











Flexible Cables for Drives, Motors & Assemblies

7 ÖLFLEX®








LAPP KABEL STUTTGART ÖLFLEX® SERVO FD 781 P DESINA® ROHS CE

Flexible Cables for Drives, Motors & Assemblies

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Flexible Cables for Drives, Motors & Assemblies

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QUICK SELECT CHART

VFD Selection	AWG Range	Jacket	Voltage	Low Temperature	High Temperature	
ÖLFLEX® VFD Slim	18-2	PVC	600 V TC 1000 V UL WTTC	-25°C	90°C	
ÖLFLEX® VFD	18-2	PVC	1000 V AC / 2000 V AC Peak	-25°C	90°C	
ÖLFLEX® VFD with Signal	16-4	Elastomeric Alloy	600 V TC 1000 V UL WTTC	-25°C	105°C	
ÖLFLEX® VFD SYMMETRICAL	1-500 KCMIL	PVC	600 V TC 1000 V UL WTTC	-20°C	90°C	
ÖLFLEX® FD VFD	14-10	TPE	600 V TC 1000 V UL WTTC	-25°C	105°C	

Servo Selection	Power AWG Range	Signal Pairs	Feedback / Resolver	Jacket Material	Jacket Color	
ÖLFLEX® SDP TC	14-2	No	No	Elastomeric Alloy	Orange	
ÖLFLEX® SERVO 9YSLCY-JB	1-300 KCMIL	No	No	PVC	Black / Transparent	
ÖLFLEX® SERVO 2YSLCY-JB	1-300 KCMIL	No	No	PVC	Black / Transparent	
ÖLFLEX® SERVO 709 CY	16-1	2 pr	No	PVC	Orange	
ÖLFLEX® SERVO FD 755 CP	16-4	1 pr + 2 pr	No	PUR	Gray	
ÖLFLEX® SERVO FD 790 CP	16-2	2 pr	No	PUR	Orange	
ÖLFLEX® SERVO FD 795 P / CP	19-2	1 pr + 2 pr	No	PUR	Orange	
ÖLFLEX® SERVO LK-SMS-FX5	26-500 KCMIL	1 pr	Yes	PVC	Green / Orange	
ÖLFLEX® SERVO LK-SMS-FX8	26-1	1 pr	Yes	PUR	Green / Orange	
ÖLFLEX® SERVO FD LK-INX	24-1	1 pr + 2 pr	Yes	PUR	Orange	
ÖLFLEX® SERVO TC	18-4	2 pr	No	PVC	Black	

	HP Range			"Lapp Surge Guard"	Corona Inception Voltage	Corona Extinction Voltage	Approvals	Page #
	230 V 3Ø	460 V 3Ø	575 V 3Ø					
	¼ - 40	¼ - 75	¼ - 100	Yes	2900	2500	UL, CSA, CE, NOM, MSHA, RoHS, FP 2012	130
	¼ - 40	¼ - 75	¼ - 100	Yes	2900	2500	UL, CSA, CE, RoHS, FP 2012	131
	¼ - 25	¼ - 50	¼ - 60	Yes	2900	2500	UL, CSA, CE, NOM, MSHA, RoHS, FP 2012	132
	50 - 125	75 - 250	100 - 350	No	Not Tested	Not Tested	UL, CSA, CE, MSHA, RoHS, FP 2012	133
	¼ - 10	¼ - 20	¼ - 30	Yes	2900	2500	UL, CSA, CE, MSHA, RoHS, FP 2012	134

	Voltage	Low Temperature	High Temperature	Availability as Assemblies	Approvals	Page #
	600 V TC 1000 V UL WTTC	-40°C	105°C	Special Order	UL, CSA, CE, MSHA, RoHS, FP 2012	135
	1000 V	-40°C	80°C	Special Order	UL, CE, RoHS	136
	1000 V	-40°C	70°C	Special Order	UL, CE, RoHS	137
	600 / 1000 V	-40°C	90°C	Special Order	UL, CE, RoHS	138
	600 / 1000 V	-50°C	80°C	Special Order	CE, RoHS	139
	600 V	-10°C	80°C	Special Order	UL, CE, RoHS	140
	600 V: Power 300 V: Control	-50°C	80°C	Special Order	UL, CSA, CE, RoHS	141
	250 V: Feedback/Signal 1000 V: Motor & Servo	-20°C	80°C	Yes	UL, CSA, CE, VDE, RoHS	143
	250 V: Feedback/Signal 1000 V: Motor	-10°C	80°C	Yes	UL, CSA, CE, VDE, RoHS	145
	600 / 1000 V: Supply 300 V: Feedback/Signal	-10°C	80°C	Yes	UL, CSA, CE, RoHS	147
	600 V TC 1000 V WTTC	-40°C	90°C	Special Order	UL, CSA, CE, RoHS, FP 2012	75

Motor Properties, AWG Size Selection Chart & Voltage Drop Factors, see Page 685

ÖLFLEX® VFD Slim

Reduced-Diameter VFD Cable with "Lapp Surge Guard"

UL & CSA TC Approval



ÖLFLEX® VFD Slim is a reduced-diameter shielded motor cable for VFD Drives. It is designed with "Lapp Surge Guard" semi-conductive material to hold up to nonlinear power distortions associated with VFD drives. This special material smooths out the stranded copper and disperses increases in voltage caused by wave reflection, harmonics, in-rush current, and spikes to prevent conductor and cable failure.

Recommended Applications:

VFD drive and motor connections; web presses; HVAC; conveyors; any on/off applications using a VFD drive and motor

Application Advantage:

- Industrial grade PVC jacket passes Oil Res I & II
- UL TC-ER & c(UL)CIC/TC approved
- Corona inception voltage is 2900 V
- Double shielded for extra protection
- Conforms to NFPA 79 2012

ÖLFLEX® VFD Slim Construction:

Finely stranded tinned copper conductors; specially formulated "Lapp Surge Guard" insulation; barrier tape; 100% shielding with foil tape and tinned copper braid (85% coverage); specially formulated PVC black jacket.

LAPP KABEL STUTTGART ÖLFLEX® VFD SLIM (UL) TYPE TC-ER 90°C 600V c(UL) CIC/TC FT4 CSA AWM CE RoHS



Cable Attributes, See Page 653

Oil Resistance: OR-03	Flame Resistance: FR-03
Motion Type: FL-01	Mechanical Properties: MP-03

Availability:

Standard put-ups are 100ft, 250ft, 500ft, and 1,000ft. Bulk reels can be cut to length.

Complete the installation with:

VFD Selection Guide: Page	EPIC® Connectors: Page 251
SKINTOP® BRUSH: Page 506	SKINTOP® MS-SCL: Page 504

Technical Data:

Minimum Bend Radius: 7.5 x cable diameter

Temperature Range:
 - UL/CSA TC: -40°C to +90°C
 - UL/CSA/AWM: -40°C to +105°C

Nominal Voltage:
 - UL/CSA TC: 600 V
 - TC Wind Turbine (WTTC): 1000 V

Conductor Stranding:
 - 18-6 AWG: Class 5 Fine Wire
 - 4-2 AWG: Class K Fine Wire

Color Code: Black with white numbers plus green/yellow ground

Approvals:

UL: - TC-ER per UL 1277
 - MTW per UL 1063
 - WTTC per UL 2277
 - Submersible Pump (14 AWG & larger)

Attributes: - UL Oil Res I/II
 - 75°C Wet; 90°C Dry
 - -40°C Cold Bend; -25°C Cold Impact
 - Sunlight Resistant
 - Direct Burial

NEC: - Class 1 Division 2 per NEC Article 501

Canada: - c(UL) CIC/TC FT4
 - CSA AWM II A/B FT4

Additional: - MSHA: P-07-KA050013-MSHA
 - ICEA-T-24-380 Corona Test
 - CE & RoHS

* Please note: 16 AWG has a drain wire.

Part Number	Number of Conductors includes ground	Conductor Diameter inches	Conductor Diameter mm	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	Approx. Weight kg/km	SKINTOP® MS-SCL (PG) Page 504	SKINTOP® MS-SC-M Brush (Metric) Page 506
18 AWG (1.00 mm ²)										
761804	4	.104	2.6	.394	10.0	53	112	167	53112330	
16 AWG (1.50 mm ²)										
761604	4	.117	3.0	.470	11.9	73	154	229	53112340	53112676
14 AWG (2.50 mm ²)										
761404	4	.134	3.4	.516	13.1	100	193	288	53112340	53112676
12 AWG (4 mm ²)										
761204	4	.158	4.0	.584	14.8	139	254	378	53112350	53112676
10 AWG (6 mm ²)										
761004	4	.200	5.1	.698	17.7	195	346	515	53112350	53112677
8 AWG (10 mm ²)										
760804	4	.276	7.0	.837	21.3	326	544	810	53112360	53112678
6 AWG (16 mm ²)										
760604	4	.320	8.1	1.001	25.4	494	797	1187	53112370	53112678
4 AWG (21.0 mm ²)										
760404	4	.400	10.2	1.186	30.1	648	965	1437	53112370	53112679
2 AWG (33.7 mm ²)										
760204	4	.472	11.9	1.394	35.4	985	1339	1992	-	53112680

ÖLFLEX® VFD

Oil Resistant Flexible Motor Supply Cable for Variable Frequency Drives 1000 Volts; Bus Drop Cable



ÖLFLEX® VFD is an extremely oil-resistant, UV-resistant, shielded motor cable for VFD drives. It is designed with "Lapp Surge Guard" insulation to smooth out the stranded copper and disperse increases in voltage caused by wave reflection, harmonics, in-rush current, and spikes to prevent conductor and cable failure.

