

Flexibility

Ultra Flex, tinned copper wire conductors, and flexible silicone make Cicoil's ribbon cables highly flexible, with a bend radius as small as 0.4 inches in flexing applications. Also the cables can be 'folded over' for static applications.

Long Life

Rated for millions of cycles in flexing applications.

Extreme Environments

Silicone rubber cables operate from -65°C to 260°C, including exposure to water, steam, salt, and most chemicals. The cables are ideal for clean room use, and they can also be used in vacuum environments.

Fire Resistant

Cables are fire resistant, as they meet the UL-94 vertical flame standard, as well as other fire standards.



Cicoil's ribbon cables are constructed using Ultra High Flex 28 AWG, finely stranded wire, and our exclusive silicone extrusion process for a strong, flexible, clear cable. Our ribbon cables meet the standard ribbon cable dimensions, and they can be used with any standard Insulation Displacement Connectors (IDC). The wire spacing ('pitch') is set at .050" for the English version, or 1mm for the metric version.

Specifications

Electrical

Insulation Resistance: 200 megΩ @ 500Vdc
Dielectric Strength: 450 volts/mil (17.7KV/mm)
Dielectric Constant: 2.8 (nominal)

Environmental

Temperature Rating: -65°C to 260°C
Moisture Rating: Submersible
Vacuum Rating: 5 x 10⁻⁵ torr^①
Outgassing: 0.24 %TML, 0.02 %CVCM^②
Radiation: 10⁷ Roentgens (exposure)
Acid Resistance: Good
Ozone Resistance: Outstanding
Oil Resistance: Good
Flame Resistance: Good
Water/Steam Resistance: Excellent (Including salt and DIW)
Alcohol Resistance: Good
Toxins: Halogen-free

Mechanical

Minimum Bend Radius: 0.4"
Durometer Rating: Shore A, 65
Tensile Strength: 6.5 Mpa (psi)
Tear Strength: 18 kN/m

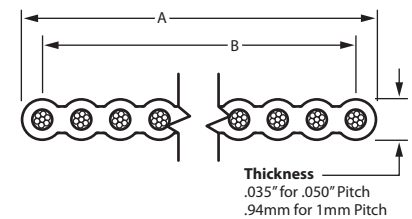
Approvals

UL Recognized—File #E324413, CE

Notes

- Cicoil cable can exceed this rating when specified
- Cicoil outgassed cables are NASA rated for space applications (NASA Outgassing spec 1124)

Specify Ribbon Cables by Part Number and Length in feet. Ribbon Cables are maintained in stock for immediate delivery. Cable with prepared ends or assemblies with connectors are produced to order with minimum lead times.



.050" Pitch

No. of Conductors	Width (A)-inches	Span (B)-inches	Part Number	
10	0.50	0.45	310J101-10	
14	0.70	0.65	310J101-14	
16	0.80	0.75	310J101-16	
20	1.00	0.95	310J101-20	
26	1.30	1.25	310J101-26	
28	1.40	1.35	310J101-28	
30	1.50	1.45	310J101-30	
34	1.70	1.65	310J101-34	
40	2.00	1.95	310J101-40	
44	2.20	2.15	310J101-44	
50	2.50	2.45	310J101-50	
60	3.00	2.95	310J101-60	
64	3.20	3.15	310J101-64	

1mm Pitch

No. of Conductors	Width (A)-mm	Span (B)-mm	Part Number	Price per Foot
10	10.00	9.00	666K101-10	
16	16.00	15.00	666K101-16	
20	20.00	19.00	666K101-20	
26	26.00	25.00	666K101-26	
30	30.00	29.00	666K101-30	
34	34.00	33.00	666K101-34	
40	40.00	39.00	666K101-40	
44	44.00	43.00	666K101-44	
50	50.00	49.00	666K101-50	

Specifications are nominal

Specifications and Pricing are subject to change