



ÖLFLEX® CONNECT

Systems solutions made by LAPP

With ÖLFLEX® CONNECT, we completed the step from component supplier to system supplier, offering complete solutions from a single source — from specialized cable assemblies and industry-standard servo connections to complex high-speed drag chain systems. We are constantly expanding our engineering, production and assembly capacities around the world.

ÖLFLEX® CONNECT

Systems solutions made by LAPP

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Custom assembly order form

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Custom remote access port order form



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ÖLFLEX® CONNECT CABLES

For over 30 years, LAPP's dedicated and highly qualified team of engineers, technicians, sales, and service personnel have been developing customized assembled cable solutions – from the design phase to prototyping to production and quality control. Our comprehensive inventory of cables, connectors, and accessories enables us to respond quickly and flexibly to your requirements, and we will source additional components as required to meet your specifications. As a member of the UL Client Data Program, LAPP is able to address your project quickly, efficiently, and reliably address projects from the small and simple to the large and complex.

Cable solutions from A to Z

LAPP produces different cables for CNC machinery, switch boxes, control cabinets, and electrical assemblies. Our product range encompasses single- and multi-conductor cables and EMC-shielded cables, all of which can be fitted with a wide selection of crimp contacts, connectors, and housings for your specific application.

The team at LAPP is committed to provide the entire solution for you, our customers. Developing a concept, application engineering, and executing in production can be a very complex task for your team. Our engineering expertise and assembly processes will enable you to apply your resources for other needs. The LAPP team will review interconnection needs, recommend connectivity solutions, provide concept drawings, quotations, final engineering drawings, and quality finished products. You only need to provide information, access to your knowledgeable project team, and a purchase order.



- · Cable cut to specifications
- Stripping
- Crimping
- · Heat shrinking
- Markings (labels, sleeves, marking rings, packing, stainless steel marking)
- Cable printing
- Crimp force monitoring
- · Push-pull test
- · Resistance test
- Overmolding



No capital expenditure

You will not need to invest in your own production facilities. Instead, leverage LAPP's equipment and tools.

Less operating expenditure

Benefit from a simplified supplier base. LAPP supplies you with everything related to cable assemblies from a single source.

Reduced inventory

No stocks of connectors, cables, conduits, and hoses. No component scrap or cutting waste.

Highest scalability

With LAPP's extensive inventory you're poised to respond to increases in demand.

Technical expertise

Make use of LAPP's expert technicians and their extensive knowledge of cabling technology.

Uncompromising brand quality

High quality products for maximum reliability and safety.



Custom assembly order form

ÖLFLEX® CONNECT offers the complete custom cable assembly solution. Concept development, application engineering, and high-quality production are performed by a team of experts with over 50 years of experience in the industry. A variety of connectorization methods and types are offered to satisfy almost any application requirement. With the ability to use a wide array of hardware and component manufacturers, LAPP can provide existing designs or new concepts and techniques based on customer needs. Use this form to design your assembly, or call us at 800-774-3539 and let the experts guide you with your custom design.

Assembly specifications Connector A Cable Connector B Overall assembly length: ___ Connector A Cable ____ Connector B Housing (hood/base): Cable type: Housing (hood/base): Strain relief: Cable length: Strain relief: Insert: Insert: Cable specifications Manufacturer: Part number (standard): Cable type: round cable flat cable Shield type: Voltage: Flexibility: foil shield braid shield Amperage: Color code: Temperature: Jacket color: individual shield unshielded Conductor attribute AWG size: # of conductors: Conductor type: Termination: stranded copper solid copper screw crimp # of pairs: OD (in): tinned copper bare copper solder cage clamp **Environmental rating** NEMA 4X NEMA 12 IP54 IP65 IP67 IP69K NEMA 4 IP68 other: ____ □UL CSA Conduit type: CE none Ground requirements:

Fax completed order form to 973-660-9330 or email to sales@lappusa.com or your local LAPP representative.



other: _

Special concerns (e.g., chemicals):

ÖLFLEX® CONNECT SERVO

As a leading manufacturer of assembled servo cable systems, LAPP offers all of the major industry standards for use in a variety of areas in industrial machinery and drive systems. With international manufacturing excellence, we produce the assemblies in our own facilities across the world.

Whether your application requires a cost-effective servo solution for basic applications, something specially designed for flexing applications, or a servo solution designed for highly dynamic operation, LAPP offers the right solution for every requirement. All of our servo cables are put through their paces at our UL Client Test Data Center with the application site in mind, ensuring maximum quality, reliability, and operational safety.

for Rockwell Automation® motors





according to INDRAMAT® standard







Uncompromising quality

Tested to all standard approval tests and to additional tests in our laboratory.

Strong design heritage

More than 50 years of technology leadership in cables and connectors.

Multi-brand availability

One stop shop for all major servo brands.

Availability at short notice

For components and servo cables of all performance classes

Fastest response

Thanks to our deep expertise in connectivity technology, we can develop customized solutions quickly

Maximum flexibility

High volume customized special products for project business.

Rockwell Automation® is a registered trademark of Rockwell Automation, Inc. SIEMENS® is a registered trademark of SIEMENS AG.

INDRAMAT® is a registered trademark of Bosch Rexroth AG. LENZE® is a registered trademark of LENZE AG. SEW® is a registered trademark of SEW Eurodrive GmbH & Co KG.

Photographs are not to scale and are not true representations of the products in question.



AB assemblies for Rockwell Automation® motors

Feedback & power cable assemblies









All raw cable is LAPP product. Cable datasheets are available on our website or by contacting sales. Custom versions are available upon request.

Approvals

For approvals, inquire with our factory: 800-774-3539

For part numbers, replace "xxx" with desired cable length in feet.

Motion type	Application	Jacket color	Jacket material	Nominal voltage	Approvals
MP series motors	<u>'</u>				
stationary	feedback	gray	PVC	300V	UL/CSA CMG
stationary	feedback	gray	PVC	300V	UL/CSA
stationary	power	black	TPE	600V	UL/CSA TC-ER
stationary	power with brake	black	TPE	600V	UL/CSA TC-ER
continuous flex	feedback	green	TPE	600V	UL/CSA CMG, PLTC*
continuous flex	power/power with brake	orange	TPE	600V	UL/CSA TC-ER
TLY series motors					
stationary	feedback	gray	PVC	300V	UL/CSA
stationary	power	black	TPE	600V	UL/CSA TC-ER
stationary	power with brake	black	TPE	600V	UL/CSA TC-ER
continuous flex	feedback	black	PVC	300V	UL/CSA CMG
continuous flex	power	black	PVC	600V	UL/CSA
continuous flex	power with brake	orange	TPE	600V	UL/CSA TC-ER
/P series motors					
stationary	power/power with brake & feedback	orange	PVC	1000V/300V	UL/c(UL) Recognized, CE
continuous flex	power/power with brake & feedback	orange	PUR	1000V/300V	UL/c(UL) Recognized, CE

^{*} LAPP cable 812876 is PLTC



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

ÖLFLEX® CONNECT SERVO

MP series motors

Motion type	LAPP part number	Rockwell part number
ower		
flexing	93577xxx-16	2090-CPWM7DF-16AFxx
flexing	93547xxx-16	2090-CPWM4DF-16AFxx
flexing	93577xxx-14	2090-CPWM7DF-14AFxx
flexing	93547xxx-14	2090-CPWM4DF-14AFxx
flexing	93577xxx-10	2090-CPWM7DF-10AFxx
flexing	93547xxx-10	2090-CPWM4DF-10AFxx
flexing	93577xxx-8	2090-CPWM7DF-8AFxx
flexing	93547xxx-8	2090-CPWM4DF-8AFxx
stationary	83577xxx-16	2090-CPWM7DF-16AAxx
stationary	83547xxx-16	2090-CPWM4DF-16AAxx
stationary	83577xxx-14	2090-CPWM7DF-14AAxx
stationary	83547xxx-14	2090-CPWM4DF-14AAxx
stationary	83577xxx-10	2090-CPWM7DF-10AAxx
stationary	83547xxx-10	2090-CPWM4DF-10AAxx
stationary	83577xxx-8	2090-CPWM7DF-8AAxx
stationary	83547xxx-8	2090-CPWM4DF-8AAxx
ower with brake		'
flexing	93579xxx-16	2090-CPBM7DF-16AFxx
flexing	93549xxx-16	2090-CPBM4DF-16AFxx
flexing	93579xxx-16E	2090-CPBM7E7-16AFxx
flexing	93579xxx-14	2090-CPBM7DF-14AFxx
flexing	93549xxx-14	2090-CPBM4DF-14AFxx
flexing	93579xxx-14-E	2090-CPBM7E7-14AFxx
flexing	93579xxx-10	2090-CPBM7DF-10AFxx
flexing	93549xxx-10	2090-CPBM4DF-10AFxx

Motion type	LAPP part number	Rockwell part number
flexing	93579xxx-10-E	2090-CPBM7E7-10AFxx
flexing	93579xxx-8	2090-CPBM7DF-8AFxx
flexing	93549xxx-8	2090-CPBM4DF-8AFxx
flexing	93579xxx-8-E	2090-CPBM7EF-8AFxx
stationary	83579xxx-16	2090-CPBM7DF-16AAxx
stationary	83549xxx-16	2090-CPBM4DF-16AAxx
stationary	83579xxx-14	2090-CPBM7DF-14AAxx
stationary	83549xxx-14	2090-CPBM4DF-14AAxx
stationary	83579xxx-10	2090-CPBM7DF-10AAxx
stationary	83549xxx-10	2090-CPBM4DF-10AAxx
stationary	83579xxx-8	2090-CPBM7DF-8AAxx
stationary	83549xxx-8	2090-CPBM4DF-8AAxx
Feedback		
flexing	93572xxx*	2090-CFBM7DF-CEAFxx
flexing	93574xxx*	2090-CFBM7DD-CEAFxx
flexing	93542xxx*	2090-CFBM4DF-CEAFxx
flexing	93572xxx-E*	2090-CFBM7E7-CEAFxx
flexing	93576xxx	2090-CFBM7DF-CDAFxx
flexing	93578xxx	2090-CFBM7DD-CDAFxx
flexing	93546xxx	2090-CFBM4DF-CDAFxx
flexing	93576xxx-E	2090-CFBM7E7-CDAFxx
stationary	83572xxx	2090-CFBM7DF-CEAAxx
stationary	83574xxx	2090-CFBM7DD-CEAAxx
stationary	83576xxx	2090-CFBM7DF-CDAAxx
stationary	83546xxx	2090-CFBM4DF-CDAAxx

Highlighted part numbers are stocked in lengths of 10, 30 & 50 ft.

