



CLEANROOM TORSION CABLE

Cleanroom robot cable reference

6 orderable sizes

STANDARD <b>Cleanroom robot cable reference</b>	VOLTAGE CLASS <b>300 V signal/control circuit</b>	TEMPERATURE CLASS <b>-20 °C to +80 °C cleanroom route guide</b>
CONDUCTOR <b>0.25 mm<sup>2</sup>, 0.34 mm<sup>2</sup></b>	INSULATION / JACKET <b>Cleanroom-compatible TPE outer jacket</b>	

Construction

- 1 Conductor (per core) – Fine-stranded tinned copper conductor · 16 × Ø0.16 mm · IEC 60228 cl.5
- 2 Core insulation – Flexible core insulation selected by motion duty
- 3 Filler – PP filler
- 4 Shield – Braid shield (C)
- 5 Sheath – Cleanroom-compatible TPE outer jacket

Size selection — all available cross-sections

Cable reference	Motion duty	Cable function	Voltage class	Element design	Conductor / element size	Conductor construction	Screen / protection	Jacket	Torsion rating	Temperature class	OD guide	Weight guide
Cleanroom TPE torsion cable 4 core 0.25 mm <sup>2</sup>	Low-particle torsion and bending in clean automation	Control and signal circuits	300 V signal/control circuit	4 core	0.25 mm <sup>2</sup>	Fine-stranded tinned copper conductor	Optional foil/braid screen with low-particle construction	Cleanroom-compatible TPE outer jacket	Up to +/- 360 degrees per 0.5 m guide	-20 °C to +80 °C cleanroom route guide	12.8 mm	144 kg/km
Cleanroom TPE torsion cable 4 core 0.34 mm <sup>2</sup>	Low-particle torsion and bending in clean automation	Control and signal circuits	300 V signal/control circuit	4 core	0.34 mm <sup>2</sup>	Fine-stranded tinned copper conductor	Optional foil/braid screen with low-particle construction	Cleanroom-compatible TPE outer jacket	Up to +/- 360 degrees per 0.5 m guide	-20 °C to +80 °C cleanroom route guide	13.0 mm	151 kg/km
Cleanroom TPE torsion cable 8 core 0.25 mm <sup>2</sup>	Low-particle torsion and bending in clean automation	Control and signal circuits	300 V signal/control circuit	8 core	0.25 mm <sup>2</sup>	Fine-stranded tinned copper conductor	Optional foil/braid screen with low-particle construction	Cleanroom-compatible TPE outer jacket	Up to +/- 360 degrees per 0.5 m guide	-20 °C to +80 °C cleanroom route guide	14.3 mm	163 kg/km
Cleanroom TPE torsion cable 8 core 0.34 mm <sup>2</sup>	Low-particle torsion and bending in clean automation	Control and signal circuits	300 V signal/control circuit	8 core	0.34 mm <sup>2</sup>	Fine-stranded tinned copper conductor	Optional foil/braid screen with low-particle construction	Cleanroom-compatible TPE outer jacket	Up to +/- 360 degrees per 0.5 m guide	-20 °C to +80 °C cleanroom route guide	14.4 mm	177 kg/km
Cleanroom TPE torsion cable 12 core 0.25 mm <sup>2</sup>	Low-particle torsion and bending in clean automation	Control and signal circuits	300 V signal/control circuit	12 core	0.25 mm <sup>2</sup>	Fine-stranded tinned copper conductor	Optional foil/braid screen with low-particle construction	Cleanroom-compatible TPE outer jacket	Up to +/- 360 degrees per 0.5 m guide	-20 °C to +80 °C cleanroom route guide	15.3 mm	182 kg/km
Cleanroom TPE torsion cable 12 core 0.34 mm <sup>2</sup>	Low-particle torsion and bending in clean automation	Control and signal circuits	300 V signal/control circuit	12 core	0.34 mm <sup>2</sup>	Fine-stranded tinned copper conductor	Optional foil/braid screen with low-particle construction	Cleanroom-compatible TPE outer jacket	Up to +/- 360 degrees per 0.5 m guide	-20 °C to +80 °C cleanroom route guide	15.5 mm	203 kg/km