

1500 Raceway Wire Fill Capacities for Power

| | WIRE SIZE THHN/THWN | O.D. | | 40% FILL |
|--------------|------------------------|--------|-------|----------|
| | | inches | [mm] | |
| POWER WIRING | 8 AWG | 0.218 | [5.5] | 2 |
| | 10 AWG | 0.153 | [3.9] | 5 |
| | 12 AWG | 0.122 | [3.1] | 8 |
| | 14 AWG | 0.105 | [2.7] | 10 |

1500 Raceway Wire Fill Capacities for Communications

| | CABLE/WIRE SIZE | O.D. | | 20% FILL | 40% FILL |
|-------------------------|---|--------|--------|----------|----------|
| | | inches | [mm] | | |
| UNSHIELDED TWISTED PAIR | 4-Pair, 24 AWG Cat 5 UTP | 0.210 | [5.3] | 1 | 2 |
| | 4-Pair, 24 AWG Cat 3 UTP | 0.190 | [4.8] | 1 | 3 |
| TELEPHONE | 2-Pair, 24 AWG | 0.150 | [3.8] | 3 | 6 |
| | 3-Pair, 24 AWG | 0.160 | [4.1] | 2 | 5 |
| | 4-Pair, 24 AWG | 0.190 | [4.8] | 1 | 3 |
| | 25-Pair, 24 AWG | 0.360 | [9.1] | 0 | 0 |
| COAXIAL | RG58/U | 0.195 | [5.0] | 1 | 3 |
| | RG59/U | 0.242 | [6.1] | 1 | 2 |
| | RG62/U | 0.242 | [6.1] | 1 | 2 |
| | RG6/U | 0.270 | [6.9] | 0 | 1 |
| TWINAXIAL | 100 Ohm | 0.330 | [8.4] | 0 | 1 |
| SHIELD TWISTED PAIR | Type 1 | 0.390 | [9.9] | 0 | 0 |
| | Type 2 | 0.465 | [11.8] | 0 | 0 |
| | Type 3 | 0.245 | [6.2] | 0 | 2 |
| FIBER OPTIC | Two Stranded (Duplex) Multimode, 62.5/125 µm | 0.190 | [4.8] | 1 | 3 |

2600 Raceway Wire Fill Capacities for Power

| | WIRE SIZE THHN/THWN | O.D. | | 40% FILL |
|--------------|------------------------|--------|-------|----------|
| | | inches | [mm] | |
| POWER WIRING | 8 AWG | 0.218 | [5.5] | 8 |
| | 10 AWG | 0.153 | [3.9] | 16 |
| | 12 AWG | 0.122 | [3.1] | 25 |
| | 14 AWG | 0.105 | [2.7] | 33 |

2600 Raceway Wire Fill Capacities for Communications

| | CABLE/WIRE SIZE | O.D. | | 20% FILL | 40% FILL |
|-------------------------|---|--------|--------|----------|----------|
| | | inches | [mm] | | |
| UNSHIELDED TWISTED PAIR | 4-Pair, 24 AWG Cat 5 UTP | 0.210 | [5.6] | 3 | 7 |
| | 4-Pair, 24 AWG Cat 3 UTP | 0.190 | [4.8] | 5 | 10 |
| TELEPHONE | 2-Pair, 24 AWG | 0.150 | [3.3] | 9 | 18 |
| | 3-Pair, 24 AWG | 0.160 | [4.1] | 8 | 16 |
| | 4-Pair, 24 AWG | 0.190 | [4.8] | 5 | 10 |
| | 25-Pair, 24 AWG | 0.360 | [9.1] | 1 | 2 |
| COAXIAL | RG58/U | 0.195 | [5.0] | 4 | 9 |
| | RG59/U | 0.242 | [6.1] | 3 | 6 |
| | RG62/U | 0.242 | [6.1] | 3 | 6 |
| | RG6/U | 0.270 | [6.9] | 2 | 5 |
| TWINAXIAL | 100 Ohm | 0.330 | [8.4] | 1 | 3 |
| SHIELD TWISTED PAIR | Type 1 | 0.390 | [9.9] | 1 | 2 |
| | Type 2 | 0.465 | [11.8] | 0 | 1 |
| | Type 3 | 0.245 | [6.2] | 3 | 6 |
| FIBER OPTIC | Two Stranded (Duplex) Multimode, 62.5/125 µm | 0.190 | [4.8] | 5 | 10 |

*20% cable fill is calculated to approximate reduction in cable capacity due to connectors mounted within raceway and fittings that may restrict cross sectional area.

**40% cable fill is the maximum designed cable fill based on a proposed revision to TIA/EIA 569-A.