TLY series motors

Motion type	LAPP part number	Rockwell part number
Power		
flexing	72505xxx	2090-CPWM6DF-16AFxx
stationary	62505xxx	2090-CPWM6DF-16AAxx
Power with brake		
flexing	74505xxx	2090-CPBM6DF-16AAxx
stationary	64505xxx	2090-CPBM6DF-16AAxx

Motion type	LAPP part number	Rockwell part number
Feedback	`	
flexing	72515xxx	2090-CFBM6DD-CCAFxx
flexing	72514xxx	2090-CFBM6DF-CBAFxx
stationary	62515xxx	2090-CFBM6DD-CCAAxx
stationary	62514xxx	2090-CFBM6DF-CBAAxx

VP series motors

Motion type	LAPP part number	Rockwell part number
Power with brake & f	eedback	
flexing	53519xxx-16	2090-CSBM1DF-18AFxx
flexing	53519xxx-14	2090-CSBM1DF-14AFxx
flexing	53519xxx-10	2090-CSBM1DF-10AFxx
flexing	53519xxx-16E	2090-CSBM1E1-18AFxx
flexing	53519xxx-14E	2090-CSBM1E1-14AFxx
flexing	53519xxx-10E	2090-CSBM1E1-10AFxx
flexing	54519xxx-16	2090-CSBM1DG-18AFxx
flexing	54519xxx-14	2090-CSBM1DG-14AFxx
flexing	54519xxx-10	2090-CSBM1DG-10AFxx
flexing	53513xxx-16	2090-CSBM1DE-18AFxx
flexing	53513xxx-14	2090-CSBM1DE-14AFxx
flexing	53513xxx-10	2090-CSBM1DE-10AFxx
stationary	43519xxx-16	2090-CSBM1DF-18AAxx
stationary	43519xxx-14	2090-CSBM1DF-14AAxx
stationary	43519xxx-10	2090-CSBM1DF-10AAxx
stationary	44519xxx-16	2090-CSBM1DG-18AAxx
stationary	44519xxx-14	2090-CSBM1DG-14AAxx
stationary	44519xxx-10	2090-CSBM1DG-10AAxx
stationary	43513xxx-16	2090-CSBM1DE-18AAxx
stationary	43513xxx-14	2090-CSBM1DE-14AAxx
stationary	43513xxx-10	2090-CSBM1DE-10AAxx

Motion type	LAPP part number	Rockwell part number
Power & feedback		
flexing	53517xxx-16	2090-CSWM1DF-18AFxx
flexing	53517xxx-14	2090-CSWM1DF-14AFxx
flexing	53517xxx-10	2090-CSWM1DF-10AFxx
flexing	53517xxx-16E	2090-CSWM1E1-18AFxx
flexing	53517xxx-14E	2090-CSWM1E1-14AFxx
flexing	53517xxx-10E	2090-CSWM1E1-10AFxx
flexing	54517xxx-16	2090-CSWM1DG-18AFxx
flexing	54517xxx-14	2090-CSWM1DG-14AFxx
flexing	54517xxx-10	2090-CSWM1DG-10AFxx
flexing	53512xxx-16	2090-CSBW1DE-18AFxx
flexing	53512xxx-14	2090-CSWM1DE-14AFxx
flexing	53512xxx-10	2090-CSWM1DE-10AFxx
stationary	43517xxx-16	2090-CSWM1DF-18AAxx
stationary	43517xxx-14	2090-CSWM1DF-14AAxx
stationary	43517xxx-10	2090-CSWM1DF-10AAxx
stationary	44517xxx-16	2090-CSWM1DG-18AAxx
stationary	44517xxx-14	2090-CSWM1DG-14AAxx
stationary	44517xxx-10	2090-CSWM1DG-10AAxx
stationary	43512xxx-16	2090-CSWM1DE-18AAxx
stationary	43512xxx-14	2090-CSWM1DE-14AAxx
stationary	43512xxx-10	2090-CSWM1DE-10AAxx

^{*} PLTC rated

AB legacy assemblies for Rockwell Automation® motors

Legacy feedback & power cable assemblies





Approvals

For approvals, inquire with our factory: 800-774-3539

All raw cable is LAPP product. Cable datasheets are available on our website or by contacting sales. All overmolded products are molded with UL 94 V-0 PVC.

For part numbers, replace "xxx" with desired cable length in feet.

Mation tune	Application	lasket eslav	Ma	aterial	Nominal	Annuavala
Motion type	Application	Jacket color	jacket	insulation	voltage	Approvals
stationary	feedback	gray	PVC	TPE	300V	UL/CSA
stationary	feedback (1394 series only)	gray	PVC	PVC	300V	UL/CSA CMG
stationary	power	gray	PVC	PVC/nylon	600V	UL/CSA
stationary	power/power with brake (MPF series only)	orange	PVC	polypropylene	600V	UL/CSA
continuous flex	feedback	gray	PVC	TPE	300V	UL/CSA
continuous flex	feedback (1394 series only)	gray	PVC	PVC	300V	UL/CSA
continuous flex	power	black	PVC	PVC	600V	UL/CSA
continuous flex	power/power with brake (MPF series only)	orange	PUR	polypropylene	600V	UL/CSA

MP series motors

Motion type	LAPP part number	Rockwell part number
Power: 230V		
flexing	73529xxx-10	2090-UXNPAMP-10Sxx
flexing	73529xxx-14	2090-UXNPAMP-14Sxx
flexing	73529xxx-16	2090-UXNPAMP-16Sxx
flexing	73529xxx-10	2090-XXNPMP-10Sxx
flexing	73529xxx-14	2090-XXNPMP-14Sxx
flexing	73529xxx-16	2090-XXNPMP-16Sxx
stationary	63529xxx-10	2090-UXNPAMP-10Sxx
stationary	63529xxx-14	2090-UXNPAMP-14Sxx
stationary	63529xxx-16	2090-UXNPAMP-16Sxx
stationary	63529xxx-10	2090-XXNPMP-10Sxx
stationary	63529xxx-14	2090-XXNPMP-14Sxx
stationary	63529xxx-16	2090-XXNPMP-16Sxx
Power: 460V		
flexing	73529xxx-8	2090-UXNPBMP-8Sxx
flexing	73529xxx-10	2090-UXNPBMP-10Sxx
flexing	73529xxx-14	2090-UXNPBMP-14Sxx
flexing	73529xxx-16	2090-UXNPBMP-16Sxx
flexing	73529xxx-8	2090-XXNPMP-8Sxx
flexing	73529xxx-10	2090-XXNPMP-10Sxx
flexing	73529xxx-14	2090-XXNPMP-14Sxx
flexing	73529xxx-16	2090-XXNPMP-16Sxx
stationary	63529xxx-8	2090-UXNPBMP-8Sxx
stationary	63529xxx-10	2090-UXNPBMP-10Sxx
stationary	63529xxx-14	2090-UXNPBMP-14Sxx
stationary	63529xxx-16	2090-UXNPBMP-16Sxx

Motion type	LAPP part number	Rockwell part number	
stationary	63529xxx-8	2090-XXNPMP-8Sxx	
stationary	63529xxx-10	2090-XXNPMP-10Sxx	
stationary	63529xxx-14	2090-XXNPMP-14Sxx	
stationary	63529xxx-16	2090-XXNPMP-16Sxx	
Power: 460V 1394C-S	JTXX-D (D29)		
flexing	73529xxx-8	2090-CDNPBMP-8Sxx	
flexing	73529xxx-10	2090-CDNPBMP-10Sxx	
flexing	73529xxx-14	2090-CDNPBMP-14Sxx	
flexing	73529xxx-16	2090-CDNPBMP-16Sxx	
stationary	63529xxx-8	2090-CDNPBMP-8Sxx	
stationary	63529xxx-10	2090-CDNPBMP-10Sxx	
stationary	63529xxx-14	2090-CDNPBMP-14Sxx	
stationary	63529xxx-16	2090-CDNPBMP-16Sxx	
Feedback: 230/460V			
flexing	73528xxx	2090-UXNFBMP-Sxx	
flexing	73526xxx	2090-UXNFDMP-Sxx	
flexing	75926xxx	2090-XXNFMP-Sxx	
stationary	63528xxx	2090-UXNFBMP-Sxx	
stationary	63526xxx	2090-UXNFDMP-Sxx	
stationary	65926xxx	2090-XXNFMP-Sxx	
1394 (D29)			
flexing	71100125-xxx	2090-CDNFDMP-Sxx	
stationary	61100125-xxx	2090-CDNFDMP-Sxx	
ULTRA 3000/5000 w	ith 1394 brake		
flexing	73524xxx	2090-UXNBMP-18Sxx	
stationary	63524xxx	2090-UXNBMP-18Sxx	

For a 90° connector on the motor end, add "-R" to end of LAPP P/N Highlighted part numbers are stocked in lengths of 30 & 50 ft.

For an extension assembly (male-female), add "-E" to end of LAPP $\mbox{P/N}$

ÖLFLEX® CONNECT

MPF series motors

Motion type	LAPP part number	Rockwell part number
Power		
flexing	400270-xxx-10	2090-XXNPMF-10Sxx
flexing	400270-xxx-10NB	without brake
flexing	400270-xxx-14	2090-XXNPMF-14Sxx
flexing	400270-xxx-14NB	without brake
flexing	400270-xxx-16	2090-XXNPMF-16Sxx
flexing	400270-xxx-16NB	without brake
stationary	300270-xxx-10	2090-XXNPMF-10Sxx
stationary	300270-xxx-10NB	without brake
stationary	300270-xxx-14	2090-XXNPMF-14Sxx
stationary	300270-xxx-14NB	without brake
stationary	300270-xxx-16	2090-XXNPMF-16Sxx
stationary	300270-xxx-16NB	without brake
Feedback		
flexing	400271-xxx-15P	with drive connector
flexing	400271-xxx	2090-XXNFMF-SXX
stationary	300271-xxx-15P	with drive connector
stationary	300271-xxx	2090-XXNFMF-SXX

TL series motors

Motion type	LAPP Rockwell part num		
Power			
flexing	71529xxx-16	2090-XXNPT-16Sxx	
flexing	71529xxx-16	2090-DANPT-16Sxx	
stationary	61529xxx-16	2090-XXNPT-16Sxx	
stationary	61529xxx-16	2090-DANPT-16Sxx	
Feedback			
flexing	71526xxx	Flying lead configuration	
flexing	71528xxx	2090-XXNFT-Sxx	
flexing	72528xxx	2090-DANFCT-Sxx	
stationary	61526xxx	Flying lead configuration	
stationary	61528xxx	2090-XXNFT-Sxx	
stationary	62528xxx	2090-DANFCT-Sxx	
Brake			
flexing	500058xxx	2090-DANBT-18Sxx	
stationary	300058xxx	2090-DANBT-18Sxx	

For a 90° connector on the motor end, add "-R" to end of LAPP P/N. For an extension assembly (male-female), add "-E" to end of LAPP P/N.

H/F series motors

Motion type	LAPP part number	Rockwell part number	
Power			
flexing	73502xxx	2090-UXNPAHF-14Sxx	
flexing	73502xxx	2090-XXNPHF-14Sxx	
flexing	73503xxx	2090-UXNPAHF-10Sxx	
flexing	73506xxx	2090-UXNPAHF-8Sxx	
stationary	63502xxx	2090-UXNPAHF-14Sxx	
stationary	63502xxx	2090-XXNPHF-14Sxx	
stationary	63503xxx	2090-UXNPAHF-10Sxx	
stationary	63506xxx	2090-UXNPAHF-8Sxx	
Feedback			
flexing	73513xxx	2090-UXNFBHF-Sxx	
flexing	73525xxx	2090-UXNFDHF-Sxx	
flexing	75925xxx	2090-XXNFHF-Sxx	
stationary	63513xxx	2090-UXNFBHF-Sxx	
stationary	63525xxx	2090-UXNFDHF-Sxx	
stationary	65925xxx	2090-XXNFHF-Sxx	
Brake			
flexing	73544xxx	-	
stationary	63544xxx	_	

Y series motors

Motion type	LAPP part number	Rockwell part number
Power with brake		
flexing	73505xxx	2090-UXNPAY-16Sxx
flexing	73505xxx	2090-XXNPY-16Sxx
stationary	63505xxx	2090-UXNPAY-16Sxx
stationary	63505xxx	2090-XXNPY-16Sxx
Feedback		
flexing	73515xxx	2090-UXNFBN-Sxx
flexing	73514xxx	2090-UXNFD4-Sxx
flexing	75914xxx	2090-XXNF4-Sxx
stationary	63515xxx	2090-UXNFBY-Sxx
stationary	63514xxx	2090-UXNFDY-Sxx
stationary	65914xxx	2090-XXNFY-Sxx

