



- 50%



DATA SHEET

Lightweight Aluminium Connector

SCE2FC

Amphenol's SCE2FC connector series is now available in a new lightweight Aluminium option. SCE2FC connectors have long been used in military communications equipment so this new extension to the product range is perfectly suited not only to weight critical soldier system applications but also industrial applications such as hand-held instrumentation.

The miniature size and footprint of the SCE2FC connector series makes it a popular choice for applications where space is at a premium i.e. hand-held devices and highly connectorised equipment, however these applications are often also subject to strict weight restrictions.

The entire SCE2FC product range is now available in this new lightweight Aluminium shell material which is finished in the latest RoHS compliant, Cadmium Free, Black Zinc Nickel plating finish. Typical weight savings are as much as 50% compared to the standard SCE2FC product which is made from Brass.

All popular performance features and high specifications of the SCE2FC product range have been retained, i.e IP68 sealing in mated and unmated conditions, platforms with up to 37-contacts, integral backshell for low cost overmoulding and of course the unique mating mechanism which allows the same plug to mate with either break-away or locking receptacles.

The new Lightweight SCE2FC is fully intermateable and backwards compatible with original SCE2FC connectors.

Key Features

- Weight Reduction** New lighter weight option, Weight saving of up to 50%, Ideal for handheld equipment
- Mechanical** Two different mating styles, Integral backshell for screening, Up to 37 contacts, 2000 mating cycles, 5 different keying options, Miniature footprint <12mm ø
- Environmental** Aluminium Shell, Black Zinc Nickel Plating, Temp Range -55°C to + 125°C, RoHS compliant, IP68 sealing as standard in mated and unmated condition, 500hrs salt spray
- Electrical** Suitable for Gigabit Ethernet, USB 2.0, Micro-USB version available

Lightweight SCE2FC Connector

Data Transmission

Amphenol's SCE2FC connector series is widely used for Ethernet, Fast Ethernet and Gigabit Ethernet transmission in harsh environments where IP68 sealing, corrosion resistance and high vibration endurance are required. Rigorously tested at system level to MIL-STD-810F, the properties of SCE2FC connectors facilitate miniaturisation of equipment such as LAN switches, Net-centric devices and IP-enabled computing devices. Suitable for both Military and Industrial applications, Amphenol's SCE2FC connectors are easily terminated to both unscreened and screened commercial Cat 5, 5e and 6 Ethernet cables with an integral backshell for braid termination giving 360° shielding.



Aluminium Black Zinc Nickel



Brass Black Silver

Ordering Information

eg. **SCE2FC-ZN-76A06-07SN-001**

Series	Plating Finish	Style	Shell Size & No. of Contacts	Contact Style	Key Orientation	Contact Terminations
SCE2FC	ZN = Aluminium Black Zinc Nickel B = Brass Black Silver	76A = Rear Mount Jam Nut Plug 01K = Inline Push Pull Receptacle L1K = Inline Latch Receptacle 06K = Inline Plug	06-07 07-10a 07-12 07-14 08-19 09-26 10-37	P = Pin S = Socket	N = Normal A B C D	001 = PC Tails 002 = Solder Buckets

*For alternative plating finishes, shell styles and dimensional information please refer to generic SCE2FC connector catalogue

Typical Applications

- Battlefield Communications
- Handheld Devices and Dataloggers
- Ethernet, Power Over Ethernet (POE) and Ethernet Switch Devices
- Measuring and Monitoring Equipment
- CCTV and ANPR
- LED Lighting