Recommended Applications:

VFD drive and motor connections; web presses; HVAC; conveyors; any on/off applications using a VFD drive and motor





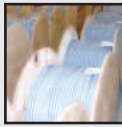




Application Advantage:

- Industrial grade PVC jacket passes Oil Res I & II
- Inner jacket for additional mechanical protection
- Corona inception voltage is 2900 V
- Double shielded for extra protection








ÖLFLEX® VFD Construction:

Finely stranded tinned copper conductors; specially blended "Lapp Surge Guard" insulation; inner PVC jacket; 100% shielding with foil tape and tinned copper braid (85% coverage); specially formulated orange PVC jacket.



Cable Attributes, See Page 653  Oil Resistance: OR-03  Motion Type: FL-01  Flame Resistance: FR-02  Mechanical Properties: MP-02		Availability:  Standard put-ups are 100ft, 250ft, 500ft, and 1,000ft. Bulk reels can be cut to length.	Complete the installation with:  VFD Selection Guide: Page  SKINTOP® BRUSH: Page 506  EPIC® Connectors: Page 251  SKINTOP® MS-SCL: Page 504
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Technical Data:

 Minimum Bend Radius:	12 x cable diameter	 Color Code:	Three black conductors with white numbers, plus green/yellow ground
 Temperature Range:	-25°C to +90°C	 Approvals:	UL: - MTW per UL 1063 - Bus Drop Cable (14 AWG - 2 AWG) - Submersible Pump (14 AWG or larger)
 Nominal Voltage:	1000 V AC / 2000 V AC Peak	Attributes:	- NFPA 79 2012
 Test Voltage:	7500 V	Canada:	- CSA AWM II A/B FT1
 Conductor Stranding:	- 18 - 6 AWG: Class 5 Fine Wire - 4 - 2 AWG: Class K Fine Wire	Additional:	- ICEA: T-24-380 Corona test

Part Number	Number of Conductors includes ground	Conductor Diameter inches	Inner Jacket Diameter inches	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	SKINTOP® MS-SCL (PG) Page 504	SKINTOP® MS-SC-M Brush (Metric) Page 506
18 AWG (1.00 mm ²)										
701804	4	.104	.324	.450	11.4	53	143	213	53112340	53112676
16 AWG (1.32 mm ²)										
701604	4	.117	.355	.513	13.0	69	171	255	53112340	53112676
14 AWG (2.08 mm ²)										
701404	4	.134	.396	.554	14.1	98	244	363	53112350	53112676
12 AWG (3.30 mm ²)										
701204	4	.158	.454	.612	15.5	140	287	427	53112350	53112676
10 AWG (5.32 mm ²)										
701004	4	.200	.556	.734	18.6	208	463	690	53112360	53112677
8 AWG (8.52 mm ²)										
700804	4	.276	.740	.936	23.9	336	618	920	53112360	53112678
6 AWG (13.5 mm ²)										
700604	4	.320	.845	1.051	26.7	500	867	1292	-	53112678
4 AWG (21.0 mm ²)										
700404	4	.400	1.040	1.243	31.6	622	1214	1809	-	53112679
2 AWG (33.7 mm ²)										
700204	4	.472	1.214	1.464	37.2	991	1749	2606	-	53112680

ÖLFLEX® VFD with Signal

Flexible VFD Cable with a Pair for Brake or Temperature Sensor



ÖLFLEX® VFD with Signal is an extremely oil-resistant, UV-resistant, shielded motor cable for VFD drives. It has an additional shielded pair for VFD drives with a brake or temperature sensor. ÖLFLEX® VFD with Signal is designed with "Lapp Surge Guard" insulation to smooth out the stranded copper and disperse increases in voltage and has a PVC jacket for industrial applications.

Application Advantage:

- Passes Oil Res I & II
- Shielded pair for brake or temperature sensor
- Corona inception voltage is 2900 V
- Double shielded for extra protection
- UL TC-ER & c(UL)CIC/TC approved

Recommended Applications:










VFD drive and motor connections with temperature sensors or brake mechanisms; web presses; HVAC; any on/off applications using a VFD drive and motor

ÖLFLEX® VFD with Signal Construction:







Finely stranded tinned copper conductors; specially formulated "Lapp Surge Guard" insulation; pair is specially blended PVC insulation with a foil shield and drain wire; barrier tape; 100% shielding with a foil tape and tinned copper braid (85% coverage) with drain wire, specially formulated oil- and chemical-resistant PVC black jacket

LAPP KABEL STUTTGART ÖLFLEX® VFD W/ SIGNAL (UL) TC-ER 90°C 600V c(UL) CIC/TC FT4 600V CE RoHS



Cable Attributes, See Page 653  Oil Resistance: OR-03  Flame Resistance: FR-03  Motion Type: FL-01  Mechanical Properties: MP-03		Availability:  Standard put-ups are 100ft, 250ft, 500ft, and 1,000ft. Bulk reels can be cut to length.	Complete the installation with:  VFD Selection Guide: Page  SKINTOP® BRUSH: Page 506  EPIC® Connectors: Page 251  SKINTOP® MS-SCL: Page 504
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Technical Data:

 Minimum Bend Radius:	7.5 x cable diameter	 Approvals:	UL: - TC-ER per UL 1277 - MTW per UL 1063 - WTTC per UL 2277
 Temperature Range:	- UL/CSA TC: -40°C to +90°C - UL/CSA/AWM: -40°C to +105°C	Attributes:	- UL Oil Res I/II - 75°C Wet; 90°C Dry - -40°C Cold Bend; -25°C Cold Impact - Sunlight Resistant
 Nominal Voltage:	- UL/CSA TC: 600V - TC Wind Turbine (WTTC): 1000V	NEC:	- Class 1 Division 2 per NEC Article 501
 Conductor Stranding:	- 18-6 AWG: Class 5 Fine wire - 4-2 AWG: Class K Fine wire	Canada:	- c(UL) CIC/TC FT4 - CSA AWM II A/B FT4
 Color Code:	Black with white numbers plus green/yellow ground one black pair with white numbers	Additional:	- MSHA: P-07-KA050011-MSHA - ICEA-T-24-389 Corona Test - CE & RoHS

Part Number	Size / Number of Conductors	1 pair for signal shielded	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	SKINTOP® MS-SCL (PG) Page 504	SKINTOP® MS-SC-M Brush (Metric) Page 506
16 AWG (1.50 mm ²)									
7416048	16 AWG/4c + 18 AWG/1pr	18 AWG (19/30)	.513	13.0	88	184	274	53112340	53112676
14 AWG (2.50 mm ²)									
7414048	14 AWG/4c + 18 AWG/1pr	18 AWG (19/30)	.563	14.3	118	228	340	53112350	53112676
7414044	14 AWG/4c + 14 AWG/1pr	14 AWG (41/30)	.584	14.8	141	260	387	53112350	53112676
12 AWG (4 mm ²)									
7412048	12 AWG/4c + 18 AWG/1pr	18 AWG (19/30)	.650	16.5	162	279	415	53112350	53112676
7412044	12 AWG/4c + 14 AWG/1pr	14 AWG (41/30)	.667	16.9	187	311	463	53112350	53112677
10 AWG (6 mm ²)									
7410044	10 AWG/4c + 14 AWG/1pr	14 AWG (41/30)	.762	19.4	260	433	645	53112360	53112677
8 AWG (10 mm ²)									
7408044	8 AWG/4c + 14 AWG/1pr	14 AWG (41/30)	.938	23.8	375	632	941	53112360	53112678
6 AWG (16 mm ²)									
7406044	6 AWG/4c + 14 AWG/1pr	14 AWG (41/30)	1.082	27.5	472	848	1262	53112370	53112678
4 AWG (21.0 mm ²)									
7404044	4 AWG/4c + 14 AWG/1pr	14 AWG (41/30)	1.322	33.6	642	1251	1862	53112370	53112678

ÖLFLEX® VFD SYMMETRICAL

Oil-Resistant Motor Supply Cable for Large HP VFD Drives

UL & CSA TC Approval



ÖLFLEX® VFD SYMMETRICAL is a large AWG VFD cable designed with 3 symmetrical grounds and a longitudinal copper tape shield. It is UL TC-ER and CSA TC approved. ÖLFLEX® VFD SYMMETRICAL is available from 1 AWG to 500 KCMIL for 75 HP drives and larger.

Recommended Applications:

VFD drive and motor connections for large HP applications; HVAC; large presses; any on/off applications using a VFD drive and motor

Application Advantage:

- 100% copper tape shield for EMI/RFI protection
- UL TC-ER & c(UL) CIC TC approved
- MSHA approved
- 3 ground design for optimal electrical performance
- More flexible than metal-clad and corrugated armored cables

ÖLFLEX® VFD SYMMETRICAL (3 power + 3 symmetrical grounds) Construction:

Bare stranded copper; XLPE insulation; 3 bare stranded ground conductors; longitudinal corrugated copper tape shield; black PVC jacket.



Cable Attributes, See Page 653

	Oil Resistance: OR-02		Flame Resistance: FR-03
	Motion Type: FL-01		Mechanical Properties: MP-03

Availability:

Standard put-ups are 100ft, 250ft, and 500ft. Bulk reels can be cut to length.

Complete the installation with:

	VFD Selection Guide: Page 685		EPIC® Connectors: Page 251
	SKINTOP® Strain Relief: Page 486		SKINTOP® BRUSH: Page 506

See ÖLFLEX® SERVO 2YSLCY-JB & 9YSLCY-JB for improved flexibility.