H series motors

Motion type LAPP part number		Rockwell part number
Power		
flexing	73501xxx	2090-XXNPH-16Sxx
stationary	63501xxx	2090-XXNPH-16Sxx

N series motors

Motion type LAPP part numb		Rockwell part number stationary
Power with bra	ake	
flexing	73507xxx	2090-UXNPAN-16Sxx
flexing	73507xxx	2090-XXNPN-16Sxx
stationary	63507xxx	2090-UXNPAN-16Sxx
stationary	63507xxx	2090-XXNPN-16Sxx
Feedback		
flexing	73516xxx	2090-UXNFBN-Sxx
flexing	73527xxx	2090-UXNFDN-Sxx
flexing	75927xxx	2090-XXNFN-Sxx
stationary	63516xxx	2090-UXNFBN-Sxx
stationary	63527xxx	2090-UXNFDN-Sxx
stationary	65927xxx	2090-XXNFN-Sxx
Brake	·	
flexing	73534xxx	_
stationary	63534xxx	_

Ultra 100/200 series motors

Motion type	LAPP part number	Rockwell part number	
F series: power	/brake & feedba	ck	
flexing	71103xxx	9101-1383	
flexing	71121xxx	9101-1365	
stationary	61103xxx	9101-1383	
stationary	61121xxx	9101-1365	
F/H series: pov	ver/brake & feed	back	
flexing	71101xxx	9101-1381	
flexing	71102xxx	9101-1382	
flexing	71106xxx	9101-1399	
flexing	71113xxx	9101-1366	
flexing	71118xxx	9101-2027	
stationary	61101xxx	9101-1381	
stationary	61102xxx	9101-1382	
stationary	61106xxx	9101-1399	
stationary	61113xxx	9101-1366	
stationary	61118xxx	9101-2027	

Motion type	LAPP part number	Rockwell part number
N series: power	r/brake & feedba	ick
flexing	71107xxx	9101-1467
flexing	71116xxx	9101-1468
flexing	71117xxx	9101-1474
stationary	61107xxx	9101-1467
stationary	61116xxx	9101-1468
stationary	61117xxx	9101-1474
Y series: power	/brake & feedba	ck
flexing	71105xxx	9101-1385
flexing	71114xxx	9101-1373
flexing	71115xxx	9101-1375
stationary	61105xxx	9101-1385
stationary	61114xxx	9101-1373
stationary	61115xxx	9101-1375

Servo assemblies according to SIEMENS® standard 6FX 8002



For approvals, inquire with our factory: 800-774-3539.

Technical data

Minimum bend radius:

- power cable:

- for continuous flex:

- 16 - 6 AWG:
 - 4 - 1 AWG:
 - for stationary use:
 7.5 x cable diameter
 10 x cable diameter
 4 x cable diameter

- signal cable:

for continuous flex:for stationary use:8 x cable diameter4 x cable diameter

Temperature range:

- for continuous flex: -20°C to +60°C - for stationary use: -50°C to +80°C

7 Nominal voltage:

power cable, power conductors:UL/CSA: 1000VIEC: 600/1000V

power cable, control conductors:UL/CSA: 1000VIEC: 250V AC

- signal cable:

- UL/CSA: 30V AC/DC - IEC: 30V AC

Approvals: UL: AWM 21223

AWM 20236 Canada: AWM I/II A/B FT1

Additional: based on VDE specifications

CE & RoHS

LAPP part number	SIEMENS® part number	LAPP cable
Assemblies for feedback	(
335100xxx	335100xxx 6FX8002-1AD00-XXXX	
335104xxx	6FX8002-1AD04-XXXX	00277131
335500xxx	6FX8002-2AD00-XXXX	00277131
335304xxx	6FX8002-2AD04-XXXX	00277131
335200xxx	6FX8002-2AH00-XXXX	00277131
335211xxx	6FX8002-2CA11-XXXX	00277111
335231xxx	6FX8002-2CA31-XXXX	00277141
335234xxx	6FX8002-2CA34-XXXX	00277141
335331xxx	6FX8002-2CB31-XXXX	00277171
335201xxx	6FX8002-2CF01-XXXX	00277131
335202xxx	6FX8002-2CF02-XXXX	00277131
335204xxx	6FX8002-2CF04-XXXX	00277131
335300xxx	6FX8002-2CG00-XXXX	00277111
335400xxx	6FX8002-2CH00-XXXX	00277131
335600xxx	6FX8002-2DC00-XXXX	*
335310xxx	6FX8002-2DC10-XXXX	*
335220xxx	6FX8002-2DC20-XXXX	*
335210xxx	6FX8002-2EQ10-XXXX	00277141
335214xxx	6FX8002-2EQ14-XXXX	00277141
335421xxx	6FX8002-4AA21-XXXX	00277151
Assemblies for power		·
335501xxx	6FX8002-5CA01-XXXX	0027784
335505xxx	6FX8002-5CA05-XXXX	0027784
335531xxx	6FX8002-5CA31-XXXX	0027785
335541xxx	6FX8002-5CA41-XXXX	0027786
335551xxx	6FX8002-5CA51-XXXX	0027787
335601xxx	6FX8002-5CS01-XXXX	0027784
335511xxx	6FX8002-5CS11-XXXX	0027785
335702xxx	6FX8002-5CS06-XXXX	0027784
335703xxx	6FX8002-5CS16-XXXX	0027785
335704xxx	6FX8002-5CS26-XXXX	0027784
335705xxx	6FX8002-5CS36-XXXX	0027785

LAPP part number	SIEMENS® part number	LAPP cable	
335706xxx 6FX8002-5CS46-XXXX		0027786	
335707xxx	6FX8002-5CS56-XXXX 00277		
335708xxx	6FX8002-5CS66-XXXX	0027788	
335709xxx	6FX8002-5CN06-XXXX	0027784	
335710xxx	6FX8002-5CN16-XXXX	0027785	
335711xxx	6FX8002-5CN26-XXXX	0027784	
335712xxx	6FX8002-5CN36-XXXX	0027785	
335713xxx	6FX8002-5CN46-XXXX	0027786	
335714xxx	6FX8002-5CN56-XXXX	0027787	
335715xxx	6FX8002-5CN66-XXXX	0027788	
Assemblies for power wi	th brake		
335601xxx	6FX8002-5DA01-XXXX	0027790	
335605xxx	6FX8002-5DA05-XXXX	0027790	
335631xxx	6FX8002-5DA31-XXXX	0027791	
335641xxx	6FX8002-5DA41-XXXX	0027791	
335651xxx	6FX8002-5DA51-XXXX	0027793	
335701xxx	6FX8002-5DS01-XXXX	0027790	
335611xxx	6FX8002-5DS11-XXXX	0027791	
335716xxx	6FX8002-5DS06 -XXXX	0027790	
335717xxx	6FX8002-5DS16 -XXXX	0027791	
335718xxx	6FX8002-5DS26 -XXXX	0027790	
335719xxx	6FX8002-5DS36 -XXXX	0027791	
335720xxx	6FX8002-5DS46 -XXXX	0027792	
335721xxx	6FX8002-5DS56 -XXXX	0027793	
335722xxx	6FX8002-5DS66 -XXXX	0027794	
335723xxx	6FX8002-5DN06 -XXXX	0027790	
335724xxx	6FX8002-5DN16 -XXXX	0027791	
335725xxx	6FX8002-5DN26 -XXXX	0027790	
335726xxx	6FX8002-5DN36 -XXXX	0027791	
335727xxx	6FX8002-5DN46 -XXXX 0027792		
335728xxx	6FX8002-5DN56 -XXXX	0027793	
335729xxx	6FX8002-5DN66 -XXXX	0027794	

For part number, replace "xxx" with the desired cable length in meters. Custom configurations are available upon request.



^{*} Made with special LAPP cable design. Specs are available upon request.

Servo assemblies according to SIEMENS® standard 6FX 5002





For approvals, inquire with our factory: 800-774-3539.

Technical data

Minimum bend radius:

for flexible use:for stationary use:12 x cable diameter5 x cable diameter

Temperature range:

- for flexible use: 0°C to $+60^{\circ}\text{C}$ - for stationary use: -20°C to $+60^{\circ}\text{C}$

Approvals: UL: AWM 2570 (power)

AWM 2502 (signal)

Additional: based on VDE specifications

CE & RoHS

7 Nominal voltage:

power cable, power conductors:UL/CSA: 1000VIEC: 600/1000V

power cable, control conductors:- UL/CSA: 750V- IEC: 30V AC

- signal cable:

- UL/CSA: 30V AC/DC - IEC: 30V AC

LAPP part number	SIEMENS® part number	LAPP cable			
Assemblies for feedback					
235100xxx	6FX5002-1AD00-XXXX	0025725			
235104xxx	6FX5002-1AD04-XXXX	0025725			
235500xxx	6FX5002-2AD00-XXXX	0025725			
235304xxx	6FX5002-2AD04-XXXX	0025725			
235200xxx	6FX5002-2AH00-XXXX	0025725			
235211xxx	6FX5002-2CA11-XXXX	0025724			
235231xxx	6FX5002-2CA31-XXXX	0025726			
235234xxx	6FX5002-2CA34-XXXX	0025726			
235201xxx	6FX5002-2CF01-XXXX	0025725			
235202xxx	6FX5002-2CF02-XXXX	0025725			
235204xxx	6FX5002-2CF04-XXXX	0025725			
235300xxx	6FX5002-2CG00-XXXX	0025724			
235400xxx	6FX5002-2CH00-XXXX	0025725			
235600xxx	6FX5002-2DC00-XXXX	*			
235310xxx	6FX5002-2DC10-XXXX	*			
235220xxx	6FX5002-2DC20-XXXX	*			
235210xxx	6FX5002-2EQ10-XXXX	0025726			
235214xxx	6FX5002-2EQ14-XXXX	0025726			
Assemblies for power					
235501xxx	6FX5002-5CA01-XXXX	00257001			
235505xxx	6FX5002-5CA05-XXXX	00257001			
235531xxx	6FX5002-5CA31-XXXX	00257011			
235514xxx	6FX5002-5CA41-XXXX	00257021			
235551xxx	6FX5002-5CA51-XXXX	00257031			
235601xxx	6FX5002-5CS01-XXXX	00257001			
235511xxx	x 6FX5002-5CS11-XXXX 002				
335730xxx	6FX5002-5CS06-XXXX 00257001				
335731xxx	6FX5002-5CS16-XXXX	00257011			
335732xxx	6FX5002-5CS26-XXXX	00257001			
335733xxx	6FX5002-5CS36-XXXX	00257011			
335734xxx	6FX5002-5CS46-XXXX	00257021			

LAPP part number	SIEMENS® part number	LAPP cable
335735xxx	6FX5002-5CS56-XXXX	00257031
335736xxx	6FX5002-5CS66-XXXX	0025704
335737xxx	6FX5002-5CN06-XXXX	00257001
335738xxx	6FX5002-5CN16-XXXX	00257011
335739xxx	6FX5002-5CN26-XXXX	00257001
335740xxx	6FX5002-5CN36-XXXX	00257011
335741xxx	6FX5002-5CN46-XXXX	00257021
335742xxx	6FX5002-5CN56-XXXX	00257031
335743xxx	6FX5002-5CN66-XXXX	0025704
Assemblies for power wi	th brake	
235606xxx	6FX5002-5DA01-XXXX	00257151
235605xxx	6FX5002-5DA05-XXXX	00257151
235631xxx	6FX5002-5DA31-XXXX	00257161
235641xxx	6FX5002-5DA41-XXXX	00257171
235651xxx	6FX5002-5DA51-XXXX	00257181
235701xxx	6FX5002-5DS01-XXXX	00257151
235611xxx	6FX5002-5DS11-XXXX	00257161
335744xxx	6FX5002-5DS06 -XXXX 00257001	
335745xxx	xxx 6FX5002-5DS16 -XXXX 00257011	
335746xxx	335746xxx 6FX5002-5DS26 -XXXX 002570	
335747xxx	6FX5002-5DS36 -XXXX	00257011
335748xxx	6FX5002-5DS46 -XXXX	00257021
335749xxx	6FX5002-5DS56 -XXXX	00257031
335750xxx	6FX5002-5DS66 -XXXX	0025704
335751xxx	6FX5002-5DN06 -XXXX	00257001
335752xxx	6FX5002-5DN16 -XXXX	00257011
335753xxx	6FX5002-5DN26 -XXXX 00257001	
335754xxx	6FX5002-5DN36 -XXXX	00257011
335755xxx	6FX5002-5DN46 -XXXX	00257021
335756xxx	6FX5002-5DN56 -XXXX	00257031
335757xxx	6FX5002-5DN66 -XXXX	0025704

SIEMENS® part numbe

I APP cable

For part number, replace "xxx" with the desired cable length in meters. Custom configurations are available upon request.



