

TYPICAL PAIR-TO-PAIR EQUAL LEVEL FAR END CROSSTALK COUPLING LOSSES
AT 165 KC - EXCHANGE CABLES

| STAGGERED TWIST CABLES | | | | | | |
|-------------------------------|----------------|----|----|------------|----|----|
| | DB IN ONE MILE | | | | | |
| | RMS | | | 1% MINIMUM | | |
| Rates of Twist | 2 | 4 | 9 | 2 | 4 | 9 |
| 16 ga. 152 Pairs | 71 | | | 61 | | |
| 19 ga. CNB - Layer 455 Pair | | | | | | |
| Pairs 1-101 | - | 66 | - | - | 54 | - |
| 102-202 | 70 | 70 | - | 58 | 58 | - |
| 203-303 | 66 | 71 | - | 54 | 60 | - |
| 304-404 | 66 | 68 | - | 54 | 56 | - |
| 405-455 | - | 60 | - | - | 48 | - |
| <u>Layer to Layer</u> | | | | | | |
| 102-202 to 203-303 | 81 | - | - | 70 | - | - |
| 203-303 to 304-404 | 83 | - | - | 72 | - | - |
| 102-202 to 304-404 | 83 | - | - | 72 | - | - |
| 19 ga. CNB Unit Type | | | | | | |
| Within 25 or 26 Pair Unit | - | - | 68 | | | |
| Between Units | - | - | 77 | | | |
| 19 ga. DNB - Layer - 303 Pair | | | | | | |
| Pairs 102-151 | - | 68 | - | - | 56 | - |
| 152-202 | - | 68 | - | - | 56 | - |
| 203-252 | - | 68 | - | - | 56 | - |
| 253-303 | - | 65 | - | - | 54 | - |
| <u>Layer to Layer</u> | | | | | | |
| 102-151 to 152-202 | - | 78 | - | - | 63 | - |
| 152-202 to 203-252 | - | 76 | - | - | 65 | - |
| 203-252 to 253-303 | - | 78 | - | - | 67 | - |
| 19 ga. DNB 51 Pair Alpeth | | | | | | |
| Inner Layers | - | - | 63 | - | - | 51 |
| Outer Layers | - | - | 64 | - | - | 52 |
| Inner to Outer Layers | - | - | 79 | - | - | 71 |
| 34 Pairs of 51 Pair Cable | - | - | 64 | - | - | - |
| 19 ga. DNB 76 Pair Alpeth | | | | | | |
| Inner Layers | - | - | 66 | - | - | 55 |
| Outer Layers | - | - | 60 | - | - | 50 |
| Inner to Outer Layers | - | - | 77 | - | - | 68 |
| 34 Pairs of 76 Pair Cable | - | - | 67 | - | - | - |

Crosstalk Couplings
TYPICAL PAIR-TO-PAIR EQUAL LEVEL FAR END CROSSTALK COUPLING LOSSES
AT 165 KC - EXCHANGE CABLES

| STAGGERED TWIST CABLES | | | | | | |
|--|----------------|----|----|------------|----|----|
| | DB IN ONE MILE | | | | | |
| | RMS | | | 1% MINIMUM | | |
| | 2 | 4 | 9 | 2 | 4 | 9 |
| 19 ga. ENB 26 Pair | | | | | | |
| Inner Layers | - | - | 58 | - | - | 44 |
| Outer Layers | - | - | 60 | - | - | 50 |
| Inner to Outer Layers | - | - | 77 | - | - | 69 |
| Whole Cable | - | - | 63 | - | - | - |
| 19 ga. ENB 51 Pairs | - | - | 66 | - | - | 54 |
| 22 ga. 101 Pairs | 65 | - | - | 57 | - | - |
| 22 ga. 51 Pairs | - | 60 | - | - | 54 | - |
| NONSTAGGERED TWIST | | | | | | |
| 19 ga. Low Capacitance Noncolor Coded | 59 | | | 50 | | |
| 22 ga. 202 Pair | 53 | | | 44 | | |