



ROBOT DATA TORSION CABLE

Industrial data torsion cable reference

6 orderable sizes

STANDARD <b>Industrial data torsion cable reference</b>	VOLTAGE CLASS <b>30 V / 300 V signal circuit</b>	TEMPERATURE CLASS <b>-30 °C to +80 °C moving route guide</b>
CONDUCTOR <b>0.14 mm<sup>2</sup>, 0.25 mm<sup>2</sup>, 0.34 mm<sup>2</sup></b>	INSULATION / JACKET <b>Low-adhesion PUR outer jacket</b>	

Construction

- 1 ■ **Conductor (per core)** – Fine-stranded tinned copper data conductor · 16 × Ø0.11 mm · IEC 60228 cl.5
- 2 ■ **Pair insulation** – Flexible core insulation selected by motion duty
- 3 ■ **Filler** – Bedding / filler
- 4 ■ **Overall screen (OS)** – Al/polyester foil + drain
- 5 ■ **Sheath** – Low-adhesion PUR 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
Robotic torsion data cable 2 pair 0.14 mm <sup>2</sup>	Continuous torsion and bending for robot data links	Low-voltage data and sensor communication	30 V / 300 V signal circuit	2 pair	0.14 mm <sup>2</sup>	Fine-stranded tinned copper data conductor	Foil and braid screen for flexible data transmission	Low-adhesion PUR outer jacket	Up to +/- 360 degrees per 0.5 m guide	-30 °C to +80 °C moving route guide	12.6 mm	136 kg/km
Robotic torsion data cable 2 pair 0.25 mm <sup>2</sup>	Continuous torsion and bending for robot data links	Low-voltage data and sensor communication	30 V / 300 V signal circuit	2 pair	0.25 mm <sup>2</sup>	Fine-stranded tinned copper data conductor	Foil and braid screen for flexible data transmission	Low-adhesion PUR outer jacket	Up to +/- 360 degrees per 0.5 m guide	-30 °C to +80 °C moving route guide	12.8 mm	144 kg/km
Robotic torsion data cable 2 pair 0.34 mm <sup>2</sup>	Continuous torsion and bending for robot data links	Low-voltage data and sensor communication	30 V / 300 V signal circuit	2 pair	0.34 mm <sup>2</sup>	Fine-stranded tinned copper data conductor	Foil and braid screen for flexible data transmission	Low-adhesion PUR outer jacket	Up to +/- 360 degrees per 0.5 m guide	-30 °C to +80 °C moving route guide	13.0 mm	151 kg/km
Robotic torsion data cable 4 pair 0.14 mm <sup>2</sup>	Continuous torsion and bending for robot data links	Low-voltage data and sensor communication	30 V / 300 V signal circuit	4 pair	0.14 mm <sup>2</sup>	Fine-stranded tinned copper data conductor	Foil and braid screen for flexible data transmission	Low-adhesion PUR outer jacket	Up to +/- 360 degrees per 0.5 m guide	-30 °C to +80 °C moving route guide	14.0 mm	146 kg/km
Robotic torsion data cable 4 pair 0.25 mm <sup>2</sup>	Continuous torsion and bending for robot data links	Low-voltage data and sensor communication	30 V / 300 V signal circuit	4 pair	0.25 mm <sup>2</sup>	Fine-stranded tinned copper data conductor	Foil and braid screen for flexible data transmission	Low-adhesion PUR outer jacket	Up to +/- 360 degrees per 0.5 m guide	-30 °C to +80 °C moving route guide	14.3 mm	163 kg/km
Robotic torsion data cable 4 pair 0.34 mm <sup>2</sup>	Continuous torsion and bending for robot data links	Low-voltage data and sensor communication	30 V / 300 V signal circuit	4 pair	0.34 mm <sup>2</sup>	Fine-stranded tinned copper data conductor	Foil and braid screen for flexible data transmission	Low-adhesion PUR outer jacket	Up to +/- 360 degrees per 0.5 m guide	-30 °C to +80 °C moving route guide	14.4 mm	177 kg/km