

Octo-Contact: The Superior Ethernet Contact System for MIL-DTL-38999, Series III



21-033425-461
Pin for 24 awg



21-033425-471
Socket for 24 awg



21-033425-481
Pin PCB Tail



21-033425-491
Socket PCB Tail

OVERVIEW

Eight strategically spaced inner contacts form four 100 Ohm matched impedance differential pairs.

FEATURES

- + Available in size 8 crimp termination style
- + Also available in PC Tails
- + Can be installed in existing size 8 Quadrax cavities
- + Meets performance specifications of CAT-6A cable
- + 10G Ethernet compliant
- + Overall higher bandwidth than standard CAT5E quadrax-supports up to 4.0 Gbps per pair
- + Enhanced crosstalk performance (compared to standard quadrax)
- + Supports wire ranges 26 to 24 gauge
- + Requires modification of MIL-DTL-38999 connector to accommodate keyed contacts

BENEFITS

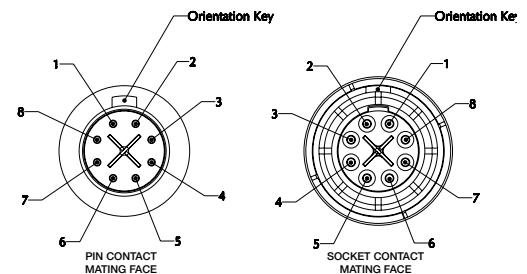
- + Easy drop-in replacement to installed connectors no need to redesign
- + Self removing contact feature - no extra contact extraction tool needed (24 Gauge only)

Contact Style	Part Number	*Cable	AWG
Crimp Pin	21-033425-461	Themax: MX10G-24 MX10G-24HP	24
Crimp Socket	21-033425-471		
Crimp Pin	21-033425-501	Thermax MX10G-26	26
Crimp Socket	21-033425-511		
PCB Pin	21-033425-481		
PCB Socket	21-033425-491		

*Not limited to cables shown

SPECS

Environmental Sealing:	IAW connector specification
Corrosion Resistance:	500 hours salt spray
EMI Shielding:	360 degree shielding on each pair
Mating Cycles:	500 cycles
Voltage Rating:	500 Vrms max @ sea level
Dielectric Withstanding Voltage:	500 VAC RMS sea level

