

Proposal of launching condition for frequency response measurement with GI-POF

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Launching condition for bandwidth measurement

- DMD method is applied for estimating fiber bandwidth with VCSELs that have different launching conditions.
- However, It may be difficult to apply DMD method for GI-POF, because maximum reach of GI-POF is limited only 15m.
- In order to check the effect of launching condition with GI-POF, frequency response measurements with three different launching conditions (Underfill launch, Restricted mode launch and Overfill launch) will be conducted by November plenary.
- Once launching condition dependence is defined, it will be applied as a worst case launching condition.

Launching condition		Incident position	Measurement item		
Underfill	SMF for 850 nm MDF: 5 μ m NA : 0.13	The center of the Core	NFP of POF	FFP of POF	Frequency response
		20 μ m away from the center of the Core			
RML	Launching condition defined by IEC61280-4-1	The center of the Core			
Overfill	SI-MMF Core Diameter : 50 μ m NA : 0.22	The center of the Core			

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