

Application

- 10 BASE-T (IEEE 802.3) Ethernet
- 100 BASE-T (IEEE 802.3u) Fast Ethernet
- 100 VG-AnyLAN (IEEE 802.12)
- 4/16 Mbps Token Ring (IEEE 802.5)
- 100 Mbps CDDI
- 52/155 Mbps ATM
- 1000 BASE-T (Gigabit Ethernet) (IEEE 802.3 ab)

Cable Construction

- 1 - Conductor : Electrolytic solid copper conductor.
- 2 - Insulation : Solid polyethylene insulation
- 3 - Stranding : Insulations are stranded into pairs and all pairs are stranded together.
- 4 - Wrapping : Polyester tape
- 5 - Screen : Tinned copper earthing wire, Al/PET tape, tinned copper braiding
- 6 - Outer Jacket : UV resistant polyethylene outer jacket. RAL 9004 (Black)

Technical Characteristics

Conductor Resistance Ω/km	Insulation Resistance MΩxkm (500 V DC)	Mutual Capacitance nF/km	Capacitance Unbalance	Propagation Velocity	Operating Voltage V	Test Voltage V	Characteristic Impedance Ω
94	5000	56	%2	%67-69	250	1200	100±%15. 1-100 MHz

Mechanical Characteristics

Bending Radius	Temperature Range Operating
8xD mm	-55°C~+60°C

Standards

Manufacturing Std.
ANSI/TIA-568-C.2. IEC-61156-5. IEC-11801

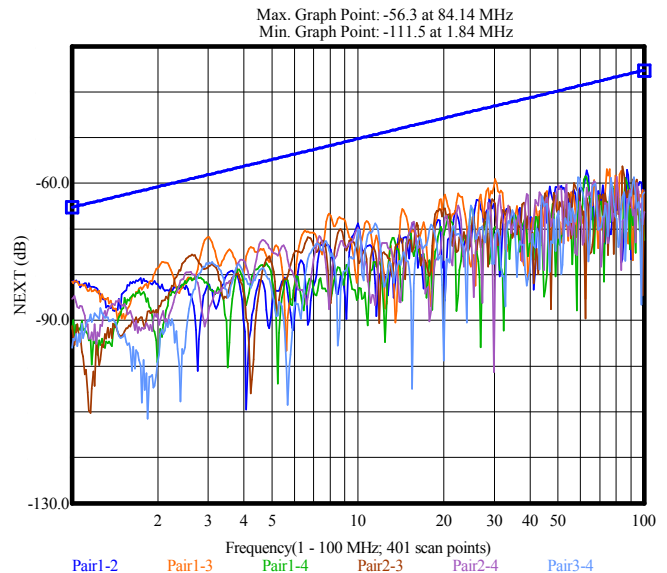
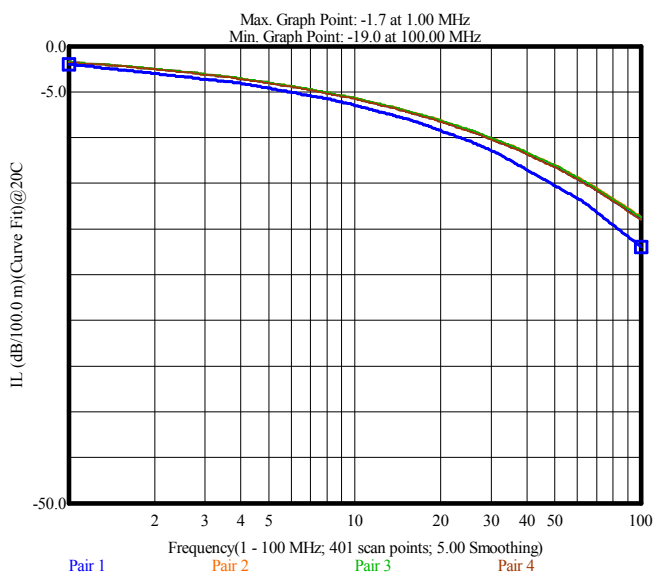
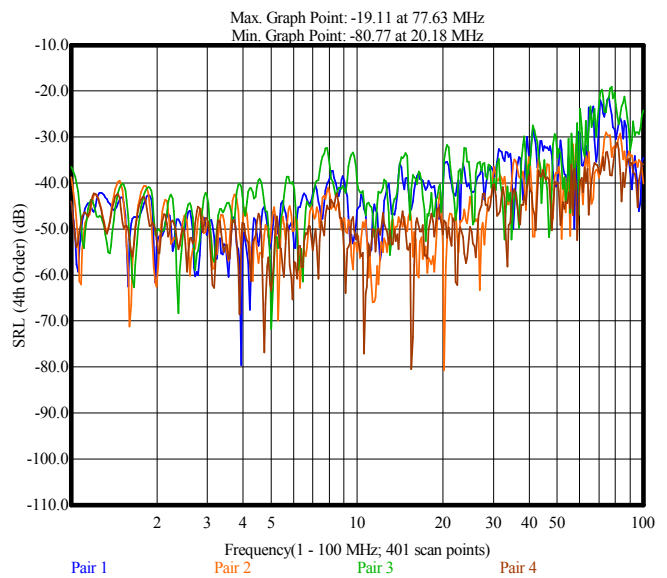
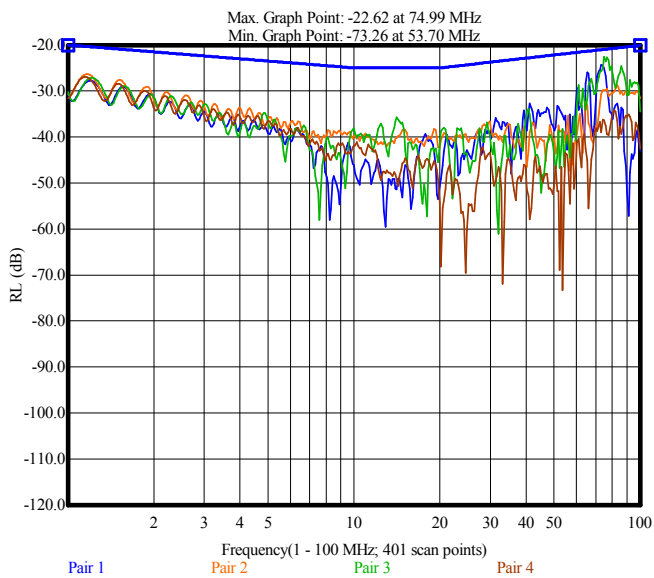
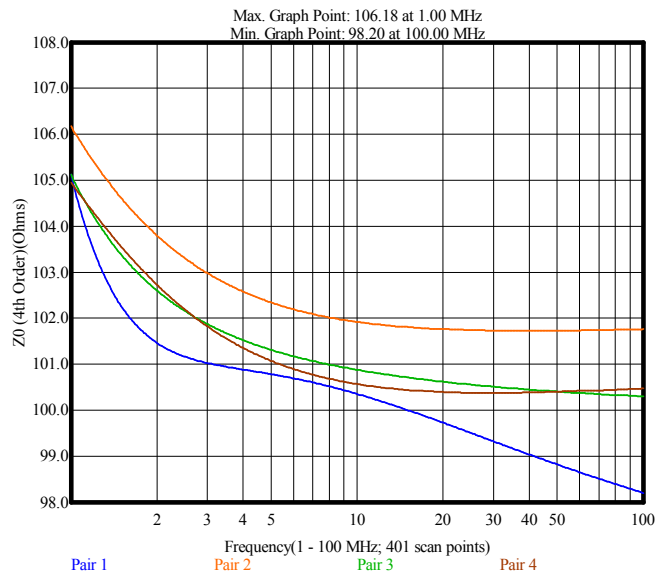
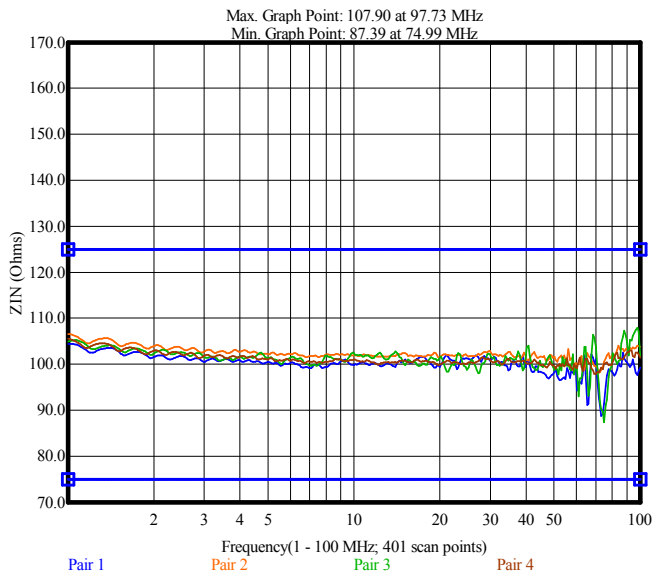
Electrical Properties

