CeeLok FAS-T Nano Circular - 10G Ethernet Test Data with Madison TurboTwin Cable

April 16, 2014
TE Lab Test EMEPRJ-11-4043-001
Rev 2

EVERY CONNECTION COUNTS

Contents

- Pinout
- Test samples
- Cable Plug and Cable Receptacle Insertion Loss, Return Loss, and NEXT
- Cable Plug and PCB Mount Receptacle Insertion Loss, Return Loss, and NEXT
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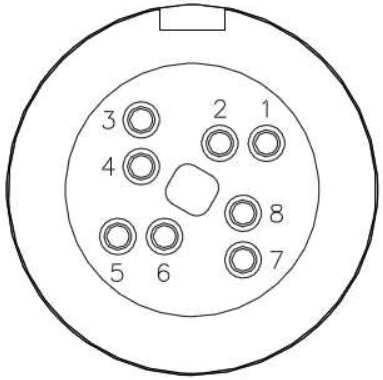
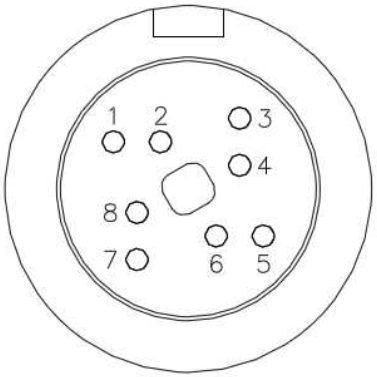
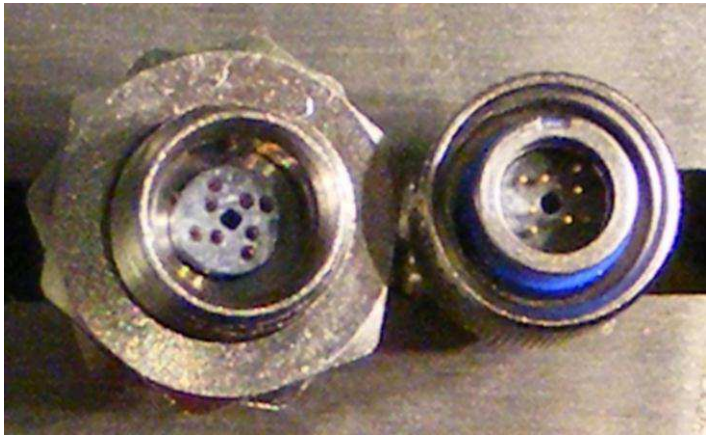
CeeLok FAS-T Nano Circular Pinout



