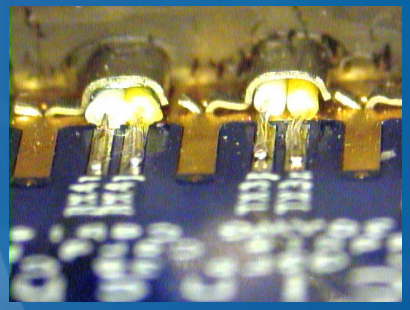
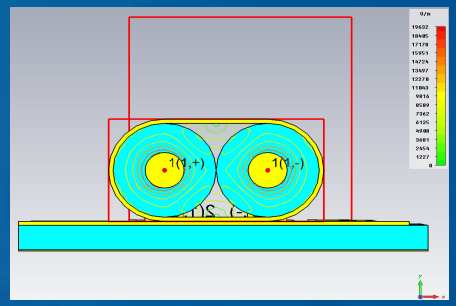
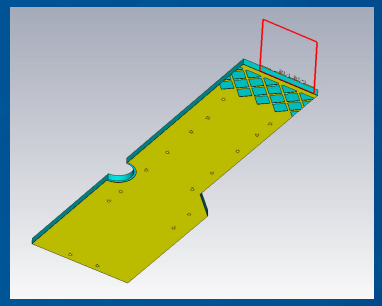
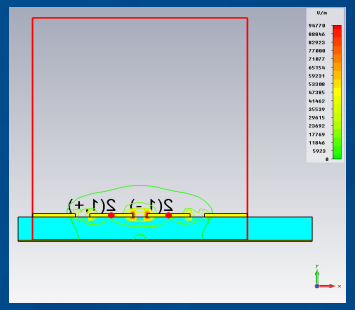
SC-10

Cinch High Speed Cables

- Cinch New FDR/EDR Cables
  - –Cinch PairShield™ & Extended Ground Bus Technologies Proven Vital For Upcoming FDR/EDR
  - –Cinch New FDR/EDR Paddle Card
  - –Cinch New EDR Cable Characteristics

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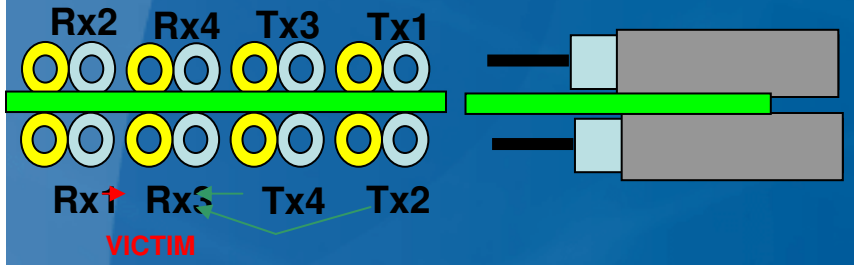
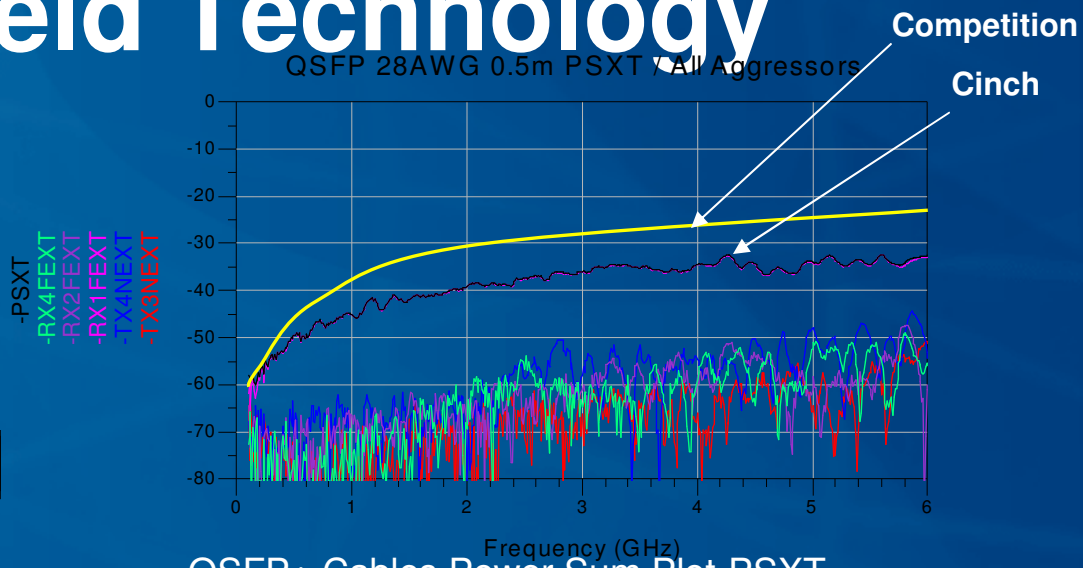
Cinch QSFP+ Extended Ground & PairShield Technology

