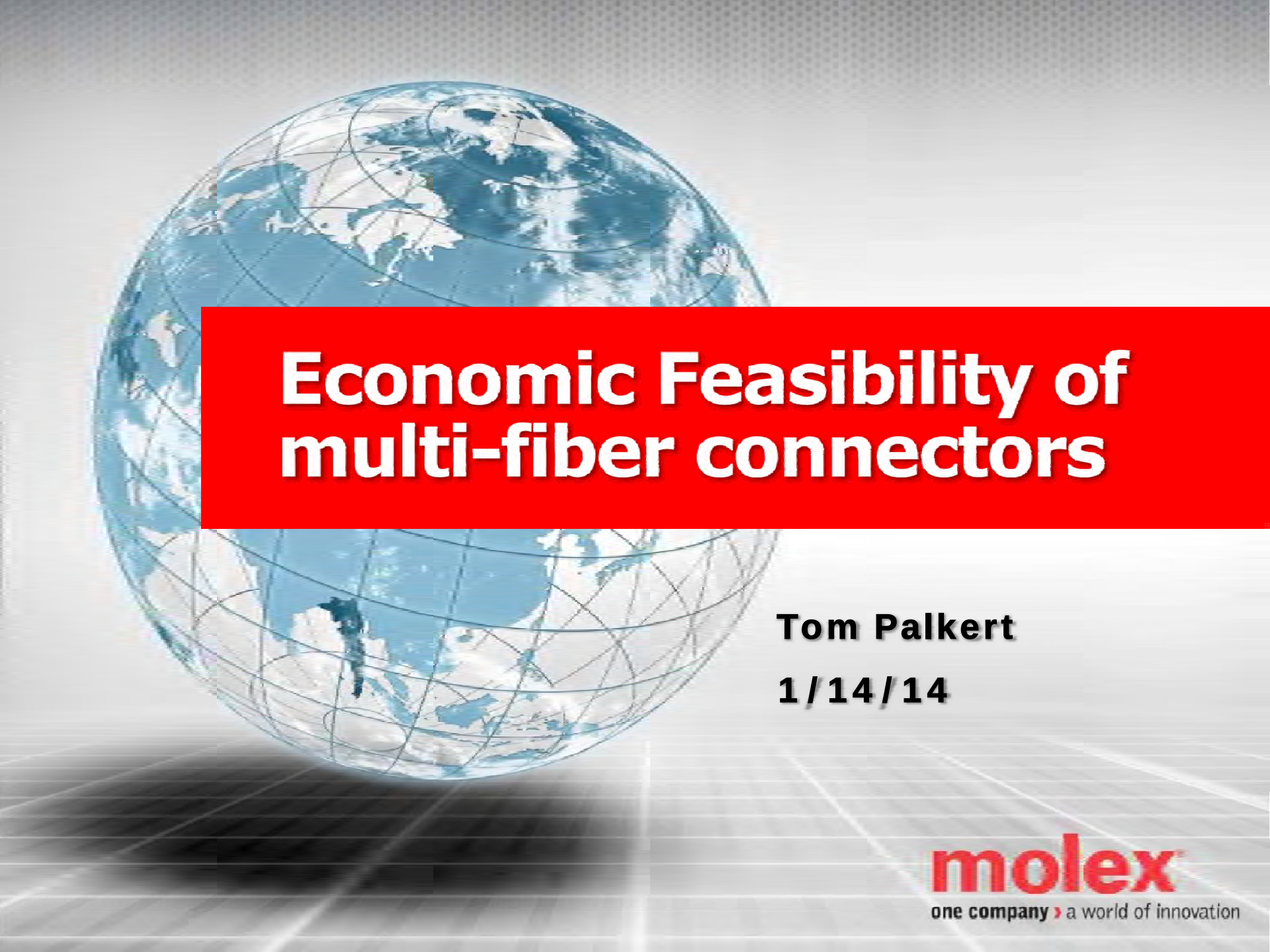

Economic Feasibility of multi-fiber connectors

Tom Palkert

1/14/14

molex

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Outline

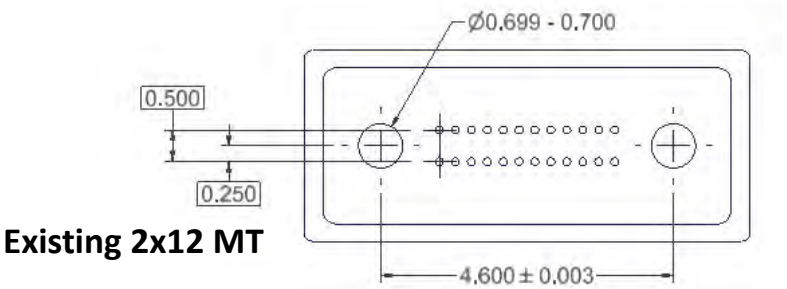
- Relative costs of 12F MPO vs 2x16F MPO
- 2x16F MPO connector examples
- Summary

Estimated Relative Cost Ratio: 12F MPO to Proposed 2x16 MPO

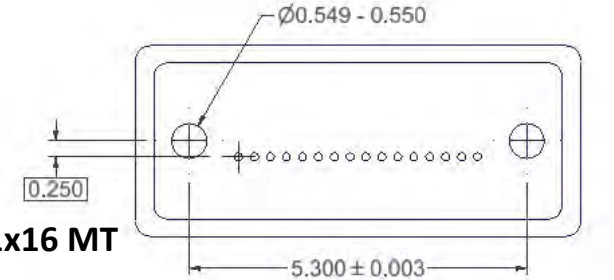
Cost drivers for 12F MPO	% of cost	1x12 base line	2x16 relative cost
Component Cost	25%	1	1.5
cable prep/termination	15%	1	2
Epoxy application / Curing	5%	1	1
Polishing	25%	1	1
Interferometry	10%	1	1
Testing/Inspection	20%	1	1.75
Weighted average		**1**	**1.43**
Per fiber relative termination cost		**1**	**0.53**

Proposed 2x16 Dimensions

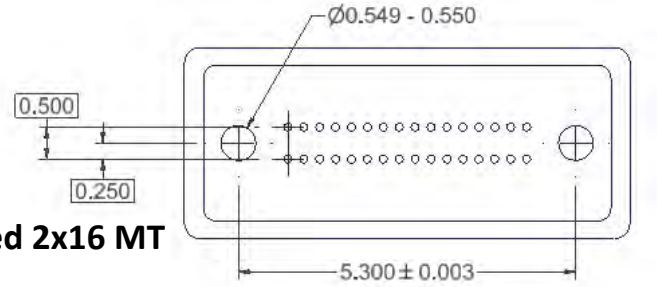
- Existing 24-fiber MT (2x12) already defined by TIA-604-5-D and IEC 61754-7
- New formats in process at TIA and IEC:
  - Smaller guide pin holes
  - Longer pitch between guide pin holes
  - Same Y-dimension for both 1x16 & 2x16 versions (i.e. potential backwards compatibility)



Existing 2x12 MT



Proposed 1x16 MT



Proposed 2x16 MT

Summary

- 2x16F MPO is economical feasible
- Standardization of 2x16F MPO is ongoing and should follow 2x12F MPO dimensions