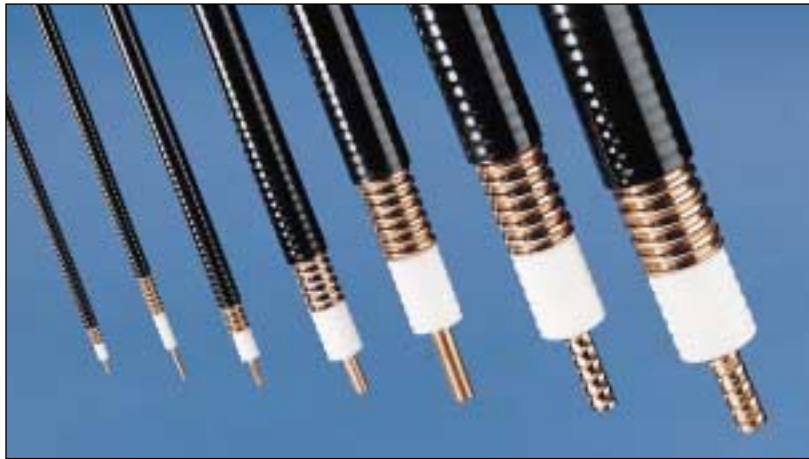
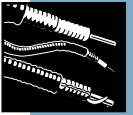


Coaxial Cable Selection Guide



HELIX® Coaxial Cables

HELIX® Coaxial Cable Selection Guide - 50-ohm, Foam Dielectric

| Foam Dielectric, LDF Series | | | | | | | |
|---|---------------|----------------|-----------------|----------------|---------------|----------------|----------------|
| 1/4" | 3/8" | 1/2" | 5/8" | 7/8" | 1-1/4" | 1-5/8" | 2-1/4" |
| 491 | 493 | 496 | 500 | 506 | 513 | 520 | 524 |
| Standard Cables | | | | | | | |
| LDF1-50 | LDF2-50 | LDF4-50A | LDF4.5-50 | LDF5-50A | LDF6-50 | LDF7-50A | LDF12-50 |
| Fire Retardant Cables | | | | | | | |
| LDF1RN-50 | LDF2RN-50 | LDF4RN-50A | LDF4.5RN-50 | LDF5RN-50A | LDF6RN-50 | LDF7RN-50A | LDF12RN-50 |
| LDF1RN-50 | LDF2RN-50 | LDF4RN-50A | LDF4.5RN-50 | LDF5RN-50A | LDF6RN-50 | LDF7RN-50A | LDF12RN-50 |
| LDF1RN-50 | LDF2RN-50 | LDF4RN-50A | LDF4.5RN-50 | LDF5RN-50A | LDF6RN-50 | LDF7RN-50A | LDF12RN-50 |
| Low VSWR Cables, Specially Tested | | | | | | | |
| LDF1P-50-(**) | LDF2P-50-(**) | LDF4P-50A-(**) | LDF4.5P-50-(**) | LDF5P-50A-(**) | LDF6P-50-(**) | LDF7P-50A-(**) | LDF12P-50-(**) |
| Special Application Cables | | | | | | | |
| p. 590 | p. 590 | p. 590 | - | p. 590 | - | - | - |
| Characteristics | | | | | | | |
| 15800 | 13500 | 8800 | 6100 | 5000 | 3300 | 2500 | 2200 |
| 12.1 | 15.6 | 40 | 62 | 91 | 205 | 315 | 425 |
| 86 | 88 | 88 | 89 | 89 | 89 | 88 | 88 |
| 3 (76) | 3.75 (95) | 5 (125) | 8 (200) | 10 (250) | 15 (380) | 20 (510) | 24 (610) |
| Attenuation, dB/100 ft (dB/100 m) Standard conditions: VSWR 1.0; ambient temperature 20°C (68°F). | | | | | | | |
| 0.667 (2.19) | 0.563 (1.85) | 0.357 (1.17) | 0.254 (0.834) | 0.195 (0.641) | 0.135 (0.444) | 0.109 (0.356) | 0.091 (0.299) |
| 1.23 (4.05) | 1.04 (3.42) | 0.661 (2.17) | 0.473 (1.55) | 0.364 (1.19) | 0.254 (0.832) | 0.205 (0.671) | 0.173 (0.566) |
| 2.71 (8.88) | 2.29 (7.51) | 1.45 (4.75) | 1.05 (3.46) | 0.808 (2.65) | 0.571 (1.87) | 0.467 (1.53) | 0.400 (1.31) |
| 4.16 (13.6) | 3.52 (11.6) | 2.22 (7.28) | 1.64 (5.38) | 1.25 (4.12) | 0.897 (2.94) | 0.742 (2.43) | 0.644 (2.11) |
| 6.10 (20) | 5.17 (17) | 3.25 (10.7) | 2.44 (8.02) | 1.86 (6.11) | 1.35 (4.43) | 1.13 (3.71) | 0.994 (3.26) |
| 11.5 (37.7) | 9.79 (32.1) | 6.11 (20.1) | 4.76 (15.6) | - | - | - | - |
| 15.7 (51.5) | 13.4 (43.9) | - | - | - | - | - | - |
| Average Power Rating, kW Standard conditions: VSWR 1.0; ambient temperature 40°C (104°F); inner conductor temperature 100°C (212°F); no solar loading. | | | | | | | |
| 3.32 | 4.14 | 6.46 | 9.57 | 14.1 | 22.0 | 30.9 | 39.8 |
| 1.79 | 2.24 | 3.49 | 5.14 | 7.56 | 11.7 | 16.4 | 21.0 |
| 0.818 | 1.02 | 1.59 | 2.31 | 3.41 | 5.22 | 7.18 | 9.06 |
| 0.533 | 0.663 | 1.04 | 1.48 | 2.19 | 3.32 | 4.52 | 5.64 |
| 0.363 | 0.451 | 0.710 | 0.996 | 1.48 | 2.21 | 2.96 | 3.65 |
| 0.193 | 0.239 | 0.378 | 0.511 | - | - | - | - |
| 0.141 | 0.175 | - | - | - | - | - | - |