

ANSI/TIA-568-C.2 CAT 6 Electrical Specifications

| Frequency MHz | Insertion Loss @ 20°C | | | |
|------------------|-----------------------|--------------------------|-------------------------|----------------------------|
| | Maximum dB/100 m | NEXT Minimum dB/100 m | ACR Minimum dB/100 m | PSNEXT Minimum dB/100 m |
| | Specified | Specified | Calculated | Specified |
| 1 | 2.0 | 74.3 | 72.3 | 72.3 |
| 4 | 3.8 | 65.3 | 61.5 | 63.3 |
| 10 | 6.0 | 59.3 | 53.3 | 57.3 |
| 16 | 7.6 | 56.3 | 48.6 | 54.2 |
| 20 | 8.5 | 54.8 | 46.3 | 52.8 |
| 25 | 9.5 | 53.3 | 43.8 | 51.3 |
| 31.25 | 10.7 | 51.9 | 41.2 | 49.9 |
| 62.5 | 15.4 | 47.4 | 32.0 | 45.4 |
| 100 | 19.8 | 44.3 | 24.5 | 42.3 |
| 200 | 29.0 | 39.8 | 10.8 | 37.8 |
| 250 | 32.8 | 38.3 | 5.5 | 36.3 |

| Frequency MHz | PSACR Minimum dB/100 m | Return Loss Minimum dB/100 m | ELFEXT Minimum dB/100 m | PSELFEXT Minimum dB/100 m |
|------------------|---------------------------|---------------------------------|----------------------------|------------------------------|
| | Calculated | Specified | Specified | Specified |
| 1 | 70.3 | 20.0 | 67.8 | 64.8 |
| 4 | 59.5 | 23.0 | 55.8 | 52.8 |
| 10 | 51.3 | 25.0 | 47.8 | 44.8 |
| 16 | 46.6 | 25.0 | 43.7 | 40.7 |
| 20 | 44.3 | 25.0 | 41.8 | 38.8 |
| 25 | 41.8 | 24.3 | 39.8 | 36.8 |
| 31.25 | 39.2 | 23.6 | 37.9 | 34.9 |
| 62.5 | 30.0 | 21.5 | 31.9 | 28.9 |
| 100 | 22.5 | 20.1 | 27.8 | 24.8 |
| 200 | 8.8 | 18.0 | 21.8 | 18.8 |
| 250 | 3.5 | 17.3 | 19.8 | 16.8 |