 $^{^{\}star}$ Made with special LAPP cable design. Specs are available upon request.

Servo LK-INX assemblies according to INDRAMAT® standards INDRAMAT standard IKG/RKL



Technical data

Minimum bend radius:

- for stationary use:- for continuous flex:6 x cable diameter10 x cable diameter

Temperature range:

- for stationary use: -50°C to +80°C - for continuous flex: -30°C to +60°C

7 Nominal voltage:

- power conductors:

- UL/CSA: 1000V - IEC: 600/1000V

- control conductors:

- UL/CSA: 1000V - IEC: 250V AC

Approvals: UL: AWM 20234

LAPP part number	Length m	INDRAMAT part number	LAPP cable
INDRAMAT standard	IKG		
70345476	10	IKG4009-010	7072403
70345503	10	IKG4087-010	7072406
70345521	10	IKG4163-010	7072408
70345522	10	IKG4170-010	7072408
70345541	10	IKG4020-010	7072403
70345542	10	IKG4018-010	7072403
70345543	10	IKG4016-010	7072403
70345545	10	IKG4050-010	7072404

LAPP part number	Length m	INDRAMAT part number	LAPP cable		
INDRAMAT standard	INDRAMAT standard RKL				
70392839	10	RKL4302-010	7072403		
70410001	10	RKL4303-010	7072403		
70410000	10	RKL4330-010	7072409		

INDRAMAT standard IKS/RKG



Technical data

Minimum bend radius:

- for stationary use:- for continuous flex:5 x cable diameter10 x cable diameter

7 Nominal voltage: 300V

o°‡	Temperature	range:

- for stationary use: -30°C to +90°C - for continuous flex: -30°C to +80°C

Approvals: UL: AWM 20234

LAPP part number	Length m	INDRAMAT part number	LAPP cable
INDRAMAT standard	IKS		
70335583	10	IKS4374-010	7072401
70335584	10	IKS4376-010	7072401
70335595	10	IKS4103-010	7072401
70335596	10	IKS4153-010	7072401

Listed part numbers are	for 10m lengths O	ther lengths are avai	lable: call 800-774-3539

LAPP part number	Length m	INDRAMAT part number	LAPP cable		
INDRAMAT standard RKG					
70392984	10	RKG4200-010	7072401		
70410002	10	RKG4201-010	7072401		

Servo assemblies according to LENZE® standard













Technical data

Minimum bend radius:

for stationary use:for continuous flex:7.5 x cable diameter10 x cable diameter

Temperature range:

- for stationary use: -25°C to +80°C - for continuous flex: -5°C to +70°C

7 Nominal voltage:

- resolver & encoder cable:

- UL/CSA: 300V - VDE: 30V - motor cable, power conductors: - UL/CSA: 600V - VDE: 600/1000V 亿 Test voltage:

- resolver & encoder cable: 1500V

- motor cable:

power conductors: 4000Vcontrol conductors: 2000V

Approvals:

- resolver & encoder cable: AWM 21165 (flexing)

AWM 2464 (stationary)

- motor cable: AWM 20940 (flexing)

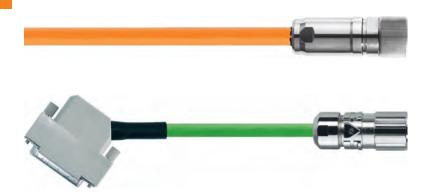
AWM 2570 (stationary)

LAPP part number	Application type	Length m	Construction () = shielded	LENZE assembly part number
Servo cable			()	
74321272	flexing	10	16 AWG/4c + (20 AWG/1pr)	EWLM-010GMS-015
74321426	flexing	10	14 AWG/4c + (20 AWG/1pr)	EWLM-010GMS-025
74320320	stationary	10	16 AWG/4c + (20 AWG/1pr)	EWLM-010GM-015
74320499	stationary	10	14 AWG/4c + (20 AWG/1pr)	EWLM-010GM-025
70415002	stationary	10	16 AWG/4c	EYP-0003-A-0100-M01-A00
Fan cable				
74322629	flexing	10	20 AWG/5c	EWLL-010GMS
70415001	flexing	10	19 AWG/5c	EYL-0001-V-0100L02-J02
74322480	stationary	10	20 AWG/5c	EWLL-010GM
Resolver cable				
74323073	flexing	10	3x(26 AWG/1pr) + (20 AWG/1pr)	EWLR-010GMS-T
70415005	flexing	10	26 AWG/3c + 26 AWG/3pr	EYF-0020-A-0100-F01-S04
74320540	stationary	10	3x(26 AWG/1pr) + (20 AWG/1pr)	EWLR-010GM-T
Encoder cable				
74323672	flexing	10	4x(26 AWG/1pr) + (18 AWG/1pr)	EWLE-010GMS-T
74323522	stationary	10	4x(26 AWG/1pr) + (18 AWG/1pr)	EWLE-010GM-T

Listed part numbers are for 10m lengths. Other lengths are available; call 800-774-3539.



Servo assemblies according to SEW® standard



Approvals





Construction

part number

Technical data

Minimum bend radius:

- power cable: 15 x cable diameter - signal cable: 15 x cable diameter

Temperature range:

- power cable: -10°C to +80°C - signal cable: -5°C to +70°C

化 Test voltage:

- power cable: 2000V 1500V - signal cable:

7 Nominal voltage:

LAPP

- power cable, power conductors: - UL: 600V - IEC: 750V - power cable, signal conductors:

- UL: 600V - IEC: 350V - signal cable: 250V

Approvals: UL: AWM 2587

Application

LAPP part number	Application type	Length m	Construction	SEW assembly part number
Power cable				
70430251	stationary	10	16 AWG/4c	05904544
70430250	etationary	10	16 AWG/4c +	13324853
70430230	0250 stationary	10	18 AWG/3c	13324033

er cable					Signal cable				
0430251	stationary	10	16 AWG/4c	05904544	70430252	flexing	10	24 AWG/6pr	1995405
0430250	stationary	10	16 AWG/4c +	13324853	70430249	stationary	10	24 AWG/6pr	13324535
0430230	Stational y	10	18 AWG/3c	13324033					

Listed part numbers are for 10m lengths. Other lengths are available; call 800-774-3539.

ÖLFLEX® CONNECT CHAIN

When it comes to assembled cable chains, you can benefit from LAPP's knowhow and many years of experience. Our specialists assure that everything runs perfectly for your application. Put your trust in reliable and highly efficient power chain solutions from a single supplier.

We accompany you on the path to the perfect solution

- · Technical evaluation
- Initial CAD design of the chain system (including cable layout)
- Project management
- · Completion of chain system design

ÖLFLEX® CONNECT CHAIN systems can include

- Cable chains in nylon or steel design according to your application requirements
- Highly flexible power, control, signal, and data network cables including accessories (cable lugs, connectors, etc.)
- · Protective cable conduit with conduit glands
- Hydraulic hoses with fittings
- · Pneumatic hoses
- · Towing arms or other functional units
- CAD drawing of your chain including cable layout (optimal placement and separation of all energy lines in a chain)
- · Testing including comprehensive test report
- · Individual installation instructions

Reliable cutting-edge technology

LAPP prides itself on high-quality components, maximum functionality and long service life.

Guaranteed brand quality

Our systems are tested extensively and delivered with a comprehensive system guarantee.

Competent system supplier

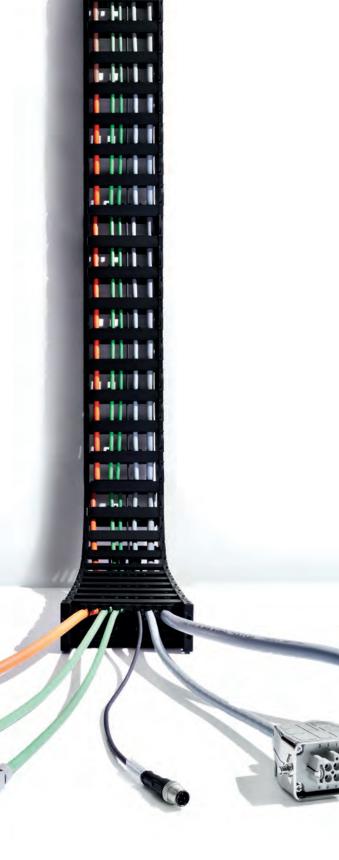
Components, chain, and assembly are all provided from one source, streamlining the ordering process.

Less effort

You reduce administrative work and overhead.

Cost savings

Less inventory carrying costs of multiple components, cutting scrap costs and production inventory.



ÖLFLEX® CONNECT CHAIN design form

This form is designed to assure LAPP designs and delivers the right populated cable chain for your application.

Please complete as much of the form as possible and fax to 973-660-9330 or email to sales@lappusa.com or your local LAPP representative.

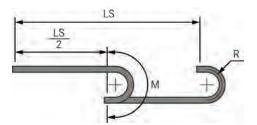
The custom chain order form is also available online at lappusa.lappgroup.com/nc/systems/populated-tracks/custom-cable-track.html.

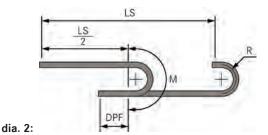
Chain dimensions

I. Total length of existing chain, if replacing:

2. Total distance traveled in one cycle (LS):

3. Is the chain center mounted? (dia. 1)





dia. 1:

5. Direction/orientation of travel (please check one):

horizontal _____ vertical

side-running

6. Bend radius: ______ ir

7. Maximum available mounting width on the machine/equipment (dia. 3 (in)): ______ in.

8. Maximum available mounting height on the machine/equipment (dia. 4 (in)): ______ in.



9. Standard mounting bracket orientation is outside-to-outside. If other, please specify:

ÖLFLEX® CONNECT

Chain specifications

Cables Hoses
Hoses
1. Operation speed:
2. Chain acceleration:
3. Operation frequency: cyc

Industrial Ethernet cordsets



The use of both RI45 and M12 connectors in Ethernet network protocols is common. LAPP continuous flex CAT.5e & CAT.6A cables offer a unique solution for the demanding needs of motion systems, where a network connection has been integrated for program interface from remote locations. LAPP's product offering supports both flexing and stationary industrial Ethernet requirements.