Technical Data:

- | | | | | | |
|--|-----------------------------|--|--|--------------------|--|
| | Minimum Bend Radius: | 15 x cable diameter | | Color Code: | Three black conductors with white numbers, printed one, two and three plus 3 symmetrical grounds |
| | Temperature Range: | -40°C to +90°C | | Approvals: | UL: <ul style="list-style-type: none"> - TC-ER per UL 1277 - WTTC per UL 2277 - UL Oil Res I/II - Sunlight Resistant - Direct Burial Canada: <ul style="list-style-type: none"> - c(UL) CIC/TC FT4 Additional: <ul style="list-style-type: none"> - MSHA: P-07-KA050010-MSHA - CE & RoHS |
| | Nominal Voltage: | - UL TC: 600 V
- TC Wind Turbine (WTTC): 1000 V | | | |
| | Conductor Stranding: | Class B Stranded Wire | | | |

Part Number	3 Symmetrical Grounds	Diameter Over Shield		Nominal Outer Diameter		Copper Weight lbs/mft	Approx. Weight		SKINTOP® MS-SC-M Brush (Metric) Page 506
		inches	mm	inches	mm		lbs/mft	kg/km	
1 AWG									
760103	8 AWG	1.05	26.7	1.25	32.5	1024	1427	2124	53112679
1/0 AWG									
761103	6 AWG	1.15	29.2	1.35	34.8	1337	1764	2625	53112679
2/0 AWG									
762203	6 AWG	1.21	30.7	1.43	36.3	1606	2077	3091	53112680
3/0 AWG									
763303	4 AWG	1.32	33.5	1.55	39.4	2091	2599	3868	53112680
4/0 AWG									
764403	4 AWG	1.43	36.3	1.66	42.2	2515	3093	4603	53112680
250 KCMIL									
762503	4 AWG	1.57	39.9	1.88	47.8	3022	3791	5641	53112681
350 KCMIL									
763503	2 AWG	1.81	46.0	2.00	50.8	4224	5020	7470	53112681
500 KCMIL									
765003	1/0 AWG	2.08	52.8	2.43	61.6	6058	7012	10435	53112501

ÖLFLEX® FD VFD

Continuous Flex VFD Cable with UL & CSA TC Approval



ÖLFLEX® FD VFD is a continuous flex shielded motor cable for VFD Drives. It is designed with “Lapp Surge Guard” semi-conductive material to hold up to nonlinear power distortions associated with VFD drives and has an elastomeric alloy jacket for industrial applications.

Recommended Applications:

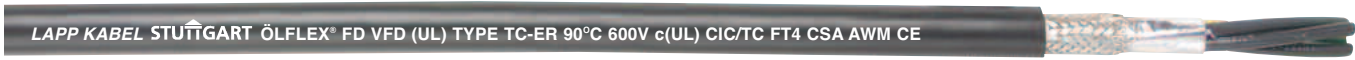
VFD drive and motor connections in continuous flex applications; machine tool; plastic extrusion; any on/off applications using a VFD drive and motor

Application Advantage:

- Continuous flex rated for cable track applications
- Industrial grade and chemical-resistant elastomeric alloy jacket passes Oil Res I & II
- Corona inception voltage is 2900 V
- Double shielded for extra protection
- UL TC-ER & CSA TC approved

ÖLFLEX® FD VFD Construction:

Finely stranded bare copper conductors; specially formulated “Lapp Surge Guard” insulation; dry lubricant, barrier tape; 100% shielding with foil tape and tinned copper braid (70% coverage); specially formulated TPE black jacket.



Cable Attributes, See Page 653 Oil Resistance: OR-03 Motion Type: CF-01 Flame Resistance: FR-03 Mechanical Properties: MP-03		Availability: Standard put-ups are 100ft, 250ft, 500ft, and 1,000ft. Bulk reels can be cut to length.	Complete the installation with: VFD Selection Guide: Page 685 SKINTOP® Strain Relief: Page 486 EPIC® Connectors: Page 251
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Technical Data:

- Minimum Bend Radius:**
- for flexible use: 5 x cable diameter
- for continuous flexing: 7.5 x cable diameter
- Temperature Range:** -25°C to +105°C
- Nominal Voltage:**
- UL & CSA: 600 V
- TC Wind Turbine (WTTC): 1000 V
- Conductor Stranding:** Very Fine Wire, Class 6
- Color Code:** Three black conductors with white numbers, plus green/yellow ground

- Approvals:**
 - UL: - TC-ER per UL 1277
- MTW per UL 1063
- DP-1 per UL 1690
- Sunlight Resistant
- Direct Burial
 - Attributes: - Oil Res I/II
- 75°C Wet; 90°C Dry
- NFPA 79 2012
 - NEC: - Class 1 Division 2 per NEC Article 501
 - Canada: - c(UL) CIC/TC FT4
- AWM I/II A/B FT4
 - Additional: - ICEA: T-24-380 Corona Test

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	SKINTOP® MS-SCL (PG) Page 504	SKINTOP® MS-SC-M Brush (Metric) Page 506
14 AWG (2.11 mm ²)								
771404	4	.500	12.7	78	133	198	53112340	53112676
12 AWG (3.38 mm ²)								
771204	4	.575	14.6	121	180	268	53112350	53112676
10 AWG (5.32 mm ²)								
771004	4	.690	17.5	173	271	403	53112350	53112677

* Additional sizes available upon request. Minimums may apply.

ÖLFLEX® SDP TC

Severe Duty Power Cable Bus Drop Cable



ÖLFLEX® SDP TC is a motor supply cable with Bus Drop approval. It is designed with more flexible stranding and a pressure extruded, specially blended TPE jacket, making it much easier to route. ÖLFLEX® SDP TC is also UL TC-ER and CSA CIC/TC approved for tray applications.

Recommended Applications:

Motor connections in industrial environments; automotive machinery; machine tool; food & beverage industry

Application Advantage:

- UL TC-ER & CSA CIC approved
- 1000 V rated UL AWM and 105°C
- Orange, extremely oil-resistant elastomeric jacket, Oil Res I & II
- Bus Drop approval

ÖLFLEX® SDP TC Construction:

Finely stranded bare copper conductors; PVC/ nylon insulation; barrier tape; specially formulated oil- and chemical-resistant elastomeric alloy orange jacket.

LAPP KABEL STUTTGART ÖLFLEX® SDP TC (UL) TYPE TC-ER OIL RES I/II or Bus Drop Cable c(UL) CIC FT4 CSA



Cable Attributes, See Page 653

	Oil Resistance: OR-03		Flame Resistance: FR-03
	Motion Type: FL-01		Mechanical Properties: MP-03

Availability:

Standard put-ups are 100ft, 250ft, 500ft, and 1,000ft. Bulk reels can be cut to length.

Complete the installation with:

	SKINTOP® Strain Relief: Page 486		EPIC® Connectors: Page 251
			SKINTOP® Strain Relief: Page 486

Jacket is dual printed with AWG/mm² equivalent.

Technical Data:

Minimum Bend Radius:	7.5 x cable diameter	Color Code:	Three black conductors with white numbers plus green/yellow ground
Temperature Range:	-40°C to +90°C -40°C to +105°C	Approvals:	UL: - TC-ER per UL 1277 - WTTC per UL 2277 - Bus Drop Cable - AWM 20886 - UL Oil Res I/II - 75°C Wet; 90°C Dry - Sunlight Resistant - Direct Burial - Class 1 Division 2 per NEC Article 501 - c(UL) CIC/TC FT4 - AWM II A/B FT4 - CE & RoHS
Nominal Voltage:	600 V 1000 V	UL AWM: Attributes:	
Test Voltage:	4000 V	NEC: Canada:	
Conductor Stranding:	Class 5 Fine Wire Class K Fine Wire	Additional:	

Part Number	Conductor Size	Number of Conductors includes ground	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	Approx. Weight kg/km
781404	14 AWG (2.5 mm ²)	4	.39	9.9	65	126	188
781204	12 AWG (4 mm ²)	4	.44	11.2	103	171	254
781004	10 AWG (6 mm ²)	4	.57	14.5	155	257	382
780804	8 AWG (10 mm ²)	4	.76	19.3	258	427	635
780604	6 AWG (16 mm ²)	4	.89	22.6	413	586	872
780404	4 AWG (21 mm ²)	4	1.09	27.7	600	871	1296
780204	2 AWG (33.7 mm ²)	4	1.28	32.5	875	1293	1926

ÖLFLEX® SERVO 9YSLCY-JB



Low Capacitance, Double Shielded, Flexible, Large Gauge
Motor Cable for Servo & VFD Applications

ÖLFLEX® SERVO 9YSLCY-JB is a highly flexible power cable for large horse power motors and VFD drives. It has a double shield with polypropylene-insulated conductors for optimal low-loss power transmission when compared to PVC. ÖLFLEX® SERVO 9YSLCY-JB is UL AWM & CSA AWM rated.

Recommended Applications:

Motor connections for large motors and drives; textile machinery; machine tool; paper industry; conveying technology

Application Advantage:

- Fine stranding for excellent flexibility and easy routing
- UL & CSA AWM approved
- Black jacketed version has 3 symmetrical grounds for improved EMC performance
- Black jacketed version is UV-resistant
- No cable benders required

ÖLFLEX® SERVO 9YSLCY-JB (3 power + ground) Construction:

Finely stranded bare copper conductors; polypropylene insulation; overall foil and tinned copper shield; transparent PVC jacket.



ÖLFLEX® SERVO 9YSLCY-JB (3 power + 3 insulated symmetrical grounds) Construction:

Finely stranded bare copper conductors; polypropylene insulation; overall foil and tinned copper shield; oil-resistant black PVC jacket.



