



## TRAY CABLE EXPOSED-RUN CONSTRUCTION

UL 1277 TC-ER

28 orderable sizes

<b>STANDARD</b> UL 1277 TC-ER	<b>VOLTAGE CLASS</b> 600 V	<b>TEMPERATURE CLASS</b> 90 °C dry / 75 °C wet guide
<b>CONDUCTOR</b> Fine stranded bare copper conductor	<b>INSULATION / JACKET</b> Oil, sunlight and crush resistant PVC tray jacket	

### Construction

- 1 ■ Conductor (per core) – Fine stranded bare copper conductor · 30 × Ø0.24 mm · IEC 60228 cl.5
- 2 ■ Core insulation – PVC nylon insulation
- 3 ■ Filler – PP filler
- 4 ■ Sheath – Oil, sunlight and crush resistant PVC tray jacket

### Size selection — all available cross-sections

Cable reference	Tray cable duty	Circuit type	Core / pair design	Conductor size	Voltage class	Max DC resistance at 20 °C	OD guide
TC-ER 600 V Exposed-run power and control tray Power and control 3 core 18 AWG / 0.82 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	3 core	18 AWG / 0.82 mm <sup>2</sup>	600 V	22.6 Ω/km	12.2 mm
TC-ER 600 V Exposed-run power and control tray Power and control 3 core 16 AWG / 1.31 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	3 core	16 AWG / 1.31 mm <sup>2</sup>	600 V	14.1 Ω/km	12.6 mm
TC-ER 600 V Exposed-run power and control tray Power and control 3 core 14 AWG / 2.08 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	3 core	14 AWG / 2.08 mm <sup>2</sup>	600 V	8.89 Ω/km	13.1 mm
TC-ER 600 V Exposed-run power and control tray Power and control 3 core 12 AWG / 3.31 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	3 core	12 AWG / 3.31 mm <sup>2</sup>	600 V	5.59 Ω/km	13.7 mm

Cable reference	Tray cable duty	Circuit type	Core / pair design	Conductor size	Voltage class	Max DC resistance at 20 °C	OD guide
TC-ER 600 V Exposed-run power and control tray Power and control 4 core 18 AWG / 0.82 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	4 core	18 AWG / 0.82 mm <sup>2</sup>	600 V	22.6 Ω/km	12.6 mm
TC-ER 600 V Exposed-run power and control tray Power and control 4 core 16 AWG / 1.31 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	4 core	16 AWG / 1.31 mm <sup>2</sup>	600 V	14.1 Ω/km	13.0 mm
TC-ER 600 V Exposed-run power and control tray Power and control 4 core 14 AWG / 2.08 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	4 core	14 AWG / 2.08 mm <sup>2</sup>	600 V	8.89 Ω/km	13.6 mm
TC-ER 600 V Exposed-run power and control tray Power and control 4 core 12 AWG / 3.31 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	4 core	12 AWG / 3.31 mm <sup>2</sup>	600 V	5.59 Ω/km	14.2 mm
TC-ER 600 V Exposed-run power and control tray Power and control 5 core 18 AWG / 0.82 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	5 core	18 AWG / 0.82 mm <sup>2</sup>	600 V	22.6 Ω/km	13.1 mm
TC-ER 600 V Exposed-run power and control tray Power and control 5 core 16 AWG / 1.31 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	5 core	16 AWG / 1.31 mm <sup>2</sup>	600 V	14.1 Ω/km	13.5 mm
TC-ER 600 V Exposed-run power and control tray Power and control 5 core 14 AWG / 2.08 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	5 core	14 AWG / 2.08 mm <sup>2</sup>	600 V	8.89 Ω/km	14.0 mm
TC-ER 600 V Exposed-run power and control tray Power and control 5 core 12 AWG / 3.31 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	5 core	12 AWG / 3.31 mm <sup>2</sup>	600 V	5.59 Ω/km	14.6 mm
TC-ER 600 V Exposed-run power and control tray Power and control 7 core 18 AWG / 0.82 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	7 core	18 AWG / 0.82 mm <sup>2</sup>	600 V	22.6 Ω/km	13.8 mm
TC-ER 600 V Exposed-run power and control tray Power and control 7 core 16 AWG / 1.31 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	7 core	16 AWG / 1.31 mm <sup>2</sup>	600 V	14.1 Ω/km	14.2 mm
TC-ER 600 V Exposed-run power and control tray Power and control 7 core 14 AWG / 2.08 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	7 core	14 AWG / 2.08 mm <sup>2</sup>	600 V	8.89 Ω/km	14.7 mm
TC-ER 600 V Exposed-run power and control tray Power and control 7 core 12 AWG / 3.31 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	7 core	12 AWG / 3.31 mm <sup>2</sup>	600 V	5.59 Ω/km	15.3 mm

Cable reference	Tray cable duty	Circuit type	Core / pair design	Conductor size	Voltage class	Max DC resistance at 20 °C	OD guide
TC-ER 600 V Exposed-run power and control tray Power and control 12 core 18 AWG / 0.82 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	12 core	18 AWG / 0.82 mm <sup>2</sup>	600 V	22.6 Ω/km	15.2 mm
TC-ER 600 V Exposed-run power and control tray Power and control 12 core 16 AWG / 1.31 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	12 core	16 AWG / 1.31 mm <sup>2</sup>	600 V	14.1 Ω/km	15.6 mm
TC-ER 600 V Exposed-run power and control tray Power and control 12 core 14 AWG / 2.08 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	12 core	14 AWG / 2.08 mm <sup>2</sup>	600 V	8.89 Ω/km	16.1 mm
TC-ER 600 V Exposed-run power and control tray Power and control 12 core 12 AWG / 3.31 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	12 core	12 AWG / 3.31 mm <sup>2</sup>	600 V	5.59 Ω/km	16.8 mm
TC-ER 600 V Exposed-run power and control tray Power and control 18 core 18 AWG / 0.82 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	18 core	18 AWG / 0.82 mm <sup>2</sup>	600 V	22.6 Ω/km	16.6 mm
TC-ER 600 V Exposed-run power and control tray Power and control 18 core 16 AWG / 1.31 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	18 core	16 AWG / 1.31 mm <sup>2</sup>	600 V	14.1 Ω/km	17.0 mm
TC-ER 600 V Exposed-run power and control tray Power and control 18 core 14 AWG / 2.08 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	18 core	14 AWG / 2.08 mm <sup>2</sup>	600 V	8.89 Ω/km	17.5 mm
TC-ER 600 V Exposed-run power and control tray Power and control 18 core 12 AWG / 3.31 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	18 core	12 AWG / 3.31 mm <sup>2</sup>	600 V	5.59 Ω/km	18.1 mm
TC-ER 600 V Exposed-run power and control tray Power and control 25 core 18 AWG / 0.82 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	25 core	18 AWG / 0.82 mm <sup>2</sup>	600 V	22.6 Ω/km	17.9 mm
TC-ER 600 V Exposed-run power and control tray Power and control 25 core 16 AWG / 1.31 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	25 core	16 AWG / 1.31 mm <sup>2</sup>	600 V	14.1 Ω/km	18.3 mm
TC-ER 600 V Exposed-run power and control tray Power and control 25 core 14 AWG / 2.08 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	25 core	14 AWG / 2.08 mm <sup>2</sup>	600 V	8.89 Ω/km	18.8 mm
TC-ER 600 V Exposed-run power and control tray Power and control 25 core 12 AWG / 3.31 mm <sup>2</sup>	Exposed-run power and control tray	Power and control	25 core	12 AWG / 3.31 mm <sup>2</sup>	600 V	5.59 Ω/km	19.4 mm

