

TENSILITY

High-Voltage M12 Connectors and Wire with S, T, L Coding Options

FAQs

- **What's the difference between S, T, and L coding in M12 connectors?**
S-coding supports high-voltage power (up to 630 V AC), T-coding supports 63 V DC for data/power hybrid systems, and L-coding is optimized for high-current industrial power delivery.
- **Can these connectors handle both AC and DC power?**
Yes. S-coding supports up to 630 V AC, while T- and L-coding configurations handle up to 63 V DC for power-specific applications.
- **What's the benefit of UL 21767-rated wire?**
It ensures 600 V high-voltage performance, VW-1 flame rating, and oil/UV resistance—critical for safe use in harsh industrial settings.
- **What's the advantage of the TPU jacket on the wire?**
TPU offers superior flexibility and toughness, with resistance to abrasion, oil, and UV damage, and operates reliably from -40 to 105 °C.
- **Are these connectors IP67-rated?**
Yes, when fully mated, the connectors are IP67 dustproof and waterproof.
- **How many insertion cycles can these connectors handle?**
Tested for 500+ cycles, ensuring long-term reliability in demanding applications like automation or heavy machinery.