Cable Attributes, See Page 653 Oil Resistance: OR-01 Motion Type: FL-01 Flame Resistance: FR-02 Mechanical Properties: MP-01		Availability: Standard put-ups are 164ft, 328ft, 1640ft, and 3280ft. Bulk reels can be cut to length.	Complete the installation with: SKINTOP® Strain Relief: Page 486 EPIC® Connectors: Page 251 SKINTOP® BRUSH: Page 506
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Technical Data:

- | | |
|--|--|
| Minimum Bend Radius: 4 x cable diameter | Color Code: Black, brown, gray with green/yellow ground or black, brown, gray with 3 green/yellow symmetrical grounds |
| Temperature Range: -40°C to +80°C | Approvals: UL: - AWM 2570 or 20886
Attributes: - VW-1
Canada: - CSA AWM I/II A/B, FT1 |
| Nominal Voltage: 1000 V | |
| Conductor Stranding: Fine Wire | |

Part Number	Jacket Color	AWG/c	Ground Size AWG/c	Nominal Outer Diameter		Copper Weight lbs/mft	Approx. Weight	
				inches	mm		lbs/mft	kg/km
0037008	Transparent	1 AWG/4c	-	1.34	34.1	1482	1982	2950
0037009	Transparent	2/0-4c	-	1.61	40.9	2017	2654	3950
0037010	Transparent	3/0-4c	-	1.79	45.4	2691	3561	5300
0037011	Transparent	4/0-4c	-	1.96	49.8	3432	4435	6600
0037012	Transparent	250 KCMIL/4c	-	2.21	56.1	4183	4733	7043
0037013	Transparent	350 KCMIL/4c	-	2.42	61.4	5086	5634	8384
0037014	Transparent	450 KCMIL/4c	-	2.67	67.9	6679	8165	12150
0037023	Black	1 AWG/3c	8/3c	1.22	31.1	1449	1612	2399
0037024	Black	2/0-3c	8/3c	1.46	37.1	2003	2054	3056
0037025	Black	3/0-3c	6/3c	1.57	40.0	2656	2797	4162
0037026	Black	4/0-3c	6/3c	1.68	42.6	3250	3410	5074
0037027	Black	250 KCMIL/3c	4/3c	1.97	50.0	3637	4118	6128
0037028	Black	350 KCMIL/3c	2/3c	2.19	55.6	4756	5255	7820

ÖLFLEX® SERVO 2YSLCY-JB



Low Capacitance, Double Shielded, Flexible, Large Gauge Motor Cable for Servo & VFD Applications

ÖLFLEX® SERVO 2YSLCY-JB is a highly flexible power cable for large horse power motors and VFD drives. It has a double shield with polypropylene-insulated conductors for optimal low-loss power transmission when compared to PVC.

Recommended Applications:

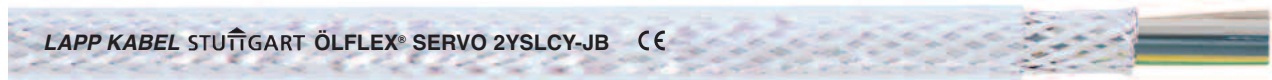
Motor connections for large motors and drives; textile machinery; machine tool; paper industry; conveying technology

Application Advantage:

- Fine stranding for excellent flexibility and easy routing
- Black jacketed version has 3 symmetrical grounds for improved EMC performance
- Black jacketed version is UV-resistant
- No cable benders required

ÖLFLEX® SERVO 2YSLCY-JB (3 power + ground) Construction:

Finely stranded bare copper conductors; polypropylene insulation; overall foil and tinned copper shield; transparent PVC jacket.



ÖLFLEX® SERVO 2YSLCY-JB (3 power + 3 insulated symmetrical grounds) Construction:

Finely stranded bare copper conductors; polypropylene insulation; overall foil and tinned copper shield; oil-resistant black PVC jacket.



Cable Attributes, See Page 653

	Oil Resistance: OR-01		Flame Resistance: FR-02
	Motion Type: FL-01		Mechanical Properties: MP-01

Availability:

Standard put-ups are 164ft, 328ft, 1640ft, and 3280ft. Bulk reels can be cut to length.

Complete the installation with:

	SKINTOP® Strain Relief: Page 486		EPIC® Connectors: Page 251
			SKINTOP® BRUSH: Page 506

Technical Data:

- | | | | |
|-----------------------------|--------------------|--------------------|---|
| Minimum Bend Radius: | 4 x cable diameter | Color Code: | Black, brown, gray with green/yellow ground or black, brown, gray with 3 green/yellow symmetrical grounds |
| Temperature Range: | -40°C to +70°C | Approvals: | Fulfills EMC requirement acc. to EN 55011 (DIN VDE 0875, part 11) |
| Nominal Voltage: | 1000 V | | |
| Conductor Stranding: | Fine Wire | | |

Part Number	Jacket Color	Size / Number of Conductors	Ground	Nominal Outer Diameter		Copper Weight lbs/mft	Approx. Weight	
				inches	mm		lbs/mft	kg/km
0036433	Transparent	1 AWG/4c	-	1.378	35.0	1482	1982	2950
0036434	Transparent	2/0-4c	-	1.551	39.4	2017	2654	3950
0036435	Transparent	3/0-4c	-	1.811	46.0	2691	3562	5300
0036436	Transparent	4/0-4c	-	2.043	51.9	3432	4435	6600
0036437	Transparent	300 KCMIL/4c	-	2.264	57.5	4183	4733	7043
0036438	Transparent	350 KCMIL/4c	-	2.406	61.1	5086	5634	8384
0036447	Black	1 AWG/3c	8 AWG/3c	1.378	35.0	1449	1612	2399
0036448	Black	2/0-3c	6 AWG/3c	1.598	40.6	2003	2054	3056
0036449	Black	3/0-3c	6 AWG/3c	1.732	44.0	2656	2797	4162
0036450	Black	4/0-3c	6 AWG/3c	1.949	49.5	3250	3410	5074
0036451	Black	300 KCMIL-3c	4 AWG/3c	2.173	55.2	4756	4118	6128

ÖLFLEX® SERVO 709 CY



Flexible Power Supply & Signal Cable
for Stationary Applications with UL/CSA

ÖLFLEX® SERVO 709 CY is a highly flexible and oil-resistant servo cable with both power and signal conductors. The pairs are individually shielded with an overall shield. ÖLFLEX® SERVO 709 CY is UL AWM & CSA AWM rated.

Recommended Applications:

Motor connections for servo motors; automation equipment; machine tool; food & beverage and packaging industries

Application Advantage:

- Shielded pairs and overall shield for excellent EMI/RFI protection
- UL & CSA AWM approved
- Orange oil-resistant PVC jacket for industrial applications and motor identification
- Rated for 1000 Volts
- Flame-retardant, meeting FT1
- Conforms to DESINA®

ÖLFLEX® SERVO 709 CY Construction:

Finely stranded bare copper conductors, PVC insulation, pairs shielded with aluminum foil and tinned copper shield, overall tinned copper braid (85% coverage), specially blended orange PVC jacket.



Cable Attributes, See Page 653 Oil Resistance: OR-01 Motion Type: FL-01 Flame Resistance: FR-02 Mechanical Properties: MP-03		Availability: Standard put-ups are 164ft, 328ft, 1640ft, and 3280ft. Bulk reels can be cut to length.	Complete the installation with: SKINTOP® Strain Relief: Page 486 EPIC® Connectors: Page 251 EPIC® MIL Style: Page 406
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Technical Data:

- Minimum Bend Radius:** 6 x cable diameter
- Temperature Range:** -40°C to +90°C
- Nominal Voltage:** 600 / 1000 V
- Test Voltage:**
 - Power cables: 4000 V
 - Signal cables: 3000 V
- Conductor Stranding:** Class 5 Fine Wire
- Color Code:**
 - < 20 AWG Pairs: Black with white numbers plus green/yellow ground
 - 22 AWG Pairs: Black with white numbers White/brown and green/yellow
- Approvals:**
 - UL: - AWM 20886
 - Attributes: - VW-1
 - Canada: - CSA AWM II A/B FT1

Part Number	Power Conductors	Plus	Signal Pairs, Individually Shielded	Nominal Outer Diameter		Copper Weight lbs/mt	Approx. Weight	
				inches	mm		lbs/mt	kg/km
0038010	16 AWG/4c	+	-	.390	9.9	60	116	173
0038011	14 AWG/4c	+	-	.465	11.8	90	168	250
0038012	12 AWG/4c	+	-	.543	13.8	146	247	368
0038013	10 AWG/4c	+	-	.602	15.3	199	321	478
0038014	8 AWG/4c	+	-	.768	19.5	330	525	781
0038015	6 AWG/4c	+	-	.909	23.1	499	805	1198
0038016	4 AWG/4c	+	-	1.083	27.5	749	1162	1730
0038017	2 AWG/4c	+	-	1.217	30.9	1023	1535	2284
0038018	1 AWG/4c	+	-	1.516	38.5	1474	2280	3393
0038019	19 AWG/4c	+	22 AWG/2pr	.488	12.4	65	151	225
0038020	18 AWG/4c	+	19 AWG/2pr	.535	13.6	100	199	296
0038021	16 AWG/4c	+	19 AWG/2pr	.583	14.8	114	230	343
0038022	14 AWG/4c	+	18 AWG/2pr	.642	16.3	160	282	420
0038023	12 AWG/4c	+	18 AWG/1pr & 16 AWG/1pr	.657	16.7	213	361	537
0038024	10 AWG/4c	+	18 AWG/1pr & 16 AWG/1pr	.756	19.2	286	473	704
0038025	8 AWG/4c	+	18 AWG/1pr & 16 AWG/1pr	.874	22.2	403	648	965
0038026	6 AWG/4c	+	18 AWG/1pr & 16 AWG/1pr	1.004	25.5	587	927	1380
0038027	4 AWG/4c	+	16 AWG/2pr	1.185	30.1	850	1313	1954
0038028	2 AWG/4c	+	16 AWG/2pr	1.283	32.6	1115	1723	2564
0038029	1 AWG/4c	+	14 AWG/2pr	1.559	39.6	1578	2543	3785

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ÖLFLEX® SERVO FD 755 CP



Shielded, Halogen-Free, Ultra Flexible Continuous Flex Servo Cable with Power Supply and Feedback for Small Bend Radius Applications

ÖLFLEX® SERVO FD 755 CP is a halogen-free, shielded continuous flex servo cable with power and feedback pair(s) designed for automated servo systems.

