



DATA SHEET

Rugged Ethernet Connector

TERRAPIN

Amphenol Terrapin is a rugged connector series suitable for Gigabit Ethernet transmission. Used extensively in soldier communications, Amphenol Terrapin is a series of miniature circular push-pull connectors.

Amphenol's Terrapin 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 Terrapin connectors facilitate miniaturisation of equipments such as LAN switches, net-centric devices and IP-enabled computing devices.

Terrapin connectors are easily terminated to both unscreened and screened commercial Cat 5, 5e and 6 Ethernet cables with an integral backshell for braid termination facilitating 360° shielding.

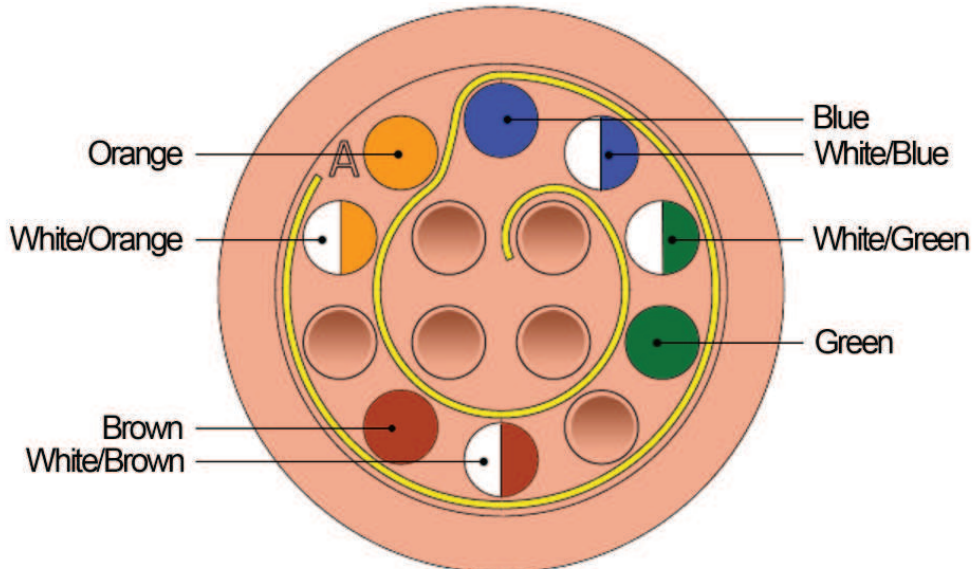
The Terrapin connector series offers two different styles of connection, both utilising the same plug connector. Either a simple push-pull receptacle can be used for a breakaway connection or the latched receptacle features a coupling ring to prevent inadvertent de-mating. Both connection styles are IP68 sealed in mated and unmated conditions and proven for 2000 mating cycles.

Key Features

- **Data Transmission** 10 BaseT, 100 BaseTX, 1000 BaseT networks, spare channels for additional signal lines, 360° screen termination, EMC performance to Def-Stan 59-41 Land Service Class A.
- **Mechanical** Two different mating options, integral backshell for screen termination and overmoulding, 2000 mating cycles, 5 different keying options, miniature footprint < 16mm Ø
- **Environmental** Operating Temperature range -55°C to +125°C, IP 68 sealing tested to 1hr @ 20m, 1000hrs salt spray, RoHS compliant, Vibration: 10g Sine, 30 hrs, 5KHz, Shock: 100g half-sine, 6ms Humidity: 56 days, 40°C, 95% R.H
- **Standards** System approved to MIL-STD-461E, MIL-STD-810F/G

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Wiring Recommendations



Illustrative Rear View of Receptacle Connector

Wiring colours shown for illustration purposes only. Termination may be customer specified.

Ordering Information

- SCE2-B-76A07-14SN-001 (Jam Nut, PC Tails) or
- SCE2-B-76A07-14SN-002 (Jam Nut, Solder Buckets)

And to mate with either of the above, one or other of:

- SCE2-B-01K07-14PN (Push-pull, breakaway style)
- SCE2-B-L1K07-14PN (Latch, coupling ring style)



A range of caps, accessories and overmoulded cable assemblies are available to suit, details can be found in the Terrapin Catalogue.

Typical Applications

- Rugged Networks
- Battlefield Communications
- Ruggedised Routers and LAN switches
- Harsh Environment Data Collection
- Robotics
- Rail and Mass Transit Data Transmission
- Combat Vehicles
- Shipboard Systems

