Tray Cable (TC) — Power, Control & Instrumentation

600V · 90°C | Open Cable Tray · Conduit · Direct Burial | Industrial & Utility Infrastructure

PRODUCT OVERVIEW

Mirabel Energy USA Tray Cable (TC) is a multi-conductor cable engineered for power, control, and instrumentation wiring in industrial plants, utility substations, process facilities, and data center infrastructure. Rated for open cable tray, conduit, and direct burial installation per NEC Article 336, TC cable provides a versatile wiring solution that eliminates the need to specify and stock separate cable types for tray vs. conduit applications. TC-ER (Exposed Run) listed cables are approved for installation without conduit in exposed surface wiring applications, providing additional labor savings in industrial and commercial construction. Available in power, control, and instrumentation variants — with shielded and unshielded options and conductor counts ranging from 2 to 37 conductors. XLPE insulated construction provides superior heat, moisture, and chemical resistance for long-term reliability in demanding process environments.

600V	90°C	Tray / Conduit / Burial	TC-ER: No Conduit
Voltage Rating	Temperature Rating	Installation	TC-ER Advantage

APPLICATIONS

- Open cable tray power and control wiring in industrial plants
- Utility substation control building panel and relay wiring
- Process plant instrumentation and signal cable in cable tray
- Motor control center (MCC) and switchgear control circuit wiring
- SCADA and DCS field device wiring in open tray environments
- Data center structured power and control distribution in raised-floor trays

KEY SPECIFICATIONS

- UL 1277 TC and TC-ER listed — tray, conduit, and direct burial rated
- TC-ER: approved for exposed surface wiring without conduit (NEC 336.10)
- XLPE or PVC insulated conductors — 90°C temperature rating
- Available in 2 through 37 conductor configurations
- Shielded (OS + drain wire) and unshielded options for instrumentation grades
- Flame-retardant per IEEE 1202 — passes 70,000 BTU/hr vertical tray flame test
- Sunlight resistant PVC or LSZH outer jacket options
- Conductor sizes #18 AWG through #4/0 AWG — power and control ranges

TECHNICAL SPECIFICATIONS

Parameter	TC Power / Control	TC Instrumentation
Voltage Rating	600V	300V (pairs/triads)
Temperature Rating	90°C	90°C
Conductor Count	2–37	2–24 pairs/triads
Shielding	Optional OS	IS + OS standard
Conductor Sizes	#18 AWG – #4/0 AWG	#18 AWG – #14 AWG
Jacket	PVC / LSZH / SR-PVC	PVC / LSZH / SR-PVC
Standard	UL 1277 / NEC 336	UL 1277 / NEC 336

SIZES & CONFIGURATIONS
#18 AWG – 4/0 AWG | 2–37 conductors | Shielded and unshielded | TC and TC-ER

STOCKING LOCATIONS
Reno, NV · Houston, TX
Standard & project-phased delivery

OEM REPRESENTATIVE
GCP Energy LLC — Salt Lake City, UT
portal.gcpenergy.us