Receptacle Mating Face



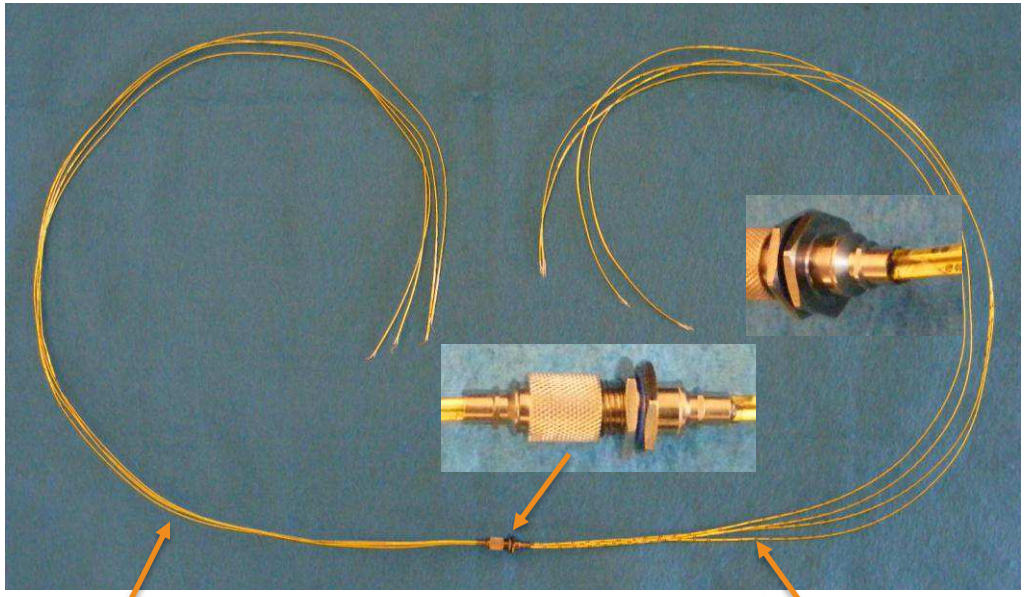
Plug Mating Face



CeeLok FAS-T Nano Circular Test Samples

- Terminated with 30AWG Madison TurboTwin Cable

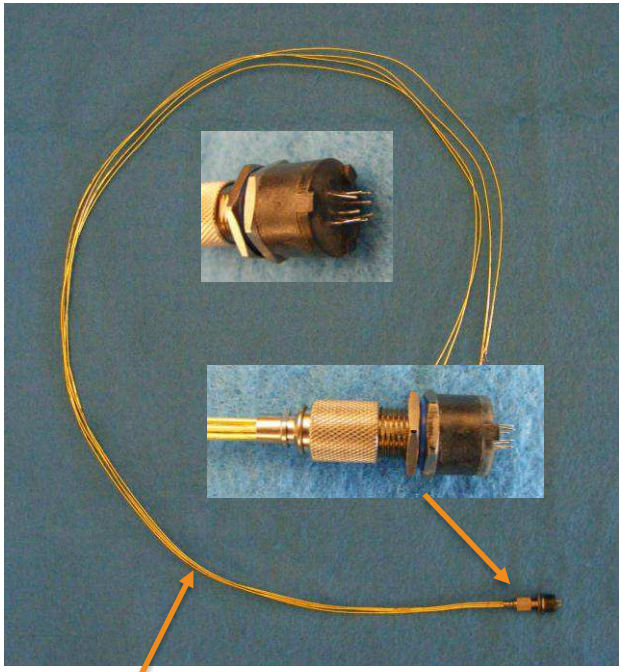
Cable Plug mated to Cable Receptacle



3 feet

3 feet

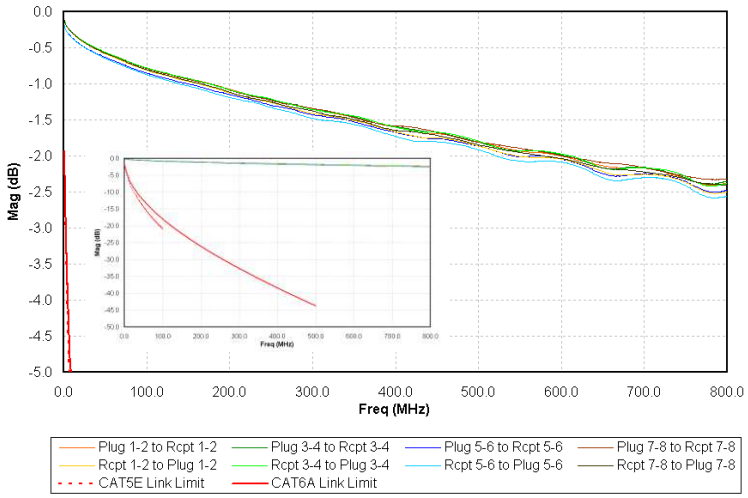
Cable Plug mated to PCB Receptacle



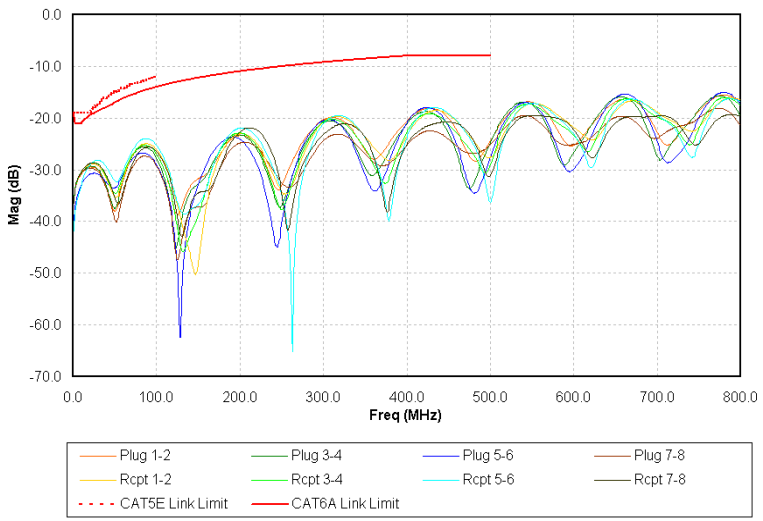
3 feet

CeeLok FAS-T Nano Circular Insertion Loss, Return Loss, and NEXT - Cable to Cable

