when you package is nearing the bottom.

If you need specific depths real time, then it will depend on the

device your deploying.

There are a number of ways you can rig things to either get a post cast history of depth, or realtime depending on what your attaching to the end of the cable.

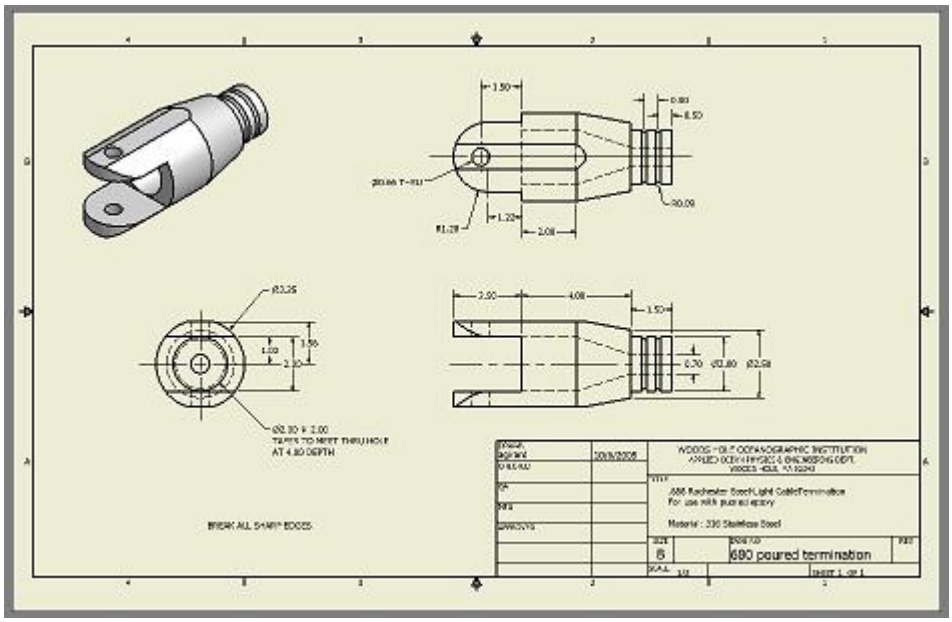
Cheers,

Rob

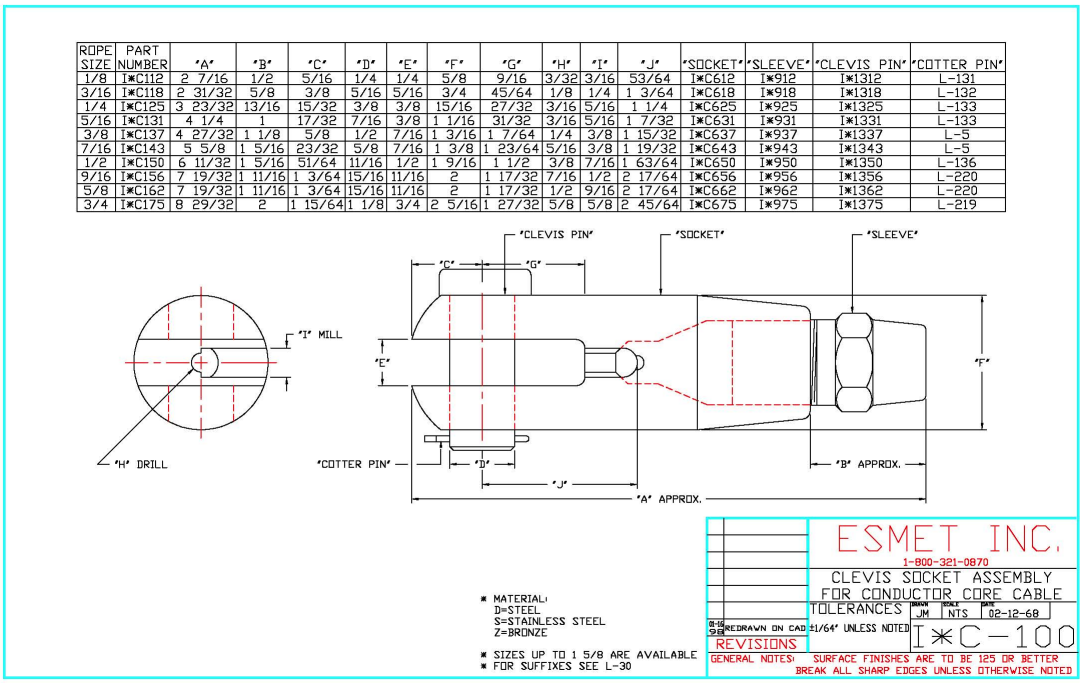
Reply From: William M. Byamon Thu, 16 Sep 2010

