



ÖLFLEX® CONNECT SERVO

Cable Assemblies for Rockwell Automation® VPL and MPL Servo Motors

Every servo axis depends on two things nobody notices until they fail: the power cable and the feedback cable. LAPP builds both as finished assemblies for Rockwell Kinetix® systems, using the same DIN motor connector styles and drive-end lead connectivity.



VPL Motors: Single Hybrid Cable

One cable carries power and DSL digital feedback — four power and two feedback conductors, plus two brake conductors in with-brake versions. A single shielded cable instead of two means less tray fill, fewer connectors and less routing labor per axis.

Jacket	Orange, PVC (static) or PUR (continuous flex)
Insulation	Polypropylene
Rating	1000 V power / 300 V signal
Approvals	UL / c(UL) Recognized, CE
Power conductors	14 and 16 AWG
Drive-end options	DF (Kinetix 5500 flying leads) DG (extended flying leads, 5500) DE (5700, pre-wired DSL connector kit) E1 (extension)

MPL Motors: Separate Power and Feedback

Discrete power and feedback assemblies for MPL motors with style 7 DIN connectors, in with-brake and without-brake power configurations.

Power jacket	Black PVC (static) / orange TPE (continuous flex)
Feedback jacket	Gray PVC (static) / green TPE (continuous flex)
Rating	600 V power / 300 V feedback
Power approvals	UL/CSA TC-ER — tray rated
Feedback approvals	UL/CSA CMG (LAPP cable 812876 is additionally PLTC rated)
Conductors	Power 10, 14 and 16 AWG Feedback 22 AWG
Feedback types	CE (high-resolution absolute encoder) CD (incremental encoder)
Drive-end options	DF (flying leads) DD (drive-end connector) E7 (extension)

Why Specify LAPP

- **Built around the parts that actually move.** We stock Rockwell's high-runner catalog numbers, so the stock on the shelf is the stock that gets pulled.
- **Part numbers are current.** Each LAPP assembly maps to a Rockwell servo assembly part number — no obsolete OEM numbers.
- **One conversation, not three.** We manufacture the raw cable, terminate the assembly and support it. Datasheets are available for every construction, as well as custom lengths on request.
- **Tray-rated where it counts.** MPL power assemblies carry UL/CSA TC-ER, simplifying tray runs on static installs.

Where They Go to Work

- **Packaging and converting:** High-cycle cartoners, case packers, labelers and flying-shear axes in cable track.
- **Material handling and palletizing:** Gantry and delta robot axes where repeated bending wears standard cable.
- **Machine tool and CNC:** Static MPL power runs from cabinet to motor, where TC-ER simplifies the install.
- **Food and beverage:** Washdown-adjacent zones needing sealed, chemically resistant jackets.
- **Plant retrofits and MRO:** Like-for-like replacement of a failed 2090 cable.

How to Order

1. Find your Rockwell catalog number in the cross-reference on pages 3 and 4.
2. Insert the three-digit length code for the run you need.
3. On MPL feedback cables, confirm the encoder type (CE vs. CD). They are not interchangeable.

Questions on approvals, custom lengths or a configuration not shown: 800-774-3539





Cross-Reference: LAPP to Rockwell Automation®

LAPP part numbers, lengths, conductor sizes and configurations.

Length Codes

LAPP part numbers carry length in feet; Rockwell's trailing digits are meters. Substitute the three-digit code for "xxx":

Length	5 m	10 m	15 m	20 m	25 m	30 m
LAPP code (ft)	017	033	050	066	082	099
Rockwell suffix	05	10	15	20	25	30
Approx. feet	17	33	49	66	82	98

Example: 53519050-14 = 50 ft (15 m), cross-references to 2090-CSBM1DF-14AF15.

