

Connector Solutions for Integrated Soldier Systems-Nemesis

Delivering unprecedented quality when critical communication and vision gear increase survivability

The Challenge

We all have carried heavy weights in the past but few of us would have carried the package because our life depended upon it.

Now consider carrying that package that contains all of your requirements for surviving a 72 hour mission in a war zone in searing heat. This is what our soldiers are currently facing in Afghanistan, some carrying in excess of 100 lbs (45 Kilos). This is why weight reduction is the worlds Ministry of Defences number one priority for soldier systems.

The Engineered Product Solution

The design team for the Nemesis connector range has focussed on achieving a robust interconnect whilst reducing the weight. Nemesis connectors use stainless steel for added strength. The team also had to tackle the next item on the soldier's requirement list by honing down the size to create a compact solution. In addition soldiers need the connector to be sealed ensuring a successful mission whatever the environment.

Innovative Interconnect Benefits

- Lightweight
- Small plan form
- Blind mating ensures operation without visual of the key
- Fully sealed in the mated and unmated condition
- RoHS compliant anti-reflective plating
- Pogo contacts providing 10,000+ and micro twist pin contacts providing 2,500+ mating cycles
- 360 degree earth connection for a good EMI performance
- Nemesis Water Tight sealed to >20 meters

Attributes and Values

- ITT ICS pogo contact technology providing industry leading durability and guaranteeing 10,000+ mating cycles
- Blind mating design ensuring reliable and quick connections without the need for visual or mechanical keying
- RoHS compliant black zinc nickel or electroless nickel plating ensuring our customers are future proofed with the anticipated revision of MIL standards
- Human factors design considerations enabling secure gripping in the harshest environments through the use of ribbed overmolding
- Rugged stainless steel construction providing reassurance that your interconnect will survive the mission
- Enhanced strain relief design eliminating cable overstressing and ensuring the integrity of cable sealing
- Anti-reflective salt spray resistant plating finish ensures soldier concealability while providing effective protection in harsh marine environments

Applications

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| • Radios | • Computers | • Weapons |
| • Headsets | • Batteries | • Vision Systems |
| • Ear phones | • GPS | |

APPLICATIONS *Interconnect Function*

Vision Systems *Power & Data*

Ear Phones *Audio*

Head Sets *Audio*

Radios *Power, Data & Audio*

GPS *Data*

Computers *Power, Data & Audio*

Batteries *Power & Data*

Weapons *Power & Data*

