



## K-PLUS 7000 TC ER MTW UL

**Description:**

Drag chain application, increased oil-resistant Control and Power supply Cables, conforming to NFPA 79 2007 wiring norms and NEC 336.10(7) manufactured according to UL 1277 (Tray cable - Exposed run - Oil resistant) and UL 1063 (MTW).

**Design:**

**Construction:**

Cores type TFF for sizes 1 and 1,5 mm<sup>2</sup> and UL Listed THHW for bigger sizes  
Extra Flexible bare copper conductors according to CEI 20-29 Class 6, DIN-VDE 0295 K6 and UL 83 standard  
Special PVC Insulation compound type QMTT2  
Nonwoven tape over each layer  
Outer sheath in special PVC according to UL 1277 and UL 1063

**Manufacturing's Controls:**

Test and Control according to our certificated **ISO 9001-2015** CSQ-IMQ (EQ-NET) Quality System procedure.

Labor tests reports are stored in our internal Q.C. laboratory archive together with the production reports

**Norms:**

Flammability of Cable according category FT4/IEEE of Vertical-Tray Fire-Propagation and Smoke-Release Test for Electrical and Optical-Fiber Cables, UL 1685 standard.

Construction according to UL 1277 and UL 1063 (Oil-resistant according to UL OIL RES I and Water-resistant, UL Wet Approval 75 °C)

American and Canadian UL recognized according to UL AWM styles 10012 and 2587 and CSA AWM I/II A/B

The cable is conform to Low Voltage Directive (LVD) 2014/35/EU CE

**Technical dates:**

- Nominal voltage : 600 V
- Spark Test voltage: 6000 V
- Fixed installation working temperature: -40°C to + 90°C
- Occasional flexing working temperature: -5°C to + 90°C
- Fixed installation minimum bending radius = 4 x cable Ø
- Flexing chain installation min. bending radius = 7,5 x cable Ø
- Max Speed Unsupported 3 m/s  
gliding 2 m/s
- Max Acceleration 20 m/s<sup>2</sup>
- Max Torsion Max ±90°, for 1 m cable length

**Use:**

Efficient stocking! These control cables are especially suitable for export-orientated machinery. Designed for 5 million alternating bending cycles and horizontal travel distances up to 10 meters.

Suitable to be used in dry, damp and wet interiors (including water-oil mixtures). Machine tools compliant with UL MTW (Machine Tool Wiring)

TC-ER (Tray Cable Exposed Run) approval for open wiring between cable tray and industrial machines/plants acc. to NEC 336.10(7)

Class 1, Div. 2 in accordance with NEC "National Electrical Code" Art. 336, 392, 501