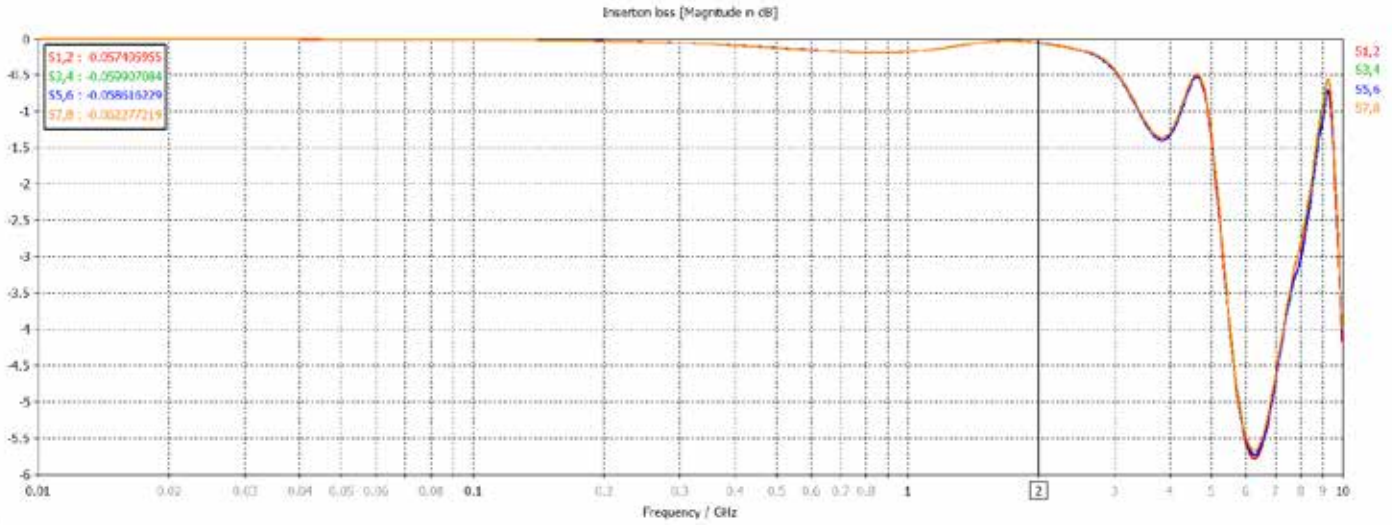


DIFFERENTIAL PAIR #	CONTACT IDS'S
1	1-2
2	3-4
3	5-6
4	7-8

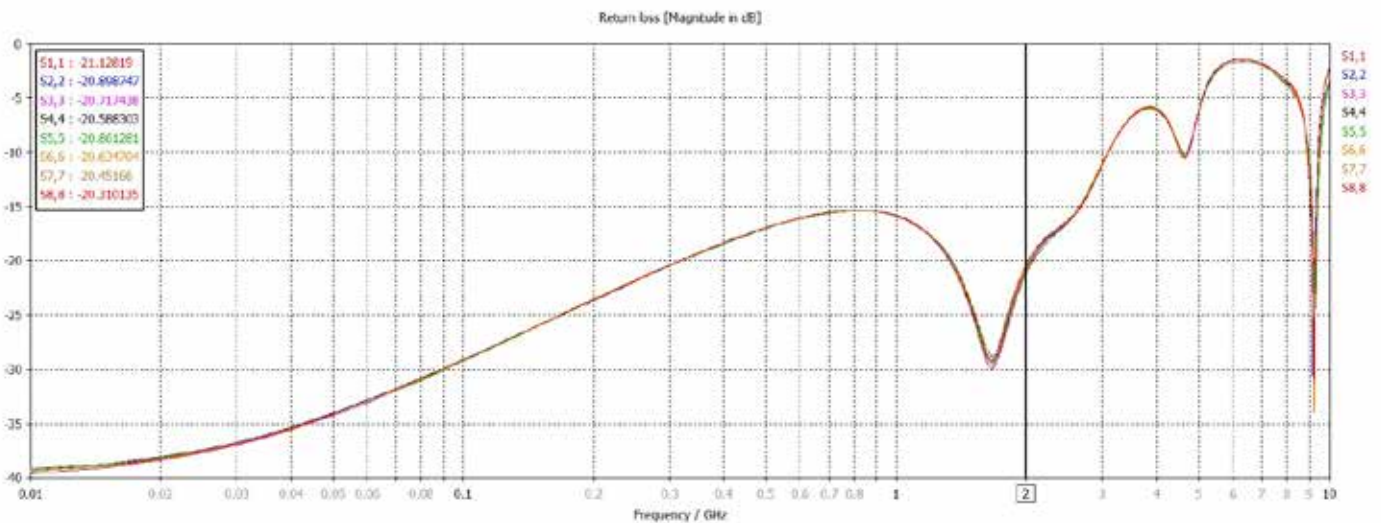