Frequency MHz	Insertion Loss dB/100m (Max.)	Near-end Crosstalk (NEXT) Loss dB (Min.)	Power-sum Near-end Crosstalk (PSNEXT) Loss dB (Min.)	Equal-level Far-end Crosstalk (ELFEXT) dB/100m (Min.)	Power-sum Equal Level Far-end Crosstalk (PSELFEXT) dB/100m (Min.)	Return Loss (RL) dB (Min.)
0.772	1.8	67	64	66	66	-
1	2	65.3	62.3	63.8	63.8	23
4	4.1	56.3	53.3	51.8	51.8	23
8	5.8	51.8	48.8	45.7	45.7	23
10	6.5	50.3	47.3	43.8	43.8	23
16	8.2	47.2	44.2	39.7	39.7	23
20	9.3	45.8	42.8	37.8	37.8	23
25	10.4	44.3	41.3	35.8	35.8	22
31.25	11.7	42.9	39.9	33.9	33.9	21
62.5	17	38.4	35.4	27.9	27.9	18
100	22	35.3	32.3	23.8	23.8	16

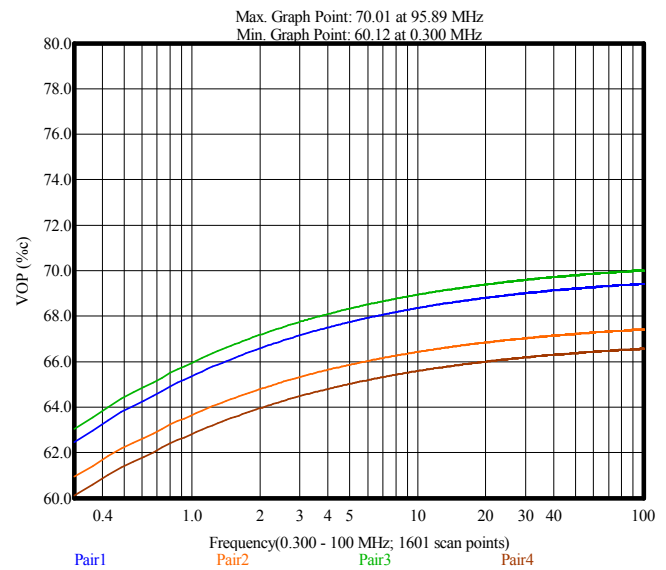
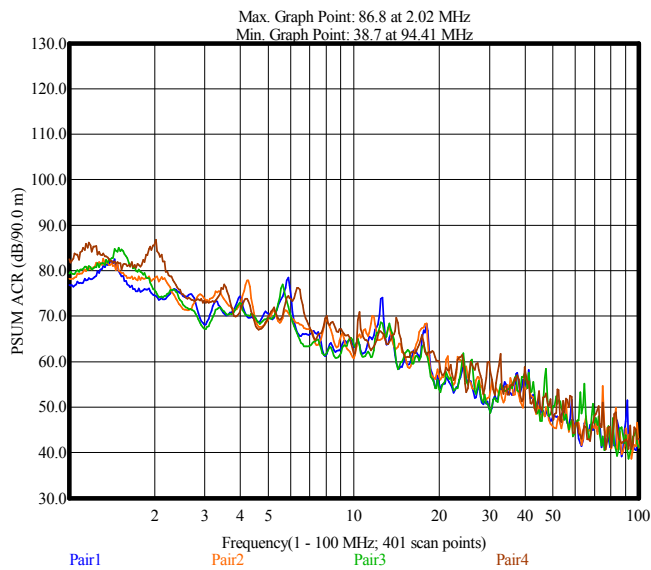
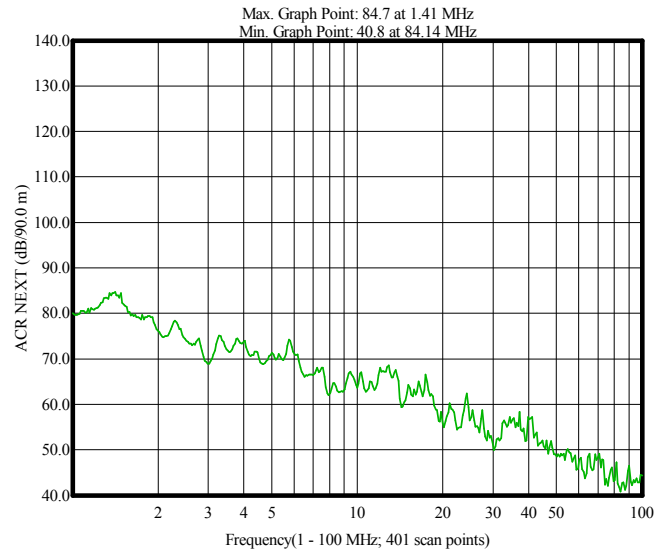
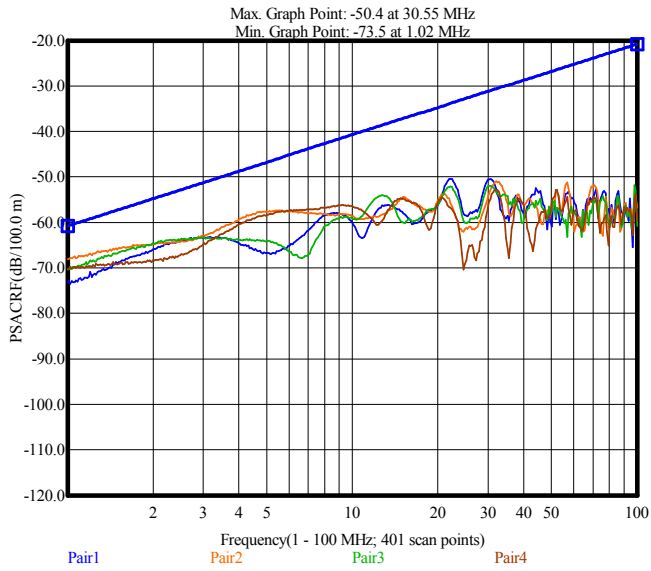
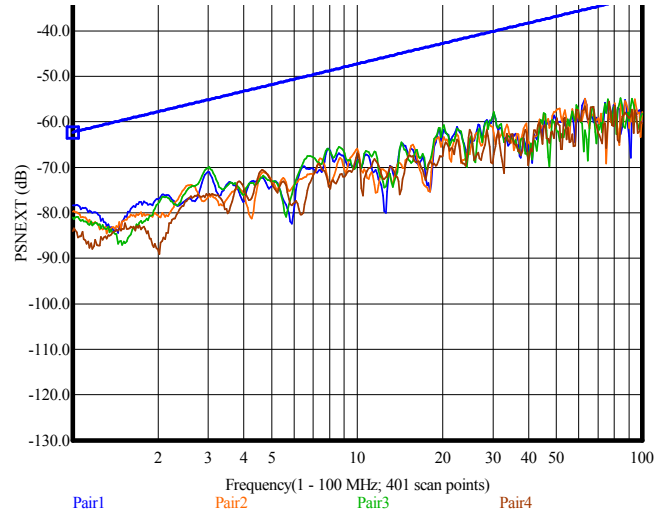
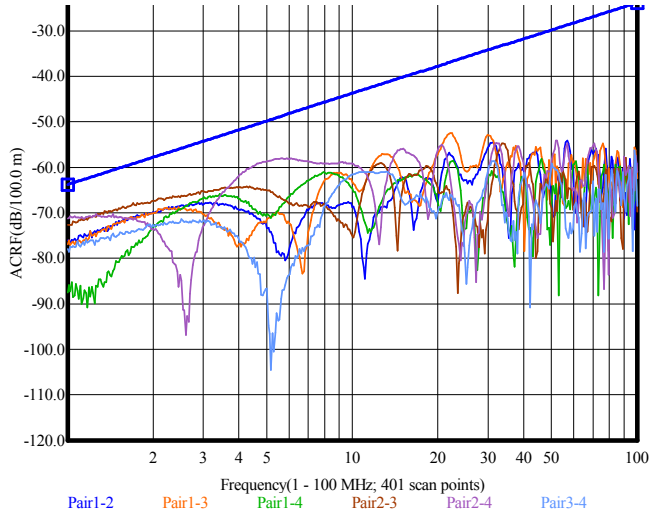
Cat 5e SF/UTP 24 AWG PE

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.445.2.1.1.0051.0.0004	4	0.51	5.8	28.7	44	100/500/1000

Cat 5e Test Result Graphs



Cat 5e Test Result Graphs



Cat 5e Test Result Graphs

