



EMC SHIELDED ROBOT TORSION CONTROL CABLE

DIN VDE / UL AWM robot cable reference

12 orderable sizes

STANDARD <b>DIN VDE / UL AWM robot cable reference</b>	VOLTAGE CLASS <b>300/500 V</b>	TEMPERATURE CLASS <b>-40 °C to +80 °C moving route guide</b>
CONDUCTOR <b>0.25 mm<sup>2</sup>, 0.34 mm<sup>2</sup>, 0.5 mm<sup>2</sup>, 0.75 mm<sup>2</sup></b>	INSULATION / JACKET <b>Abrasion and oil resistant PUR outer jacket</b>	

Construction

- 1 **Conductor (per core)** – Class 6 fine-stranded bare copper conductor · 16 × Ø0.2 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** – Abrasion and oil resistant 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
<b>Shielded robotic PUR torsion control cable 4 core 0.25 mm<sup>2</sup></b>	Continuous robotic torsion with EMC-sensitive control signals	Shielded control and encoder auxiliary circuits	300/500 V	4 core	0.25 mm <sup>2</sup>	Class 6 fine-stranded bare copper conductor	Tinned copper braid EMC screen over torsion-optimized core	Abrasion and oil resistant PUR outer jacket	Up to +/- 360 degrees per 0.5 m guide	-40 °C to +80 °C moving route guide	12.8 mm	144 kg/km
<b>Shielded robotic PUR torsion control cable 4 core 0.34 mm<sup>2</sup></b>	Continuous robotic torsion with EMC-sensitive control signals	Shielded control and encoder auxiliary circuits	300/500 V	4 core	0.34 mm <sup>2</sup>	Class 6 fine-stranded bare copper conductor	Tinned copper braid EMC screen over torsion-optimized core	Abrasion and oil resistant PUR outer jacket	Up to +/- 360 degrees per 0.5 m guide	-40 °C to +80 °C moving route guide	13.0 mm	151 kg/km
<b>Shielded robotic PUR torsion control cable 4 core 0.5 mm<sup>2</sup></b>	Continuous robotic torsion with EMC-sensitive control signals	Shielded control and encoder auxiliary circuits	300/500 V	4 core	0.5 mm <sup>2</sup>	Class 6 fine-stranded bare copper conductor	Tinned copper braid EMC screen over torsion-optimized core	Abrasion and oil resistant PUR outer jacket	Up to +/- 360 degrees per 0.5 m guide	-40 °C to +80 °C moving route guide	13.3 mm	163 kg/km
<b>Shielded robotic PUR torsion control cable 4 core 0.75 mm<sup>2</sup></b>	Continuous robotic torsion with EMC-sensitive control signals	Shielded control and encoder auxiliary circuits	300/500 V	4 core	0.75 mm <sup>2</sup>	Class 6 fine-stranded bare copper conductor	Tinned copper braid EMC screen over torsion-optimized core	Abrasion and oil resistant PUR outer jacket	Up to +/- 360 degrees per 0.5 m guide	-40 °C to +80 °C moving route guide	13.6 mm	182 kg/km
<b>Shielded robotic PUR torsion control cable 7 core 0.25 mm<sup>2</sup></b>	Continuous robotic torsion with EMC-sensitive control signals	Shielded control and encoder auxiliary circuits	300/500 V	7 core	0.25 mm <sup>2</sup>	Class 6 fine-stranded bare copper conductor	Tinned copper braid EMC screen over torsion-optimized core	Abrasion and oil resistant PUR outer jacket	Up to +/- 360 degrees per 0.5 m guide	-40 °C to +80 °C moving route guide	13.9 mm	158 kg/km

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
Shielded robotic PUR torsion control cable 7 core 0.34 mm <sup>2</sup>	Continuous robotic torsion with EMC-sensitive control signals	Shielded control and encoder auxiliary circuits	300/500 V	7 core	0.34 mm <sup>2</sup>	Class 6 fine-stranded bare copper conductor	Tinned copper braid EMC screen over torsion-optimized core	Abrasion and oil resistant PUR outer jacket	Up to +/- 360 degrees per 0.5 m guide	-40 °C to +80 °C moving route guide	14.1 mm	170 kg/km
Shielded robotic PUR torsion control cable 7 core 0.5 mm <sup>2</sup>	Continuous robotic torsion with EMC-sensitive control signals	Shielded control and encoder auxiliary circuits	300/500 V	7 core	0.5 mm <sup>2</sup>	Class 6 fine-stranded bare copper conductor	Tinned copper braid EMC screen over torsion-optimized core	Abrasion and oil resistant PUR outer jacket	Up to +/- 360 degrees per 0.5 m guide	-40 °C to +80 °C moving route guide	14.4 mm	192 kg/km
Shielded robotic PUR torsion control cable 7 core 0.75 mm <sup>2</sup>	Continuous robotic torsion with EMC-sensitive control signals	Shielded control and encoder auxiliary circuits	300/500 V	7 core	0.75 mm <sup>2</sup>	Class 6 fine-stranded bare copper conductor	Tinned copper braid EMC screen over torsion-optimized core	Abrasion and oil resistant PUR outer jacket	Up to +/- 360 degrees per 0.5 m guide	-40 °C to +80 °C moving route guide	14.7 mm	225 kg/km
Shielded robotic PUR torsion control cable 12 core 0.25 mm <sup>2</sup>	Continuous robotic torsion with EMC-sensitive control signals	Shielded control and encoder auxiliary circuits	300/500 V	12 core	0.25 mm <sup>2</sup>	Class 6 fine-stranded bare copper conductor	Tinned copper braid EMC screen over torsion-optimized core	Abrasion and oil resistant PUR outer jacket	Up to +/- 360 degrees per 0.5 m guide	-40 °C to +80 °C moving route guide	15.3 mm	182 kg/km
Shielded robotic PUR torsion control cable 12 core 0.34 mm <sup>2</sup>	Continuous robotic torsion with EMC-sensitive control signals	Shielded control and encoder auxiliary circuits	300/500 V	12 core	0.34 mm <sup>2</sup>	Class 6 fine-stranded bare copper conductor	Tinned copper braid EMC screen over torsion-optimized core	Abrasion and oil resistant PUR outer jacket	Up to +/- 360 degrees per 0.5 m guide	-40 °C to +80 °C moving route guide	15.5 mm	203 kg/km
Shielded robotic PUR torsion control cable 12 core 0.5 mm <sup>2</sup>	Continuous robotic torsion with EMC-sensitive control signals	Shielded control and encoder auxiliary circuits	300/500 V	12 core	0.5 mm <sup>2</sup>	Class 6 fine-stranded bare copper conductor	Tinned copper braid EMC screen over torsion-optimized core	Abrasion and oil resistant PUR outer jacket	Up to +/- 360 degrees per 0.5 m guide	-40 °C to +80 °C moving route guide	15.8 mm	239 kg/km
Shielded robotic PUR torsion control cable 12 core 0.75 mm <sup>2</sup>	Continuous robotic torsion with EMC-sensitive control signals	Shielded control and encoder auxiliary circuits	300/500 V	12 core	0.75 mm <sup>2</sup>	Class 6 fine-stranded bare copper conductor	Tinned copper braid EMC screen over torsion-optimized core	Abrasion and oil resistant PUR outer jacket	Up to +/- 360 degrees per 0.5 m guide	-40 °C to +80 °C moving route guide	16.1 mm	296 kg/km