Available configurations

- single-ended cordsets: 4 pair
- · extension cordsets: 4 pair
- single-ended cordsets: 2 pair
- extension cordsets: 2 pair

thermoplastic polyurethane; black

thermoplastic polyurethane; black*

thermoplastic polyurethane; black*

copper braid or foil & copper braid polyurethane; teal or green

* color is typical, not standard

see specific cable catalog page

1000 (not for power applications)

thermoplastic polyurethane; blue-gray*

polycarbonate

gold-plated brass nickel-plated brass

polyethylene

Technical data

Material:

- contact carrier:

- M12: - RI45:

- molded head:

- M12, 8-position: - M12, 4-position D-code:

- RJ45:

- contacts:

- coupling nut:

- shield:

- outer jacket:

- conductor insulation:

Temperature range:

7 Rated voltage: 42V

- cable:

pprox Rated current: 1.5A

Number of conductors:

- M12 D-code/RJ45 shielded: 26 - 22 AWG/2pr, stranded or solid

- M12 8-pos. & RJ45S: 26 - 22 AWG/4pr, stranded or solid

IP Protection class:

- M12:

IP67

NEMA 1, 3, 4, 6P

- RJ45: IP20

NEMA 1, 3, 4, 6P

Cable type:

- for stationary use: CAT.5e: ETHERLINE® 2 pair CAT.5e, page 237

CAT.6A: ETHERLINE® 4 pair CAT.6A, page 247

- continuous flex:

CAT.5e: ETHERLINE® 2 pair CAT.5e, page 238

ETHERLINE® 4 pair CAT.5e, page 245

ETHERLINE® 4 pair CAT.5e, page 244

CAT.6A: ETHERLINE® 4 pair CAT.6A, page 248

Pin outs

Ethernet M12 8-position, 4 pair

male



1 = white/blue 2 = white/brown

3 = brown

4 = orange (-TX)



5 = white/green (+RX)

6 = white/orange (+TX)

7 = blue

8 = green(-RX)

Ethernet M12 X-coded, 4 pair

male

1 = white/orange (+TX)

2 = orange (-TX)

3 = white/green (+RX)

4 = green(-RX)

female

5 = white/brown

6 = brown

7 = white/blue

8 = blue

Ethernet M12 D-coded, 2 pair



1 = white/orange (+TX)

2 = white/green (+RX)

3 = orange (-TX)

4 = green(-RX)



Ethernet RI45 shielded

4 pair



1 = white/orange (+TX)

2 = orange(-TX)

3 = white/green (+RX)

4 = blue

5 = white/blue

6 = green(-RX)

7 = white/brown

8 = brown



1 = white/orange (+TX)

2 = orange(-TX)

3 = white/green (+RX)

4 = N/C5 = N/C

6 = green(-RX)

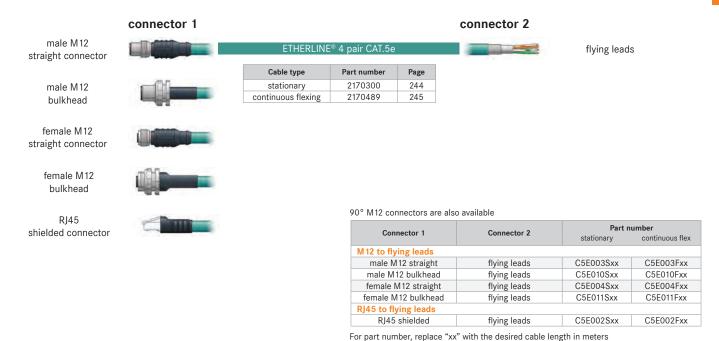
7 = N/C

8 = N/C



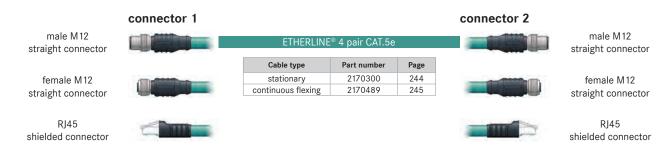
Ethernet single-ended cordsets: 4 pair CAT.5e

8-pos. M12 or 8-wire RJ45 connectors to flying leads



Ethernet extension cordsets: 4 pair CAT.5e

8-pos. M12 or 8-wire RJ45 connectors



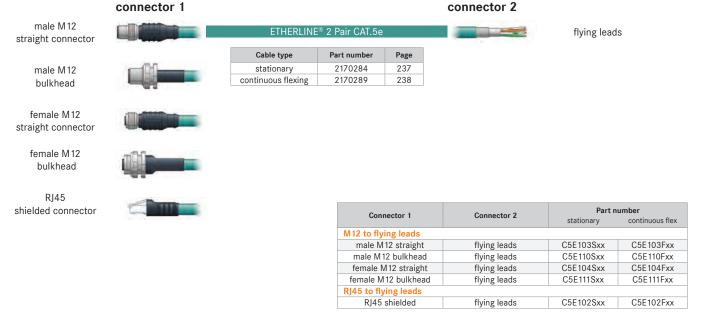
Connector 1	Connector 2	Part number		
Connector 1	Connector 2	stationary	continuous flex	
M12 to M12				
male M12 straight	male M12 straight	C5E005Sxx	C5E005Fxx	
male M12 straight	female M12 straight	C5E007Sxx	C5E007Fxx	
female M12 straight	female M12 straight	C5E006Sxx	C5E006Fxx	

For part number, replace "xx" with the desired cable length in meters 90° M12 connectors are also available

Connector 1	Connector 2	Part n	umber					
Connector 1	Connector 2	stationary	continuous flex					
M12 to RJ45	M12 to RJ45							
male M12 straight	RJ45 shielded	C5E008Sxx	C5E008Fxx					
female M12 straight	RJ45 shielded	C5E009Sxx	C5E009Fxx					
RJ45 to RJ45								
RJ45 shielded	RJ45 shielded	C5E001Sxx	C5E001Fxx					

Ethernet single-ended cordsets: 2 pair CAT.5e

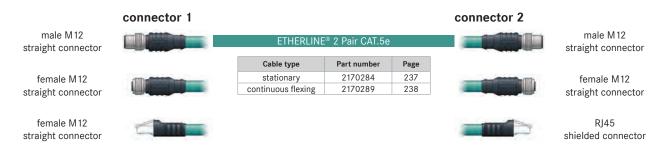
4-pos. M12 D-coded or 4-wire RJ45 connectors to flying leads



For part number, replace "xx" with the desired cable length in meters 90° M12 connectors are also available

Ethernet extension cordsets: 2 Pair CAT.5e

4-pos. M12 D-coded or 4-wire RJ45 connectors



Connector 1	Connector 2	Part number		
Connector 1	Connector 2	stationary	continuous flex	
M12 to M12				
male M12 straight	male M12 straight	C5E105Sxx	C5E105Fxx	
male M12 straight	female M12 straight	C5E107Sxx	C5E107Fxx	
female M12 straight	female M12 straight	C5E106Sxx	C5E106Fxx	

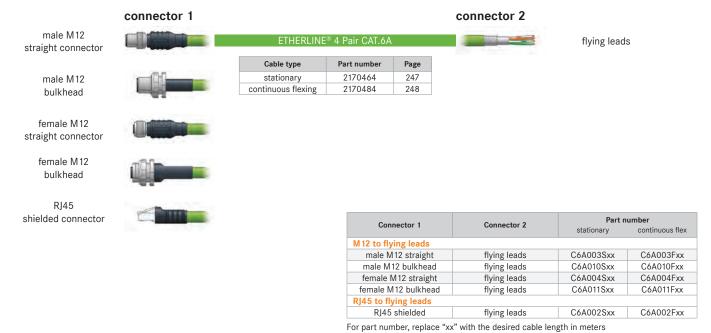
For part number, replace "xx" with the desired cable length in meters 90° M12 connectors are also available

Connector 1	Connector 2	Part number				
Connector 1	Connector 2	stationary	continuous flex			
M12 to RJ45						
male M12 straight	RJ45 shielded	C5E108Sxx	C5E108Fxx			
female M12 straight	RJ45 shielded	C5E109Sxx	C5E109Fxx			
RJ45 to RJ45						
RJ45 shielded	flying leads	C5E101Sxx	C5E101Fxx			



Ethernet single-ended cordsets: 4 pair CAT.6A

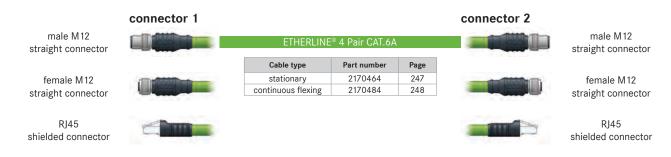
8-pos. M12 or 8-wire RJ45 connectors to flying leads



90° M12 connectors are also available

Ethernet extension cordsets: 4 pair CAT.6A

8-pos. M12 or 8-wire RJ45 connectors



Connector 1	Connector 2	Part number		
Connector i	Connector 2	stationary	continuous flex	
M 12 to M 12				
male M12 straight	male M12 straight	C6A005Sxx	C6A005Fxx	
male M12 straight	female M12 straight	C6A007Sxx	C6A007Fxx	
female M12 straight	female M12 straight	C6A006Sxx	C6A006Fxx	

For part number, replace "xx" with the desired cable length in meters 90° M12 connectors are also available

Connector 1	Connector 2	Part n	umber
Connector 1	Connector 2	stationary	continuous flex
M12 to RJ45			
male M12 straight	RJ45 shielded	C6A008Sxx	C6A008Fxx
female M12 straight	RJ45 shielded	C6A009Sxx	C6A009Fxx
RJ45 to RJ45			
RJ45 shielded	RJ45 shielded	C6A001Sxx	C6A001Fxx

PROFINET® cordsets

These pre-tested molded cordsets utilize high quality continuous flex cable and integral molded strain relief. For motion applications, these cordsets are designed to provide interconnection between simple devices (sensors and actuators) and high level devices (PLCs and computers). Stationary cordsets offer long-lasting, reliable performance at reduced costs when continuous flexing is not required.

Available configurations

• single-ended cordsets: 2 pair

• extension cordsets: 2 pair

Technical data

Material:

- plug: PBT (V-0 per UL 94)
 - coupling nut: nickel-plated brass
 - shield: foil & tinned copper braid
 - outer jacket: polyurethane or PVC; green

- conductor insulation: polyethylene

"# Temperature range: see specific cable catalog page

7 Rated voltage:

- PROFINET M12: 250V - PROFINET RJ45: 42V

- cable: (not for power applications)

- for stationary use: 600V UL/AWM

- for continuous flexing: 100V

Rated current:

- PROFINET M12: 4A - PROFINET RJ45: 1.5A

Number of conductors: 22 AWG/2pr, stranded

IP Protection class:

- PROFINET M12: IP67 - PROFINET RJ45: IP20

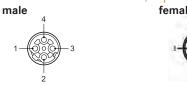
Cable type:

for stationary use:
 for continuous flexing:
 ETHERLINE® 2 pair CAT.5, page 237
 ETHERLINE® 2 pair CAT.5, page 238



Pin outs

PROFINET M12 D-coded, 2 pair



1 = yellow (TD+)

2 = orange (TD-)

3 = white (RD+)

4 = blue (RD-)

PROFINET RJ45 shielded

2 pair



1 = yellow (TD+)

2 = orange (TD-)

3 = white (RD+)

4 = N/C

5 = N/C

6 = blue(RD-)

7 = N/C

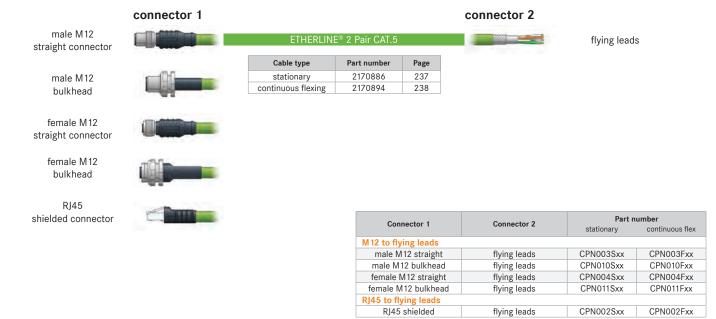
8 = N/C

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

ÖLFLEX® CONNECT

PROFINET® single-ended cordsets: 2 pair CAT.5

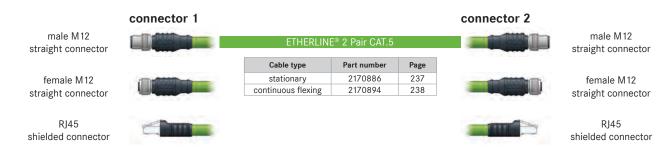
4-pos. M12 or 4-wire RJ45 connectors to flying leads



