

Product Facts

- Ergonomically designed for clinician and patient comfort
- Available with anatomical 8 + 2 or unidirectional 10 layout
- Wide variety of patient and equipment connectors
- Small, flexible and long flex-life leads
- Latex-free



Suitable for diagnostic/stress and resting ECG

The **ERGOLINE Patient Cable Assembly** meets all applicable performance requirements of the ANSI/AAMI EC-53 1995 Standard for ECG Cables and Leadwires and has been validated to meet EN60601-2-25 defibrillation withstand.

The low-profile ERGOLINE fixed lead patient cable sets a new standard for ergonomics, quality and value in patient cables for cardiology and monitoring applications. With its sleek appearance, smooth touch and ease of use, the ERGOLINE patient cable is designed to deliver the utmost in flexibility, comfort and reliability in a fixed lead patient cable. This one-piece cable and lead wire assembly is suitable for physician-based single and 3 channel ECG machines.

The ERGOLINE patient cable assembly has a light weight, low profile housing clad with a soft, comfortable polymer for patient and operator comfort. Best design and manufacturing practices, tight form and fit tolerances and a high yield clamshell design deliver a system that is comfortable, durable, reliable and cost effective.

The cable and lead wires are shielded, low noise

constructions. Resistors for defibrillation protection are safely housed in the yoke (10k, 20k or 51k ohm), or banana or straight pin lead wire termination (10k or 20k ohm resistors). The trunk cable and lead wires are jacketed with TPR for durability and superior flex-life. The assembly is designed to withstand hospital standard alcohol wipe down (IPA 70%). Smooth flex-reliefs eliminate exposed interstices. ERGOLINE patient cable assemblies are color coded and imprinted in either AHA and IEC protocols. Custom labels are easily accommodated with customer provided artwork.

Testing and Validation

The concept, design and prototypes have been subjected to rigorous failure modes and effects analysis (FMEA) to determine the quality, reliability and safety prior to production. Additionally, first run product was subjected to a thorough

battery of qualification tests. Mechanical attributes (flex-life, tensile strength, microphonic noise), electrical characteristics (defib withstand, defib recovery, touch-proof, sink current and dielectric withstand) and environmental effects (cleaning, temperature and humidity) were evaluated for product performance, reliability and safety.

For More Information

For the latest additions to the product family, access to technical data or to contact a product specialist go to:

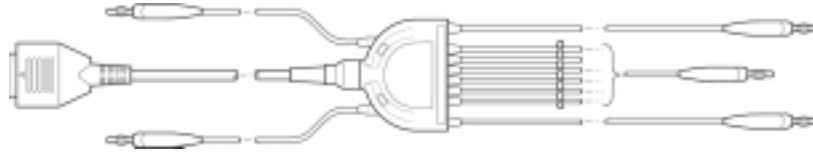
www.tycoelectronics.com/pi/ergo

Configurations and options

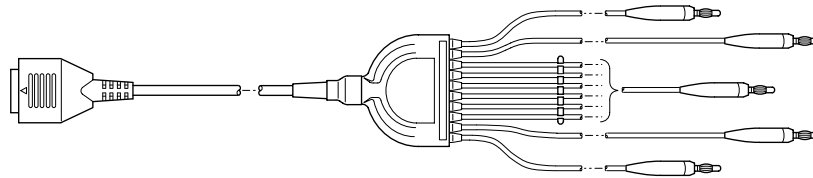
Patient Cables

The one-piece assembly combines an 2 meter (80 inch) trunk cable with lead wires in either an anatomical 8 + 2 lead or unidirectional 10 lead layout. Shielded, low noise cable minimizes microphonic noise and electrical interference. Flex-reliefs at the connector and cable yoke provide added durability and reduce conductor breakage. The cable is available in AHA or IEC nomenclature and color coded patient terminations. Lot numbers are included to indicate equipment compatibility and product traceability.

Lead Layouts for Ergoline Lead Patient Cable



Anatomical 8 + 2
V leads 53 cm (21 in) • Arm leads 84 cm (33 in) • Leg leads 114 cm (45 in)

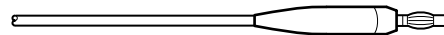


Unidirectional 10
V leads 53 cm (21 in) • Arm leads 84 cm (33 in) • Leg leads 114 cm (45 in)

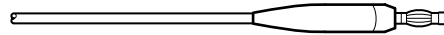
Patient Connectors

Lead wires can be terminated to a variety of patient connectors to mate with adapters or industry standard electrode attachments. The Uniclip design is suitable for both snap and tab style electrodes. Shielded lead wires are jacketed in TPR and have color coded flex reliefs. Lead wires can accommodate 10k or 20k ohm resistors (banana and straight pin only).

