

# Universal Jointing Consortium

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### *Fiber Splicing Parameters - Compatibility of Fiber Alignment Methods*

With regard to the function of the fiber alignment method of the UJ fusion splicers, model UJS-S100R and UJS-S200, both the core alignment method and the fiber diameter alignment method are provided.

On occasion splicing yield has been improved using the fiber diameter alignment rather than the core alignment method with large effective area fibers (for example EX3000, Scuba125, Sumitomo Z+150). The specified fiber splicing parameters for each large effective area fiber combination listed in the Addendum 1 of UJCM065\_065/1 are compatible for use with either the core alignment method or the fiber diameter alignment method.

Although both alignment methods will indicate an estimated splicing loss on the screen of the fusion splicer, the accuracy of the estimated splicing loss of the fiber diameter alignment method is subject to core eccentricity and/or Mode Field Diameter (MFD) differences between the fibers being spliced, so the results of estimated splicing loss indicated may differ slightly from the estimated splicing loss obtained from the core alignment method.

If you have any queries concerning these changes, please contact the UJ Consortium Co-ordinator.

<b>Contacts for the UJC</b>	<b>General Matters</b>	<b>Technical Matters</b>
<b>UJC Coordinator</b>	Mr. Jon Reynolds E-mail: <a href="mailto:coordinator@ujconsortium.com">coordinator@ujconsortium.com</a>	Mr. Jon Reynolds E-mail: <a href="mailto:coordinator@ujconsortium.com">coordinator@ujconsortium.com</a>
<b>Alcatel Submarine Networks</b>	Mr. Pierre Gaillard E-mail: <a href="mailto:pierre.gaillard@asn.com">pierre.gaillard@asn.com</a>	Mr. Romuald Lemaitre E-mail: <a href="mailto:romuald.lemaitre@asn.com">romuald.lemaitre@asn.com</a>
<b>Global Marine</b>	Mr. Craig Beech E-mail: <a href="mailto:craig.beech@globalmarine.co.uk">craig.beech@globalmarine.co.uk</a>	Mr. Craig Beech E-mail: <a href="mailto:craig.beech@globalmarine.co.uk">craig.beech@globalmarine.co.uk</a>
<b>Kokusai Cable Ship Co., Ltd.</b>	Mr. Tatsuya Shimobachi E-mail: <a href="mailto:shimobac@k-kcs.co.jp">shimobac@k-kcs.co.jp</a>	Mr. Shuichiro Takeda E-mail: <a href="mailto:takeda@k-kcs.co.jp">takeda@k-kcs.co.jp</a>
<b>SubCom LLC</b>	Mr. James Jackson E-mail: <a href="mailto:jfjackson@subcom.com">jfjackson@subcom.com</a>	Mr. Joe Man E-mail: <a href="mailto:jman@subcom.com">jman@subcom.com</a>

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