For part number, replace "xx" with the desired cable length in meters 90° M12 connectors are also available

PROFINET® extension cordsets: 2 pair CAT.5

4-pos. M12 or 4-wire RJ45 connectors



Connector 1	Connector 2	Part number	
Connector 1		stationary	continuous flex
M12 to M12			
male M12 straight	male M12 straight	CPN005Sxx	CPN005Fxx
male M12 straight	female M12 straight	CPN007Sxx	CPN007Fxx
female M12 straight	female M12 straight	CPN006Sxx	CPN006Fxx

For part number, replace "xx" with the desired cable length in meters 90° M12 connectors are also available

Connector 1	Connector 2	Part number	
Connector I		stationary	continuous flex
M12 to RJ45			
male M12 straight	RJ45 shielded	CPN008Sxx	CPN008Fxx
female M12 straight	RJ45 shielded	CPN009Sxx	CPN009Fxx
RJ45 to RJ45			
RJ45 shielded	RJ45 shielded	CPN001Sxx	CPN001Fxx

PROFIBUS® cordsets

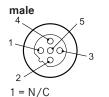
These pre-tested molded cordsets utilize high-quality continuous flex cable and integral molded strain relief. For motion applications, these cordsets are designed to provide interconnection between simple devices (sensors and actuators) and high level devices (PLCs and computers). Stationary cordsets offer long-lasting, reliable performance at reduced costs when continuous flexing is not required.

Available configurations

- · single-ended cordsets
- · D-Sub Y-cordsets
- · extension cordsets
- · D-Sub cordsets
- · panel mount receptacle cordsets

Pin outs

PROFIBUS M12



2 = green (BUS_A)

3 = N/C

 $4 = red (BUS_B)$

5 = bare (shield)



female

Material:

Technical data

- contact carrier: PBT; black (V-0 per UL 94)

- molded head: thermoplastic polyurethane; black*

- contacts: gold-plated brass - coupling nut: nickel-plated brass foil & tinned copper braid - shield: PVC or polyurethane; violet - outer jacket:

- conductor insulation: polyethylene

* color is typical, not standard

Temperature range:

- PROFIBUS M12: -40°C to +80°C - PROFIBUS DB9: 0°C to +60°C

- cable: see specific cable catalog page

7 Rated voltage: 250V

pprox Rated current: 4A

Number of conductors: 24 or 22 AWG/2pr (shielded data pair)

P Protection class:

- PROFIBUS M12: IP67

NEMA 1, 3, 4, 6

- PROFIBUS DB: IP67

NEMA 1, 3, 4, 6, 13

- D9S: IP20

Cable type:

- for stationary use: UNITRONIC® BUS PB, page 173 - for continuous flex: UNITRONIC® BUS PB FD, page 174

PROFIBUS DB 9

1 2 3 4 5 00000 0000 6 7 8 9

1 = N/C6 = N/C2 = N/C7 = N/C

 $3 = red (BUS_B)$ 8 = green (BUS_A)

4 = N/C9 = N/C

5 = N/C

Approvals

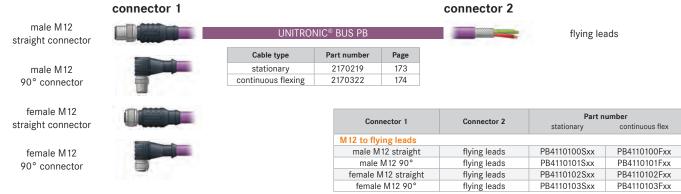
For approvals, inquire with our factory: 800-774-3539.

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PROFIBUS® single-ended cordsets

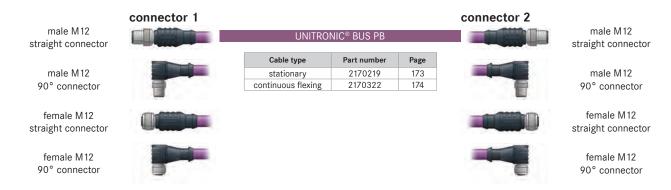
5-pos. M12 connectors to flying leads



For part number, replace "xx" with the desired cable length in meters

PROFIBUS® extension cordsets

5-pos. M12 connectors to 5-pos. M12 connectors



Connector 1

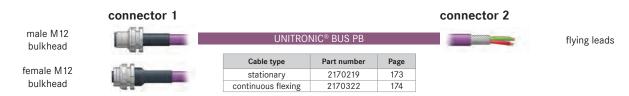
Connector 1	Connector 2 Page 1	Part n	rt number	
Connector 1		stationary	continuous flex	
male M12 straight	male M12 straight	PB4110128Sxx	PB4110128Fxx	
male M12 straight	male M12 90°	PB4110129Sxx	PB4110129Fxx	
male M12 straight	female M12 straight	PB4110104Sxx	PB4110104Fxx	
male M12 straight	female M12 90°	PB4110105Sxx	PB4110105Fxx	
male M12 90°	male M12 90°	PB4110131Sxx	PB4110131Fxx	

		stationary	continuous flex
male M12 90°	female M12 straight	PB4110106Sxx	PB4110106Fxx
male M12 90°	female M12 90°	PB4110107Sxx	PB4110107Fxx
female M12 straight	female M12 straight	PB4110134Sxx	PB4110134Fxx
female M12 straight	female M12 90°	PB4110135Sxx	PB4110135Fxx
female M12 90°	female M12 90°	PB4110139Sxx	PB4110139Fxx

For part number, replace "xx" with the desired cable length in meters

PROFIBUS® panel mount receptacle cordsets

5-pos. M12 panel mount bulkheads to flying leads



Connector 1	Connector 2	Part number	
Connector 1		stationary	continuous flex
male M12 bulkhead	flying leads	PB4110119Sxx	PB4110119Fxx
female M12 bulkhead	flying leads	PB4110120Sxx	PB4110120Fxx

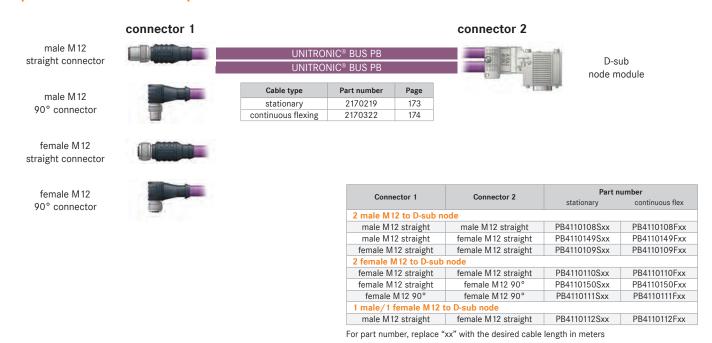
For part number, replace "xx" with the desired cable length in meters



Part number

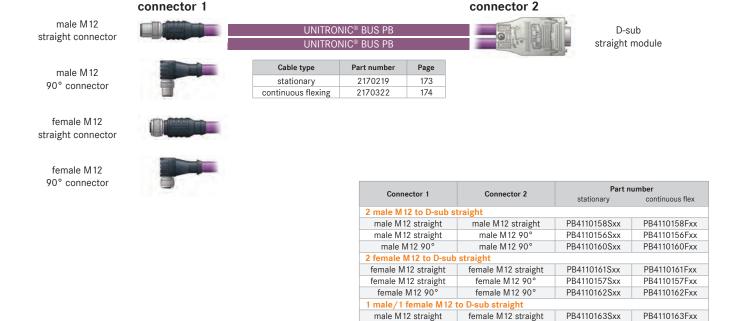
PROFIBUS® D-sub Y-cordsets

Two 5-pos. M12 connectors to 9-pos. D-sub node module



PROFIBUS® D-sub Y-cordsets

Two 5-pos. M12 connectors to 9-pos. D-sub straight module



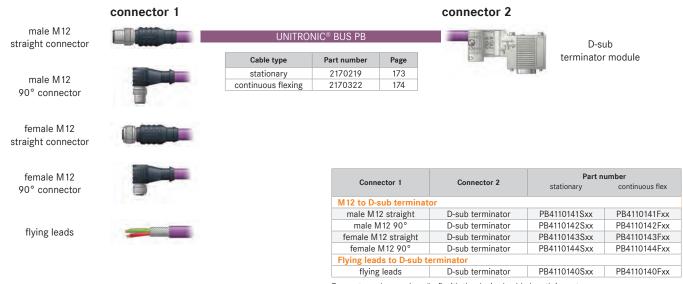
For part number, replace "xx" with the desired cable length in meters

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PROFIBUS® D-sub cordsets

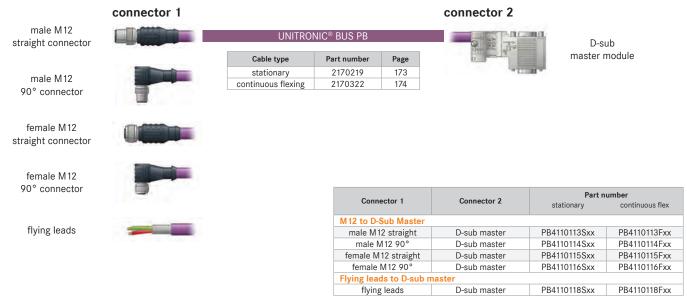
5-pos. M12 connectors or flying leads to 9-pos. D-sub terminator module



For part number, replace "xx" with the desired cable length in meters $% \left(x\right) =\left(x\right) +\left(x$

PROFIBUS® D-sub cordsets

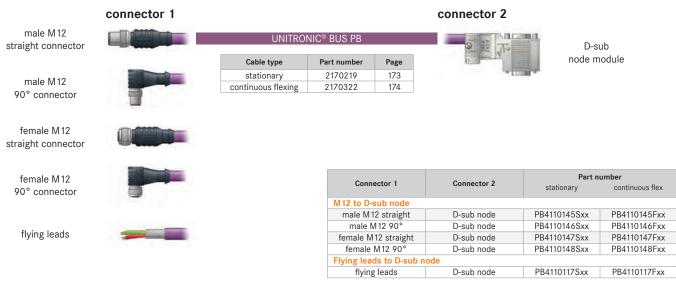
5-pos. M12 connectors or flying leads to 9-pos. D-sub master module



For part number, replace "xx" with the desired cable length in meters.

PROFIBUS® D-sub cordsets

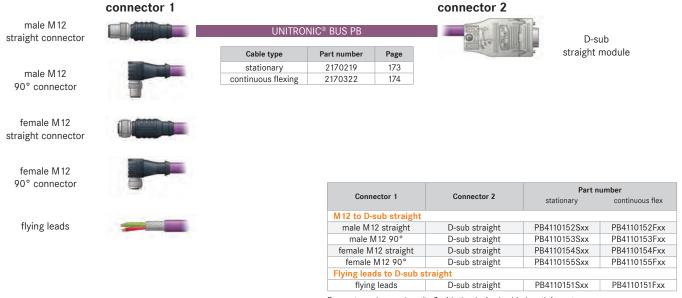
5-pos. M12 connectors or flying leads to 9-pos. D-sub node module



For part number, replace "xx" with the desired cable length in meters.

