



DATA SHEET

HTC Titanium Connector

The HTC Series is designed to meet the requirements of MIL-DTL-83723, EN2997 and Rolls-Royce ESC standards specifically for use on Aero-Engine applications.

The standard range of HTC connectors is manufactured from Stainless Steel in order to meet the extreme temperatures, high vibration environment and the need for RoHS compliance required for Aero-Engine applications.

However, the increased performance that Stainless Steel offers also means a significant weight penalty when compared to connectors manufactured from aluminium alloy.

In order to reduce this weight burden without compromising performance*, Amphenol now manufacture the connectors from Titanium. This provides comparable performance to Stainless Steel, but with a 30% weight-saving which is a significant benefit in Aero-Engine applications where weight is critical.

Compliant with the new Rolls-Royce ESC20 and ESC21 specifications, the connector series features integral back-shell cable termination and is widely used on current major engine programs

Key Features

- Lightweight
- Integral backshell for direct cable termination
- Tested to high frequency KV vibration
- Shell sizes 08 to 24
- Size 12, 16 and 20 signal contacts
- -65°C/+260° operating temperature
- Available in Scoop Proof format (shell size 14 and over with size 20 contacts)

* Mating durability is 50 operations for Titanium

HTC Titanium Connectors

Ordering Information
e.g. HTC-56TV24-61P6

Series	Interface	Shell Style	Class	Shell Size	No of Contacts	Contact	Orientation
HTC	0 - Non Scoop-Proof, Accessory Thread (ESC10 Shell Style)	0 - Wall Mount	SE	08 to 24	03 to 61	P: Pin	N
		4 - Wall Mount (Clinch Nuts)	KV			S: Socket	6
	1 - Scoop-Proof, Accessory Thread (ESC11 Shell Style)	6 - Plug (Non Decoupling)	TV				7
							8
							9
5 - Non Scoop-Proof, Integral Backshell (ESC15/ESC20 Style)	7 - Jam Nut						
6 - Scoop-Proof, Integral Backshell (ESC16/ESC21 Shell Style)							

Class Definition

SE = Stainless Steel, Fire Wall, -5° to 260°C rated, with EMI/RFI Band

KV = Stainless Steel, Fire Wall, High Vibration, -65° to 260°C rated

TV = Titanium, High Vibration, -65° to 260°C rated