Recommended Applications:

Motor connections for servo motors; automation equipment; machine tool; food & beverage, automotive, paper, and packaging industries

Application Advantage:

- Designed for smaller bend radius flexing applications
- Halogen-free cable
- Comes with 1 or 2 shielded pairs and overall shield for excellent EMI/RFI protection
- Flexible at -40°C
- Flexing travel distance up to 328 ft.
- PUR jacket for optimal oil and abrasion resistance

ÖLFLEX® SERVO FD 755 CP Construction:

Finely stranded bare copper conductors; pairs and power conductors are insulated with special elastomeric compounds; pairs shielded with aluminum foil and tinned copper shield; overall non-woven material covering pairs and conductors; overall tinned copper braid (85% coverage); non-woven material wrapping over the braid; specially formulated gray polyurethane outer jacket.



Cable Attributes, See Page 653

	Oil Resistance: OR-05		Flame Resistance: FR-02
	Motion Type: CF-01		Mechanical Properties: MP-05

Availability:

Standard put-ups are 164ft, 328ft, 1640ft, and 3280ft. Bulk reels can be cut to length.

Complete the installation with:

	SKINTOP® Strain Relief: Page 486		EPIC® Connectors: Page 251
			EPIC® CIRCON: Page 406

Technical Data:

- | | | | | | |
|--|-----------------------------|--|--|-----------------------------|--|
| | Minimum Bend Radius: | 7.5 x cable diameter | | Conductor Stranding: | Class 6 Extra Fine Wire, control pairs fine wire from 0.5mm ² |
| | Temperature Range: | - for stationary use: -50°C to +80°C
- for flexible use: -40°C to +80°C | | Color Code: | Black conductors with white numbers, plus green/yellow ground |
| | Nominal Voltage: | 600 / 1000 V | | | |
| | Test Voltage: | - Power cables: 4000 V
- Signal cables: 750 V | | | |

Four Power Conductors and One Signal Pair

Part Number	Power Conductors	Plus	Signal Pairs, Individually Shielded	Nominal Outer Diameter		Copper Weight lbs/mft	Approx. Weight	
				inches	mm		lbs/mft	kg/km
0036370	16 AWG/4c	+	17 AWG/1pr	.516	13.1	88	154	229
0036371	14 AWG/4c	+	17 AWG/1pr	.559	14.2	118	194	289
0036372	12 AWG/4c	+	17 AWG/1pr	.638	16.2	160	256	381
0036373	10 AWG/4c	+	17 AWG/1pr	.685	17.4	214	315	468
0036374	8 AWG/4c	+	17 AWG/1pr	.886	22.5	344	499	743
0036375	6 AWG/4c	+	16 AWG/1pr	.961	24.4	546	744	1107

Four Power Conductors and Two Signal Pairs

Part Number	Power Conductors	Plus	Signal Pairs, Individually Shielded	Nominal Outer Diameter		Copper Weight lbs/mft	Approx. Weight	
				inches	mm		lbs/mft	kg/km
0036360	16 AWG/4c	+	18 AWG/2pr	.622	15.8	101	181	270
0036361	14 AWG/4c	+	18 AWG/2pr	.630	16.0	128	212	316
0036362	12 AWG/4c	+	18 AWG/1pr & 17 AWG/1pr	.685	17.4	179	285	424
0036363	10 AWG/4c	+	18 AWG/1pr & 17 AWG/1pr	.752	19.1	249	363	540
0036364	8 AWG/4c	+	18 AWG/1pr & 17 AWG/1pr	.886	22.5	361	522	776
0036365	6 AWG/4c	+	17 AWG/2pr	.984	25.0	554	754	1122
0036366	4 AWG/4c	+	16 AWG/2pr	1.169	29.7	845	1122	1670

ÖLFLEX® SERVO FD 790 CP



UL/CSA Approved Shielded Continuous Flex Composite Power Supply and Feedback Cable

ÖLFLEX® SERVO FD 790 CP is an industrial grade servo cable available in power only or power and feedback conductors. It has an orange polyurethane jacket and is compatible with most major servo drive manufacturers.

Recommended Applications:

Motor connections for servo motors; automation equipment; machine tool; food & beverage, automotive, pick-n-place, and packaging industries

Application Advantage:





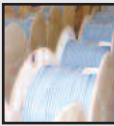



- Orange jacket conforms to DESINA®
- Individually shielded pairs for noise protection
- Flexing travel distance up to 33 ft.
- PUR jacket for optimal oil and abrasion resistance

ÖLFLEX® SERVO FD 790 CP Construction:








Finely stranded bare copper power + pairs are a specially formulated PVC compound, (pairs are individually shielded with foil and tinned copper braid and overall PVC jacket over each pair); non-woven material wrap; overall foil and tinned copper braid; specially formulated orange polyurethane jacket.

LAPP KABEL STUTTGART ÖLFLEX SERVO FD 790 CP AWM DESINA CE



Cable Attributes, See Page 653  Oil Resistance: OR-05  Motion Type: CF-01  Flame Resistance: FR-02  Mechanical Properties: MP-05		Availability:  Standard put-ups are 164ft, 328ft, 1640ft, and 3280ft. Bulk reels can be cut to length.	Complete the installation with:  SKINTOP® Strain Relief: Page 486  EPIC® Connectors: Page 251  EPIC® CIRCON: Page 406
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Technical Data:

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|---|--|
|  Minimum Bend Radius: 12 x cable diameter |  Conductor Stranding: Class 6 Extra Fine Wire |
|  Temperature Range:
-for flexible use: -10°C to +80°C
-for stationary use: -40°C to +80°C |  Color Code: Black conductors with white numbers, plus green/yellow ground. Pairs are black with white numbers 5+6 (1 pr) 7+8 (2 pr) |
|  Nominal Voltage:
- Supply Conductors: 600 V |  Approvals: UL: - AWM 20234 (Power Only)
- AWM 20235 (Power + Pairs)
Canada: - CSA AWM I/II A/B (Power Only) |
|  Test Voltage:
- Power cables: 4000 V
- Signal cables: 750 V | |

Part Number	Size / Number of Conductors	Nominal Outer Diameter		Copper Weight lbs/mft	Approx. Weight	
		inches	mm		lbs/mft	kg/km
0037030	16 AWG/4c	.394	10.0	59	103	153
0037031	14 AWG/4c	.457	11.6	91	147	219
0037032	12 AWG/4c	.516	13.1	133	202	301
0037033	10 AWG/4c	.602	15.3	200	294	437
0037034	8 AWG/4c	.756	19.2	317	454	675
0037035	6 AWG/4c	.965	24.5	505	743	1106
0037036	4 AWG/4c	1.130	28.7	781	1094	1628
0037037	2 AWG/4c	1.339	34.0	1059	1469	2186
0037038	1 AWG/4c	1.579	40.1	1322	2101	3126

Part Number	Power Conductors	Plus	Signal Pairs Individually Shielded	Nominal Outer Diameter		Copper Weight lbs/mft	Approx. Weight	
				inches	mm		lbs/mft	kg/km
0037042	16 AWG/4c	+	19 AWG/2pr	.622	15.8	120	267	397
0037043	14 AWG/4c	+	19 AWG/2pr	.634	16.1	145	306	455
0037044	12 AWG/4c	+	19 AWG/1pr + 18 AWG/1pr	.681	17.3	198	387	576
0037045	10 AWG/4c	+	19 AWG/1pr + 18 AWG/1pr	.744	18.9	272	505	751
0037046	8 AWG/4c	+	19 AWG/1pr + 18 AWG/1pr	.886	22.5	385	652	970
0037047	6 AWG/4c	+	18 AWG/2pr	1.067	27.1	562	905	1347
0037048	4 AWG/4c	+	16 AWG/2pr	1.256	31.9	828	1247	1856
0037049	2 AWG/4c	+	16 AWG/2pr	1.480	37.6	1137	1740	2590

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ÖLFLEX® SERVO FD 795 P / CP



Highly Flexible, UL/CSA Approved, Continuous Flex Servo Cable in Various Configurations

ÖLFLEX® SERVO FD 795 P / CP is an industrial grade servo cable available in power only or power and feedback conductors. It has a polyurethane jacket and is compatible with most major servo drive manufacturers.

Recommended Applications:

Motor connections for servo motors; automation equipment; machine tool; food & beverage, automotive, pick-n-place, packaging industries

Application Advantage:

- Excellent cold temperature performance down to -40°C
- Individually shielded pairs for noise protection
- Flexing travel distance up to 328 ft.
- PUR jacket for optimal oil- and abrasion-resistance

ÖLFLEX® SERVO FD 795 P Construction:

Finely stranded bare copper conductors; pairs and power conductors are insulated with special elastomeric compound; pairs shielded with aluminum foil and tinned copper shield; overall non-woven material; specially formulated black polyurethane jacket.



ÖLFLEX® SERVO FD 795 CP Construction:

Finely stranded bare copper conductors; pairs and power conductors are insulated with special elastomeric compounds; pairs shielded with aluminum foil and tinned copper shield; 2 pair versions: each pair has an overall elastomeric jacket; overall tinned copper braid (85% coverage); non-woven material wrapping over the braid; specially formulated orange polyurethane outer jacket.



Cable Attributes, See Page 653			
	Oil Resistance: OR-05		Flame Resistance: FR-02
	Motion Type: CF-01		Mechanical Properties: MP-05

Availability:	
	Standard put-ups are 164ft, 328ft, 1640ft, and 3280ft. Bulk reels can be cut to length.