PROFIBUS® D-sub cordsets

5-pos. M12 connectors or flying leads to 9-pos. D-sub straight module



For part number, replace "xx" with the desired cable length in meters.

DeviceNet[™] cordsets

These molded cordsets offer Thick and Thin connectivity in a DeviceNet™ application. LAPP solutions offer the ability to connect in a motion system such as X-Y-Z motion equipment. The stationary versions offer the same functionality as the flexing in terms of connectivity for an environment when continuous flexing is not required. Conveyor systems are a popular application for these cordsets.

Available configurations

- · thick single-ended cordsets
- · thick panel mount receptacles
- · thick extension cordsets
- thick panel mount extension cordsets
- · thin single-ended cordsets
- thin extension cordsets
- thin panel mount receptacles
- thin panel mount extension cordsets
- thin open-style termination cordsets

Pin outs

DeviceNetTM 7/8"

male

1 = bare (shield)

 $4 = \text{white (CAN_H)}$

 $5 = blue (CAN_L)$



2 = red (+ voltage)

3 = black (- voltage)



1 = bare (shield)

2 = red (+ voltage)

3 = black (- voltage)

 $4 = \text{white (CAN}_H)$

female

DeviceNet™ M12

5 = blue (CAN_L)



Approvals

For approvals, inquire with our factory: 800-774-3539.

Technical data

Material:

- contact carrier: thermoplastic polyurethane; blue-gray - molded head: thermoplastic polyurethane; blue-gray* - contacts: gold-plated brass

- coupling nut: nickel-plated brass

- shield: foil (pairs) & overall tinned copper braid

- outer jacket: PVC; gray

- conductor insulation:

polyethylene - for data: - for power: PVC

-20°C to +75°C

* color is typical, not standard

7 Rated voltage:

Temperature range:

- DeviceNet™ 7/8": 300V - DeviceNet™ M12: 250V

pprox Rated current:

- DeviceNet™ 7/8": 9A - DeviceNet™ M12: 4A

Number of conductors:

- DeviceNet™ 7/8": incl. 18 AWG drain wire - 6001: 14 AWG/1pr + 18 AWG/1pr 15 AWG/1pr + 18 AWG/1pr - 4001: - DeviceNet™ M12: 22 AWG/1pr + 24 AWG/1pr + 22 AWG drain wire

IP Protection class: meets NEMA 1, 3, 4, 6, 13 & IEC IP67

Cable type:

- for stationary use: UNITRONIC® BUS DeviceNet™ Gray,

page 167

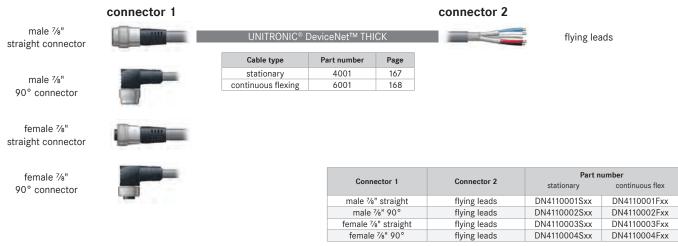
- for continuous flex: UNITRONIC® BUS DeviceNet™ FD Gray,

page 168

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

DeviceNet™ thick single-ended cordsets

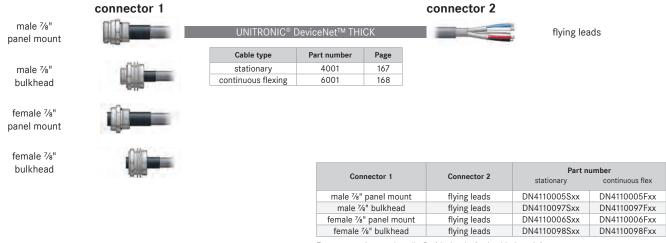
5-pos. 7/8" connectors to flying leads



For part number, replace "xx" with the desired cable length in meters

DeviceNet[™] thick panel mount receptacle cordsets

5-pos. 7/8" panel mount bulkheads to flying leads

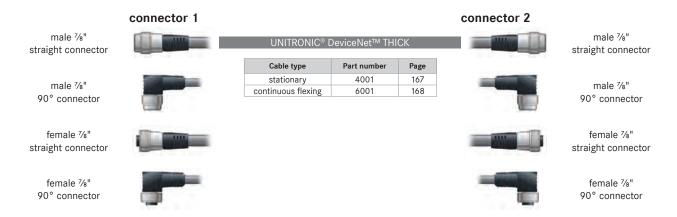


For part number, replace "xx" with the desired cable length in meters



DeviceNet™ thick extension cordsets

5-pos. 7/8" connectors to 5-pos. 7/8" connectors



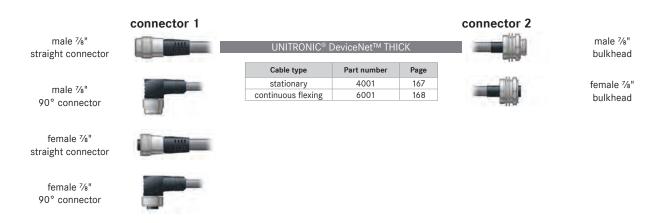
Connector 1			Part number	
Connector I	ector 1 Connector 2	stationary	continuous flex	
male %" straight	male %" straight	DN4110052Sxx	DN4110052Fxx	
male %" straight	male %" 90°	DN4110053Sxx	DN4110053Fxx	
male %" straight	female %" straight	DN4110008Sxx	DN4110008Fxx	
male %" straight	female %" 90°	DN4110009Sxx	DN4110009Fxx	
male 7/8" 90°	male 1/8" 90°	DN4110054Sxx	DN4110054Fxx	

For part number, replace "xx" with the desired cable length in meters

	Connector 2	Part number	
Connector 1		stationary	continuous flex
male 1/8" 90°	female %" straight	DN4110010Sxx	DN4110010Fxx
male 1/8" 90°	female %" 90°	DN4110011Sxx	DN4110011Fxx
female 7/4" straight	female %" straight	DN4110055Sxx	DN4110055Fxx
female 7/4" straight	female %" 90°	DN4110056Sxx	DN4110056Fxx
female 1/8" 90°	female %" 90°	DN4110057Sxx	DN4110057Fxx

DeviceNet™ thick panel mount extension cordsets

5-pos. 7/8" connectors to 5-pos. 7/8" panel mount bulkheads



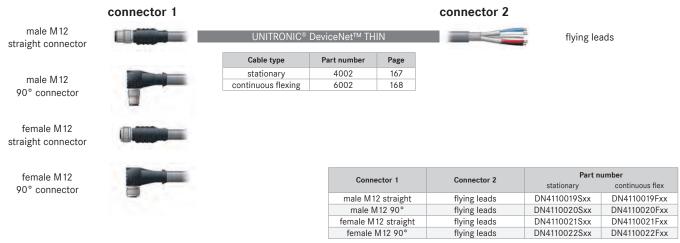
Connector 1	Connector 1 Connector 2	Part number	
Connector 1		stationary	continuous flex
male %" straight	male %" bulkhead	DN4110072Sxx	DN4110072Fxx
male %" straight	female %" bulkhead	DN4110017Sxx	DN4110017Fxx
male %" 90°	male %" bulkhead	DN4110073Sxx	DN4110073Fxx
male %" 90°	female %" bulkhead	DN4110018Sxx	DN4110018Fxx

For part number, replace "xx" with the desired cable length in mete	rs
---	----

	Connector 2	Part number	
Connector 1		stationary	continuous flex
female %" straight	male 7/8" bulkhead	DN4110015Sxx	DN4110015Fxx
female %" straight	female %" bulkhead	DN4110078Sxx	DN4110078Fxx
female %" 90°	male %" bulkhead	DN4110016Sxx	DN4110016Fxx
female %" 90°	female %" bulkhead	DN4110079Sxx	DN4110079Fxx

DeviceNet[™] thin single-ended cordsets

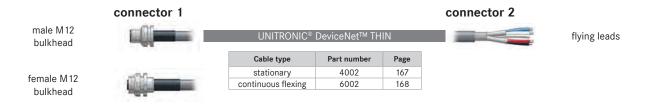
5-pos. M12 connectors to flying leads



For part number, replace "xx" with the desired cable length in meters

DeviceNet™ thin panel mount receptacle cordsets

5-pos. M12 panel mount bulkheads to flying leads



Connector 1	Connector 2	Part n	umber
Connector 1	Connector 1 Connector 2	stationary	continuous flex
male M12 bulkhead	flying leads	DN4110040Sxx	DN4110040Fxx
female M12 bulkhead	flying leads	DN4110039Sxx	DN4110039Fxx

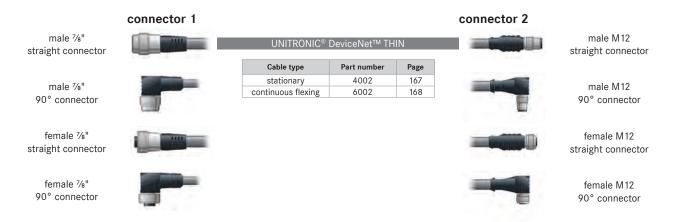
For part number, replace "xx" with the desired cable length in meters

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DeviceNet™ thin extension cordsets

5-pos. 7/8" connectors to 5-pos. M12 connectors



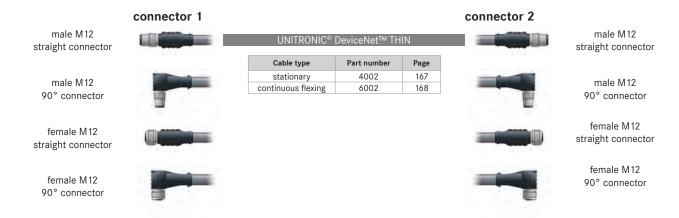
Connector 1	Connector 2	Part number	
Connector 1	Connector 2	stationary	continuous flex
male %" straight	male M12 straight	DN4110058Sxx	DN4110058Fxx
male %" straight	male M12 90°	DN4110061Sxx	DN4110061Fxx
male %" straight	female M12 straight	DN4110027Sxx	DN4110027Fxx
male %" straight	female M12 90°	DN4110028Sxx	DN4110028Fxx
male 7/8" 90°	male M12 straight	DN4110059Sxx	DN4110059Fxx
male 7/8" 90°	male M12 90°	DN4110062Sxx	DN4110062Fxx
male 7/8" 90°	female M12 straight	DN4110029Sxx	DN4110029Fxx
male 1/8" 90°	female M12 90°	DN4110030Sxx	DN4110030Fxx

For part number, replace "xx" with the desired cable length in meters

Connector 1	Connector 2	Part n	umber	
Connector 1	Connector 2	stationary	continuous flex	
female %" straight	male M12 straight	DN4110031Sxx	DN4110031Fxx	
female %" straight	male M12 90°	DN4110032Sxx	DN4110032Fxx	
female %" straight	female M12 straight	DN4110065Sxx	DN4110065Fxx	
female 7/4" straight	female M12 90°	DN4110068Sxx	DN4110068Fxx	
female 1/8" 90°	male M12 straight	DN4110033Sxx	DN4110033Fxx	
female %" 90°	male M12 90°	DN4110034Sxx	DN4110034Fxx	
female %" 90°	female M12 straight	DN4110066Sxx	DN4110066Fxx	
female %" 90°	female M12 90°	DN4110069Sxx	DN4110069Fxx	

