Read me file for ‘Dataset for Fully integrated optical isolators for space division multiplexed (SDM) transmission’

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Data supports the publication:

Jung, Y., Wood, A., Jain, S., Sasaki, Y., Alam, S-U., & Richardson, D. (2018). Fully integrated optical isolators for space division multiplexed (SDM) transmission. APL Photonics.

The excel file contains experimental data for the paper. In particular:

Fig. 1: (b)The measured beam diameters of both LP01 and LP11 modes as a function of distance from the input fiber collimator and (c) the mode dependent coupling loss between two collimators.

Fig. 2: (a) The estimated modal purity based on temporal impulse response measurements from a pair of FMF collimators incorporated at the input to a 10 km length of FMF and (c) optical isolation of FMF isolator.

FIG. 3. (a) Mode dependent coupling loss as a function of distance between two 4-mode group fiber collimators and (b) impulse response from a pair of four mode group fiber collimators.

Fig. 5: (b) The measured core-to-core insertion loss variation of the isolator with ±0.2 dB measurement error.

If you would like the data in another form please contact [ymj@orc.soton.ac.uk](mailto:ymj@orc.soton.ac.uk)

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