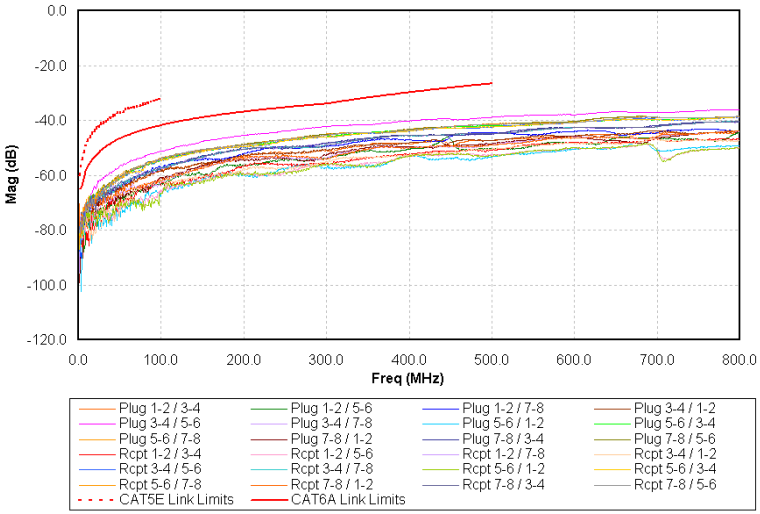
DIFFERENTIAL INSERTION LOSS

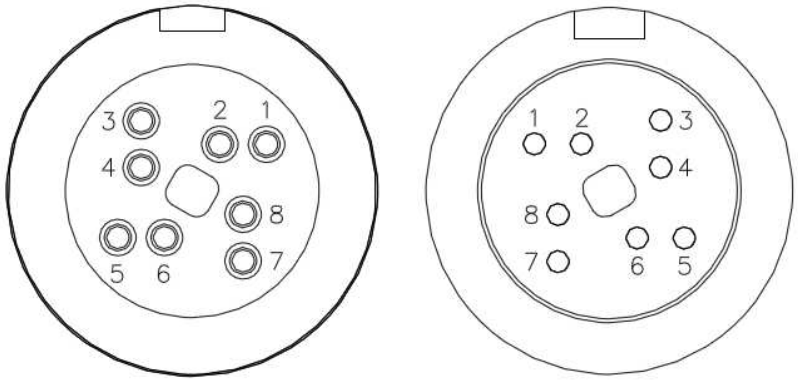


DIFFERENTIAL RETURN LOSS



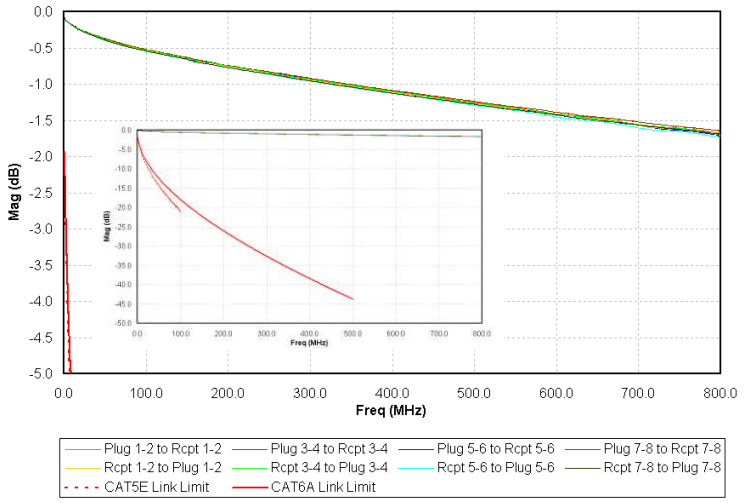
DIFFERENTIAL NEXT





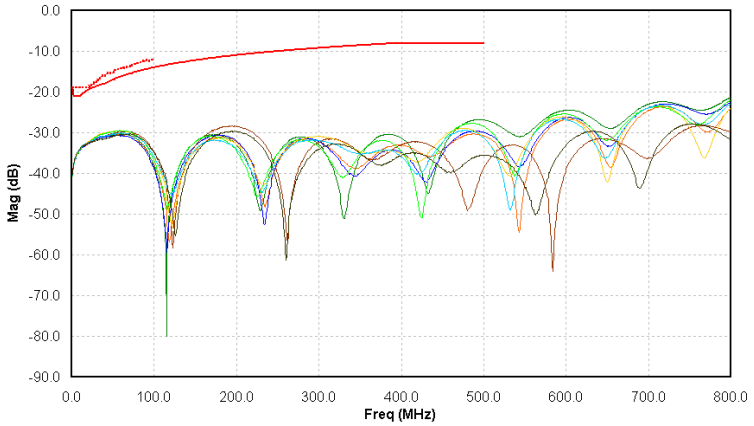
CeeLok FAS-T Nano Circular Insertion Loss, Return Loss, and NEXT - Cable to PCB