DeviceNet™ thin extension cordsets

5-pos. M12 connectors to 5-pos. M12 connectors



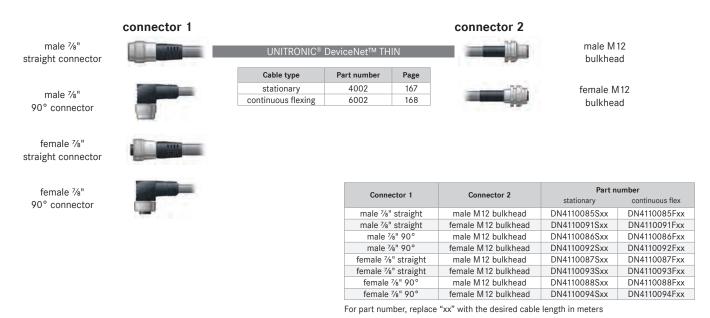
Connector 1	Connector 2	Part number				
		stationary	continuous flex			
male M12 straight	male M12 straight	DN4110060Sxx	DN4110060Fxx			
male M12 straight	male M12 90°	DN4110063Sxx	DN4110063Fxx			
male M12 straight	female M12 straight	DN4110023Sxx	DN4110023Fxx			
male M12 straight	female M12 90°	DN4110024Sxx	DN4110024Fxx			
male M12 90°	e M12 90° male M12 90°		DN4110064Fxx			

For part number, replace "xx" with the desired cable length in meters $% \left(x\right) =\left(x\right) +\left(x\right) =\left(x\right) +\left(x\right) +\left(x\right) =\left(x\right) +\left(x$

Connector 1	Connector 2	Part n	umber
Connector i	Connector 2	stationary	continuous flex
male M12 90°	female M12 straight	DN4110025Sxx	DN4110025Fxx
male M12 90°	female M12 90°	DN4110026Sxx	DN4110026Fxx
female M12 straight	female M12 straight	DN4110067Sxx	DN4110067Fxx
female M12 straight	female M12 90°	DN4110070Sxx	DN4110070Fxx
female M12 90° female M12 90°		DN4110071Sxx	DN4110071Fxx

DeviceNet™ thin panel mount extension cordsets

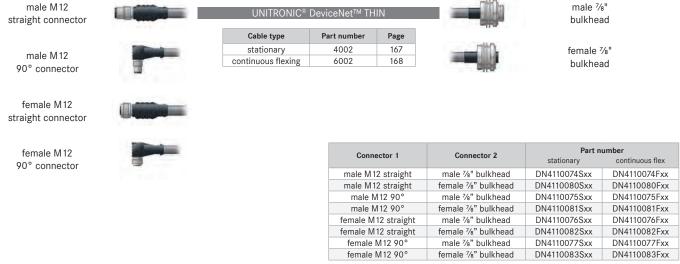
5-pos. 7/8" connectors to 5-pos. M12 panel mount bulkheads



DeviceNet[™] thin panel mount extension cordsets

5-pos. M12 connectors to 5-pos. 7/8" panel mount bulkheads

connector 1



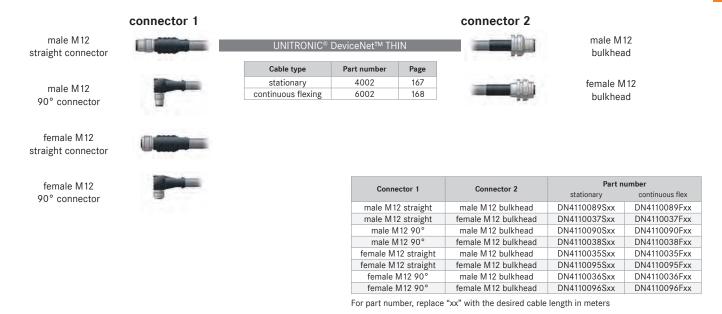
For part number, replace "xx" with the desired cable length in meters

connector 2



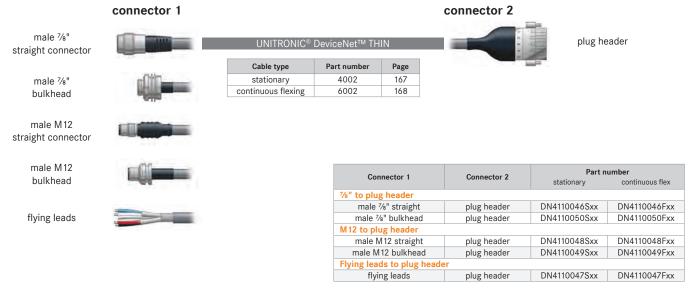
DeviceNet™ thin panel mount extension cordsets

5-pos. M12 connectors to 5-pos. M12 panel mount bulkheads



DeviceNet™ thin open style termination cordsets

5-pos. 7/8" or M12 panel mount bulkheads to 5-pos. plug header



For part number, replace "xx" with the desired cable length in meters

Remote access ports

ÖLFLEX® CONNECT provides the key to continued productivity with a complete line of remote access ports. These ports allow for easy access to a PLC or industrial computer device without compromising safety. Many configurations are available for "standard" protocols while custom designs can be manufactured to suit any application. Pre-wired cable assemblies are also offered to ensure proper component termination.

Before... the hard way

- dangerous open exposed wire
- safety hazard
- production interruption



OSHA, in conjunction with NFPA, defines safe work practices for employees working on or around live voltage. Personnel who have not been trained and certified and who are not wearing approved personal protective equipment shall not open panels over 50V DC to program a device within the panel.

After... the easy way

- · closed panel
- safe
- · production continuity



Approvals

For approvals, inquire with our factory: 800-774-3539.

Remote access ports provide programming access without opening the panel to allow you to comply with:

- OSHA 29 CRF 1910.147
- · NFPA 70E and NFPA 79 Electrical Machinery Safety
- Standard 2002 Edition, Sections 16.1.1 (6), 16.1.2

Standard and custom configurations are available. These include: AC outlets, circuit breakers, DIN couplers, phone jacks, D-sub connectors, key lock switches, computer data storage devices, and just about any component that can fit in the available port housings.

ÖLFLEX® CONNECT

Standard remote access port configurations

6-9XP



6-45CS



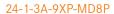
10-45CS-UABP



16-1-MD8P



16-1-9XP



24-1-3A-9XP

32-2-3A-9XP

32-G2-3A-45CS











Part number	EPIC® HB enclosure	Components
6-9XP	HB 6	DB 9 gender-to-gender coupler
6-45CS	HB 6	RJ45 CAT.5e shielded coupler
10-1-45CS	HB 10	single AC outletRJ45 CAT.5e shielded coupler
10-45CS-UABP	HB 10	USB A-B portRJ45 CAT.5e shielded coupler
16-1-MD8P	HB 16	single AC outlet8-position mini DIN coupler
16-1-9XP	HB 16	single AC outletDB 9 gender-to-gender coupler

Other standard and custom configurations are also available

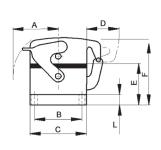
Part number	EPIC® HB enclosure	Components
24-1-3A-9XP-MD8P	HB 24	 single AC outlet 3A circuit breaker DB 9 gender-to-gender coupler 8-position mini DIN coupler
24-1-3A-9XP	HB 24	single AC outlet3A circuit breakerDB 9 gender-to-gender coupler
32-2-3A-9XP	HB 32	duplex AC outlet 3A circuit breaker DB 9 gender-to-gender coupler
32-G2-3A-45CS	HB 32	GFCI outlet3A circuit breakerRJ45 CAT.5e shielded coupler

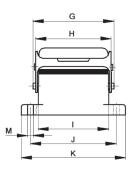
Dimensional data

EPIC® HB series bases & panel cut outs

EPIC® HB bases



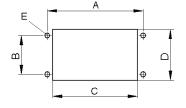




Series	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	l mm	J mm	K mm	L mm	M mm
HB 6	44.0	32.0	43.0	25.0	27.8	44.8	74.8	70.0	60.0	70.0	80.0	4.0	4.3
HB 10	50.0	32.0	43.0	25.0	27.8	44.8	91.0	88.5	73.0	83.0	93.0	4.0	4.3
HB 16	50.0	32.0	43.0	25.0	27.8	44.8	111.0	109.5	93.3	103.0	113.0	4.0	4.3
HB 24	50.0	32.0	43.0	25.0	27.8	44.8	138.0	136.5	120.0	130.0	140.0	4.0	4.3
HB 32	57.7	65.0	90.2	17.8	32.7	45.0	112.8	105.0	88.3	110.0	124.3	6.2	4.9
HB 48	105.0	70.0	90.0	30.0	39.5	56.5	152.0	139.5	132.0	148.0	165.0	10.0	7.0

EPIC® HB panel cut outs





Series	A mm	B mm	C mm	D mm	E mm
HB 6	70	32	52.2	35	4.3
HB 10	83	32	32 65.2		4.3
HB 16	103	32	85.5	35	4.3
HB 24	130	32	112.2	35	4.3
HB 32	110	65	85.5	76	5.5
HB 48	148	70	117.0	82	7.0

Custom remote access port order form

Assemble part number using the codes listed below. Ports may be ordered pre-wired with cable sets. Add "C" to the end of the component code to be wired, followed by the desired cable length in feet. Components will be housed in an appropriately-sized EPIC® HB surface mount enclosure.

Example: Part number 48-1-25MC10-3A:

EPIC® HB 48 housing (48) + Single AC outlet (1) + 25-pos. male D-sub (25M) with 10 ft of cable (C10) + 3A circuit breaker (3A)

	Qty.	V	✓ Description Code front					er back		Termination			Pass-through configuration (specify genders)	
O-subminiature:	•						,							
			DB 9		9	L	М	F	T	S		P		
		DB 15		15		М	F	Т	s		P			
· (1111) ·			DB 15 high den	sity	15H		М	F	T	S		P		
			DB 25		25		М	F	T	S		P		
			DB 37		37		М	F	Т	S		Ρ		
									T: ter	minal block i	nterface	S: solder cup P: p	oass-through	
	V		Description	Code	V	D	escriptio	n	Code	V		Description	Code	
Network ports														
-			RJ45 CAT.5e	45C		R	J45 CAT.	6	45C6			RJ45 CAT.6A	45C6A	
· mmy		RJ4	15 CAT.5e shielded	45CS		RJ45 (CAT.6 shi	elded	45C6S		RJ4	5 CAT.6A shielded	45C6AS	
						ΡI	11 coupl	or	11C					
						117	Посарі							
	V		Description		Code				V		Descri	iption	Code	
Bus connections	: solder-t	ermina	ted				USB	oorts: fron	t-to-back					
			M12 male 8-position		M12M8						USB A-	A port	UAP	
			M12 female 8-position	1	M12F8		1				USB A-	-B port	UABP	
			M12 male 4-position D-co	ded	M12M4				USB B-A port			A port	UBAP	
			M12 female 4-position D-c	oded	M12F4			•	USB B-B por			·B port	UBP	
			M12 male 5-position		M12M5		Circu	it breakers	S					
			M12 male 5-position		M 12F5						uit breaker	1A		
			%" male 5-position		78M5			5 A			•	uit breaker	2A	
			%" female 5-position		78F5		1	F			-	uit breaker	3A	
AC outlets							Pociti	on header		5-	amp circi	uit breaker	5A	
1,1			single AC outlet		1		TOSILI	on neader		;	3-positio	n header	3H	
			plex outlet with screw tern		28			900 ÷			5-positio	n header	5H	
L		G	FCI: ground fault circuit in	terrupt	G2		Firew	ire compo	nent		'			
			European outlet		GAC						_			
Mini DIN couple	rs										firev	vire	FW	
			6-position mini DIN coup	oler	MD6P		Fiber	optic coup	pler					
			8-position mini DIN coup	oler	MD8P					fiber op	tic couple	er (specify type)		
ther compon	ents are	availa	able. Please specify y	our requi	rements:									

Fax completed order form to 973-660-9330 or email to sales@lappusa.com or your local LAPP representative.