VPL Motors: Hybrid Power + Feedback

LAPP Part #	Rockwell Part #	Motion	Brake	AWG	Drive End Connector	Motor End Connector
53519xxx-14	2090-CSBM1DF-14AFxx	Continuous flex	●	14	K5500 flying leads	M23, 9-Pin Plug
53519xxx-16	2090-CSBM1DF-18AFxx	Continuous flex	●	16 †	K5500 flying leads	M23, 9-Pin Plug
54519xxx-14	2090-CSBM1DG-14AFxx	Continuous flex	●	14	Extended flying leads	M23, 9-Pin Plug
53513xxx-14	2090-CSBM1DE-14AFxx	Continuous flex	●	14	K5700 + DSL kit	M23, 9-Pin Plug
53513xxx-16	2090-CSBM1DE-18AFxx	Continuous flex	●	16 †	K5700 + DSL kit	M23, 9-Pin Plug
43519xxx-14	2090-CSBM1DF-14AAxx	Static	●	14	K5500 flying leads	M23, 9-Pin Plug
43519xxx-16	2090-CSBM1DF-18AAxx	Static	●	16 †	K5500 flying leads	M23, 9-Pin Plug
44519xxx-14	2090-CSBM1DG-14AAxx	Static	●	14	Extended flying leads	M23, 9-Pin Plug
43513xxx-14	2090-CSBM1DE-14AAxx	Static	●	14	K5700 + DSL kit	M23, 9-Pin Plug
43517xxx-14	2090-CSWM1DF-14AAxx	Static	—	14	K5500 flying leads	M23, 9-Pin Plug
43517xxx-16	2090-CSWM1DF-18AAxx	Static	—	16 †	K5500 flying leads	M23, 9-Pin Plug
44517xxx-14	2090-CSWM1DG-14AAxx	Static	—	14	Extended flying leads	M23, 9-Pin Plug
43512xxx-14	2090-CSWM1DE-14AAxx	Static	—	14	K5700 + DSL kit	M23, 9-Pin Plug
Extensions						
53519017-14-E	2090-CSBM1E1-14AF05	Continuous flex	●	14	Extension Receptable (SpeedTec Ready)	M23, 9-Pin Plug
53519017-16-E	2090-CSBM1E1-18AF05	Continuous flex	●	16 †	Extension Receptable (SpeedTec Ready)	M23, 9-Pin Plug



MPL Motors: Hybrid Power + Feedback

LAPP Part #	Rockwell Part #	Motion	Type	AWG	Drive End Connector	Motor End Connector
93577xxx-16	2090-CPWM7DF-16AFxx	Continuous flex	Power	16	Flying leads	M23, 9-Pin Plug
93579xxx-16	2090-CPBM7DF-16AFxx	Continuous flex	Power w/ brake	16	Flying leads	M23, 9-Pin Plug
83577xxx-10	2090-CPWM7DF-10AAxx	Static	Power	10	Flying leads	M23, 9-Pin Plug
83577xxx-14	2090-CPWM7DF-14AAxx	Static	Power	14	Flying leads	M23, 9-Pin Plug
83577xxx-16	2090-CPWM7DF-16AAxx	Static	Power	16	Flying leads	M23, 9-Pin Plug
83579xxx-16	2090-CPBM7DF-16AAxx	Static	Power w/ brake	16	Flying leads	M23, 9-Pin Plug
93572xxx	2090-CFBM7DF-CEAFxx	Continuous flex	Feedback CE	22	Flying leads	M23, 17-Pin Plug
93576xxx	2090-CFBM7DF-CDAFxx	Continuous flex	Feedback CD	22	Flying leads	M23, 17-Pin Plug
83572xxx	2090-CFBM7DF-CEAAxx	Static	Feedback CE	22	Flying leads	M23, 17-Pin Plug
83574xxx	2090-CFBM7DD-CEAAxx	Static	Feedback CE	22	D-Sub	M23, 17-Pin Plug
Extensions						
93572007-E	2090-CFBM7E7-CEAF02	Continuous flex	Feedback CE	22	Extension Receptable (SpeedTec Ready)	M23, 17-Pin Plug
935790017-16-E (2090-CPBM7E7-16AF05)	2090-CPBM7E7-16AF02	Continuous flex	Power w/ brake	16	Extension Receptable (SpeedTec Ready)	M23, 9-Pin Plug

[†] LAPP specifies these assemblies at 16 AWG; the Rockwell part they cross-reference to is 18 AWG.

[‡] A 5 m version of this extension also appears in the source data under the same part number — confirm the correct number before ordering.

Reading a LAPP Part Number

VPL: 5 = continuous flex / 4 = static · 519/517 = DF drive end (with / without brake) · 513/512 = DE drive end · second digit 4 shifts to DG · xxx = length code · -16/-14 = power AWG · -E = extension

MPL: 9 = continuous flex / 8 = static · digit 4 "7" = style 7 connector · digit 5: 7 = power no brake, 9 = power with brake, 2 = CE feedback flying-lead, 4 = CE feedback drive connector, 6 = CD feedback flying-lead · xxx = length code · -16/-14/-10 = power AWG · -E = extension

Notes

- MPL feedback cables are encoder-specific. CE = high-resolution absolute encoder; CD = incremental encoder. They are not interchangeable. Verify the encoder installed on the motor before ordering.
- Maximum run length is set by the drive, not the cable: 164 ft (50 m) on Kinetix 5500, 295 ft (90 m) on Kinetix 5700.
- All raw cable is LAPP product. Cable datasheets available on request. Custom lengths available.
- For approvals documentation, contact the factory at 800-774-3539.

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