

Abstracts

Studies on Designing of Submarine Optical Fiber Cable

N. Kojima, Y. Miyajima, Y. Murakami, T. Yabuta, O. Kawata, K. Yamashita and N. Yoshizawa. "Studies on Designing of Submarine Optical Fiber Cable." 1982 Transactions on Microwave Theory and Techniques 30.4 (Apr. 1982 [T-MTT] (Joint Special Issue on Optical Guided Wave Technology)): 579-586.

This paper describes important studies necessary to design submarine optical fiber cables. These include a study for deciding the optimum single-mode fiber parameters to suppress losses during cabling, cable laying, and so on. It also includes a study on the necessary fiber proof test conditions to prevent fiber breakage during cable handling, that is, during cable laying and recovery and to assure long-term fiber reliability. Submarine optical fiber cable sea trial results we also stated for cables designed applying these studies.

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