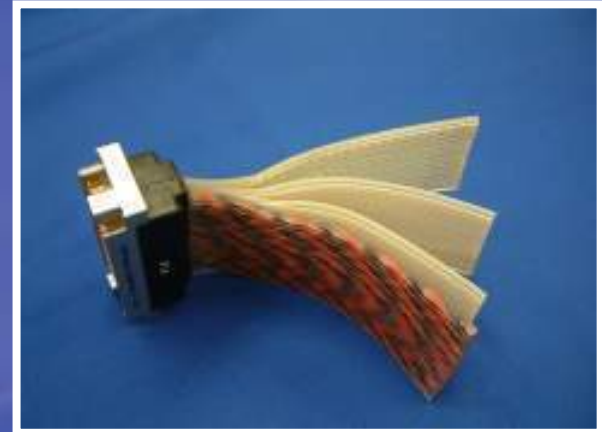# "NewFlex" Flat Flexible Flat Wiring

© 2004 DCX-CHOL Enterprises, Inc.

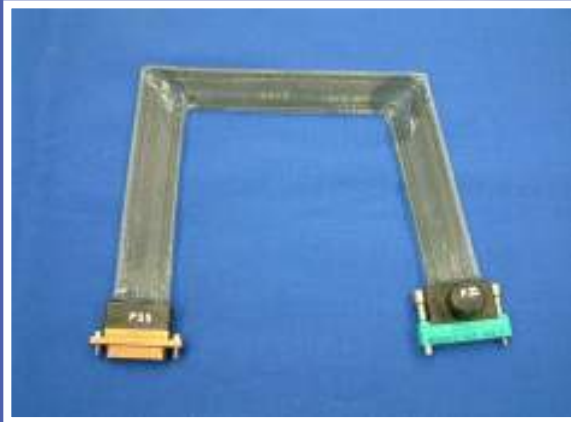- Multiple wire types & gauges (32awg = 65 strands of 50 awg wires in a flexible, flat molded format
- Over-molded w/ silicone, polyurethane & other compounds
- Utilizing high stranded conductors
- Terminated to any component (connectors, headers, etc.)
- Cable thickness from 0.015" to 0.250"
- Operating range: -57°C to +260°C
- Outstanding tensile strength, tear/abrasion resistance

"NewFlex" Flat Flexible Flat Wiring
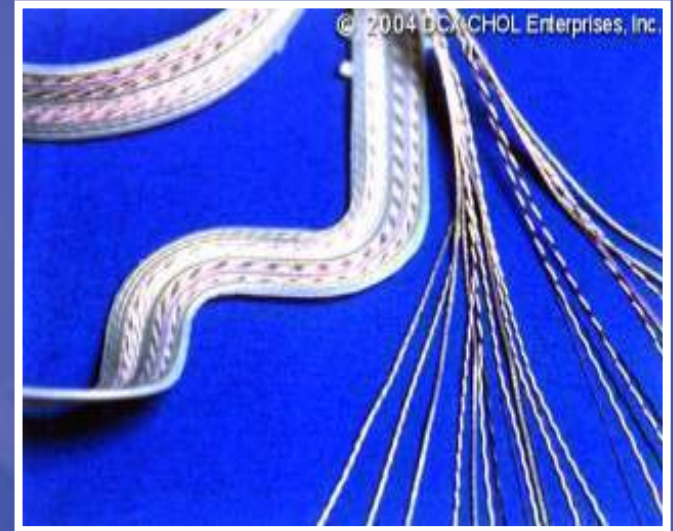
Optional flat form turns, up to 180°

Molded y-junctions or breakouts

Flat-to-round-to flat transitions

Integral clamp, Strain relief

Perfect 90° angles

"NewFlex" Flat Flexible Flat Wiring

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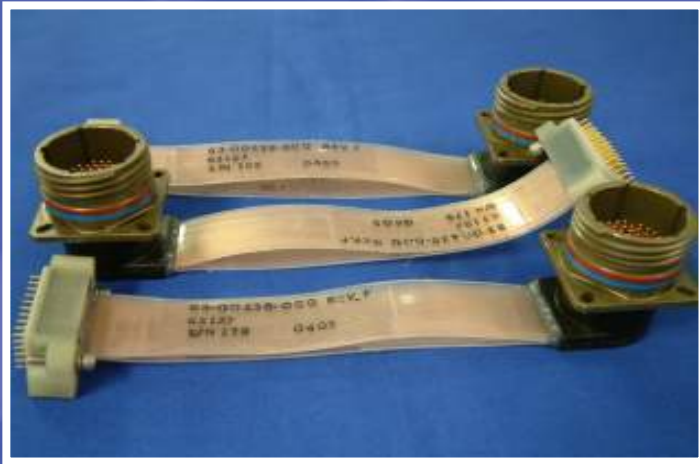
- <u>Versatility</u>: Multiple wire types/gauges into a single cable
- <u>Performance Superiority</u>: Impervious to shock &vibration, flexing, watertight integrity & chemical resistant.
- <u>Alternate to Rigid Flex</u>: More economical
- <u>Controlled Circuits</u>: Tighter packaging and noise reduction

