INTRODUCING

ETHERNET CABLE STRIPPING & CRIMPING MACHINE (ESM-10)

- **AI vision inspection function**
- **Flexible Configuration**



TE Connectivity's (TE) new ethernet cable stripping & crimping machine (ESM-10) improves efficiency, quality and is a cost-effective solution for ethernet twisted pair cable processing in data connectivity wire and harness applications. This machine offers cable loading, cable zero cutting, stripping, crimping and a vision inspection function. The AI vision inspection feature can check the stripping quality, count the conductor's number, re-align the cable position and assess the final crimping quality. If there is an issue with the wire or crimping quality, an alarm will notify the operator and unload the cable or stop to cut the cable. This machine can offer flexible configurations covering different products, including MATEnet and GEMnet cable assemblies and can easily extend to future data connectivity products. This cost-effective, compact sized, one machine solution can cover full ranges of both coaxial and differential products while enabling a quick changeover time of less than 15 minutes.

APPLICATIONS

Data connectivity

- Systems
- Infotainment
- Safety
- In-vehicle networks

TECHNICAL DETAILS

Electrical

- Force and displacement
- AI Vision System
- Color Sensor

Mechanical

- Stripping- auto Adjustment
- TE Applicator
- Crimping Station-Adjust

Specifications

- MATEnet 114
- GEMnet 114

LEARN MORE

- Landing Page
- Ethernet Cable Stripping & Crimping Machine (ESM-10) Product Brochure
- Video

KEY BENEFITS

- The AI vision inspection feature can check the stripping quality, count the conductor's number, re-align the cable position and assess the final crimping quality. If there is an issue with the wire or crimping quality, an alarm will notify the operator and unload the cable or stop to cut the cable
- The integrated force and displacement sensor monitoring the crimp quality
- The color sensor checks the cable color
- This machine is able to support GEMnet cable assemblies with applicator changes and software configurations
- Can upgrade non-vision machines to include the vision
- Inspection function and can easily extend to future data connectivity products
- This one machine solution covers differential products with a quick change over time, less than 15 minutes avoiding production down time

KEY TECHNICAL DETAILS

- Modulization design
- Compact Size
- Cycle Time should less than 5.5s. (4s, Base config)
- Changeover time less than 15min.
- Terminal Reel
- Paper winder
- Waste Segregated Collection System
- Barcode Scanner (Optional)
- MES can be provided as basics or customized
- AI Vision Inspection, quick-change-over

TE Connectivity, TE and TE connectivity (logo) are trademarks.