

OLFLEX® VFD Slim

Reduced Diameter VFD Cable with “Lapp Surge Guard”
First Flexible VFD Cable with UL and CSA TC Approval



OLFLEX® VFD Slim is a reduced diameter shielded motor supply cable for variable frequency drives. OLFLEX® VFD Slim is designed with “Lapp Surge Guard” to hold up to the non-linear power distortions associated with VFD drives. This cable has a specially blended PVC jacket that is TC approved for both UL and CSA standards for 600 volts. OLFLEX® VFD Slim is UL Type TC-ER approved.* It is also approved for 1000 volts by UL AWM and is c(UL) CIC and CSA AWM FT4 approved.

compared to other VFD motor supply cables, due to “Lapp Surge Guard”, a special semi-conductive insulation. This special material smooths out the stranded copper, disperses increases in voltage caused by wave reflections, harmonics and spikes, preventing conductor and cable failure, thus eliminating downtime. OLFLEX® VFD Slim has a Corona inception voltage of 2900 volts. OLFLEX® VFD Slim also conforms to CE and NOM making it a globally accepted solution. Effective immediately, all new production will have MSHA approval. Call the factory for availability.

Lapp USA's unique VFD Slim design is different when

OLFLEX® 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; specially formulated PVC black jacket.

Now with
MSHA
Approval

OLFLEX® VFD SLIM (UL) TYPE TC-ER 90°C 600V c(UL) CIC/TC FT4 CSA AWM CE MSHA RoHS

Cable Attributes



For an explanation of the attributes, see page 655 of the Lapp full line catalog or the technical section of the website (www.lappusa.com).

Technical Data:

Minimum Bending Radius for flexible use: 7.5 x cable diameter

Temperature Range: -25°C to +105°C

Nominal Voltage: 600V - TC (UL & CSA)
1000V - UL-AWM

Conductor Stranding: Class K Stranding

Color Code: Three black conductors with white numbers, plus green/yellow ground

Approvals: UL Type TC-ER (Exposed Run)* 90°C
UL DP-1 90°C, UL-AWM 105°C, Oil Res I
Class 1 Div. 2 per NEC Art. 336, 392, 501
MSHA Approval- P-07-KA050013-MSHA
Sunlight resistant and direct burial
c(UL) CIC/TC FT4
CSA-AWM I/II A/B
NOM-SCFI-1994
Tested to ICEA-T-24-380 Corona Test

Conforms to CE Low Voltage Directive



Part Number	Number of Conductors includes ground	Conductor Diameter		Nominal Outer Diameter		lbs/mft	Approx. Weight kg/km	SKINTOP® MS-SCL Page 549
		inches	mm	inches	mm			
18 AWG (19/30) 1.00 mm ²								
761804	4	.104	2.6	.394	10.0	111	165	53112330
16 AWG (26/30) 1.50 mm ²								
761604	4	.117	3.0	.456	11.6	125	186	53112330
14 AWG (41/30) 2.50 mm ²								
761404	4	.134	3.4	.497	12.6	133	198	53112340
12 AWG (65/30) 4 mm ²								
761204	4	.158	4.0	.555	14.1	180	268	53112340
10 AWG (105/30) 6 mm ²								
761004	4	.200	5.1	.677	17.2	271	403	53112350
8 AWG (168/30) 10 mm ²								
760804	4	.276	7.0	.879	22.3	450	670	53112360
6 AWG (266/30) 16 mm ²								
760604	4	.320	8.1	.994	25.2	617	918	
4 AWG (413/30) 25 mm ²								
760404	4	.400	10.2	1.186	30.1	917	1365	
2 AWG (665/30) 36 mm ²								
760204	4	.472	11.9	1.394	35.4	1339	1992	

800-774-3539 • www.lappusa.com



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OLFLEX® VFD with Signal

Flexible VFD Cable with a pair for brake
First CSA TC Servo Cable in the USA



OLFLEX® VFD with Signal is a shielded motor supply cable for variable frequency drives with an additional shielded pair for signal or brake. OLFLEX® VFD with Signal is designed to hold up to the non-linear power distortions associated with VFD drives. This cable has an elastomeric alloy jacket that is TC approved for both UL and CSA standards for 600 volts. It is also approved for 1000 volts by UL AWM. OLFLEX® VFD with Signal is UL Type TC-ER approved.*

Lapp USA's unique VFD design is different when

OLFLEX® VFD with Signal Construction:

Finely stranded tinned copper conductors; specially formulated "Lapp Surge Guard" insulation; barrier tape; 100% shielding with a foil tape and tinned copper braid, specially formulated oil and chemical resistant elastomeric alloy black jacket.

compared to other VFD motor supply cables due to "Lapp Surge Guard", a special semi-conductive insulation. This special material smooths out the stranded copper, disperses increases in voltage caused by wave reflections, harmonics and spikes, preventing conductor and cable failure thus eliminating downtime. OLFLEX® VFD with Signal has a Corona inception voltage of 2900 volts. OLFLEX® VFD with Signal also conforms to CE and NOM, making it a globally accepted solution. Effective immediately, all new production will have MSHA approval. Call the factory for availability.

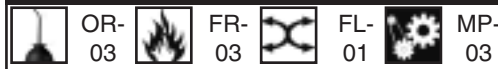
Now with
MSHA
Approval

OLFLEX® VFD W/ SIGNAL (UL) TC-ER 90°C 600V c(UL) CIC/TC FT4 600V CE MSHA RoHS

Additional pair sizes available upon request.

Minimums may apply.

Cable Attributes



For an explanation of the attributes, see page 655 of the Lapp full line catalog or the technical section of the website (www.lappusa.com).

Technical Data:

Minimum Bending Radius for flexible use: 10 x cable diameter

Temperature Range: -25°C to +105°C

Nominal Voltage: 600V - TC
1000V - UL-AWM

Test Voltage: 7500V

Conductor Stranding: Fine Wire

Color Code: Three black conductors with white numbers, plus green/yellow ground, and one black pair with white numbers

Approvals: Type TC-ER (Exposed Run)* 90°C
UL DP-1 90°C, UL-AWM 105°C, Oil Res I/II
Class 1 Div. 2 per NEC Art. 336, 392, 501
MSHA Approval- P-07-KA05011-MSHA
c(UL) Type CIC/TC FT4
CSA-AWM I/II A/B FT4
NOM-SCFI-1994
Tested to ICEA-T-24-380 Corona Test



Conforms to CE Low Voltage Directive

Part Number	Description	Number of Conductors includes ground	+	1 pair for signal shielded	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km	SKINTOP® MS-SCL Page 549
16 AWG (26/30) 1.50 mm ²									
7416048	16/4c + 18/2c	4	+	18 AWG (19/30)	.515	13.1	176	262	53112340
14 AWG (41/30) 2.50 mm ²									
7414048	14/4c + 18/2c	4	+	18 AWG (19/30)	.556	14.1	250	372	53112340
7414044	14/4c + 14/2c	4	+	14 AWG (41/30)	.581	14.8	270	402	53112350
12 AWG (65/30) 4 mm ²									
7412048	12/4c + 18/2c	4	+	18 AWG (19/30)	.610	15.5	294	438	53112350
7412044	12/4c + 14/2c	4	+	14 AWG (41/30)	.632	16.1	314	467	53112350
10 AWG (105/30) 6 mm ²									
7410044	10/4c + 14/2c	4	+	14 AWG (41/30)	.724	18.4	474	705	53112360
8 AWG (168/30) 10 mm ²									
7408044	8/4c + 14/2c	4	+	14 AWG (41/30)	.953	24.2	607	903	53112360
6 AWG (266/30) 16 mm ²									
7406044	6/4c + 14/2c	4	+	14 AWG (41/30)	1.082	27.5	848	1262	
4 AWG (413/30) 25 mm ²									
7404044	4/4c + 14/2c	4	+	14 AWG (41/30)	1.322	33.6	1251	1862	

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