The extended Paddle card Ground Plane virtually eliminates crosstalk from all cross card aggressors

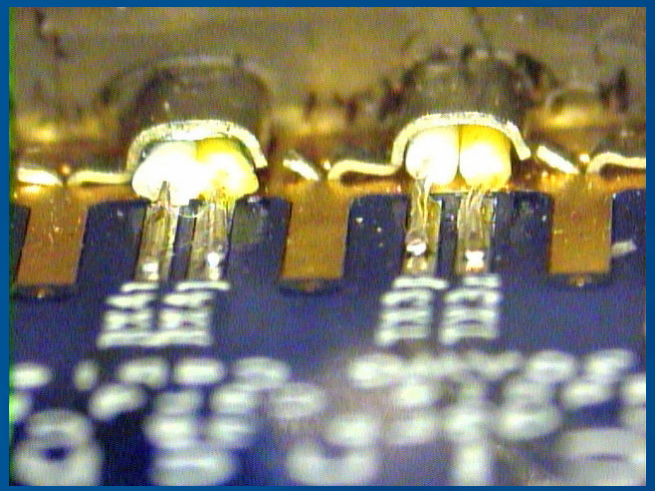




QSFP+ Cables Power Sum Plot-PSXT

Cinch PairShield™ Ground Clips

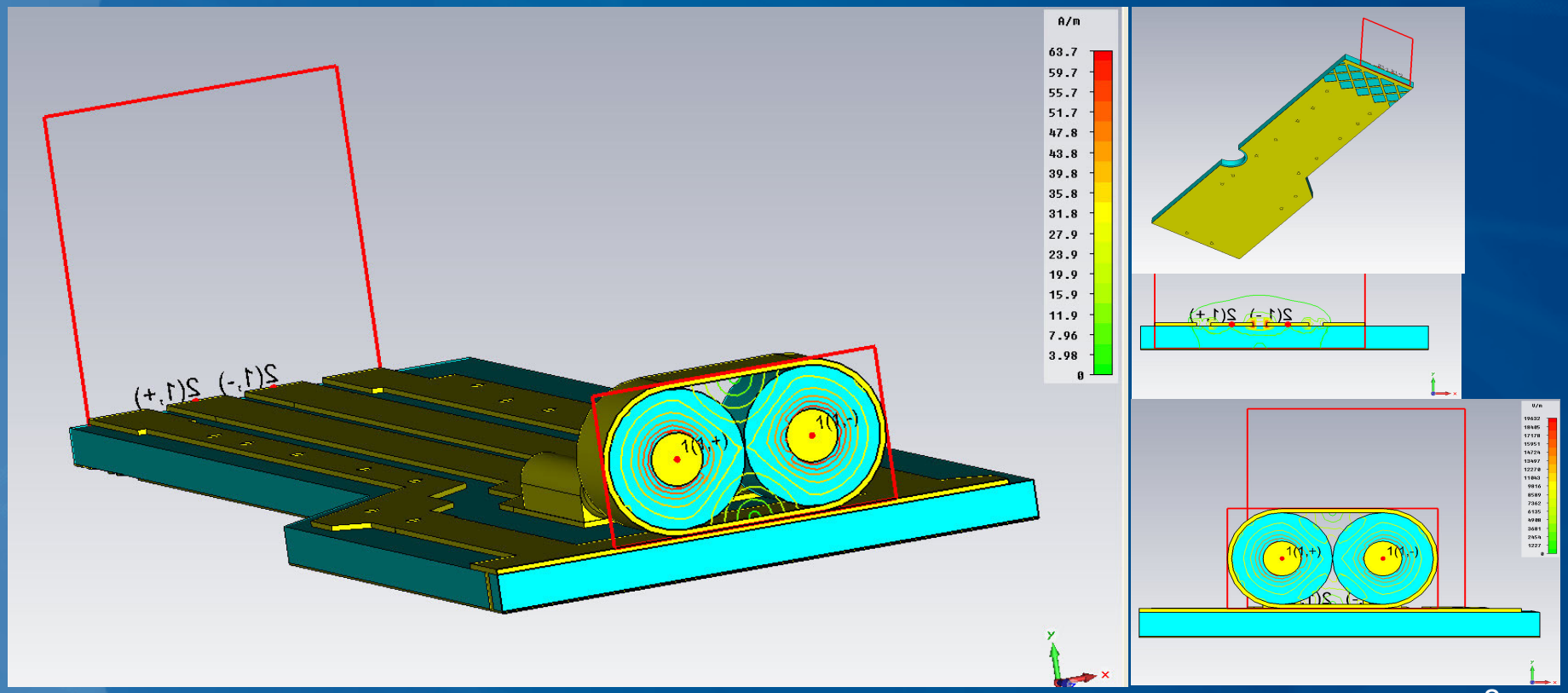
- Recovers Shield lost during Cable Prep.
- Reduces Cross Talk to Minimum
- Maintains Impedance Continuity



Cinch FDR/EDR Paddle Card

Cinch FDR/EDR Paddle Card Characteristics

- Optimized current QSFP+ Paddle Card Material and Trace Geometry to meet FDR/EDR performance objectives