DS-260

Contact Differential Insertion Loss

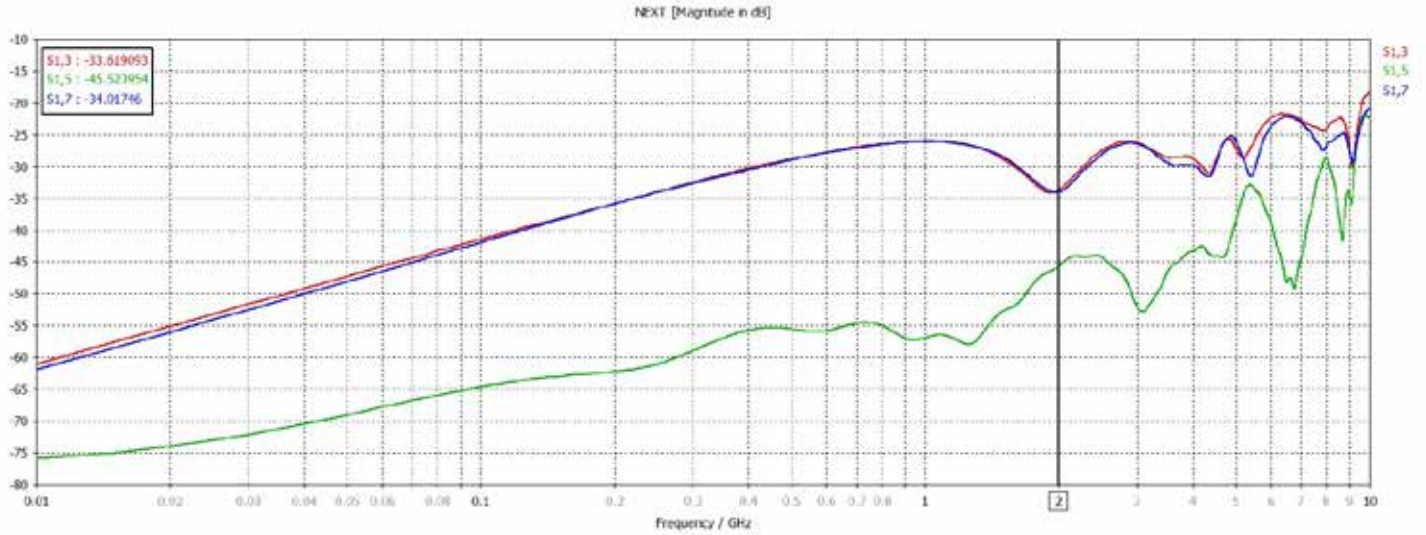


Contact Differential Return Loss