Rob,
Is this .680 or .681 fiber optic? We purchased the attached termination for our new .681 fiber optic cable but have not installed as yet. Any information others might have on the .681 fiber optic wire would be appreciated.

Bill



Higher Res: 680PouredTermination.bmp (1.68 MB)



ROPE SIZE	PART NUMBER	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"I"	"J"	"SOCKET"	"SLEEVE"	"CLEVIS PIN"	"COTTER PIN"
1/8	I*C112	2 7/16	1/2	5/16	1/4	1/4	5/8	9/16	3/32	3/16	53/64	I*C612	I*912	I*1312	L-131
3/16	I*C118	2 31/32	5/8	3/8	5/16	5/16	3/4	45/64	1/8	1/4	1 3/64	I*C618	I*918	I*1318	L-132
1/4	I*C125	3 23/32	13/16	15/32	3/8	3/8	15/16	27/32	3/16	5/16	1 1/4	I*C625	I*925	I*1325	L-133
5/16	I*C131	4 1/4	1	17/32	7/16	3/8	1 1/16	31/32	3/16	5/16	1 7/32	I*C631	I*931	I*1331	L-133
3/8	I*C137	4 27/32	1 1/8	5/8	1/2	7/16	1 3/16	1 7/64	1/4	3/8	1 15/32	I*C637	I*937	I*1337	L-5
7/16	I*C143	5 5/8	1 5/16	23/32	5/8	7/16	1 3/8	1 23/64	5/16	3/8	1 19/32	I*C643	I*943	I*1343	L-5
1/2	I*C150	6 11/32	1 5/16	51/64	11/16	1/2	1 9/16	1 1/2	3/8	7/16	1 63/64	I*C650	I*950	I*1350	L-136
9/16	I*C156	7 19/32	1 11/16	1 3/64	15/16	11/16	2	1 17/32	7/16	1/2	2 17/64	I*C656	I*956	I*1356	L-220
5/8	I*C162	7 19/32	1 11/16	1 3/64	15/16	11/16	2	1 17/32	1/2	9/16	2 17/64	I*C662	I*962	I*1362	L-220
3/4	I*C175	8 29/32	2	1 15/64	1 1/8	3/4	2 5/16	1 27/32	5/8	5/8	2 45/64	I*C675	I*975	I*1375	L-219

Higher Res: IC-100-Model (1).pdf

Reply From: Andrew Woogen (MLML) on Thu, 16 Sep 2010

Thank you to everyone for the responses.

Our wire is .680 with a co-ax core. Does anyone know of an underwater co-ax connector we could install on the termination to make our setup more versatile or has everyone just been sealing up the connection with scotch-coat and tape?

Any info on the electrical aspect of the .680in co-ax termination would help.

Thank you,

Andrew

Reply From: David O'Gorman (OSU) on Thu, 16 Sep 2010

I've seen some pretty slick underwater co-ax connectors from Fischer Connectors used on some equipment http://www.fischerconnectors.com/htm/Products-Part-Numbering.htm I've tried writing them a few times for application information and they haven't done the best at getting back, but their connectors really might be the tool for the job. I've seen them used on buoys and on a profiler operating in ~100M of water, but the design of the connector was such that it looked like it could go a fair bit deeper.

Dave

David O'Gorman
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