Optimized FDR/EDR Paddle Card

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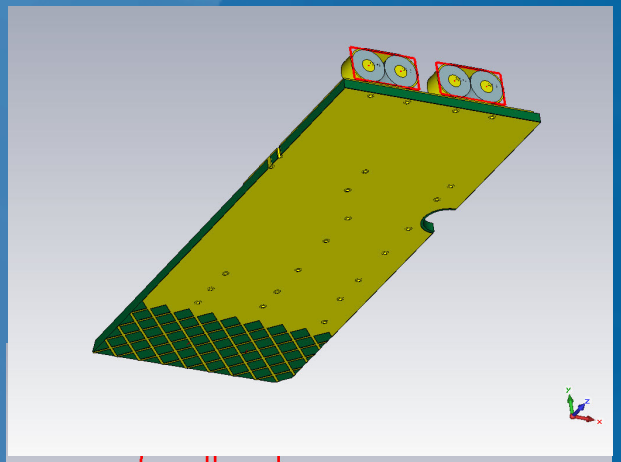
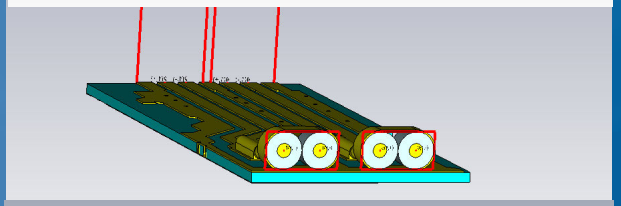
