- Customer Premises Cabling -

Highlights

- IS 11801 Am1,2,3 to be published
- IS 11801 2nd Ed planned 2000AD
- 2nd Ed Class D based on Cat 5E
- Class E & F channel specs firm
- two Cat 7 connectors selected
- joint meeting held with SC6
- next mtg 7-11 Feb 2000 Sydney

64 Experts 19 Nations
# Amended Class D vs TIA Cat 5

<table>
<thead>
<tr>
<th>Channel Parameters</th>
<th>Class D Amended</th>
<th>Cat 5 (TSB-95)</th>
<th>Cat 5E (568-A-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>attenuation @ 100MHz</td>
<td>24.0dB</td>
<td>24.0dB</td>
<td>24.0dB</td>
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<tr>
<td>NEXT @ 100MHz</td>
<td>27.1dB</td>
<td>27.1dB</td>
<td>30.1dB</td>
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<tr>
<td>PSNEXT @ 100MHz</td>
<td>24.1dB</td>
<td>-</td>
<td>27.1dB</td>
</tr>
<tr>
<td>ELFEXT @ 100MHz</td>
<td>17.0dB</td>
<td>17.0dB</td>
<td>17.4dB</td>
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<tr>
<td>PSELFEXT @ 100MHz</td>
<td>14.4dB</td>
<td>14.4dB</td>
<td>14.4dB</td>
</tr>
<tr>
<td>Return Loss @ 100MHz</td>
<td>10.0dB</td>
<td>8.0dB</td>
<td>10.0dB</td>
</tr>
<tr>
<td>Prop Delay @ 10MHz</td>
<td>555ns</td>
<td>555ns</td>
<td>555ns</td>
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<tr>
<td>Prop Delay Skew</td>
<td>50ns</td>
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</tr>
</tbody>
</table>
ISO/IEC 11801 Return Loss

ISO/IEC 11801 (1999)

Next Generation Channels

Pr-to-Pr NEXT dB

Loss dB per 100m

Class F

Class E

Class D

Class C
ISO/IEC 11801 2nd Edition
Cat 6/Class E Cabling

• 200 MHz 4-connector channel PSACR = 0.1 dB
• working spec to 250 MHz based on formulae
• cable specification now considered firm
• RJ-45 connector validation continues
  » multi-vendor interworking being verified
  » backwards compatibility also being tested
• IEC asked to produce connector standards
• balance & screening defined up to 80 MHz
• coupling attenuation being defined >80 MHz
ISO/IEC 11801 2nd Edition
Cat 7/Class F Cabling

- 475MHz 4-connector channel_PSACR = 0dB
- 541MHz 2-connector channel_PSACR = 0dB
- 600MHz 2-connector channel_ACR = 0dB
- working spec to 600 MHz based on formulae
- Alcatel RJ-45 connector chosen as preferred
- Siemon non-RJ-45 connector chosen back-up
- IEC asked to produce connector standards
- balance & screening defined up to 80 MHz
- coupling attenuation being defined >80 MHz