Complete the installation with:			
	SKINTOP® Strain Relief: Page 486		EPIC® Connectors: Page 251
			SKINTOP® MS-SC: Page 486

Technical Data:

	Minimum Bend Radius: - SERVO FD 795 P: 5 x cable diameter - SERVO FD 795 CP: 7.5 x cable diameter		Conductor Stranding: Class 6 Extra Fine Wire
	Temperature Range: - for flexible use: -40°C to +80°C - for stationary use: -50°C to +80°C		Color Code: Black conductors with white numbers, plus green/yellow ground. Pairs are black with white numbers 5+6 (1pr) 7+8 (2 pr)
	Nominal Voltage: - Power Conductors: 600 V - Control Conductors: 300 V		Approvals: UL: - AWM 20234 - AWM 20235 Canada: - CSA AWM II A/B FT1 (Power only)
	Test Voltage: - Power cables: 4000 V - Signal cables: 750 V		

ÖLFLEX® SERVO FD 795 P / CP



Highly Flexible, UL/CSA Approved, Continuous Flex Servo Cable in Various Configurations

ÖLFLEX® SERVO FD 795 P: Power Conductors Only

Part Number	Size / Number of Conductors	Nominal Outer Diameter		Copper Weight lbs/mft	Approx. Weight	
		inches	mm		lbs/mft	kg/km
3028479	19 AWG/4c	.398	10.1	19	69	103
3028276	16 AWG/4c	.437	11.1	39	96	143
3028277	14 AWG/4c	.476	12.1	65	128	191
3028278	12 AWG/4c	.555	14.1	103	187	278
3028279	10 AWG/4c	.614	15.6	155	185	376
3028280	8 AWG/4c	.823	20.9	258	441	657
3028281	6 AWG/4c	1.075	27.3	413	711	1058
3028282	4 AWG/4c	1.240	31.5	645	1031	1535
3028283	2 AWG/4c	1.398	35.5	903	1367	2035
0037094	1 AWG/4c	1.705	43.3	1290	1998	2973
0037095	2/0 AWG/4c	1.933	49.1	1806	2623	3903

ÖLFLEX® SERVO FD 795 P: Power and Feedback/Signal Pair

Part Number	Power Conductors	Plus	Signal Pairs Individually Shielded	Nominal Outer Diameter		Copper Weight lbs/mft	Approx. Weight	
				inches	mm		lbs/mft	kg/km
3028268	16 AWG/4c	+	18 AWG/1pr	.508	12.9	55	112	166
3028269	14 AWG/4c	+	18 AWG/1pr	.524	13.3	81	124	185
3028270	12 AWG/4c	+	18 AWG/1pr	.602	15.3	119	163	243
3028271	10 AWG/4c	+	18 AWG/1pr	.665	16.9	171	196	292
3028272	8 AWG/4c	+	18 AWG/1pr	.843	21.4	277	464	690
3028273	6 AWG/4c	+	16 AWG/1pr	1.055	26.8	454	763	1136
3028274	4 AWG/4c	+	16 AWG/1pr	1.181	30.0	686	1041	1549
3028275	2 AWG/4c	+	16 AWG/1pr	1.307	33.2	944	1338	1991

ÖLFLEX® SERVO FD 795 CP: Power Conductors Only, Overall Shield

Part Number	Size / Number of Conductors	Nominal Outer Diameter		Copper Weight lbs/mft	Approx. Weight	
		inches	mm		lbs/mft	kg/km
0037075	16 AWG/4c	.445	11.3	63	124	184
0037076	14 AWG/4c	.484	12.3	90	158	235
0037077	12 AWG/4c	.567	14.4	147	235	349
0037078	10 AWG/4c	.626	15.9	201	304	453
0037079	8 AWG/4c	.846	21.5	337	531	790
0037080	6 AWG/4c	1.091	27.7	513	825	1227
0037081	4 AWG/4c	1.244	31.6	791	1192	1774
0037082	2 AWG/4c	1.398	35.5	1071	1582	2354

ÖLFLEX® SERVO FD 795 CP: Power and Feedback/Signal Pair(s), Overall Shield

Part Number	Power Conductors	Plus	Signal Pairs Individually Shielded	Nominal Outer Diameter		Copper Weight lbs/mft	Approx. Weight	
				inches	mm		lbs/mft	kg/km
0037060	16 AWG/4c	+	18 AWG/1pr	.547	13.9	94	185	276
0037061	14 AWG/4c	+	18 AWG/1pr	.567	14.4	121	217	323
0037062	12 AWG/4c	+	18 AWG/1pr	.642	16.3	177	293	436
0037063	10 AWG/4c	+	18 AWG/1pr	.689	17.5	217	346	515
0037064	8 AWG/4c	+	18 AWG/1pr	.913	23.2	368	588	875
0037065	6 AWG/4c	+	16 AWG/1pr	1.094	27.8	554	880	1309
0037066	4 AWG/4c	+	16 AWG/1pr	1.220	31.0	802	1160	1726
0037067	2 AWG/4c	+	16 AWG/1pr	1.354	34.4	1102	1521	2264
0037068	16 AWG/4c	+	19 AWG/2pr	.626	15.9	104	227	338
0037069	14 AWG/4c	+	19 AWG/2pr	.630	16.0	130	261	388
0037070	12 AWG/4c	+	19 AWG/1pr & 18 AWG/1pr	.697	17.7	189	335	499
0037071	10 AWG/4c	+	19 AWG/1pr & 18 AWG/1pr	.736	18.7	256	415	617
0037072	8 AWG/4c	+	19 AWG/1pr & 18 AWG/1pr	.945	24.0	390	646	962
0037073	6 AWG/4c	+	18 AWG/2pr	1.134	28.8	571	915	1361
0037074	4 AWG/4c	+	18 AWG/2pr	1.299	33.0	854	1275	1897

ÖLFLEX® SERVO LK-SMS-FX5

Flexible Servo Cable for Stationary Applications
according to Siemens® Standard 6FX-5008



ÖLFLEX® SERVO LK-SMS-FX5 is a flexible, oil-resistant, UL, CSA, VDE & CE rated power supply, feedback and signal cable in accordance with Siemens standards. It is designed for stationary use and can be provided as a complete assembly.

Recommended Applications:

Motor connections for servo motors; food & beverage, automotive, and packaging industries

Application Advantage:

- Built in accordance with Siemens standard 6FX-5008
- Signal cables are green and motor cables are orange in conformance with DESINA®
- All cables have an overall shield for EMI/RFI protection
- The cable can be provided as a complete assembly. Please call the factory for price and availability

ÖLFLEX® SERVO LK-SMS-FX5 Construction:

Finely stranded copper conductors; pairs are insulated with special elastomeric material; power conductors insulated with PVC; pairs shielded with aluminum foil and tinned copper shield (not all pairs are shielded for feedback cables); overall tinned copper braid (85% coverage), specially formulated PVC jacket.

Feedback & Signal Cables:



Motor & Servo Cables:



Cable Attributes, See Page 653

	Oil Resistance: OR-03		Flame Resistance: FR-02
	Motion Type: FL-01		Mechanical Properties: MP-01

Availability:

Standard put-ups are 164ft, 328ft, 1640ft, and 3280ft. Bulk reels can be cut to length.

Complete the installation with:

	SKINTOP® Strain Relief: Page 486		EPIC® Connectors: Page 251
			EPIC® CIRCON: Page 406

Technical Data:

- | | |
|--|--|
| Minimum Bend Radius: 5 x cable diameter | Color Code: Black with white numbers plus green/ yellow ground. Signal pair in servo is white & black. Feedback cable: see next page |
| Temperature Range: -20°C to +80°C | |
| Nominal Voltage:
- Feedback/Signal cables: 250 V
- Motor/Servo cables: 1000 V | Approvals:
- Power cables:
UL: - AWM 2570
Canada: - CSA AWM II A/B FT1
- Feedback cables:
UL: - AWM 2502
Canada: - CSA AWM II A/B FT1 |
| Conductor Stranding: Class 6 Extra Fine Wire | |

Lapp Part Numbers refer to genuine Lapp products. The Siemens Part Numbers (6FX5002/ 5008, 6FX 7002/ 7008, 6FX8002/ 8008, registered trademarks of Siemens AG) are for informational purposes only. DESINA® is a registered trademark of the Association of German Machine Tool Manufacturers.

