



ROBOTIC HIGH-FLEX CONTROL CABLE

UL 758

20 orderable sizes

STANDARD UL 758	VOLTAGE CLASS 300/500 V	CONDUCTOR Fine-stranded flexible copper conductor
INSULATION / JACKET PUR torsion and abrasion resistant jacket		

Construction

- 1 ■ **Conductor (per core)** – Fine-stranded flexible copper conductor · 16 × Ø0.2 mm · IEC 60228 c1.5
- 2 ■ **Core insulation** – TPE high-flex control-core insulation
- 3 ■ **Filler** – PP filler
- 4 ■ **Shield** – Braid shield (C)
- 5 ■ **Sheath** – PUR torsion and abrasion resistant jacket

Size selection — all available cross-sections

Cable reference	Motion class	Cable use	Core design	Conductor size	Cycle guide	Bend radius	OD guide
Robotic high flex PUR control cable 300/500 V Robot and high-flex duty Robot control circuits 4 core 0.5 mm ²	Robot and high-flex duty	Robot control circuits	4 core	0.5 mm ²	Up to 20 million cycles guide	6 x OD dynamic / 4 x OD fixed	11.9 mm
Robotic high flex PUR control cable 300/500 V Robot and high-flex duty Robot control circuits 4 core 0.75 mm ²	Robot and high-flex duty	Robot control circuits	4 core	0.75 mm ²	Up to 20 million cycles guide	6 x OD dynamic / 4 x OD fixed	12.2 mm
Robotic high flex PUR control cable 300/500 V Robot and high-flex duty Robot control circuits 4 core 1.0 mm ²	Robot and high-flex duty	Robot control circuits	4 core	1.0 mm ²	Up to 20 million cycles guide	6 x OD dynamic / 4 x OD fixed	12.6 mm

Cable reference	Motion class	Cable use	Core design	Conductor size	Cycle guide	Bend radius	OD guide
Robotic high flex PUR control cable 300/500 V Robot and high-flex duty Robot control circuits 4 core 1.5 mm ²	Robot and high-flex duty	Robot control circuits	4 core	1.5 mm ²	Up to 20 million cycles guide	6 x OD dynamic / 4 x OD fixed	13.1 mm
Robotic high flex PUR control cable 300/500 V Robot and high-flex duty Robot control circuits 4 core 2.5 mm ²	Robot and high-flex duty	Robot control circuits	4 core	2.5 mm ²	Up to 20 million cycles guide	6 x OD dynamic / 4 x OD fixed	13.9 mm
Robotic high flex PUR control cable 300/500 V Robot and high-flex duty Robot control circuits 7 core 0.5 mm ²	Robot and high-flex duty	Robot control circuits	7 core	0.5 mm ²	Up to 20 million cycles guide	6 x OD dynamic / 4 x OD fixed	12.9 mm
Robotic high flex PUR control cable 300/500 V Robot and high-flex duty Robot control circuits 7 core 0.75 mm ²	Robot and high-flex duty	Robot control circuits	7 core	0.75 mm ²	Up to 20 million cycles guide	6 x OD dynamic / 4 x OD fixed	13.2 mm
Robotic high flex PUR control cable 300/500 V Robot and high-flex duty Robot control circuits 7 core 1.0 mm ²	Robot and high-flex duty	Robot control circuits	7 core	1.0 mm ²	Up to 20 million cycles guide	6 x OD dynamic / 4 x OD fixed	13.6 mm
Robotic high flex PUR control cable 300/500 V Robot and high-flex duty Robot control circuits 7 core 1.5 mm ²	Robot and high-flex duty	Robot control circuits	7 core	1.5 mm ²	Up to 20 million cycles guide	6 x OD dynamic / 4 x OD fixed	14.1 mm
Robotic high flex PUR control cable 300/500 V Robot and high-flex duty Robot control circuits 7 core 2.5 mm ²	Robot and high-flex duty	Robot control circuits	7 core	2.5 mm ²	Up to 20 million cycles guide	6 x OD dynamic / 4 x OD fixed	14.9 mm
Robotic high flex PUR control cable 300/500 V Robot and high-flex duty Robot control circuits 12 core 0.5 mm ²	Robot and high-flex duty	Robot control circuits	12 core	0.5 mm ²	Up to 20 million cycles guide	6 x OD dynamic / 4 x OD fixed	14.2 mm
Robotic high flex PUR control cable 300/500 V Robot and high-flex duty Robot control circuits 12 core 0.75 mm ²	Robot and high-flex duty	Robot control circuits	12 core	0.75 mm ²	Up to 20 million cycles guide	6 x OD dynamic / 4 x OD fixed	14.5 mm
Robotic high flex PUR control cable 300/500 V Robot and high-flex duty Robot control circuits 12 core 1.0 mm ²	Robot and high-flex duty	Robot control circuits	12 core	1.0 mm ²	Up to 20 million cycles guide	6 x OD dynamic / 4 x OD fixed	14.8 mm

Cable reference	Motion class	Cable use	Core design	Conductor size	Cycle guide	Bend radius	OD guide
Robotic high flex PUR control cable 300/500 V Robot and high-flex duty Robot control circuits 12 core 1.5 mm ²	Robot and high-flex duty	Robot control circuits	12 core	1.5 mm ²	Up to 20 million cycles guide	6 x OD dynamic / 4 x OD fixed	15.3 mm
Robotic high flex PUR control cable 300/500 V Robot and high-flex duty Robot control circuits 12 core 2.5 mm ²	Robot and high-flex duty	Robot control circuits	12 core	2.5 mm ²	Up to 20 million cycles guide	6 x OD dynamic / 4 x OD fixed	16.1 mm
Robotic high flex PUR control cable 300/500 V Robot and high-flex duty Robot control circuits 18 core 0.5 mm ²	Robot and high-flex duty	Robot control circuits	18 core	0.5 mm ²	Up to 20 million cycles guide	6 x OD dynamic / 4 x OD fixed	15.4 mm
Robotic high flex PUR control cable 300/500 V Robot and high-flex duty Robot control circuits 18 core 0.75 mm ²	Robot and high-flex duty	Robot control circuits	18 core	0.75 mm ²	Up to 20 million cycles guide	6 x OD dynamic / 4 x OD fixed	15.7 mm
Robotic high flex PUR control cable 300/500 V Robot and high-flex duty Robot control circuits 18 core 1.0 mm ²	Robot and high-flex duty	Robot control circuits	18 core	1.0 mm ²	Up to 20 million cycles guide	6 x OD dynamic / 4 x OD fixed	16.0 mm
Robotic high flex PUR control cable 300/500 V Robot and high-flex duty Robot control circuits 18 core 1.5 mm ²	Robot and high-flex duty	Robot control circuits	18 core	1.5 mm ²	Up to 20 million cycles guide	6 x OD dynamic / 4 x OD fixed	16.5 mm
Robotic high flex PUR control cable 300/500 V Robot and high-flex duty Robot control circuits 18 core 2.5 mm ²	Robot and high-flex duty	Robot control circuits	18 core	2.5 mm ²	Up to 20 million cycles guide	6 x OD dynamic / 4 x OD fixed	17.3 mm