

LAPP GROUP NORTH AMERICA

Cables for Robotic Applications



LAPP GROUP

LAPP Cable for Robotic Applications




Industries without robots have now become an unimaginable concept. Their benefits also mean that robot technology has now become one of the most dynamic areas for development. Cables play an extremely important role in this area.

Robots are now used throughout entire industries; they have become a crucial element of complex production processes. Robots are always in motion. They must work accurately and reliably under the greatest constraints and harshest environments, just like the corresponding cables, components and cable systems. The smallest detail can become the cause for major downtime and lost production. This is the reason why you want to partner with a company that will deliver the highest quality products engineered and tested for high performance and durability.






LAPP Cable for Robotic Applications

Static Cables

	OLFLEX® Tray II	OLFLEX® Tray II CY	OLFLEX® AUTO I
Insulation	PVC/NYLON	PVC/NYLON	PVC/NYLON
Jacket	Black PVC	Black PVC	Gray PVC
Shield	-	Foil Tape & TC Braid	-
AWG	18 - 2	18 - 3	18 - 16
Approvals			
Bend Radius	5x	5x	5x
Temp. Range	-40°C to 105°C	-40°C to 105°C	-40°C to 105°C
Flex. Temp	-	-	-
Voltage Rating	600V TC 1000V AWM	600V TC 1000V AWM	600V TC 1000V AWM
Torsion Angle	-	-	-
Flexing	FL-01	FL-01	FL-01
Application/Features	Flexible stationary oil resistant control tray cable	Shielded Flexible stationary oil resistant control tray cable	Gray jacketed stationary control cable available with blue conductors for DC circuits & red for AC






LAPP Cable for Robotic Applications

Dynamic Cables

	OLFLEX®-FD 890	OLFLEX®-FD 890-CY	OLFLEX®-AUTO X
Insulation	PVC	PVC	PVC/Nylon
Jacket	Black PVC	Black PVC	Black TPE
Shield	-	TC Braid 85%	-
AWG	20 - 2	20 - 2	16
Approvals			
Bend Radius	7.5x	10x	10x
Temp. Range	-40°C to 90°C	-40°C to 90°C	-40°C to 90°C
Flex. Temp	5°C	5°C	5°C
Voltage Rating	600V UL/CSA; 300/500V CE	600V UL/CSA; 300/500V CE	600V UL/CSA; 300/500V CE
Torsion Angle	-	-	-
Flexing	CF-02	CF-02	CF-02
Application/Features	Continuous flex cable designed for drag chain applications	Shielded continuous flex cable designed for drag chain applications	Continuous flex cable designed for drag chain applications. Available with blue conductors for DC circuits & red for AC

LAPP Cable for Robotic Applications

Torsion & Bending Cables

	OLFLEX® ROBOT 900 P	OLFLEX® ROBOT 900 DP	OLFLEX® ROBOT F1 Gold UL/CSA	OLFLEX® ROBOT F1 C Gold UL/CSA	ROBOCABLES® F1 GOLD
Insulation	TPE	TPE	TPE	TPE	TPE
Jacket	BLACK PUR	BLACK PUR	BLACK PUR	BLACK PUR	BLACK PUR
Shield	-	TC Spiral 80%	-	TC Braid or Spiral	TC Spiral
AWG	26 - 2	26 - 16	24 - 10	24 - 16	24 - 16
Approvals					
Bend Radius	15x	15x	10x	10x	8x
Temp. Range	-30°C to 80°C	-30°C to 80°C	-50°C to 80°C	-50°C to 80°C	-20°C to 80°C
Flex. Temp	-30°C	-30°C	-40°C	-40°C	-20°C
Voltage Rating	300/500V	300/500V	1000V UL/CSA; 300/500V CE	1000V UL/CSA; 300/500V CE	1000V UL/CSA; 300/500V CE
Torsion Angle	+/- 360°	+/- 360°	+/- 180°	+/- 180°	+/- 360°
Flexing	T-01	T-01	T-02	T-02	TCB-01
Application/ Features	Robotic cable for continuous flexing motion	Shielded robotic cable for continuous flexing motion	Highly flexible cables designed to resist repetitive bending & torsion stress that are obtained by high speed & accelerations	Shielded highly flexible cables designed to resist repetitive bending & torsion stress that are obtained by high speed & accelerations	Superior highly flexible cables designed to resist high repetitive bending stress & torsion angles obtained during mechanical constraints. The cables maintain high cycle counts

ÖLFLEX®

Power and Control Cables

SKINTOP®

Cable Glands

SILVYN®

Conduit

ETHERLINE®

Industrial Ethernet

EPIC®

Connectors

UNITRONIC®

Data Cables

FLEXIMARK®

Marking Systems

HITRONIC®

Fiber Optic Cables



LAPP GROUP

LAPP USA

29 Hanover Road
Florham Park, NJ 07932
800-774-3539
www.lappusa.com

LAPP CANADA

3505 Laird Road, Unit 10
Mississauga, Ontario L5L 5Y7
877-799-5277
www.lappcanada.com

LAPP MEXICO

Metalurgia 2730
Alamo Industrial, C.P. 44490
800-024-5277
www.lappmexico.com