



WILDCAT CONNECTORS FOR UNMANNED AUTONOMOUS VEHICLES (UAV)

UNMANNED BUT SECURELY CONNECTED

TE Connectivity (TE) with its Wildcat UAV connection systems offers expertise in the design and manufacture of interconnection solutions for harsh environments. With over 40-years of international experience, Wildcat UAV connectors are designed for applications within the aerospace, defense, transportation markets. With a new black zinc nickel plating, these connectors are suitable for UAV systems.

PRODUCT OVERVIEW



Wildcat UAV Micro Xtra^{LITE} HE (UAV) Series Connectors

The UAV Micro Xtra^{LITE} HE connectors offer one of the smallest, lightest packages for three, four, five and six wires. The UAV Micro Xtra^{LITE} HE 6-way is the shortest, lightest UAV connector for six wires, offering a solution where space is at its most restrictive.



Wildcat UAV MicroLITE HE (UAVL) Series Connectors

The MicroLITE HE range is lighter and smaller than the original Wildcat UAV Micro HE connector, while still retaining all critical features such as vibration, temperature, and chemical resistance.



Wildcat UAV Double Density (UAVDD) Series Connectors

Next generation connector technology which brings together high density and high performance, inline with using wire size down to AWG 30. The Wildcat UAV Double Density range allows almost double the number of contacts to be packaged in the same shell as compared to the standard Wildcat UAV Series connectors.



Wildcat UAV Heavy Duty (UAVHD) Series Connectors

A range of power connectors designed specifically for high current applications. The Wildcat UAV Heavy Duty connectors are ideally suited to high power battery and motor applications. Specially designed low insertion / extraction force contacts help ensure maximum performance in extreme conditions.



Wildcat UAV UltraLITE HE and Wildcat UAV Micro UltraLITE HE (UAVU) Series Connectors

The Wildcat UAV Micro UltraLITE HE connectors offer a small and lightweight connector for 3 and 5 wires. The Wildcat UAV Micro UltraLITE HE connectors are a solution where space and weight are restricted.



Wildcat UAV Mini Series Connectors

The Wildcat UAV Mini Series connector bridges the gap between the existing standard Wildcat UAV Series (Size 8) and the Wildcat UAV Micro range (Size 6), offering 6-way and 3-way connectors in three shell styles.



Wildcat UAV Standard Series Connectors

Developed by TE's engineers from the MIL-C-38999 Series 1.5 (Eurofighter connector), the Wildcat UAV Series connector was the first range of high specification connectors designed for the autonomous market. TE Wildcat UAV Series connector offers weight and space saving over standard military designs and is available a wide variety of options, with medium and high density arrangements up to 128 ways with four shell styles, and five keyway orientations.



Wildcat UAV Micro HE Hermetic Series Connectors

- Filtered Hermetic option also available
- Stainless Steel (316) for ease of mounting and corrosion performance
- Titanium versions for light weight applications also available
- Glass seal can withstand pressure differentials of 1000 psi without loss of electrical performance or fluid leakage in five keyway orientations