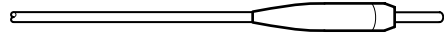
Patient Connectors for Ergoline Patient Cable



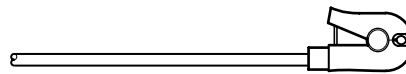
4 mm banana



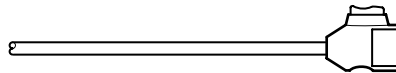
4 mm insulated banana



.125 in (3.2 mm) straight pin



Pinch



Uniclip

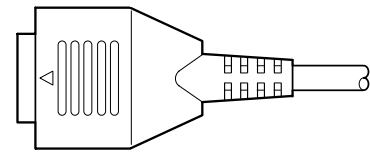
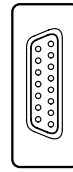
Configurations and options (Continued)

Equipment Connectors

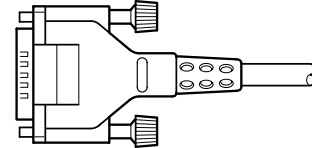
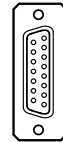
A variety of 15 pin D-sub-miniature connector solutions are available in either metal or plastic connectors, overmolded housings and straight or angled flex-reliefs. Connectors are surrounded by insert molded flex-reliefs to protect terminations and extend product life.

Equipment Connectors for Ergoline Patient Cable

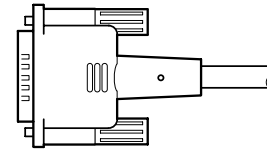
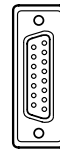
15 pin D-sub



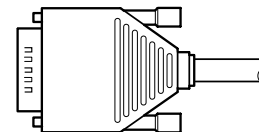
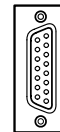
15 pin D-sub with screws and raise



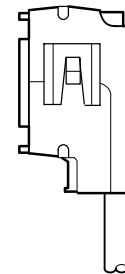
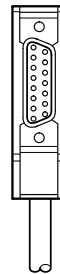
15 pin D-sub with screws



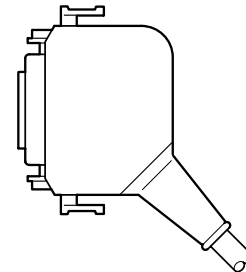
15 pin D-sub with screws (alternate)



15 pin D-sub with 90 degree angle



15 pin D-sub with 45 degree angle

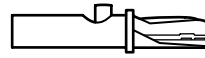


Configurations and options (Continued)

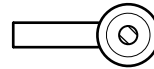
Adapters

Adapters and alligator clips convert banana plugs and straight pins for use with snap or tab type electrodes. These light, one piece adapters are small and fully shielded. For pigtails, either snap, pinch or alligator clips are terminated to six inch (15.3 cm) unshielded lead wire with sockets on opposite end. Socket sizes are available to mate with 4 mm banana plug and .125 in straight pin. Sold in packages of 10.

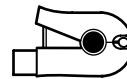
Adapters



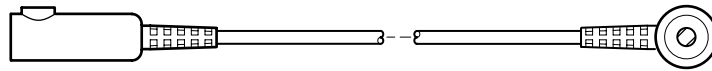
Alligator clip
Gray/red • Fits 4mm



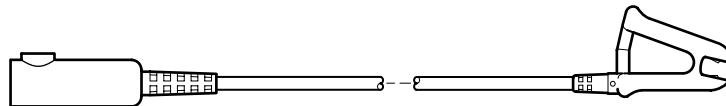
Flat snap adapter
White • Fits 4 mm



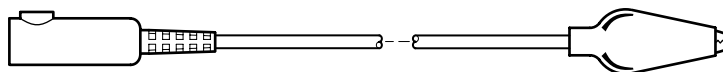
Pinch adapter
White • Fits 4 mm



Socket to flat snap
White • Fits 4 mm and .125 in



Socket to pinch
White • Fits 4 mm and .125 in



Socket to alligator
White • (Covered with soft rubber boot) • Fits 4 mm and .125 in

Copyright 2004 by Tyco Electronics Corporation. All Rights Reserved. TYCO, PRECISION INTERCONNECT and ERGOLINE are trademarks. Other products, logos, and company names mentioned herein may be trademarks of their respective owners. Dimensions are shown for reference purposes only. Specifications subject to change. For more information about PRECISION INTERCONNECT cable assemblies, go to www.tycoelectronics.com/pi

1654921-5M-GIC-FP-03-04
Printed in the U.S.A.