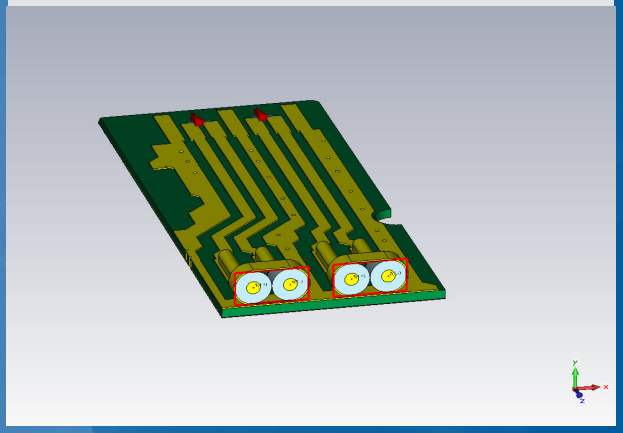
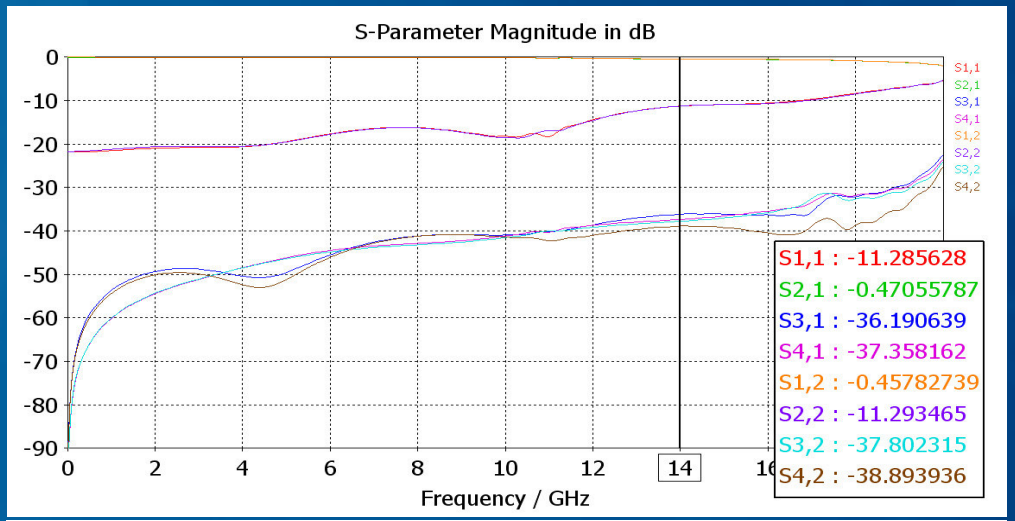
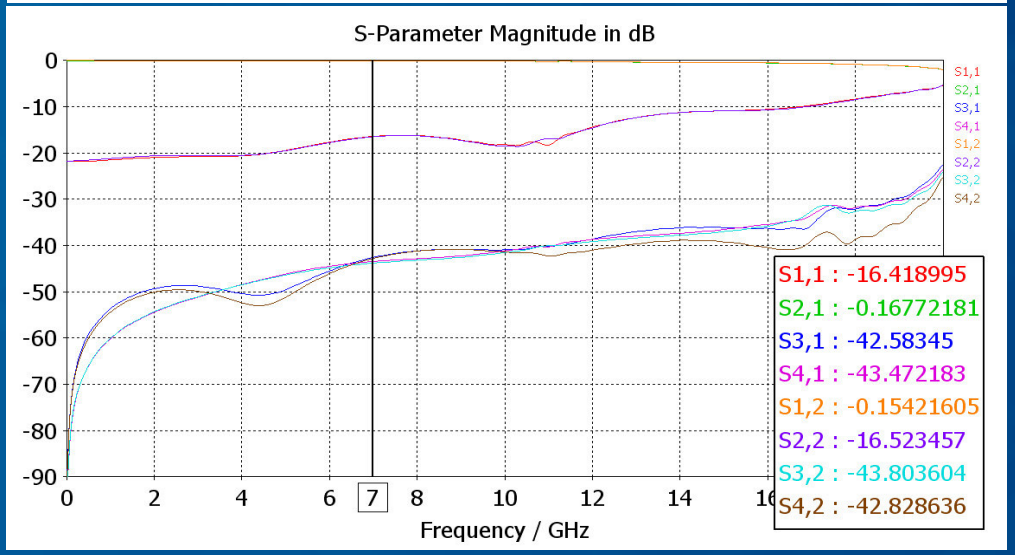
Cinch FDR/EDR Paddle Card