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TECHNICAL SPECIFICATIONS

Wildcat UAV Micro XtraLITE HE 3 Way Connector	Ultra compact design (Size O2 shell) <ul style="list-style-type: none">• Minimum space envelope• 3 contacts Size #22• PCB option• Smaller and lighter than Wildcat UAV UltraLITE (UAVU) series connectors	Easy installation <ul style="list-style-type: none">• Positive locking coupling mechanism• Suitable for blind mating• Scoop proof interface• Boot termination feature	Built to withstand harsh environments <ul style="list-style-type: none">• Conductive black zinc nickel finish• Interfacial wire sealing• Bonded and sealed insert to help prevent moisture ingress
Wildcat UAV Micro XtraLITE HE 5 Way Connector	Ultra compact design (size O2 shell) <ul style="list-style-type: none">• Minimum space envelope• 5 contacts Size #24• PCB option• Smaller and lighter than Wildcat UAV UltraLITE (UAVU) series connectors	Easy installation <ul style="list-style-type: none">• Positive locking coupling mechanism• Suitable for blind mating• Scoop proof interface• Boot termination feature	Built to withstand harsh environments <ul style="list-style-type: none">• Conductive black zinc nickel finish• Interfacial wire sealing• Bonded and sealed insert to help prevent moisture ingress
Wildcat UAV Micro XtraLITE HE 6 Way Connector	Ultra compact design (size O2 shell) <ul style="list-style-type: none">• Minimum space envelope• 6 contacts Size #24• PCB option• Smaller and lighter than Wildcat UAV UltraLITE (UAVU) series connectors	Easy installation <ul style="list-style-type: none">• Positive locking coupling mechanism• Suitable for blind mating• Scoop proof interface• Boot termination feature	Built to withstand harsh environments <ul style="list-style-type: none">• Conductive black zinc nickel finish• Interfacial wire sealing• Gold-plated crimp contacts• Bonded and sealed insert to help prevent moisture ingress
Wildcat UAV UltraLITE HE & Wildcat UAV Micro UltraLITE HE (UAVU) Series Connectors	TE Wildcat UAV designed product <ul style="list-style-type: none">• Smaller alternative to UAVL range• Cable accommodation 24-30 AWG (5 way), 22-28 AWG (3 way)• 17% smaller coupling ring than UAVL• 30% lighter than UAVL (mated pair)	2 different contact options <ul style="list-style-type: none">• 5x AWG 24 contacts• 3x AWG 22 contacts	Built to withstand harsh environments <ul style="list-style-type: none">• Conductive black zinc nickel finish• Interfacial wire sealing• Bonded and sealed insert to help prevent moisture ingress
Wildcat UAV MicroLITE HE (UAVL) Series Connectors	Compact design (size O6 shell) <ul style="list-style-type: none">• Designed for sensor applications• 5 contacts Size #23• PCB option	Easy installation <ul style="list-style-type: none">• Positive locking coupling mechanism• Suitable for blind mating• Scoop proof interface• Boot termination feature	Built to withstand harsh environments <ul style="list-style-type: none">• Conductive black zinc nickel finish• Interfacial wire sealing• Bonded and sealed insert to help prevent moisture ingress
Wildcat UAV Mini Series Connectors	<ul style="list-style-type: none">• Size O7 shell• Smaller option to MIL-DTL-38999 spec size O8 shell• 2 planform options• 3 or 6 contact options	<ul style="list-style-type: none">• Integral screen termination Ideal for braided cable installations• Cable accommodation 20, 22, 24 and 26 AWG• Offers size 8 insert arrangement in smaller shell• Conductive black zinc nickel finish	
Wildcat UAV Double Density (UAVDD) Series Connectors	Next generation connector - high density and high performance 8 shell sizes <ul style="list-style-type: none">• Allows for a saving of 2 shell sizes relative to standard planforms• Very lightweight• Almost double the number of contacts compared with the standard• range equivalent shell size• Integral screen		Built to withstand harsh environments <ul style="list-style-type: none">• Conductive black zinc nickel finish• Interfacial wire sealing• Bonded and sealed insert to help prevent moisture ingress
Wildcat UAV Standard Series Connectors	Large application choices <ul style="list-style-type: none">• Filter, hermetic & fiber optic options available Shell sizes 08 - 24• Intermateable with existing LN29729 (Mil-C 38999 Series 1.5) and Pan 6433-2 style connectors• High density arrangements		Built to withstand harsh environments <ul style="list-style-type: none">• Conductive black zinc nickel finish• Interfacial wire sealing• Bonded and sealed insert to help prevent moisture ingress
Wildcat UAV Heavy Duty (UAVHD) Series Connectors	Wildcat UAV design for high current applications <ul style="list-style-type: none">• Early break / Late mate on data contacts for safety• Cable accommodation from 16mm² - 70mm²• Positive locking coupling mechanism		Built to withstand harsh environments <ul style="list-style-type: none">• Environmentally sealed• Thermal cycle tested• Heavy duty rated• Crimp type solid and gold plated copper contacts• Conductive black zinc nickel finish



MORE INFO

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