ÖLFLEX® SERVO LK-SMS-FX5

Flexible Servo Cable for Stationary Applications
according to Siemens® Standard 6FX-5008



Part Number	AWG + Number of Conductors	Siemens Part Number	Nominal Outer Diameter		Copper Weight lbs/mft	Approx. Weight		
			inches	mm		lbs/mft	kg/km	
Feedback/Signal Cables: Green								
0025724	22 AWG/ 4pr + 20 AWG/4c	6FX5008-1BD21	.354	9.0	51	81	120	
0025725	26 AWG/ 3pr (ISP) + 26 AWG/4c + 20 AWG/1pr	6FX5008-1BD41	.350	8.9	42	67	100	
0025726	26 AWG/ 3pr (ISP) + 26 AWG/4c + 20 AWG/1pr + 24 AWG/4c	6FX5008-1BD51	.374	9.5	46	93	139	
Motor Cables: Orange								
0025700	16 AWG/4c	6FX5008-1BB11	.382	9.7	59	88	131	
0025701	14 AWG/4c	6FX5008-1BB21	.437	11.1	89	147	219	
0025702	12 AWG/4c	6FX5008-1BB31	.508	12.9	131	210	312	
0025703	10 AWG/4c	6FX5008-1BB41	.598	15.2	188	255	380	
0025704	8 AWG/4c	6FX5008-1BB51	.760	19.3	299	417	620	
0025705	6 AWG/4c	6FX5008-1BB61	.917	23.3	480	712	1060	
0025706	4 AWG/4c	6FX5008-1BB25	1.059	26.9	746	1102	1640	
0025707	2 AWG/4c	6FX5008-1BB35	1.193	30.3	1035	1552	2310	
0025708	1 AWG/4c	6FX5008-1BB50	1.437	36.5	1451	2177	3240	
0025709	2/0 AWG/4c	6FX5008-1BB70	1.614	41.0	1982	2973	4425	
0025710	3/0 AWG/4c	6FX5008-1BB95	1.957	49.7	2742	4112	6120	
0025711	4/0 AWG/4c	6FX5008-1BB12	2.126	54.0	3407	5110	7605	
0025712	300 KCMIL/4c	6FX5008-1BB15	2.402	61.0	4070	6105	9086	
0025713	350 KCMIL/4c	6FX5008-1BB18	2.528	64.2	4907	7360	10955	
0025714	500 KCMIL/4c	6FX5008-1BB24	2.756	70.0	6599	9897	14730	
Servo Cables: Orange								
0025715	16 AWG/4c + 16 AWG/1pr	6FX5008-1BA11	.500	12.7	101	167	248	
0025716	14 AWG/4c + 16 AWG/1pr	6FX5008-1BA21	.543	13.8	130	208	310	
0025717	12 AWG/4c + 16 AWG/1pr	6FX5008-1BA31	.610	15.5	183	299	445	
0025718	10 AWG/4c + 16 AWG/1pr	6FX5008-1BA41	.650	16.5	236	372	554	
0025719	8 AWG/4c + 16 AWG/1pr	6FX5008-1BA51	.827	21.0	360	542	806	
0025720	6 AWG/4c + 16 AWG/1pr	6FX5008-1BA61	.917	23.3	519	729	1085	
0025721	4 AWG/4c + 16 AWG/1pr	6FX5008-1BA25	1.114	28.3	743	1132	1685	
0025722	2 AWG/4c + 16 AWG/1pr	6FX5008-1BA35	1.236	31.4	987	1481	2204	
0025723	1 AWG/4c + 16 AWG/1pr	6FX5008-1BA50	1.437	36.5	1357	2036	3030	

Lapp Part Numbers refer to genuine Lapp products. The Siemens Part Numbers (6FX5002/5008, 6FX 7002/7008, 6FX8002/8008, registered trademarks of Siemens AG) are for informational purposes only. Desina® is a registered trademark of the Association of German Machine Tool Manufacturers.

Color Code for Feedback Cables

Part Number	Color Code
0025724	22 AWG/4pr: Brown/Black, Red/Orange, Yellow/Green, Blue/Violet 20 AWG/4c: Blue & White, Black & White, Red & White, Yellow & White
0025725	26 AWG/3pr: Yellow/Green, Black/Brown, Red/Orange 26 AWG/4c: Gray & Blue, White & Yellow, White & Black 20 AWG/1pr: Brown/Red + Brown/Blue
0025726	26 AWG/3pr: Yellow/Green, Black/Brown, Red/Orange 26 AWG/4c: Gray & Blue, White & Yellow, White & Black 20 AWG/1pr: Brown/Red + Brown/Blue 24 AWG/4c: Brown & Yellow, Brown & Gray, Green & Black, Green & Red

Servo Cables acc. to Siemens® Standard 6FX 8 Plus

Highly Flexible For High Acceleration

Continuous Flexing Dynamic Motion



Recommended Applications:

Designed for power drive systems as well as sensor leads for signal transmission and motor connections. For connections between servo controller and encoder/resolver and motors. Suitable for assembly lines, pick & place machines, production lines and all machines utilizing servo motors.

SIEMENS® Standard 6FX 8 PLUS will replace SIEMENS® Standard 6FX 7008 and 8008

Application Advantages:

- High dynamic performance in cable tracks:
 - Accelerations up to 50m/s²
 - Travel speeds up to 5m/s
 - Travel lengths up to 100 meters
- Flexing at low temperatures (-40° C)
- Oil-resistant, halogen-free, flame-retardant
- UL/CSA 1 KV rated

Construction:





Extra fine bare copper conductors; pairs and power conductors are insulated with polypropylene (PP), pairs are twisted together and shielded with tinned copper braid; overall non-woven wrapping; overall tinned copper braid shield; non-woven wrapping; orange polyurethane jacket for servo motor cables and green for signal cables

Feedback/ Signal Cables:









Motor & Servo Cables:



Cable Attributes			
	Oil Resistance: OR-01		Flame Resistance: FR-03
	Motion Type: FL-01		Mechanical Properties: MP-02

Technical Data:

 Minimum Bend Radius: - for continuous flexing: 16 - 6 AWG: 7.5 x cable diameter 4 - 1 AWG: 10 x cable diameter - for stationary use: 4 x cable diameter	 Color Code: - Power cables: Black with white numbers 16 - 14 AWG: V/L2 U/L1/C/L+ W/L3/D/L- Green/yellow ground 12 - 1 AWG: U/L1/C/L+ V/L2 W/L3/D/L- Green/yellow ground White and black see next page - Signal pair: - Feedback:
 Nominal Voltage: - Signal cables: 30V AC/DC - Power cable conductors: 600/1000V: IEC 1000V: UL/CSA - Control conductors: 24V AC/DC: IEC 1000V: UL/CSA	 Approvals: - Power cables: UL: - AWM 21223 Attributes: - VW-1 Canada: - CSA AWM I/II A/B FT1 - Sensor leads: UL: - AWM 20236 Additional: - VDE - DESINA - CE & RoHS
	 Test Voltage: - Conductors: 4KV - Control & Signal cores: 500V
 Conductor Stranding: Class 6 Extra Fine Wire	

Lapp Part Numbers refer to genuine Lapp products. The Siemens Part Numbers (6FX5002/ 5008, 6FX 7002/ 7008, 6FX8002/ 8008, registered trademarks of Siemens AG) are for informational purposes only. DESINA® is a registered trademark of the Association of German Machine Tool Manufacturers.

Servo Cables acc. to Siemens® Standard 6FX 8 Plus

Highly Flexible For High Acceleration

Continuous Flexing Dynamic Motion



Part Number	Size / Number of Pairs	SIEMENS® Part Number	Nominal Outer Diameter inches mm		Jacket Color	Copper Weight lbs/mft kg/km		Approx. Weight lbs/mft kg/km		SKINTOP® MS-SC (PG) page 504	SKINTOP® MS-M Brush (Metric) page 506
Feedback/Signal Cables											
00277101	26 AWG/8pr	6FX8008-1BD11	.307	7.8	Green	36.2	54	57.0	85	53112210	-
00277111	22 AWG/4pr + 20 AWG/4c	6FX8008-1BD21	.350	8.9	Green	51.7	77	80.5	120	53112220	-
00277121	26 AWG/3pr (ISP) + 20 AWG/2c	6FX8008-1BD31	.354	9.0	Green	46.3	69	75.8	113	53112220	53112676
00277131	26 AWG/3pr (ISP) + 26 AWG/4c + 20 AWG/1pr	6FX8008-1BD41	.350	8.9	Green	44.3	66	67.8	101	53112220	-
00277141	26 AWG/3pr (ISP) + 26 AWG/4c + 20 AWG/1pr + 24 AWG/4c	6FX8008-1BD51	.374	9.5	Green	57.7	86	93.3	139	53112220	53112676
00277151	26 AWG/4pr	6FX8008-1BD61	.252	6.4	Green	23.0	34	35.6	53	53112220	-
00277161	26 AWG/2pr	6FX8008-1BD71	.197	5.0	Green	15.5	23	24.2	36	53112210	-
00277171	22 AWG/12pr	6FX8008-1BD81	.272	6.9	Green	32.2	48	51.0	76	53112210	-
00277991	26 AWG/2pr + 22 AWG/1pr	6FX8008-2DC00	.283	7.2	Green	27.5	41	60.4	90	53112210	-
Motor Cables											
0027784	16 AWG/4c	6FX8008-1BB11	.358	9.1	Orange	60.4	90	100.7	150	53112220	53112676
0027785	14 AWG/4c	6FX8008-1BB21	.417	10.6	Orange	88.6	132	147.7	220	53112230	53112676
0027786	12 AWG/4c	6FX8008-1BB31	.469	11.9	Orange	136.9	204	201.3	300	53112240	53112676
0027787	10 AWG/4c	6FX8008-1BB41	.571	14.5	Orange	211.4	315	302.0	450	53112250	53112676
0027788	8 AWG/4c	6FX8008-1BB51	.689	17.5	Orange	327.5	488	443.0	660	53112260	53112677
0027789	6 AWG/4c	6FX8008-1BB61	.850	21.6	Orange	516.1	769	677.9	1010	53112260	53112678
Servo Cables											
0027790	16 AWG/4c + 16 AWG/1pr	6FX8008-1BA11	.457	11.6	Orange	98.0	146	154.4	230	53112230	53112676
0027791	14 AWG/4c + 16 AWG/1pr	6FX8008-1BA21	.528	13.4	Orange	125.5	187	201.3	300	53112240	53112676
0027792	12 AWG/4c + 16 AWG/1pr	6FX8008-1BA31	.583	14.8	Orange	173.2	258	255.0	380	53112250	53112676
0027793	10 AWG/4c + 16 AWG/1pr	6FX8008-1BA41	.661	16.8	Orange	245.0	365	355.7	530	53112250	53112676
0027794	8 AWG/4c + 16 AWG/1pr	6FX8008-1BA51	.764	19.4	Orange	375.8	560	513.4	765	53112260	53112677
0027795	6 AWG/4c + 16 AWG/1pr	6FX8008-1BA61	.921	23.4	Orange	547.7	816	731.5	1090	53112260	53112678
0027796	4 AWG/4c + 16 AWG/1pr	6FX8008-1BA25	1.047	26.6	Orange	782.6	1166	1026.8	1530	53112270	53112678
0027797	2 AWG/4c + 16 AWG/1pr	6FX8008-1BA35	1.217	30.9	Orange	1043.0	1554	1369.1	2040	53112270	53112679
0027798	1 AWG/4c + 16 AWG/1pr	6FX8008-1BA50	1.339	34.0	Orange	1468.0	2188	1852.3	2760	-	53112679

Lapp Part Number refer to genuine Lapp products. The Siemens Part Number (6FX5002/ 5008, 6FX 7002/ 7008, 6FX8002/ 8008, registered trade marks of Siemens AG) are only mentioned for information purposes. Desina® is a registered trademark of the Association of German Machine Tool Manufacturers.

