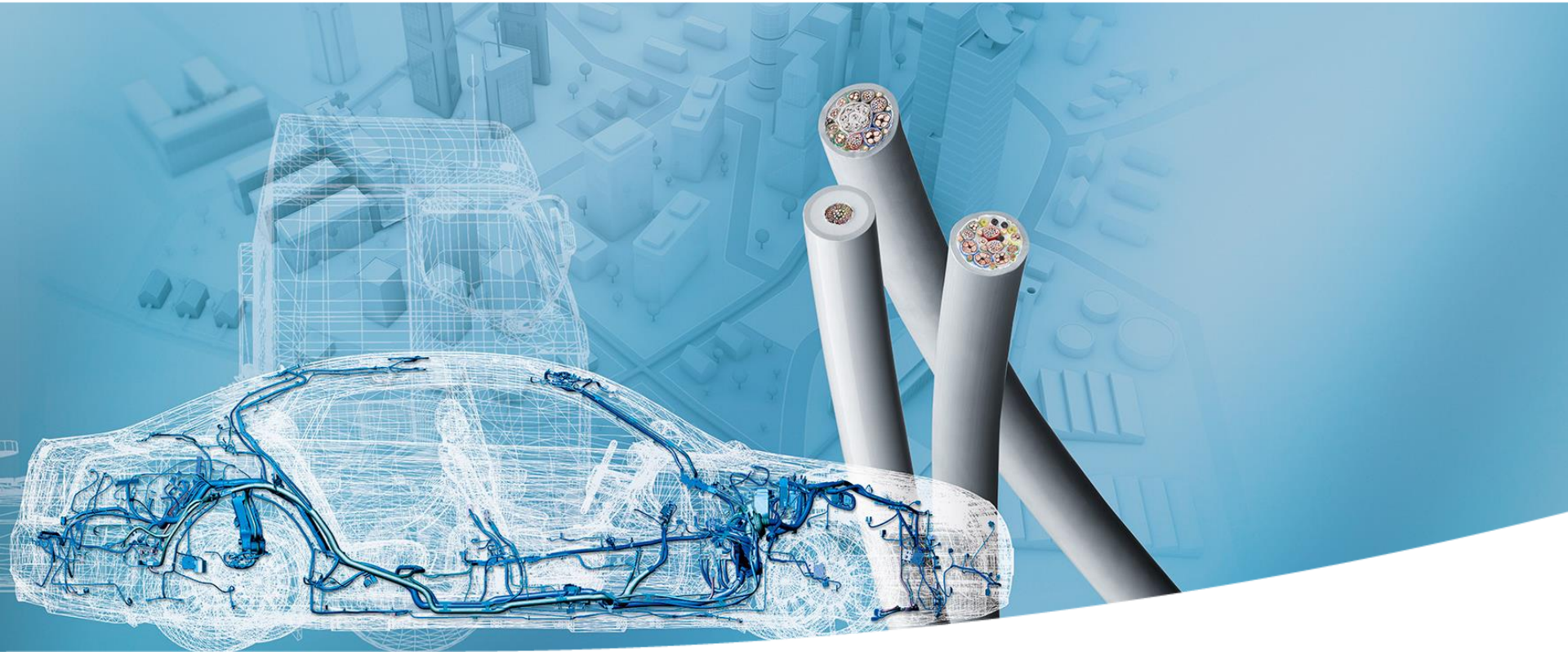


Balance measurements for 1000BASE-T1

R. Pöhmerer 09.10.2014 rainer.pohmerer@leoni.com

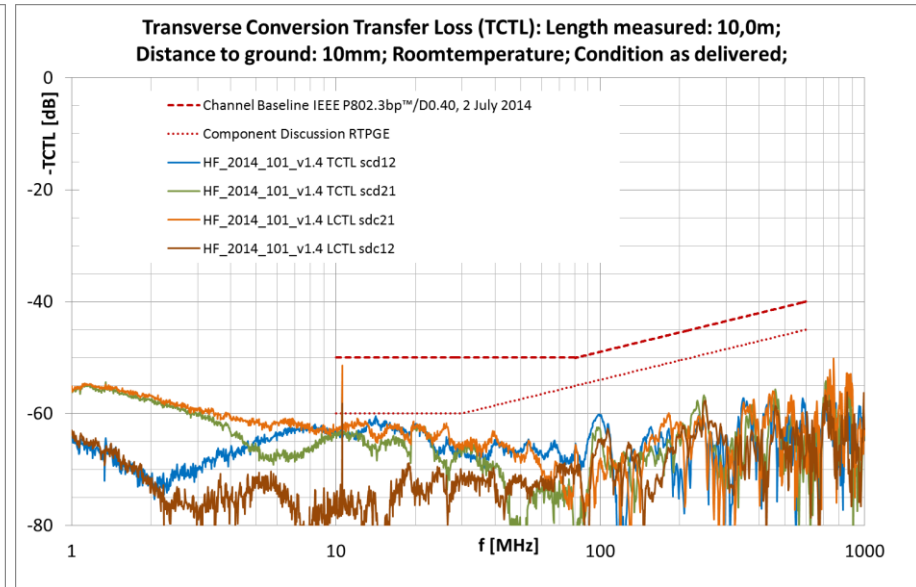
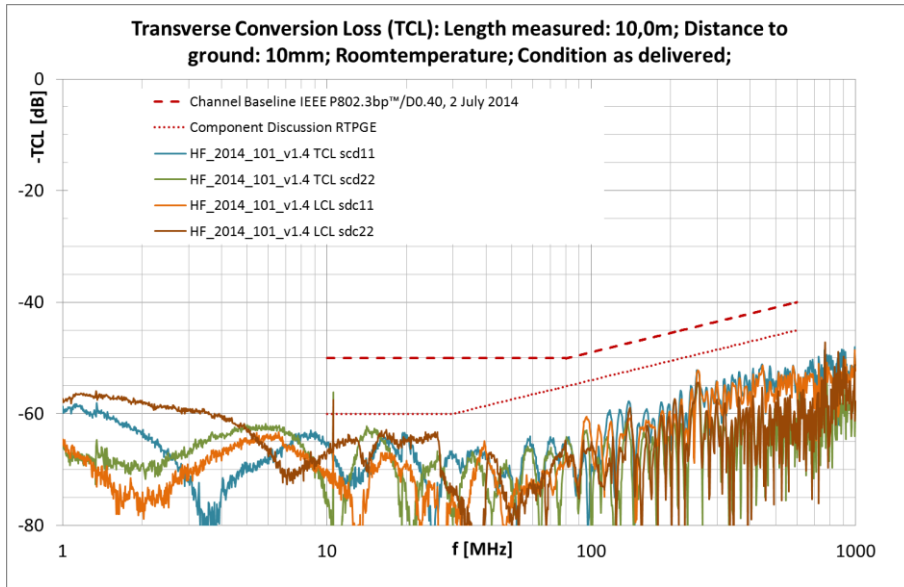


