

› POWERFUL
› ROBUST
› CERTIFIED

BIZLINK HYBRID MOTOR CABLE

with PLTC-ER & TC-ER
approval



Developed for the special requirements of drive technology.

The new hybrid motor cable from BizLink was developed specifically for the high demands of electric drive technology. It combines power, control, and data elements in a single flame-retardant and oil-resistant cable.

Designed for long-term use in harsh, industrial environments.

Careful shielding of each element ensures the interference-free transmission of signals and data. This cable is the optimal solution for demanding mechanical and plant engineering projects that require the highest reliability and conformity.

➔ **Key advantage › PLTC-ER approval.**

BizLink cables with TC-ER approval are also the ideal choice for projects requiring higher voltages and power ratings.



The PLTC-ER approval is a specific electrical cable certification based on the US National Electrical Code (NEC, Article 725) and UL standards. It defines that a Power Limited Tray Cable (PLTC) is additionally permitted to carry the ER = Exposed Run designation.

EXPLANATION OF TERMS

- **PLTC (Power Limited Tray Cable) ›**

A type of cable rated up to 300 V, used in cable trays for control, signal, or communication purposes.

- **TC (Tray cable) ›**

A type of cable rated up to 600 V, used in cable trays for control, signal, or communication purposes.

- **ER (Exposed Run) ›**

Cables with this additional classification are approved for unprotected, open routing outside of the cable tray – meaning they can be run directly from the cable channel to a machine or device.



BIZLINK HYBRID MOTOR CABLE

Certified safety

PLTC-ER APPROVAL

(Power Limited Tray Cable – Exposed Run)



This approval is the key to safe and efficient installation. It allows the cable to be laid in the open without additional protective conduits.

FLAME TESTS

To receive this approval, the cable must pass strict flame tests according to UL 1685 FT4 and UL 1581 FT1, which guarantees the highest level of safety. Additionally, the cable meets the requirements of IEC 60332-1-2, which underscores its global applicability.

Technical highlights

The cable is designed for use in harsh industrial environments. Each element is carefully shielded to ensure interference-free signal and data transmission.

THREE IN ONE



The cable combines 4 power cores for power transmission, 4 shielded control cores, and optionally a shielded coaxial element for data transmission.

WIDE TEMPERATURE RANGE

The cable withstands operating temperatures from -10°C to $+90^{\circ}\text{C}$ and performs well in static installations down to -40°C .

HIGH ROBUSTNESS

The outer jacket, made of a highly flame-retardant PVC, provides reliable protection against environmental influences.

HIGH FLEXIBILITY

With a bending radius of up to 10x the outer diameter during occasional movement, the cable is perfect for this application.

Cable designs / approvals in comparison – TC-ER / PLTC-ER

TC-ER construction	PLTC-ER construction	TC-ER approval	PLTC-ER approval	
Standard cable 3x 1.0 mm ² – 12 x 1.0 mm ² 3x 1.5 mm ² – 11x 1.5 mm ² 3x 2.5 mm ² – 25x 2.5 mm ² 3x 4.0 mm ² – 7x 4.0 mm ² 3x 6.0 mm ² – 25x 6.0 mm ² 5x 10.0 mm ² – 7x 10.0 mm ² 5 x 16.0 mm ²		600 V	300 V or less*	Rated voltage
		Power supply and control (higher power)	Control and signal transmission (limited power)	Main application
		Industrial machines, power supply	Alarm systems, communication systems, instrumentation	Area of application
Hybrid cable 9x 2.5 mm ² + 4x AWG18 4x 4.0 mm ² + 3x 1.0 mm ² 7x 4.0 mm ² + 3x 1.0 mm ² 3x 6.0 mm ² + 1x 1.0 mm ² 4x 6.0 mm ² + 3x 1.0 mm ² 5x 6.0 mm ² + 2x 1.0 mm ² 7x 6.0 mm ² + 6x 1.0 mm ² 4x 10.0 mm ² + 3x 1.1 mm ²	Hybrid cable 4x 2.5 + 4 x 1.0 + 1x Koax 4x 4.0 + 4 x 1.0 + 1x Koax 4x 6.0 + 4 x 1.5 + 1x Koax 4x 10.0 + 4 x 1.5 + 1x Koax	UL 1277	UL 13	Certification

* In the signal cable area, the PLTC-ER listing can be combined with a 600 V AWM style to achieve a higher voltage class.