Cable Selection Checklist

The following checklist will assist you in identifying the issues you need to discuss with your cable manufacturer when selecting the right cable for your specific application and environment. Although you may not be able to complete all of the sections, it will be helpful if you are as specific as possible in the data you can provide.

Type of Application	
□ In-flight space:	Ground test space:
Military aircraft:	□ Commercial aircraft:
□ Military equipment:	□ Microwave/RF:
🗆 Geophysical:	🗅 Cleanroom:
□ Other:	
General Requirements	
Cable use length:	Maximum cable diameter:
Total number of cables:	Minimum cable diameter:
Data transmission: 🗆 Digital 🗅 Analog	Protocol/data rate:
Other:	
Potential Electrical Issues	
Voltage rating:	Signal/noise requirements:
Impedance:	Crosstalk:
Electrostatic discharge: 🗆 Yes 🗅 No	Attenuation:
	Electromagnetic
	Interference: 🗆 Yes 🗅 No
Other:	
Other: Potential Mechanical Issues	
	Flex type: Rolling Tic-toc
Potential Mechanical Issues	Flex type: Rolling Tic-toc
Potential Mechanical Issues Flexing required:	Flex type: Rolling Tic-toc
Potential Mechanical Issues Flexing required: □Yes □No Cycles:	Flex type: Rolling Tic-toc Torsion Random
Potential Mechanical Issues Flexing required: □ Yes □ No Cycles: Bend radius/torsion angle:	Flex type: Rolling Tic-toc Torsion Random Stroke length:
Potential Mechanical Issues Flexing required: □Yes □No Cycles: Bend radius/torsion angle: Acceleration rate:	Flex type: Rolling Tic-toc Torsion Random Stroke length:
Potential Mechanical Issues Flexing required: □ Yes □ No Cycles: Bend radius/torsion angle: Acceleration rate: Other:	Flex type: Rolling Tic-toc Torsion Random Stroke length:
Potential Mechanical Issues Flexing required: □ Yes □ No Cycles: Bend radius/torsion angle: Acceleration rate: Other: Potential Environmental Issues	Flex type: Rolling Tic-toc Torsion Random Stroke length: Speed:
Potential Mechanical Issues Flexing required: □ Yes □ No Cycles: Bend radius/torsion angle: Acceleration rate: Other: Potential Environmental Issues Sharp edges: □ Yes □ No Maximum temperature: Humidity: □ Yes □ No	Flex type: Rolling Tic-toc Torsion Random Stroke length: Speed: Abrasion: Yes No
Potential Mechanical Issues Flexing required: □ Yes □ No Cycles: Bend radius/torsion angle: Acceleration rate: Other: Potential Environmental Issues Sharp edges: □ Yes □ No Maximum temperature:	Flex type: Rolling Tic-toc Torsion Random Stroke length: Speed: Abrasion: Yes No Minimum temperature:
Potential Mechanical Issues Flexing required: □ Yes □ No Cycles: Bend radius/torsion angle: Acceleration rate: Other: Potential Environmental Issues Sharp edges: □ Yes □ No Maximum temperature: Humidity: □ Yes □ No	Flex type: Rolling Tic-toc Torsion Random Stroke length: Speed: Abrasion: Yes No Minimum temperature: Chemical exposure type:
Potential Mechanical Issues Flexing required: □ Yes □ No Cycles: Bend radius/torsion angle: Acceleration rate: Other: Potential Environmental Issues Sharp edges: □ Yes □ No Maximum temperature: Humidity: □ Yes □ No Liquid exposure type:	Flex type: Rolling Tic-toc Torsion Random Stroke length: Speed: Abrasion: Yes No Minimum temperature: Chemical exposure type: Gas exposure type:

Application-Specific Issues

Weight: 🗆 Yes 🗅 No	Specific weight requirement:
Routing: 🗆 Yes 🗅 No	Cable track used:
Human manipulation: 🗆 Yes 🗅 No	Crush protection: 🗆 Yes 🗅 No
Connector type:	Regulatory requirements:
Backshell:	
Other:	

Total Cost of Ownership

Maintenance costs:
Replacement costs:
Downtime costs:
Bad product costs:
Safety costs:
F

Application Notes: