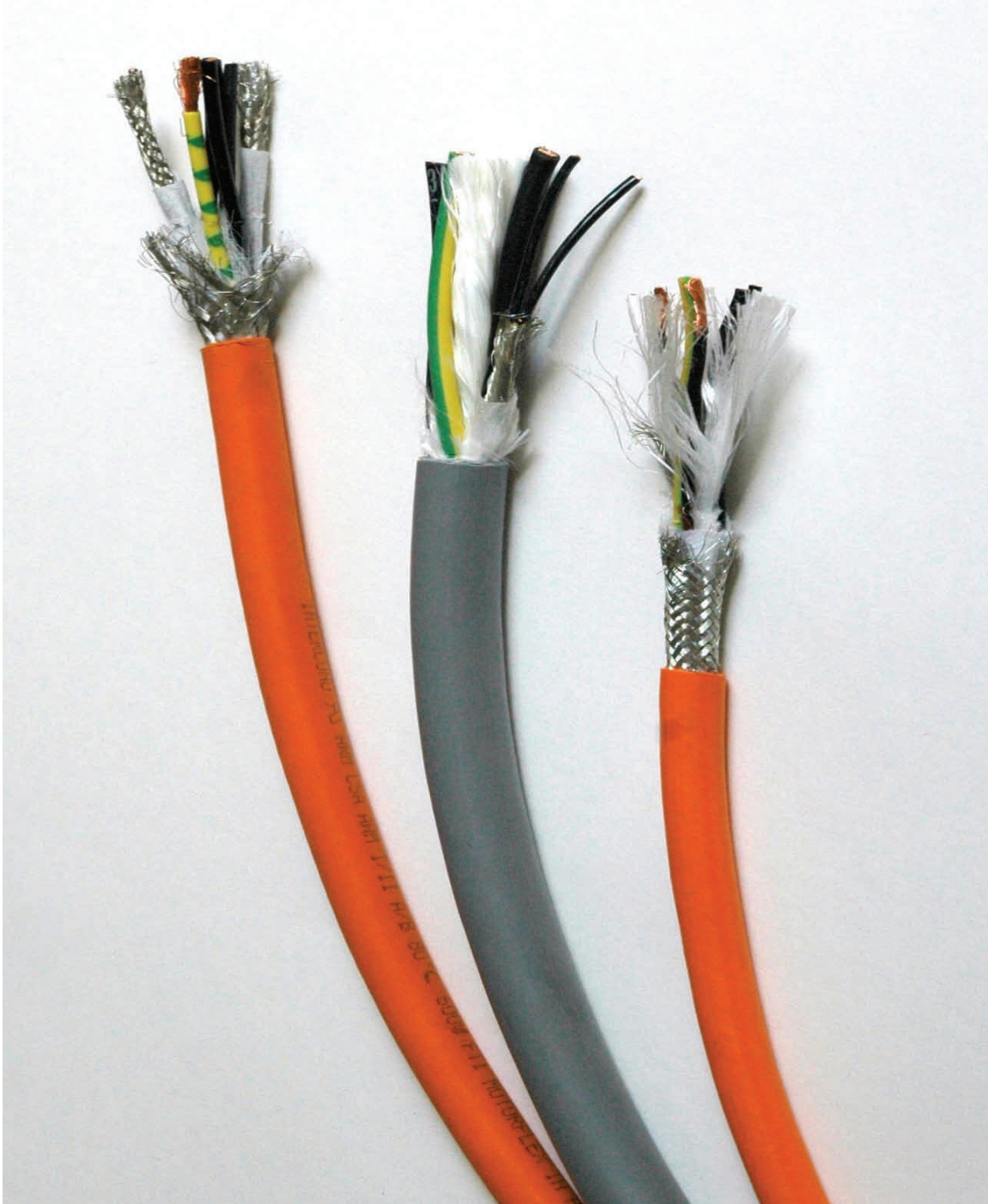


Mueller

Servo Motor & Drive Cables



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What is DESINA®?

DESINA® short for (**DE**centralized and **St**andardized **IN**stallation Technology) was developed by the VDW (Federation of German Machine Tool Manufacturers) for machine tools and manufacturing systems. DESINA is a specification for standardizing electric, hydraulic and pneumatic components and their interconnection on one common platform for CNC controlled machine tools and manufacturing systems.

With DESINA you can now limit the increasing costs while reducing the variety of electric and fluidic installations on machinery and plants. DESINA specifies the overall installation system together with the required components to achieve a unique distributed control system independent from specific fieldbus protocols and capable to operate in severe environments.

DESINA is not another fieldbus specification. With DESINA compliant products ranging from one fieldbus technology to another, it does not mean a re-engineering of any installation. All the main field peripherals are derived from known and already proven technologies and are now available with compliant specification and harmonized interfaces.

**Do you design, build or run automated manufacturing machines or plants?
Do you think your installation costs are too high?
Would you like to reduce your spare part inventory?**

If **“YES”** to any of the above questions, **DESINA** is the way for you!!

DESINA® is a registered trademark of the VDW.



SERVO-SM5 6FX-5008® Series



SERVO-SM5 are economical, flexible, flame retardant, oil-resistant, overall shielded, UL/CSA, VDE & CE approved, orange PVC servo cable designed for stationary applications in accordance with Siemens 6FX-5008® cable standards. These servo cables are well suited for fixed installations or occasional flexing use. Commonly found in machine tools, car body presses and in machine components of transfer lines or production plants. The overall tinned copper braid shield improves protection against electromagnetic & RFI interferences. 100% compatible with Siemens systems. Siemens 6FX-5008-1BD.. green signal & feedback cables are not listed but are available upon request.

SERVO-SM5 UL AWM 21179 / CSA AWM CE



Construction:

- Designed to Siemens 6FX5008
- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special polypropylene core insulation
- Color code VDE-0293 - black & numbered
- Signal cores are black w/ foil & braid shield
- Ground wire in outer layer
- Polyester wrapping over all inners
- 85% tinned copper braid shield
- Special PVC outer jacket - orange (RAL 2003)
- **Extremely oil resistant**

Technical:

- Working voltage: 600/1000 volts
- Test voltage: 4000 volts
- Flexing bending radius: 20 x Ø
- Static bending radius: 6 x Ø
- Flexing temp: -5° C to +80° C
- Static temp: -40° C to +80° C
- Flame retardant: IEC 60332.1, FT-1
- Insulation resistance: 20 MΩ x km

Approvals:

- UL AWM style 21179
- CSA AWM II A/B, FT-1
- VDE-0281, 0245 & 0250
- DESINA
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	DESCRIPTION	SIEMENS#	NOMINAL OD	CU LBS/MFT	LBS/MFT
MOTOR CABLES					
9711604	#16-4/c	6FX5008-1BB11	0.382" / 9.7mm	59	88
9711404	#14-4/c	6FX5008-1BB21	0.437" / 11.1mm	89	147
9711204	#12-4/c	6FX5008-1BB31	0.508" / 12.9mm	131	209
9711004	#10-4/c	6FX5008-1BB41	0.598" / 15.2mm	188	255
9710804	#8-4/c	6FX5008-1BB51	0.760" / 19.3mm	298	416
9710604	#6-4/c	6FX5008-1BB61	0.917" / 23.3mm	480	711
9710404	#4-4/c	6FX5008-1BB25	1.059" / 26.9mm	745	1100
9710204	#2-4/c	6FX5008-1BB35	1.193" / 30.3mm	1033	1549
9710104	#1-4/c	6FX5008-1BB50	1.437" / 36.5mm	1449	2173
9712104	#2/0-4/c	6FX5008-1BB70	1.614" / 41.0mm	1979	2968
9713104	#3/0-4/c	6FX5008-1BB95	1.957" / 49.7mm	2737	4105
9714104	#4/0-4/c	6FX5008-1BB12	2.126" / 54.0mm	3401	5101
9713004	#300MCM-4/c	6FX5008-1BB15	2.402" / 61.0mm	4063	6094
9713504	#350MCM-4/c	6FX5008-1BB18	2.528" / 64.2mm	4898	7348
9715004	#500MCM-4/c	6FX5008-1BB24	2.756" / 70.0mm	6587	9880
SERVO-MOTOR					
9721604	#16-4/c & SHLD #16-2/c	6FX5008-1BA11	0.500" / 12.7mm	101	166
9721404	#14-4/c & SHLD #16-2/c	6FX5008-1BA21	0.543" / 13.8mm	130	208
9721204	#12-4/c & SHLD #16-2/c	6FX5008-1BA31	0.610" / 15.5mm	182	298
9721004	#10-4/c & SHLD #16-2/c	6FX5008-1BA41	0.650" / 16.5mm	235	372
9720804	#8-4/c & SHLD #16-2/c	6FX5008-1BA51	0.827" / 21.0mm	360	541
9720604	#6-4/c & SHLD #16-2/c	6FX5008-1BA61	0.917" / 23.3mm	518	728
9720404	#4-4/c & SHLD #16-2/c	6FX5008-1BA25	1.114" / 28.3mm	742	1130
9720204	#2-4/c & SHLD #16-2/c	6FX5008-1BA35	1.236" / 31.4mm	985	1478
9720104	#1-4/c & SHLD #16-2/c	6FX5008-1BA50	1.437" / 36.5mm	1355	2032

Siemens 6FX5008, 6FX7008 and 6FX8008 part number series are registered trademarks of Siemens AG. (mentioned above for informational purposes only.)

SERVO-SM7 6FX-7008® Series



SERVO-SM7 are highly flexible, flame retardant, oil-resistant, overall shielded, UL/CSA, CE & DESINA approved, orange polyurethane servo motor connection cables for linear power transmission systems in accordance with Siemens 6FX-7008® cable standards. These servo cables are well suited for linear motion applications with high accelerations and especially designed for use in power chains. Commonly found in machine tools, car body presses and in machine components of transfer lines or production plants. The overall tinned copper braid shield improves protection against electromagnetic & RFI interferences. 100% compatible with Siemens systems.



Construction:

- Designed to Siemens 6FX7008
- Extra-fine bare copper strands
- Strands to VDE-0295 Class-6, IEC 60228 Cl-6
- Special thermoplastic core insulation
- Color code VDE-0293 - black & numbered
- Control cores are black with white numbers
- Four control cores twisted w/ foil & braid shield
- Ground wire in outer layer
- Polyester fiber wrapping over all inners
- 85% tinned copper braid shield
- Special PUR outer jacket - orange (RAL 2003)
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 600/1000 volts
- Test voltage: 4000 volts
- Flexing bending radius: 10 x Ø
- Static bending radius: 7 x Ø
- Flexing temp: -40° C to +80° C
- Static temp: -50° C to +90° C
- Flame retardant: IEC 60332.1-2
- Insulation resistance: 20 MΩ x km

Approvals:

- UL AWM Style 20235
- CSA AWM
- DESINA
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	DESCRIPTION	SIEMENS#	NOMINAL OD	CU LBS/MFT	LBS/MFT
SERVO-MOTOR					
9731604	#16-4/c & SHLD #20-4/c	6FX7008-1BC11	0.528" / 13.4mm	101	168
9731404	#14-4/c & SHLD #20-4/c	6FX7008-1BC21	0.571" / 14.5mm	127	201
9731204	#12-4/c & SHLD #20-4/c	6FX7008-1BC31	0.634" / 16.1mm	168	255
9731004	#10-4/c & SHLD #20-4/c	6FX7008-1BC41	0.728" / 18.5mm	235	362
9730804	#8-4/c & SHLD #20-4/c	6FX7008-1BC51	0.886" / 22.5mm	359	516
9730604	#6-4/c & SHLD #20-4/c	6FX7008-1BC61	1.024" / 26.0mm	516	698

Siemens 6FX5008, 6FX7008 and 6FX8008 part number series are registered trademarks of Siemens AG. (mentioned above for informational purposes only.)

SERVO-SM8-F 6FX-8008® Series



SERVO-SM8-F are continuous flex, flame retardant, oil-resistant, overall shielded, UL/CSA, VDE, CE & DESINA approved, green polyurethane signal & feedback cable. Designed for highly flexible servo-motor applications in accordance with Siemens 6FX-8008® cable standards. These signal & feedback cables can be found in applications such as machine tool, pick & place units, multi-axis machinery and in material handling equipment. The overall tinned copper braid shield improves protection against electromagnetic & RFI interferences. 100% compatible with Siemens systems.

SERVO-SM8-F UL AWM 20236 / CSA AWM II A/B CE

Construction:

- Designed to Siemens 6FX8008 Feedback
- Extra-fine bare copper strands
- Strands to VDE-0295 Class-6, IEC 60228 Cl-6
- Special polypropylene core insulation
- Per Siemens 6FX-8008 feedback color codes
- Color codes available upon request
- Ground wire in outer layer
- Polyester fiber wrapping over all inners
- 85% tinned copper braid shield
- Included tinned copper drain wire
- Special PUR outer jacket - green (RAL 6018)
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 350 volts
- Test voltage: 2000 volts
- Flexing bending radius: 12 x Ø
- Static bending radius: 8 x Ø
- Flexing temp: -20° C to +80° C
- Static temp: -40° C to +80° C
- Flame retardant: IEC 60332.1, FT-1
- Insulation resistance: 20 MΩ x km

Approvals:

- UL AWM Style 20236
- CSA AWM II A/B, FT-1
- VDE-0250 part-405
- DESINA
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	DESCRIPTION	SIEMENS#	NOMINAL OD	CU LBS/MFT	LBS/MFT
SIGNAL/FEEDBACK					
9742608	#26-8/pr	6FX8008-1BD11	0.307" / 7.8mm	36	57
9742204	#22-4/pr & #20-4/c	6FX8008-1BD21	0.350" / 8.9mm	52	80
9742603	#26-3/pr EPS & SHLD #20-2/c	6FX8008-1BD31	0.354" / 9.0mm	46	76
9742612	#26-3/pr EPS & #26-4/c & #20-2/c	6FX8008-1BD41	0.350" / 8.9mm	44	68
9742616	#26-3/pr EPS & #26-4/c & #20-2/c & #24-4/c	6FX8008-1BD51	0.374" / 9.5mm	58	93
9742604	#26-4/pr	6FX8008-1BD61	0.252" / 6.4mm	23	36
9742602	#26-2/pr	6FX8008-1BD71	0.197" / 5.0mm	16	24
9742412	#24-12/c	6FX8008-1BD81	0.272" / 6.9mm	32	51

* EPS - each pair has individual foil & tinned copper braid shield.

** All cables listed above are in direct color code accordance with the matching Siemens 6FX8008-1BD.. part numbers.

Siemens 6FX5008, 6FX7008 and 6FX8008 part number series are registered trademarks of Siemens AG. (mentioned above for informational purposes only.)

SERVO-SM8 6FX-8008® Series



SERVO-SM8 are continuous flex, flame retardant, oil-resistant, overall shielded, UL/CSA, VDE, CE & DESINA approved, orange polyurethane servo cable designed for highly flexible servo-motor applications in accordance with Siemens 6FX-8008® cable standards. These servo cables are well suited for servo motor connections, feedback cables or in power and supply chains. Commonly found in machine tools, car body presses and in machine components of transfer lines or production plants. The overall tinned copper braid shield improves protection against electromagnetic & RFI interferences. 100% compatible with Siemens systems.

SERVO-SM8 UL AWM 20234 / CSA AWM II A/B CE



Construction:

- Designed to Siemens 6FX8008
- Extra-fine bare copper strands
- Strands to VDE-0295 Class-6, IEC 60228 Cl-6
- Special thermoplastic core insulation
- Color code VDE-0293 - black & numbered
- Control cores are black w/ foil & braid shield
- Ground wire in outer layer
- Polyester wrapping over all inners
- 85% tinned copper braid shield
- Special PUR outer jacket - orange (RAL 2003)
- **Extremely oil resistant**

Technical:

- Power core voltage: 600/1000 volts
- Control core voltage: 250 volts
- Test power voltage: 4000 volts
- Test control voltage: 1000 volts
- Flexing bending radius: 10 x Ø
- Static bending radius: 7 x Ø
- Flexing temp: -40° C to +80° C
- Static temp: -50° C to +90° C
- Flame retardant: IEC 60332.1, FT-1
- Insulation resistance: 20 MΩ x km

Approvals:

- UL AWM style 20234
- CSA AWM II A/B, FT-1
- VDE-0293, 0295, 0250 & 0281
- DESINA
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	DESCRIPTION	SIEMENS#	NOMINAL OD	CU LBS/MFT	LBS/MFT
MOTOR CABLES					
9751604	#16-4/c	6FX8008-1BB11	0.382" / 9.7mm	56	105
9751404	#14-4/c	6FX8008-1BB21	0.437" / 11.1mm	91	164
9751204	#12-4/c	6FX8008-1BB31	0.508" / 12.9mm	138	218
9751004	#10-4/c	6FX8008-1BB41	0.598" / 15.2mm	182	290
9750804	#8-4/c	6FX8008-1BB51	0.760" / 19.3mm	308	425
9750604	#6-4/c	6FX8008-1BB61	0.917" / 23.3mm	486	641
SERVO-MOTOR					
9761604	#16-4/c & SHLD #16-2/c	6FX8008-1BA11	0.492" / 12.5mm	96	168
9761404	#14-4/c & SHLD #16-2/c	6FX8008-1BA21	0.543" / 13.8mm	125	204
9761204	#12-4/c & SHLD #16-2/c	6FX8008-1BA31	0.587" / 14.9mm	175	272
9761004	#10-4/c & SHLD #16-2/c	6FX8008-1BA41	0.626" / 15.9mm	222	354
9760804	#8-4/c & SHLD #16-2/c	6FX8008-1BA51	0.709" / 18.0mm	349	534
9760604	#6-4/c & SHLD #16-2/c	6FX8008-1BA61	0.858" / 21.8mm	528	704
9760404	#4-4/c & SHLD #16-2/c	6FX8008-1BA25	1.051" / 26.7mm	786	762
9760204	#2-4/c & SHLD #16-2/c	6FX8008-1BA35	1.213" / 30.8mm	1065	1004
9760104	#1-4/c & SHLD #16-2/c	6FX8008-1BA50	1.366" / 34.7mm	1468	1392

Siemens 6FX5008, 6FX7008 and 6FX8008 part number series are registered trademarks of Siemens AG. (mentioned above for informational purposes only.)

SERVO-INK Non-Shielded



SERVO-INK are flexible, oil-resistant, non-shielded, UL/CSA, CE & VDE approved, orange polyurethane power supply and feedback cables all in accordance with Indramat INK® servo-motor cable standards. These highly flexible servo cables are suitable for drag chains and are found mainly in robotics, machine tools, pick & place machines, multi-axis machinery and in material handling equipment. These cables combine the supply cores with the control cores for braking functions. These cables are ideal for use in precision servomotors used in many highly automated manufacturing processes or where high-quality, reliable and long-lasting servo cables are needed.



Construction:

- Designed to Indramat INK standards
- Extra-fine bare copper strands
- Strands to VDE-0295 Class-6, IEC 60228 Cl-6
- Special thermoplastic core insulation
- Color code VDE-0293 - black & numbered
- Control cores are black with white numbers
- Four control cores twisted w/ foil & braid shield
- Ground wire in outer layer
- Polyester fiber wrapping over all inners
- Special PUR outer jacket - orange (RAL 2003)
- **Extremely oil & chemical resistant**

Technical:

- Power core voltage: 600/1000 volts
- Control core voltage: 300/500 volts
- Test power voltage: 4000 volts
- Test control voltage: 1000 volts
- Flexing bending radius: 7.5 x Ø
- Static bending radius: 4 x Ø
- Flexing temp: -40° C to +80° C
- Static temp: -50° C to +90° C
- Flame retardant: IEC 60332.1-2
- Insulation resistance: 20 MΩ x km

Approvals:

- UL AWM Style 20234
- CSA AWM II A/B, FT-1
- DESINA
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	DESCRIPTION	INDRAMAT#	NOMINAL OD	CU LBS/MFT	LBS/MFT
SERVO-MOTOR					
9600253	#18-4/c & #19-2/pr EPS*	INK-0253	0.480" / 12.2mm	63	83
9600202	#14-4/c & #18-2/pr EPS*	INK-0202	0.591" / 15.0mm	137	301
9600203	#12-4/c & SHLD #18-1/pr & SHLD #16-1pr	INK-0203	0.701" / 17.8mm	178	321
9600204	#10-4/c & SHLD #18-1/pr & SHLD #16-1/pr	INK-0204	0.709" / 18.0mm	248	435
9600205	#8-4/c & SHLD #18-1/pr & SHLD #16-1/pr	INK-0205	0.846" / 21.5mm	338	603
9600206	#6-4/c & #16-2/pr EPS*	INK-0206	1.043" / 26.5mm	474	838
9600207	#4-4/c & #16-2/pr EPS*	INK-0207	1.142" / 29.0mm	771	1117

* EPS - each pair has individual foil & tinned copper braid shield.

** **Indramat INK** part numbers are a registered trademark of Bosch Rexroth AG. (mentioned above for informational purposes only.)

SERVO-C-INK Overall Shielded



SERVO-C-INK are flexible, oil-resistant, overall shielded, UL/CSA, CE & VDE approved, orange polyurethane power supply and feedback cables all in accordance with Indramat INK® servo-motor cable standards. These highly flexible servo cables are suitable for drag chains and are found mainly in robotics, machine tools, pick & place machines, multi-axis machinery and in material handling equipment. These cables combine the supply cores with the control cores for braking functions. The overall tinned copper braid shield improves protection against electromagnetic & RFI interferences. These cables are ideal for use in precision servomotors used in many highly automated manufacturing processes or where high-quality, reliable and long-lasting servo cables are needed.



Construction:

- Designed to Indramat INK standards
- Extra-fine bare copper strands
- Strands to VDE-0295 Class-6, IEC 60228 Cl-6
- Special thermoplastic core insulation
- Color code VDE-0293 - black & numbered
- Control cores are black with white numbers
- Four control cores twisted w/ foil & braid shield
- Ground wire in outer layer
- Polyester fiber wrapping over all inners
- 85% tinned copper braid shield
- Special PUR outer jacket - orange (RAL 2003)
- **Extremely oil & chemical resistant**

Technical:

- Power core voltage: 600/1000 volts
- Control core voltage: 300/500 volts
- Test power voltage: 4000 volts
- Test control voltage: 1000 volts
- Flexing bending radius: 10 x Ø
- Static bending radius: 5 x Ø
- Flexing temp: -40° C to +80° C
- Static temp: -50° C to +90° C
- Flame retardant: IEC 60332.1-2
- Insulation resistance: 20 MΩ x km

Approvals:

- UL AWM Style 20234 (feedback)
- UL AWM style 20236 (servo-motor)
- CSA AWM II A/B, FT-1
- DESINA
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	DESCRIPTION	INDRAMAT#	NOMINAL OD	CU LBS/MFT	LBS/MFT
FEEDBACK / SIGNAL					
9610209	#24-4/pr & #18-2/c	INK-0209	0.346" / 8.8mm	50	84
9610448	#24-4/pr & #20-2/c	INK-0448	0.335" / 8.5mm	47	80
9610208	#20-9/c	INK-0208	0.346" / 8.8mm	44	85
9610532	#18-4/c & #26-4/pr & #26-4/c	INK-0532	0.382" / 9.7mm	54	94
9610234	#24-2/pr & #20-2/c	INK-0234	0.343" / 8.7mm	31	60
9610750	#26-2/pr & #20-2/c	INK-0750	0.299" / 7.6mm	30	62
SERVO-MOTOR					
9610670	#19-4/c & #20-2/c	INK-0670	0.394" / 10.0mm	73	49
9610653	#18-4/c & #19-2/pr EPS*	INK-0653	0.453" / 11.5mm	114	152
9610650	#16-4/c & #19-2/pr EPS*	INK-0650	0.480" / 12.2mm	127	180
9610602	#14-4/c & #18-2/pr EPS*	INK-0602	0.594" / 15.1mm	142	215
9610603	#12-4/c & #18-1/pr & #16-1/pr EPS*	INK-0603	0.630" / 16.0mm	206	315
9610604	#10-4/c & #18-1/pr & #16-1/pr EPS*	INK-0604	0.740" / 18.8mm	246	402
9610605	#8-4/c & #18-1/pr & 16-1/pr EPS*	INK-0605	0.866" / 22.0mm	380	570
9610606	#6-4/c & #16-2/pr EPS*	INK-0606	0.992" / 25.2mm	450	684
9610607	#4-4/c & #16-2/pr EPS*	INK-0607	1.102" / 28.0mm	655	952
9610667	#2-4/c & #16-2/pr EPS*	INK-0667	1.201" / 30.5mm	1048	1500
9610668	#1-4/c & #14-2/pr EPS*	INK-0668	1.457" / 37.0mm	1478	2046

* EPS - each pair has individual foil & tinned copper braid shield.

** Indramat INK part numbers are a registered trademark of Bosch Rexroth AG. (mentioned above for informational purposes only.)

SERVO-LP Servo-Motor Cables



SERVO-LP are flexible, oil-resistant, non-shielded or overall shielded, UL/CSA, CE & DESINA approved, gray or orange, PVC or polyurethane jacketed, servo-motor, power supply and feedback cables all in accordance with Lapp Group GmbH servo-motor cable standards. These highly flexible servo cables are suitable for drag chains, power chains and servo motors. Applications found mainly in robotics, machine tools, pick & place machines, multi-axis machinery and in material handling equipment. The optional overall tinned copper braid shield adds improved protection against electromagnetic & RFI interferences.



SERIES NUMBER	DESCRIPTION	LAPP SERIES
NON-SHIELDED		
933 Series	Gray, PVC, Non-Shielded, CE, for DNC Motors	SERVO 700
938 Series	Gray, PVC, Non-Shielded, CE, for DNC Motor & Converters	SERVO 730
920 Series	Gray, PUR, Non-Shielded, CE, for Power Chains	FD-750P
922 Series	Gray, PUR, Non-Shielded, CE, for Long Power Chains	FD-755P
926 Series	Black, PUR, Non-Shielded, CE, DESINA, for Low-Cap Servo Motors	FD-781P
928 Series	Gray, PUR, Non-Shielded, CE, for Servo Motors	FD-785P
931 Series	Black, PUR, Non-Shielded, UL/CSA/CE, DESINA, for Power Chains	FD-795P
OVERALL SHIELDED		
934 Series	Gray PVC, Shielded, CE, for DNC Motors	SERVO 700CY
935 Series	Orange, PVC, Shielded, UL/CSA/CE, DESINA, for Servo Motors	SERVO 709CY
936 Series	Gray, PVC, Shielded, CE, Feedback Cable	SERVO 710CY
937 Series	Gray, PVC, Shielded, CE, Resolver Feedback Cable	SERVO 720CY
939 Series	Orange, PVC, Shielded, CE, for DNC Motors & Converters	SERVO 730CY
923 Series	Gray, PUR, Shielded, CE, for Long Power Chains	FD-755CP
924 Series	Gray, PUR, Shielded, CE, for Feedback Leads	FD-760CP
925 Series	Gray, PUR, Shielded, CE, for Sensor Leads	FD-770CP
921 Series	Orange, PVC, Shielded, CE, DESINA, for Servo Motors	FD-781CY
927 Series	Orange, PUR, Shielded, CE, DESINA, for Low-Cap Servo Motors	FD-781CP
929 Series	Orange, PUR, Shielded, CE, DESINA, for Power Chains	FD-785CP
930 Series	Orange, PUR, Shielded, UL/CSA/CE, DESINA, for Servo Motors	FD-790CP
932 Series	Orange, PUR, Shielded, UL/CSA/CE, DESINA, for Power Chains	FD-795CP

** Lapp/Olflex Servo FD-700 series of servo motor part numbers are a registered trademark of Lapp Kabel GMBH (mentioned above for informational purposes only.)

VFD-THIN Variable Frequency Drive



VFD-THIN is a flexible, UL/CSA/CE approved, PVC/Nylon insulated, PVC jacketed, shielded, tray cable rated motor supply cable designed for automated systems. The 100% coverage foil and braid shield helps with problems due to voltage spikes, harmonics, electrical interference and power distortions commonly associated with variable frequency drives. **VFD-THIN** can be used to connect alternating current variable frequency drives to alternating current variable drive motors and is TC-ER (tray cable) approved for open wiring (exposed-run). This motor supply cable is also suitable for installations in wet or dry environments and is UV resistant. Can also be used indoor or outdoor and is rated for direct burial.



Construction:

- Fine bare copper strands
- Strands to American class-K as listed below
- Special PVC/nylon core insulation
- Color code VDE-0293 - black & numbered
- Ground wire in outer layer
- Fleece wrapping over cores
- 100% foil and 90% tinned copper braid shield
- Special PVC outer jacket - black (RAL 9005)
- UV resistant and direct burial approved
- Submersible pump approved
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 600/1000v (UL/CSA)
- Working voltage: 1000v (WTTCC)
- Test power voltage: 3000 volts
- Flexing bending radius: 7.5 x Ø
- Temperature range: -25° C to +90° C
- Flame retardant: IEC 60332.1-2, FT-4
- Insulation resistance: 20 MΩ x km

Approvals:

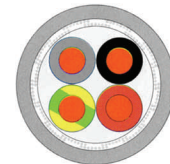
- UL type MTW, NFPA 79 2007
- UL AWM 90 Deg C.
- Class-1, div-2 NEC Art 336,392,501
- UL TC-ER (tray cable exposed run)
- CSA AWM II A/B, FT4 - 90 Deg C.
- c(UL) CIC/TC, FT-4
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	LBS/MFT
18 AWG (19/30) 1,00mm ² 9121804	4	0.419" / 10.6mm	35	115
16 AWG (26/30) 1,50mm ² 9121604	4	0.478" / 12.1mm	49	128
14 AWG (41/30) 2,50mm ² 9121404	4	0.515" / 13.0mm	76	137
12 AWG (65/30) 4,0mm ² 9121204	4	0.569" / 14.4mm	124	186
10 AWG (105/30) 6,0mm ² 9121004	4	0.698" / 17.7mm	176	276
8 AWG (168/30) 10,0mm ² 9120804	4	0.881" / 22.3mm	285	455
6 AWG (266/30) 16,0mm ² 9120604	4	1.019" / 25.9mm	439	624
4 AWG (413/30) 25,0mm ² 9120404	4	1.211" / 30.8mm	610	926
2 AWG (665/30) 35,0mm ² 9120204	4	1.419" / 36.0mm	941	1346

2YSLCY-JB Motor Connection



2YSLCY-JB is a double shielded, large gauge size, PVC motor supply cable. Polyethylene insulation over very fine stranded copper provides a low-loss transfer of power, excellent low capacitance performance and superior flexibility when compared to conventional PVC cables. **2YSLCY-JB** applications include frequency converters, motor runs, connections with high electromagnetic interference. Found in the automotive, paper and food industry, environmental technology, packaging industry, machine tools and handling equipment. The overall foil and braid shield offer excellent protection against electromagnetic and electrical interferences. For medium mechanical stresses found indoors in dry, moist and wet areas.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 class.5, IEC 60228 Cl-5
- Special polyethylene (PE) core insulation
- Color code VDE-0293-308 (HD 308 S2)
- Ground wire in outer layer
- Aluminum foil wrapping over cores
- 85% tinned copper braid shield
- Special transparent PVC outer jacket
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 600/1000 volts
- Test power voltage: 4000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 4 x Ø
- Flexing temp range: -5° C to +70° C
- Static temp range: -40° C to +70° C
- Flame retardant: IEC 60332.1-2
- Insulation resistance: 200 MΩ x km

Approvals:

- adapted to VDE 0250 & 0281
- EMC to EN 55011
- EMC to VDE-0875 part-11
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	LBS/MFT	AMPS
16 AWG (30/30) 1,50mm2 9001604	4	0.417" / 10.6mm	64	154	18
14 AWG (50/30) 2,50mm2 9001404	4	0.484" / 12.3mm	101	204	26
12 AWG (56/28) 4,00mm2 9001204	4	0.571" / 14.5mm	158	325	34
10 AWG (84/28) 6,0mm2 9001004	4	0.646" / 16.4mm	215	425	44
8 AWG (80/26) 10,0mm2 9000804	4	0.791" / 20.1mm	358	579	61
6 AWG (128/26) 16,0mm2 9000604	4	0.921" / 23.4mm	529	866	82
4 AWG (200/26) 25,0mm2 9000404	4	1.063" / 27.0mm	829	1249	108
2 AWG (280/26) 35,0mm2 9000204	4	1.209" / 30.7mm	1115	1751	135
1 AWG (400/26) 50,0mm2 9000104	4	1.421" / 36.1mm	1573	1982	168
2/0 AWG (356/24) 70,0mm2 9002104	4	1.665" / 42.3mm	2144	2651	207
3/0 AWG (485/24) 95,0mm2 9003104	4	1.878" / 47.7mm	2895	3558	250
4/0 AWG (614/24) 120,0mm2 9004104	4	2.043" / 51.9mm	3645	4430	292
300 MCM (765/24) 150,0mm2 9003004	4	2.264" / 57.5mm	4289	4724	335
350 MCM (944/24) 185,0mm2 9003504	4	2.406" / 61.1mm	5124	5623	382
500 MCM (1225/24) 240,0mm2 9005004	4	2.728" / 69.3mm	7418	8182	427

* All sizes available in a black UV-resistant jacket (901) 2YSLCYK-JB

2YSLCYK-JB Motor Connection



2YSLCYK-JB is a double shielded, large gauge size, PVC motor supply cable. Polyethylene insulation over very fine stranded copper provides a low-loss transfer of power, excellent low capacitance performance and superior flexibility when compared to conventional PVC cables. **2YSLCYK-JB** applications include frequency converters, motor runs, connections with high electromagnetic interference. Found in the automotive, paper and food industry, environmental technology, packaging industry, machine tools and handling equipment. The overall foil and braid shield offer excellent protection against electromagnetic and electrical interferences. For medium mechanical stresses found indoors in dry, moist and wet areas. The black UV-resistant jacket also allows for outdoor use and for direct burial applications.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 class.5, IEC 60228 CI-5
- Special polyethylene (PE) core insulation
- Color code VDE-0293-308 (HD 308 S2)
- Ground wire in outer layer
- Aluminum foil wrapping over cores
- 85% tinned copper braid shield
- Special black PVC outer jacket (RAL 9005)
- UV-resistant and direct burial approved
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 600/1000 volts
- Test power voltage: 4000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 4 x Ø
- Flexing temp range: -5° C to +70° C
- Static temp range: -40° C to +70° C
- Flame retardant: IEC 60332.1-2
- Insulation resistance: 200 MΩ x km

Approvals:

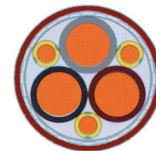
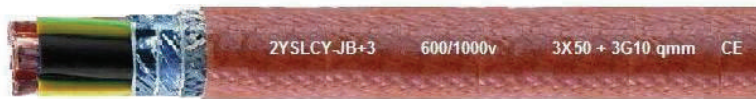
- adapted to VDE 0250 & 0281
- EMC to EN 55011
- EMC to VDE-0875 part-11
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	LBS/MFT	AMPS
16 AWG (30/30) 1,50mm ² 9011604	4	0.417" / 10.6mm	64	154	18
14 AWG (50/30) 2,50mm ² 9011404	4	0.484" / 12.3mm	101	204	26
12 AWG (56/28) 4,00mm ² 9011204	4	0.571" / 14.5mm	158	325	34
10 AWG (84/28) 6,0mm ² 9011004	4	0.646" / 16.4mm	215	425	44
8 AWG (80/26) 10,0mm ² 9010804	4	0.791" / 20.1mm	358	579	61
6 AWG (128/26) 16,0mm ² 9010604	4	0.921" / 23.4mm	529	866	82
4 AWG (200/26) 25,0mm ² 9010404	4	1.063" / 27.0mm	829	1249	108
2 AWG (280/26) 35,0mm ² 9010204	4	1.209" / 30.7mm	1115	1751	135
1 AWG (400/26) 50,0mm ² 9010104	4	1.421" / 36.1mm	1573	1982	168
2/0 AWG (356/24) 70,0mm ² 9012104	4	1.665" / 42.3mm	2144	2651	207
3/0 AWG (485/24) 95,0mm ² 9013104	4	1.878" / 47.7mm	2895	3558	250
4/0 AWG (614/24) 120,0mm ² 9014104	4	2.043" / 51.9mm	3645	4430	292
300 MCM (765/24) 150,0mm ² 9013004	4	2.264" / 57.5mm	4289	4724	335
350 MCM (944/24) 185,0mm ² 9013504	4	2.406" / 61.1mm	5124	5623	382
500 MCM (1225/24) 240,0mm ² 9015004	4	2.728" / 69.3mm	7418	8182	427

2YSLCY-JB+3 Symmetrical Grounds



2YSLCY-JB+3 is a double shielded, large gauge size, PVC motor supply cable. Polyethylene insulation over very fine stranded copper provides a low-loss transfer of power, excellent low capacitance performance and superior flexibility when compared to conventional PVC cables. **2YSLCY-JB+3** applications include frequency converters, motor runs, connections with high electromagnetic interference. Found in the automotive, paper and food industry, environmental technology, packaging industry, machine tools and handling equipment. The overall foil and braid shield offer excellent protection against electromagnetic and electrical interferences. This version substitutes the common single green/yellow ground wire for three (3) symmetrical green/yellow ground wires for improved EMC characteristics. For medium mechanical stresses found indoors in dry, moist and wet areas.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 class.5, IEC 60228 Cl-5
- Special polyethylene (PE) core insulation
- Color code VDE-0293-308 (HD 308 S2)
- Three (3) symmetrical green/yellow grounds
- Aluminum foil wrapping over cores
- 85% tinned copper braid shield
- Special transparent orange PVC outer jacket
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 600/1000 volts
- Test power voltage: 4000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 4 x Ø
- Flexing temp range: -5° C to +70° C
- Static temp range: -40° C to +70° C
- Flame retardant: IEC 60332.1-2
- Insulation resistance: 200 MΩ x km

Approvals:

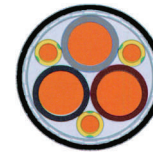
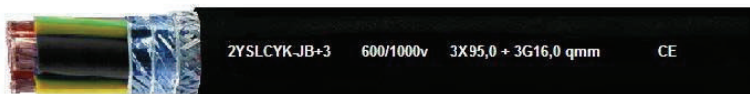
- adapted to VDE 0250 & 0281
- EMC to EN 55011
- EMC to VDE-0875 part-11
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	GRND x 3	NOMINAL OD	CU LBS/MFT	LBS/MFT	AMPS
16 AWG (30/30) 1,50mm2 9021603	3	24 AWG	0.402" / 10.2mm	58	111	18
14 AWG (50/30) 2,50mm2 9021403	3	20 AWG	0.449" / 11.4mm	97	148	26
12 AWG (56/28) 4,00mm2 9021203	3	18 AWG	0.512" / 13.0mm	150	215	34
10 AWG (84/28) 6,0mm2 9021003	3	17 AWG	0.591" / 15.0mm	200	282	44
8 AWG (80/26) 10,0mm2 9020803	3	16 AWG	0.724" / 18.4mm	343	429	61
6 AWG (128/26) 16,0mm2 9020603	3	14 AWG	0.850" / 21.6mm	504	569	82
4 AWG (200/26) 25,0mm2 9020403	3	12 AWG	0.996" / 25.3mm	808	939	108
2 AWG (280/26) 35,0mm2 9020203	3	10 AWG	1.094" / 27.8mm	1030	1152	135
1 AWG (400/26) 50,0mm2 9020103	3	8 AWG	1.283" / 32.6mm	1446	1570	168
2/0 AWG (356/24) 70,0mm2 9022103	3	8 AWG	1.535" / 39.0mm	1999	2128	207
3/0 AWG (485/24) 95,0mm2 9023103	3	6 AWG	1.744" / 44.3mm	2651	2792	250
4/0 AWG (614/24) 120,0mm2 9024103	3	6 AWG	1.843" / 46.8mm	3358	3523	292
300 MCM (765/24) 150,0mm2 9023003	3	4 AWG	2.106" / 53.5mm	4110	4313	335
350 MCM (944/24) 185,0mm2 9023503	3	2 AWG	2.343" / 59.5mm	5030	5594	382
500 MCM (1225/24) 240,0mm2 9025003	3	1 AWG	2.567" / 65.2mm	7388	8216	—

* All sizes available in a black UV-resistant jacket (903) 2YSLCYK-JB+3

2YSLCYK-JB+3 Symmetrical Grounds

2YSLCYK-JB+3 is a double shielded, large gauge size, PVC motor supply cable. Polyethylene insulation over very fine stranded copper provides a low-loss transfer of power, excellent low capacitance performance and superior flexibility when compared to conventional PVC cables. **2YSLCYK-JB+3** applications include frequency converters, motor runs, connections with high electromagnetic interference. Found in the automotive, paper and food industry, environmental technology, packaging industry, machine tools and handling equipment. The overall foil and braid shield offer excellent protection against electromagnetic and electrical interferences. This version substitutes the common single green/yellow ground wire for three (3) symmetrical green/yellow ground wires for improved EMC characteristics. For medium mechanical stresses found indoors in dry, moist and wet areas. The black UV-resistant jacket allows for outdoor use and for direct burial applications.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 class.5, IEC 60228 Cl-5
- Special polyethylene (PE) core insulation
- Color code VDE-0293-308 (HD 308 S2)
- Three (3) symmetrical green/yellow grounds
- Aluminum foil wrapping over cores
- 85% tinned copper braid shield
- Special black PVC outer jacket (RAL 9005)
- UV-resistant and direct burial approved
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 600/1000 volts
- Test power voltage: 4000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 4 x Ø
- Flexing temp range: -5° C to +70° C
- Static temp range: -40° C to +70° C
- Flame retardant: IEC 60332.1-2
- Insulation resistance: 200 MΩ x km

Approvals:

- adapted to VDE 0250 & 0281
- EMC to EN 55011
- EMC to VDE-0875 part-11
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

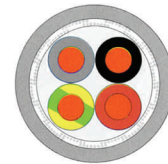
PART NUMBER	CORES	GRND x 3	NOMINAL OD	CU LBS/MFT	LBS/MFT	AMPS
16 AWG (30/30) 1,50mm2 9031603	3	24 AWG	0.402" / 10.2mm	58	111	18
14 AWG (50/30) 2,50mm2 9031403	3	20 AWG	0.449" / 11.4mm	97	148	26
12 AWG (56/28) 4,00mm2 9031203	3	18 AWG	0.512" / 13.0mm	150	215	34
10 AWG (84/28) 6,0mm2 9031003	3	17 AWG	0.591" / 15.0mm	200	282	44
8 AWG (80/26) 10,0mm2 9030803	3	16 AWG	0.724" / 18.4mm	343	429	61
6 AWG (128/26) 16,0mm2 9030603	3	14 AWG	0.850" / 21.6mm	504	569	82
4 AWG (200/26) 25,0mm2 9030403	3	12 AWG	0.996" / 25.3mm	808	939	108
2 AWG (280/26) 35,0mm2 9030203	3	10 AWG	1.094" / 27.8mm	1030	1152	135
1 AWG (400/26) 50,0mm2 9030103	3	8 AWG	1.283" / 32.6mm	1446	1570	168
2/0 AWG (356/24) 70,0mm2 9032103	3	8 AWG	1.535" / 39.0mm	1999	2128	207
3/0 AWG (485/24) 95,0mm2 9033103	3	6 AWG	1.744" / 44.3mm	2651	2792	250
4/0 AWG (614/24) 120,0mm2 9034103	3	6 AWG	1.843" / 46.8mm	3358	3523	292
300 MCM (765/24) 150,0mm2 9033003	3	4 AWG	2.106" / 53.5mm	4110	4313	335
350 MCM (944/24) 185,0mm2 9033503	3	2 AWG	2.343" / 59.5mm	5030	5594	382
500 MCM (1225/24) 240,0mm2 9035003	3	1 AWG	2.567" / 65.2mm	7388	8216	—

9YSLCY-JB

UL/CSA



9YSLCY-JB is a double shielded, large gauge size, UL/CSA/CE approved PVC motor supply cable. Polypropylene insulation over very fine stranded copper provides a low-loss transfer of power, excellent low capacitance performance and superior flexibility when compared to conventional PVC cables. **9YSLCY-JB** applications include frequency converters, motor runs, connections with high electromagnetic interference. Found in the automotive, paper and food industry, environmental technology, packaging industry, machine tools and handling equipment. The overall foil and braid shield offer excellent protection against electromagnetic and electrical interferences. For medium mechanical stresses found indoors in dry, moist and wet areas.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 class.5, IEC 60228 CI-5
- Special polypropylene (PP) core insulation
- Color code VDE-0293-308 (HD 308 S2)
- Ground wire in outer layer
- Aluminum foil wrapping over cores
- 85% tinned copper braid shield
- Special transparent PVC outer jacket
- **Extremely oil & chemical resistant**