Dual Channel, Single Side - Optimized FDR/EDR Paddle Card

Cinch FDR/EDR Paddle Card

Cinch FDR/EDR Paddle Card Characteristics

- **Current QSFP+ vs. FDR/EDR terminated Paddle card Simulation results**

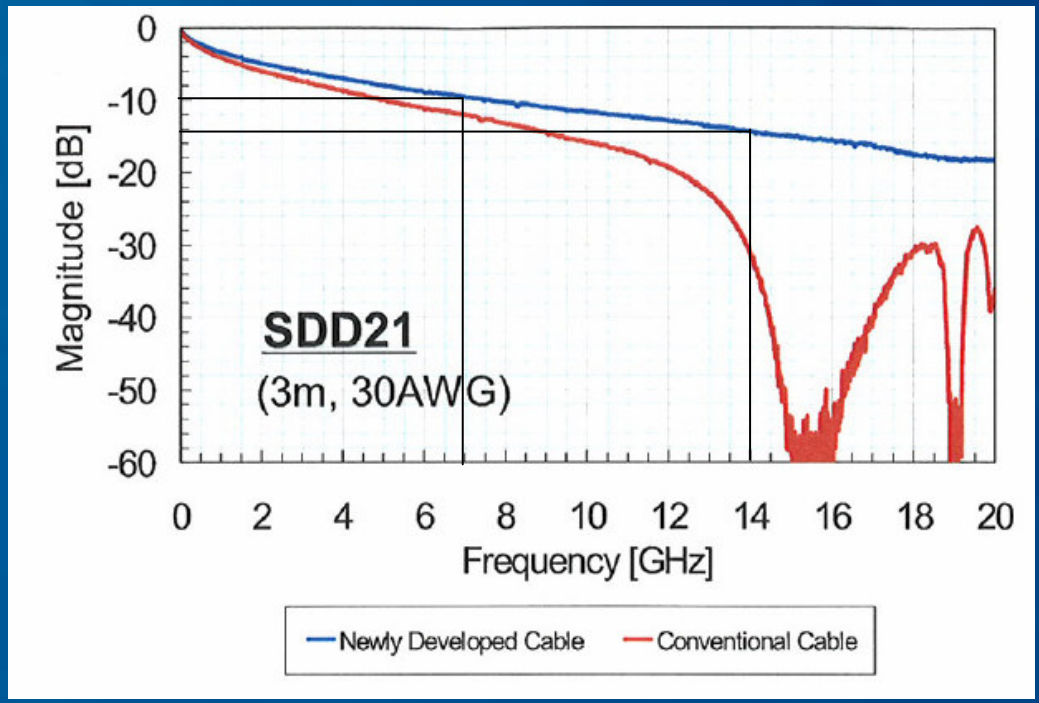
S Parameter	Current QSFP+ @ 7 GHz	Current QSFP+ @ 14 GHz	New FDR Card @ 7 GHz	New EDR Card @ 14 GHz
IL	-1 dB	-2 dB	-0.16 dB	-0.47 dB
RL	-15 dB	-6 dB	-16.4 dB	-11.3 dB
NEXT	-36 dB	-25 dB	-42 dB	-36.2 dB

Cinch FDR/EDR Cable

Cinch New FDR/EDR Cable Characteristics

30 AWG, 3m cable

- In Pair Skew < 6 p.s./m
- Insertion Loss <14dB/3m EDR
- Insertion Loss <10dB/3m FDR
- Suck Out Free > 20 GHz



Cinch FDR and EDR Cables will be Available for your Testing In March Of 2011

Thank You For Attending