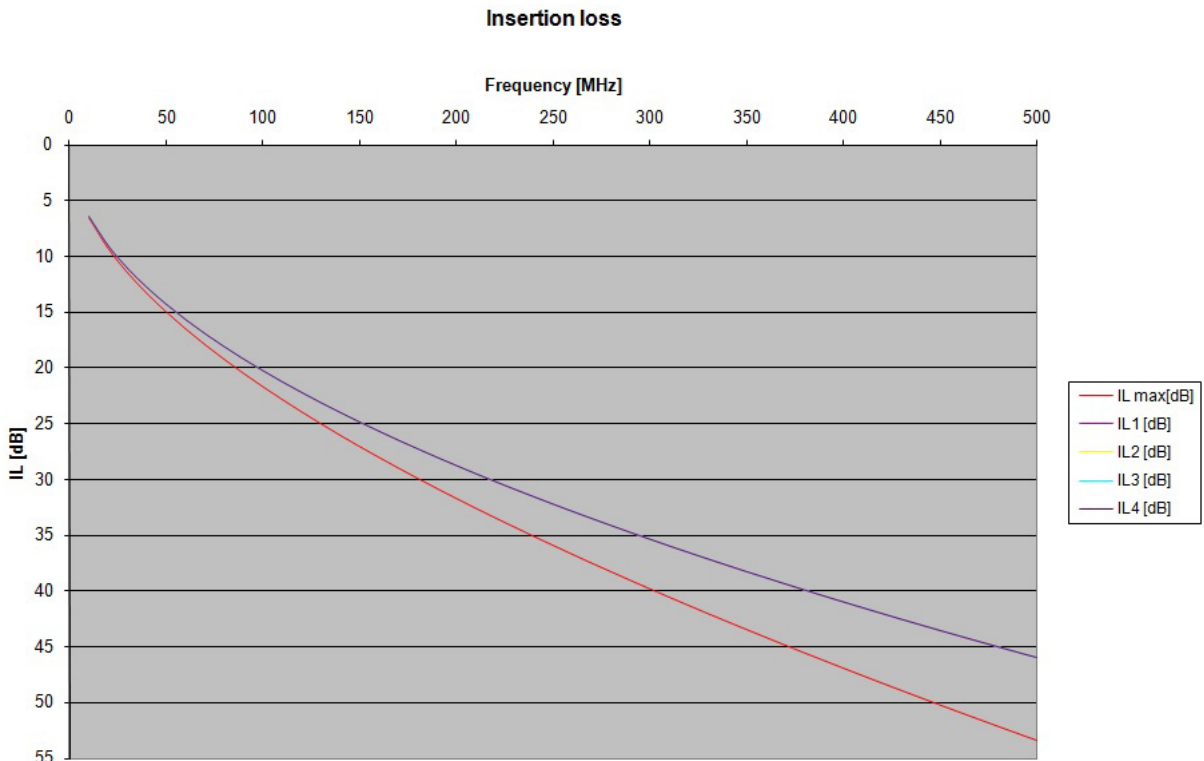




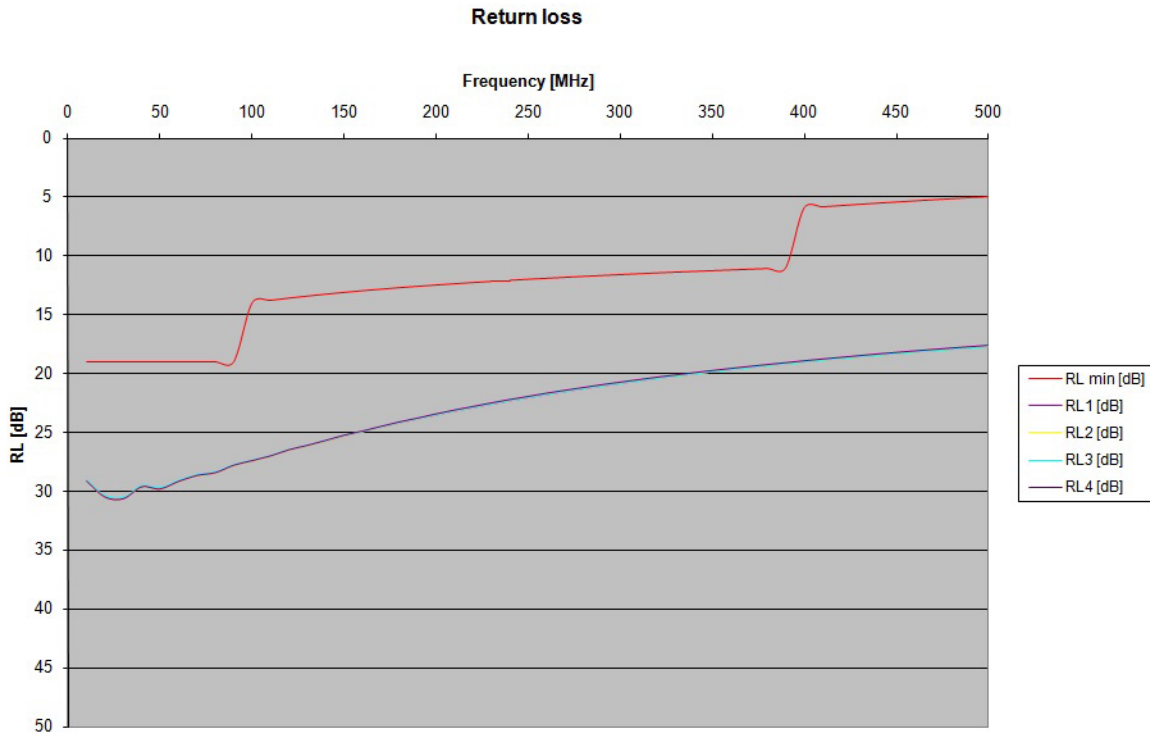
Contact Differential Rear-end Crosstalk