ISP= Individually Shielded Pairs

Color Code for Feedback Cables

Part Number	Color Code
00277101	26 AWG/ 8pr: White/Yellow & White/Green, White/Red & White/Orange, White/Black & White/Brown, Gray/White, Blue/Violet, Yellow/Green, Red/Orange, Black/Brown
00277111	22 AWG/ 4pr: Brown/Black, Red/Orange, Yellow/Green, Blue/Violet 20 AWG/ 4c: Blue & White, Black & White, Red & White, Yellow & White
00277121	26 AWG/ 3pr: Yellow/Green, Black/Brown, Red/Orange 20 AWG/ 2c: Black & Red
00277131	26 AWG/ 3pr: Yellow/Green, Black/Brown, Red/Orange 26 AWG/ 4c: Gray & Black, White & Yellow, White & Black 20 AWG/ 1pr: Brown/Red paired with Brown/Blue
00277141	26 AWG/ 3pr: Yellow/Green, Black/Brown, Red/Orange 26 AWG/ 4c: Gray & Black, White & Yellow, White & Black 20 AWG/ 1pr: Brown/Red paired with Brown/Blue 24 AWG/ 4c: Brown & Yellow, Brown & Gray, Green & Black, Gray & Red
00277151	26 AWG/ 4pr: Brown/Black, Red/Orange, Yellow/Green, Blue/Violet
00277161	26 AWG/ 2pr: Red/Orange, Red/Orange
00277171	24 AWG/ 12c: Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White, White & Black, White & Brown
00277991	26 AWG/ 2pr: Blue/Pink, Yellow/Green 22 AWG/ 1pr: Red & Black

ÖLFLEX® SERVO FD LK-INX



Continuous Flex Servo Cable
according to Indramat Standard INK

ÖLFLEX® SERVO FD LK-INX is a highly flexible, oil-resistant, UL, CSA & CE rated power w/ pairs and feedback/signal cable in accordance with Indramat standards. It is designed for continuous flex use and can be provided as a complete assembly.

Recommended Applications:

Motor connections for servo motors; machine tool; food & beverage, automotive, pick-n-place, and packaging industries; multi-axis machinery; material handling

Application Advantage:

- Built in accordance with Indramat standard INK
- Travel distance for flexing up to 328 ft. (horizontal)
- All cables have an overall shield for EMI/RFI protection
- Halogen-free and very good cold temperature performance
- The cable can be provided as a complete assembly. Please call the factory for price and availability

ÖLFLEX® SERVO LK-INX Construction:

Finely stranded copper conductors; pairs are insulated with special elastomeric material; power conductors insulated with TPE; pairs in servo cables shielded with aluminum foil and tinned copper shield (not all pairs are shielded for feedback cables); overall tinned copper braid (85% coverage); specially formulated polyurethane jacket.

Feedback/Signal Cables:




























Servo Cables:









Assemblies available, see Page 626



<p>Cable Attributes, See Page 653</p> <table border="0"> <tr> <td></td> <td>Oil Resistance: OR-05</td> <td></td> <td>Flame Resistance: FR-02</td> </tr> <tr> <td></td> <td>Motion Type: CF-02</td> <td></td> <td>Mechanical Properties: MP-05</td> </tr> </table>		Oil Resistance: OR-05		Flame Resistance: FR-02		Motion Type: CF-02		Mechanical Properties: MP-05	<p>Availability:</p>  <p>Standard put-ups are 164ft, 328ft, 1640ft, and 3280ft. Bulk reels can be cut to length.</p>	<p>Complete the installation with:</p> <table border="0"> <tr> <td></td> <td>SKINTOP® Strain Relief: Page 486</td> <td></td> <td>EPIC® Connectors: Page 251</td> </tr> <tr> <td></td> <td>EPIC® CIRCON: Page 407</td> <td></td> <td></td> </tr> </table>		SKINTOP® Strain Relief: Page 486		EPIC® Connectors: Page 251		EPIC® CIRCON: Page 407		
	Oil Resistance: OR-05		Flame Resistance: FR-02															
	Motion Type: CF-02		Mechanical Properties: MP-05															
	SKINTOP® Strain Relief: Page 486		EPIC® Connectors: Page 251															
	EPIC® CIRCON: Page 407																	

Technical Data:

<p> Minimum Bend Radius: - Feedback/Signal cables: 10 x cable diameter - Servo cables: 7.5 x cable diameter</p>	<p> Color Code: - Signal Pairs: Black with white numbers plus green/yellow ground - Feedback Cables: Black with White numbers 5/6, 7/8 See next page</p>
<p> Temperature Range: - Feedback/Signal cables: -30°C to +80°C - Servo cables: -10°C to +80°C</p>	<p> Approvals: UL: - AWM 20234 (Servo cables) - AWM 20236 (Feedback cables) Canada: - CSA AWM II A/B FT1 Additional: - CE & RoHS</p>
<p> Nominal Voltage: - Supply Conductors: 600 / 1000 V - Feedback/Signal cables: 300 V</p>	
<p> Conductor Stranding: Class 6 Extra Fine Wire</p>	

Lapp Part Number refer to genuine Lapp products. The Bosch Rexroth Part Number (INK/ING/INK/INS, registered trademarks of Bosch Rexroth AG) are only mentioned for information purposes.

ÖLFLEX® SERVO FD LK-INX



Continuous Flex Servo Cable
according to Indramat Standard INK

Part Number	AWG + Number of Conductors	Indramat Part Number	Nominal Outer Diameter		Copper Weight lbs/mft	Approx. Weight		
			inches	mm		lbs/mft	kg/km	
Feedback/Signal Cables								
7072400	24 AWG/4pr + 18 AWG/2c	INK-0209	.346	8.8	50	84	120	
7072401	24 AWG/4pr + 20 AWG/2c	INK-0448	.335	8.5	47	81	100	
7072402	20 AWG/9c	INK-0208	.346	8.8	44	85	126	
7072414	18 AWG/4c + 26 AWG/4pr + 26 AWG/4c	INK-0532	.382	9.7	54	94	140	
7072415	24 AWG/2pr + 21 AWG/2c	INK-0234	.343	8.7	31	60	90	
7072416	24 AWG/2pr + 21 AWG/2c	INK-0750	.299	7.6	30	62	92	
Servo Cables								
7072417	19 AWG/4c + 20 AWG/1pr	INK-0670	.394	10.0	73	89	132	
7072403	18 AWG/4c + 19 AWG/2pr	INK-0653	.453	11.5	114	152	226	
7072404	16 AWG/4c + 19 AWG/2pr	INK-0650	.480	12.2	127	180	268	
7072405	14 AWG/4c + 18 AWG/2pr	INK-0602	.594	15.1	142	215	320	
7072406	12 AWG/4c + 18 AWG/1pr + 16 AWG/1pr	INK-0603	.630	16.0	206	316	470	
7072407	10 AWG/4c + 18 AWG/1pr + 16 AWG/1pr	INK-0604	.740	18.8	246	403	600	
7072408	8 AWG/4c + 18 AWG/1pr + 16 AWG/1pr	INK-0605	.866	22.0	380	571	850	
7072409	6 AWG/4c + 16 AWG/2pr	INK-0606	.992	25.2	450	685	1020	
7072410	4 AWG/4c + 16 AWG/2pr	INK-0607	1.102	28.0	655	954	1420	
7072411	2 AWG/4c + 16 AWG/2pr	INK-0667	1.201	30.5	1048	1502	2236	
7072412	1 AWG/4c + 16 AWG/2pr	INK-0668	1.457	37.0	1478	2049	3050	

Lapp Part Numbers refer to genuine Lapp products. The Siemens® Part Numbers (6FX5002/ 5008, 6FX 7002/ 7008, 6FX8002/ 8008, registered trademarks of Siemens AG) are for informational purposes only. DESINA® is a registered trademark of the Association of German Machine Tool Manufacturers.

Color Code for Feedback Cables

Part Number	Color Code
7072400	24 AWG/4pr: Brown/Green, Gray/Pink, Blue/Violet, Red/Black 18 AWG/2c: White, Brown
7072401	24 AWG/4pr: Brown/Green, Gray/Pink, Blue/Violet, Red/Black 20 AWG/2c: White, Brown
7072402	20 AWG/9c: Green, Brown, Gray, Yellow, Black, Blue, Red, White, Pink
7072414	26 AWG/4c: Yellow/Black, Brown/Black, Green/Black, Red/Black 26 AWG/4pr: Red & Black, Brown & Green, Yellow & Violet, White & Green 18 AWG/4c: White, Brown/Green, White/Green, Blue
7072415	24 AWG/2pr: White & Brown, Gray & Pink 20 AWG/2c: Pink, Gray
7072416	24 AWG/pr: Red & Black, Gray & Pink 20 AWG/2c: White, Brown
7072417	20 AWG/3c: 3 Black numbered 1, 2, 3 + Green/Yellow ground 19 AWG/2c: 2 Black numbered 5, 6