"NewFlex" In Action

DCX-Chol specializes in building complex sealed cable assemblies for Reconnainasse and Targeting Pods used in military aircraft, helicopter and UAVs. Our flexible harnesses are used in electro-optical sensor pods. These cables are mounted under the aircraft in the ball towards the front of the plane. The inner harness in the left picture has a DCX-Chol designed sealed connector with 166 pins that has to withstand 10 PSI and operate in a temperature range of -55 degrees C up to + 85 degrees C.
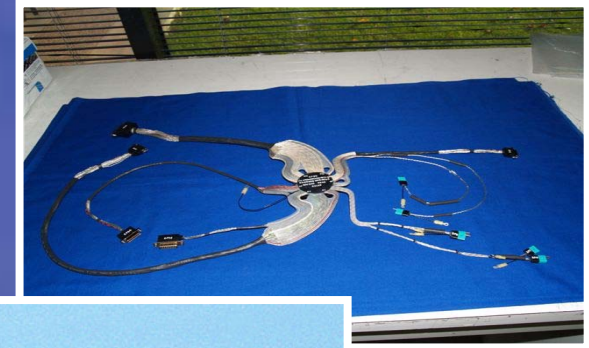
"NewFlex" Dynamic Rotating Harnesses

The "NewFlex" Flat-Flexible Turret Harness is used in the Litening I & II Airborne Targeting Pods. Seven different legs use round to flat transitions. The main connector is sealed against pressure differential. And the cable endures 460° twists inside the Pod.

The Targeting Pod requires 512 terminations on the ARINC connector alone!
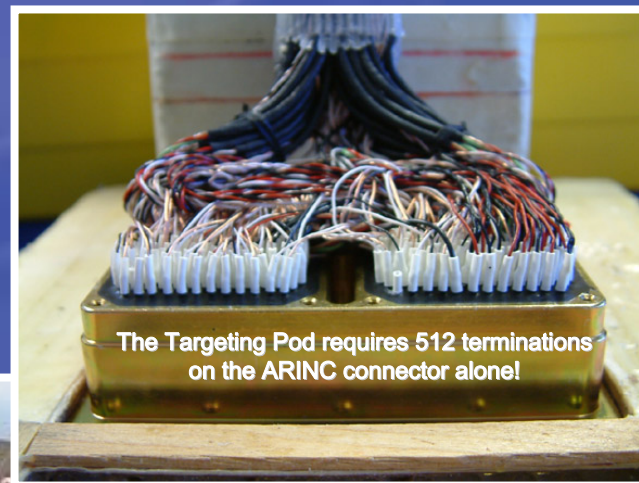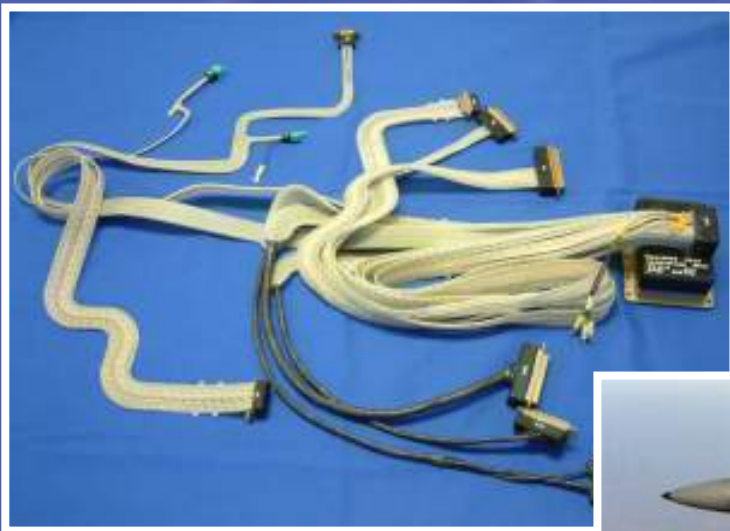
NewFlex on the F-22 RAPTOR

- 40 different cable assemblies
- Cables from prototype thru Production (approx 6500 pcs) for Lots 1-7 of Aircraft
- 99.9 % Quality Rating
- 100% On-time Performance
- Contracts for Lots 7-9 for 4600 additional cables.

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