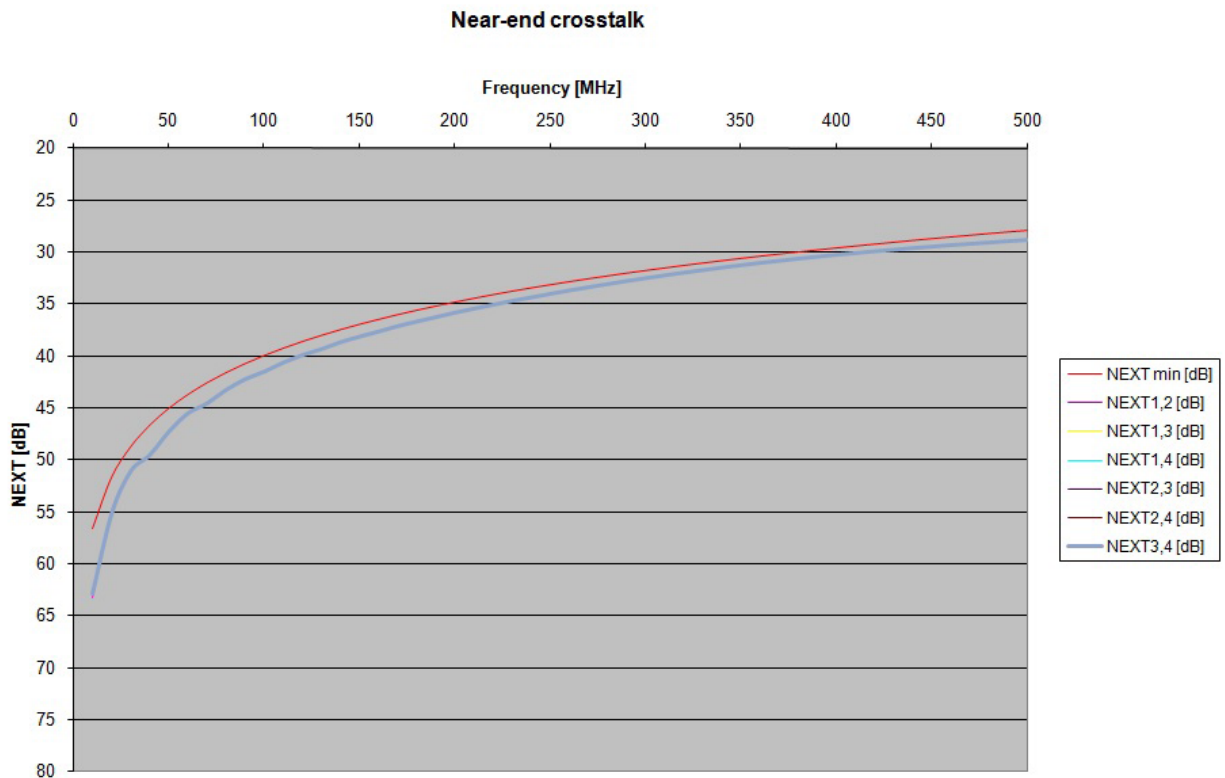
10GBASE-T data (two mated contacts on each end of 100 meter CAT6a cable)



Cable assembly near-end crosstalk



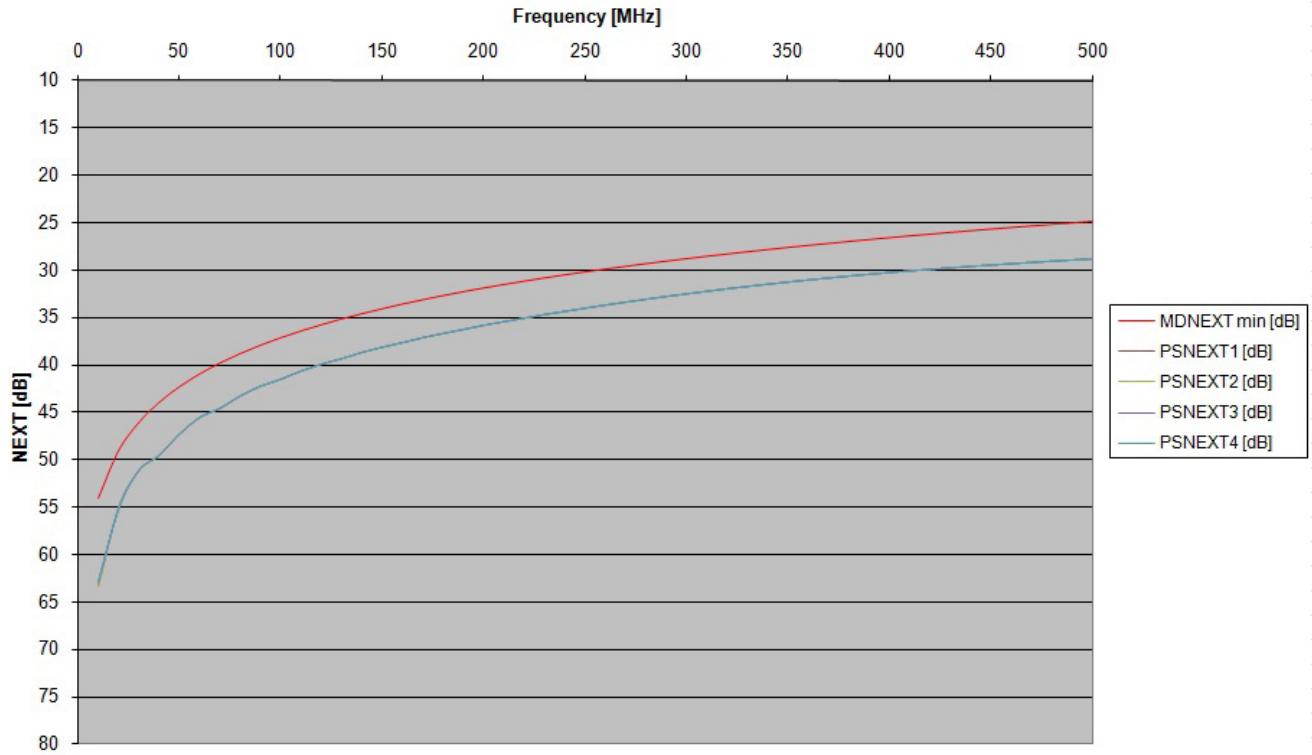
Cable assembly return loss



Cable assembly near-end crosstalk

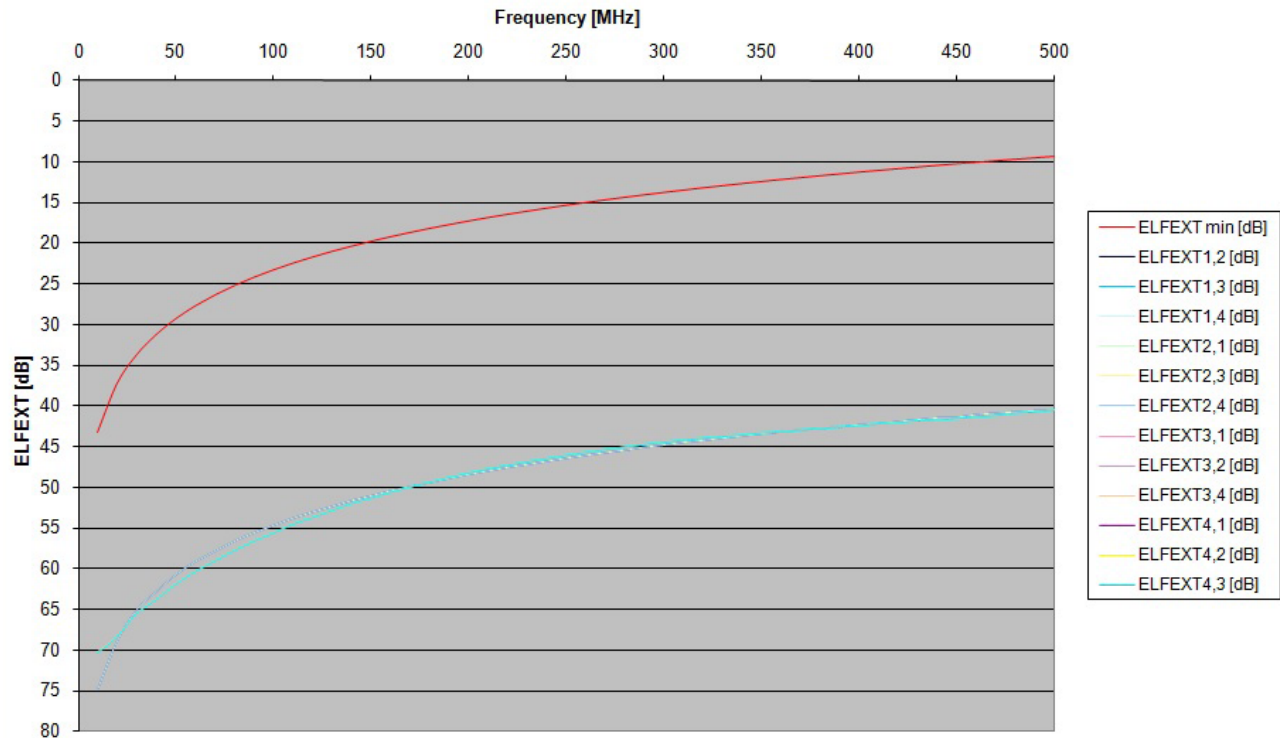


Multiple-disturber power-sum near-end crosstalk



Cable assembly multiple disturber power-sum near-end crosstalk

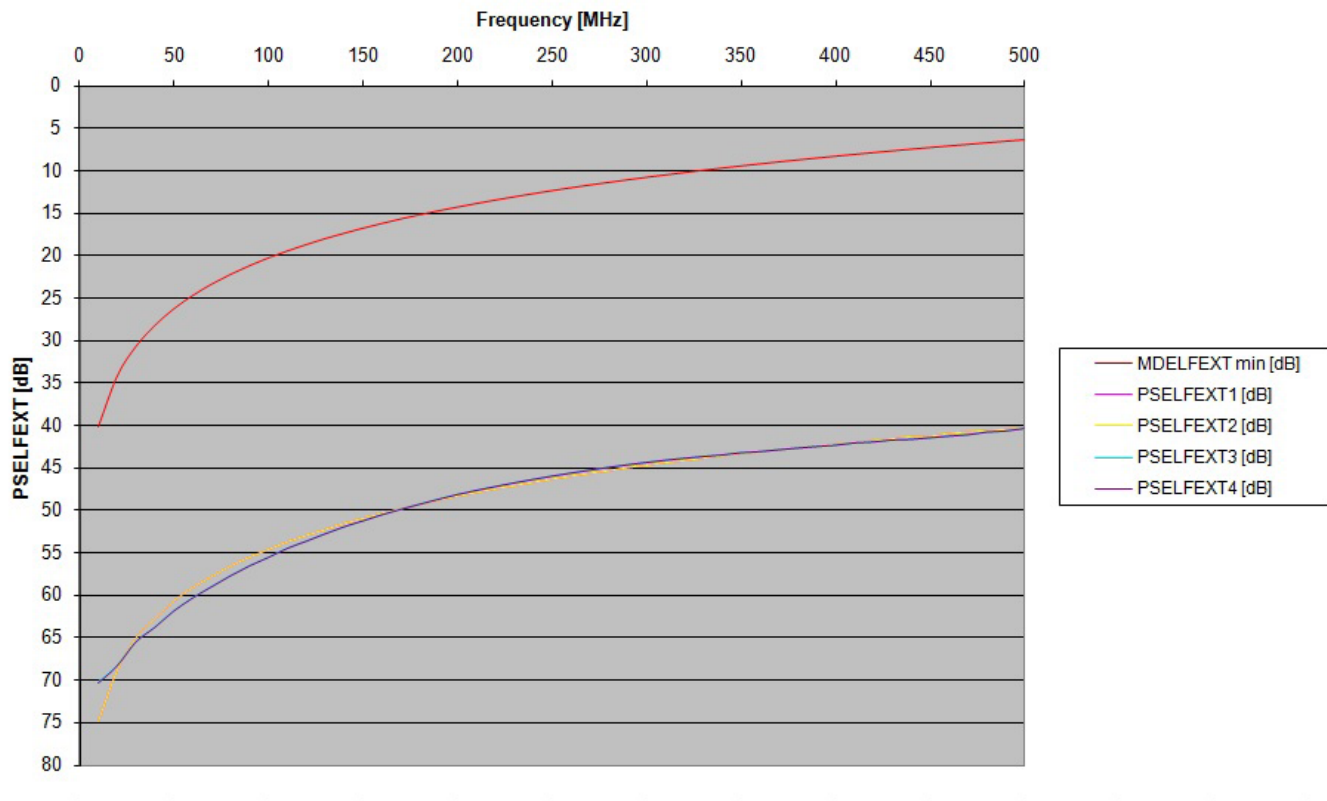
Equal-level far-end crosstalk



Cable assembly equal-level far-end crosstalk



Multiple disturber power-sum equal-level far-end crosstalk



Cable assembly multiple disturber power-sum equal-level far-end crosstalk

Contact Us:
 Sandra Wildenstein
 E-mail: swildenstein@amphenol-aao.com
 Phone: 607-563-5379

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