DIFFERENTIAL INSERTION LOSS



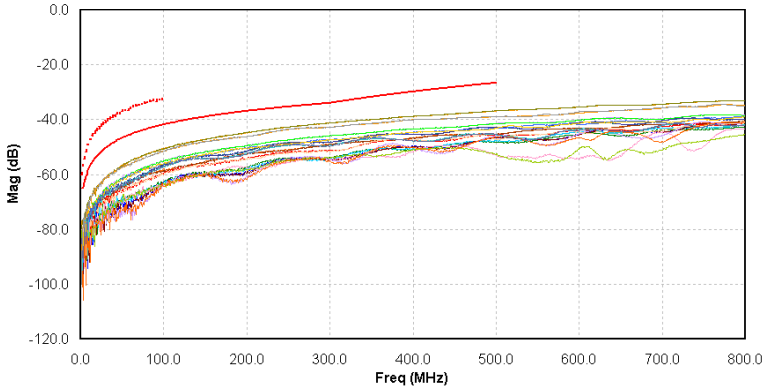
Plug 1-2 to Rcpt 1-2 | Plug 3-4 to Rcpt 3-4 | Plug 5-6 to Rcpt 5-6 | Plug 7-8 to Rcpt 7-8
Rcpt 1-2 to Plug 1-2 | Rcpt 3-4 to Plug 3-4 | Rcpt 5-6 to Plug 5-6 | Rcpt 7-8 to Plug 7-8
CAT5E Link Limit | CAT6A Link Limit

DIFFERENTIAL RETURN LOSS

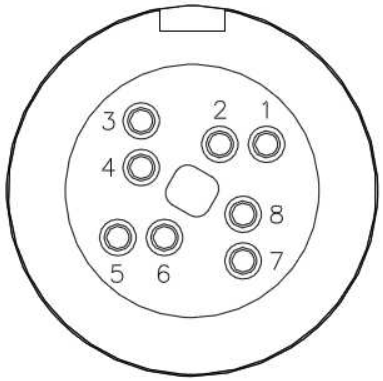


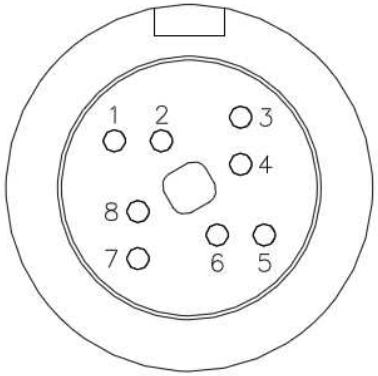
Plug 1-2 | Plug 3-4 | Plug 5-6 | Plug 7-8
Rcpt 1-2 | Rcpt 3-4 | Rcpt 5-6 | Rcpt 7-8
CAT5E Link Limit | CAT6A Link Limit

DIFFERENTIAL NEXT



Plug 1-2 / 3-4 | Plug 1-2 / 5-6 | Plug 1-2 / 7-8 | Plug 3-4 / 1-2
Plug 3-4 / 5-6 | Plug 3-4 / 7-8 | Plug 5-6 / 1-2 | Plug 5-6 / 3-4
Plug 5-6 / 7-8 | Plug 7-8 / 1-2 | Plug 7-8 / 3-4 | Plug 7-8 / 5-6
Rcpt 1-2 / 3-4 | Rcpt 1-2 / 5-6 | Rcpt 1-2 / 7-8 | Rcpt 3-4 / 1-2
Rcpt 3-4 / 5-6 | Rcpt 3-4 / 7-8 | Rcpt 5-6 / 1-2 | Rcpt 5-6 / 3-4
Rcpt 5-6 / 7-8 | Rcpt 7-8 / 1-2 | Rcpt 7-8 / 3-4 | Rcpt 7-8 / 5-6
CAT5E Link Limit | CAT6A Link Limit





Conclusion

- Both the Plug Cable to Receptacle Cable and Plug Cable to PCB Mount Receptacle CeeLok FAS-T Nano Circulars PASS 1G and 10G Ethernet

- Both configurations exhibit significant headroom beneath the CAT 6A Link Limits for Insertion Loss, Return Loss, and NEXT