Technical:

- Working voltage IEC: 600/1000 volts
- Working voltage UL/CSA: 1000 volts
- Test power voltage: 4000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 4 x Ø
- Flexing temp range: -5° C to +80° C
- Static temp range: -40° C to +80° C
- Flame retardant: IEC 60332.1, VW-1
- Insulation resistance: 200 MΩ x km

Approvals:

- UL AWM 2570 or 20886, VW-1
- CSA AWM I/II A/B, FT-1
- UL/CSA rated 1kV 80 Deg C.
- adapted to VDE 0276, 0250 & 0207
- EMC to EN 55011
- EMC to VDE-0875 part-11
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	LBS/MFT	AMPS
16 AWG (30/30) 1,50mm ² 9041604	4	0.413" / 10.5mm	64	154	18
14 AWG (50/30) 2,50mm ² 9041404	4	0.465" / 11.8mm	101	201	26
12 AWG (56/28) 4,00mm ² 9041204	4	0.524" / 13.3mm	158	325	34
10 AWG (84/28) 6,0mm ² 9041004	4	0.587" / 14.9mm	215	423	44
8 AWG (80/26) 10,0mm ² 9040804	4	0.697" / 17.7mm	358	577	61
6 AWG (128/26) 16,0mm ² 9040604	4	0.846" / 21.5mm	529	865	82
4 AWG (200/26) 25,0mm ² 9040404	4	1.035" / 26.3mm	829	1248	108
2 AWG (280/26) 35,0mm ² 9040204	4	1.169" / 29.7mm	1115	1751	135
1 AWG (400/26) 50,0mm ² 9040104	4	1.343" / 34.1mm	1573	1979	168
2/0 AWG (356/24) 70,0mm ² 9042104	4	1.610" / 40.9mm	2144	2649	207
3/0 AWG (485/24) 95,0mm ² 9043104	4	1.787" / 45.4mm	2895	3555	250
4/0 AWG (614/24) 120,0mm ² 9044104	4	1.961" / 49.8mm	3645	4427	292
300 MCM (765/24) 150,0mm ² 9043004	4	2.209" / 56.1mm	4289	4724	335
350 MCM (944/24) 185,0mm ² 9043504	4	2.417" / 61.4mm	5124	5619	382
500 MCM (1225/24) 240,0mm ² 9045004	4	2.673" / 67.9mm	7418	8149	427

9YSLCYK-JB+3

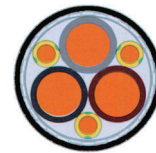
UL/CSA



9YSLCYK-JB+3 is a double shielded, large gauge size, UL/CSA/CE approved PVC motor supply cable. Polypropylene insulation over very fine stranded copper provides a low-loss transfer of power, excellent low capacitance performance and superior flexibility when compared to conventional PVC cables. **9YSLCYK-JB+3** applications include frequency converters, motor runs, connections with high electromagnetic interference. Found in the automotive, paper and food industry, environmental technology, packaging industry, machine tools and handling equipment. The overall foil and braid shield offer excellent protection against electromagnetic and electrical interferences. This version substitutes the common single green/yellow ground wire for three (3) symmetrical green/yellow ground wires for improved EMC characteristics. For medium mechanical stresses found indoors in dry, moist and wet areas. The black UV-resistant jacket allows for outdoor use and for direct burial applications.



9YSLCYK-JB+3 1kV 3X95,0 + 3G16 qmm UL/CSA CE



Construction:

- Fine bare copper strands
- Strands to VDE-0295 class.5, IEC 60228 CI-5
- Special polypropylene (PP) core insulation
- Color code VDE-0293-308 (HD 308 S2)
- Three (3) symmetrical green/yellow grounds
- Aluminum foil wrapping over cores
- 85% tinned copper braid shield
- Special black PVC outer jacket (RAL 9005)
- UV-resistant and direct burial approved
- **Extremely oil & chemical resistant**

Technical:

- Working voltage IEC: 600/1000 volts
- Working voltage UL/CSA: 1000 volts
- Test power voltage: 4000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 4 x Ø
- Flexing temp range: -5° C to +80° C
- Static temp range: -40° C to +80° C
- Flame retardant: IEC 60332.1, VW-1
- Insulation resistance: 200 MΩ x km

Approvals:

- UL AWM 2570 or 20886, VW-1
- CSA AWM I/II A/B, FT-1
- UL/CSA rated 1kV 80 Deg C.
- adapted to VDE 0276, 0250 & 0207
- EMC to EN 55011
- EMC to VDE-0875 part-11
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	GRND x 3	NOMINAL OD	CU LBS/MFT	LBS/MFT	AMPS
16 AWG (30/30) 1,50mm2 9051603	3	24 AWG	0.449" / 11.4mm	59	94	18
14 AWG (50/30) 2,50mm2 9051403	3	20 AWG	0.508" / 12.9mm	87	148	26
12 AWG (56/28) 4,00mm2 9051203	3	18 AWG	0.535" / 13.6mm	150	217	34
10 AWG (84/28) 6,0mm2 9051003	3	17 AWG	0.598" / 15.2mm	185	282	44
8 AWG (80/26) 10,0mm2 9050803	3	16 AWG	0.685" / 17.4mm	343	413	61
6 AWG (128/26) 16,0mm2 9050603	3	14 AWG	0.787" / 20.0mm	504	549	82
4 AWG (200/26) 25,0mm2 9050403	3	12 AWG	0.957" / 24.3mm	808	889	108
2 AWG (280/26) 35,0mm2 9050203	3	10 AWG	1.083" / 27.5mm	1030	1152	135
1 AWG (400/26) 50,0mm2 9050103	3	8 AWG	1.224" / 31.1mm	1446	1609	168
2/0 AWG (356/24) 70,0mm2 9052103	3	8 AWG	1.461" / 37.1mm	1999	2050	207
3/0 AWG (485/24) 95,0mm2 9053103	3	6 AWG	1.575" / 40.0mm	2651	2792	250
4/0 AWG (614/24) 120,0mm2 9054103	3	6 AWG	1.677" / 42.6mm	3244	3403	292
300 MCM (765/24) 150,0mm2 9053003	3	4 AWG	1.969" / 50.0mm	3630	4110	335
350 MCM (944/24) 185,0mm2 9053503	3	2 AWG	2.189" / 55.6mm	4747	5245	382