The Quality Connection

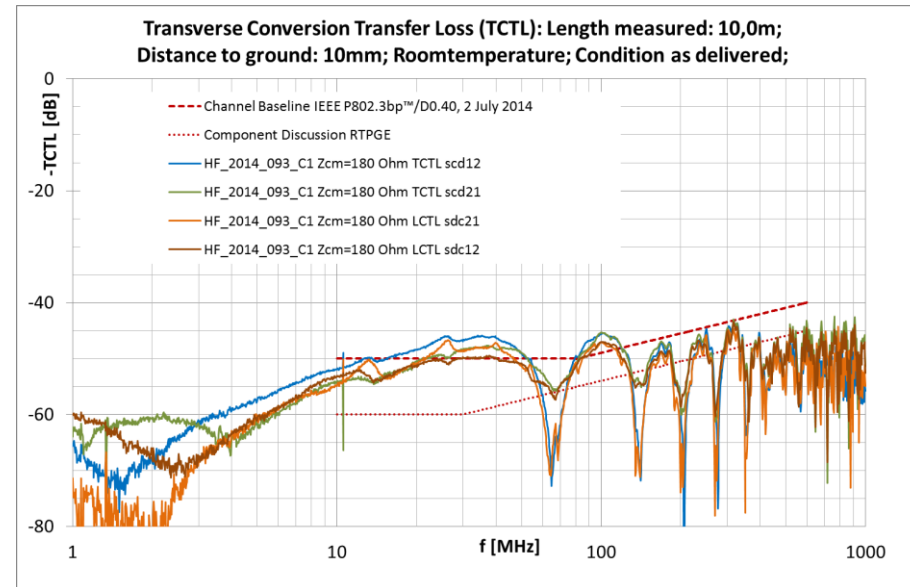
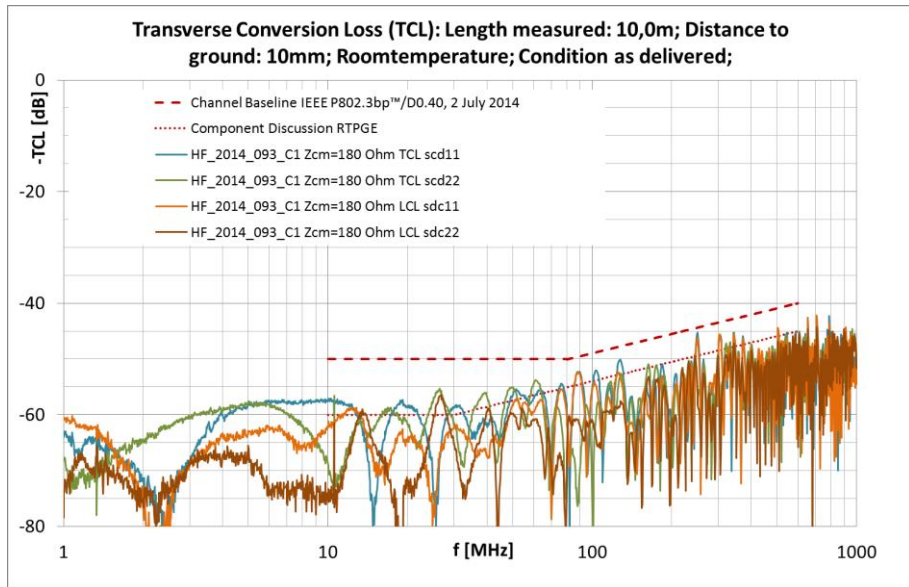
LEONI

- Rohde & Schwarz ZVA8
- Manual Calibration
- 1MHz..1HGHz, 1601 Pts, log
- Manual calibration UOSM
- Reference Impedance DM=100Ohm, CM= see graph (as measured by TDR)
- High balance testsetup
- Length of cable under test (CUT) 10,0m
- Distance to ground plane 10mm
- Balance (scd11/scd22) of testsetup incl. adaptor 10dB better than limit
- CUTsoldered directly to adaptor (no connector)

Scd vs sdc: high balance cable



Scd vs sdc: medium balance cable



Scd vs sdc: low balance cable (shielded, $Z_{cm}=25\Omega$)

