



DRIVEFLEX® XLPE VFD Cable



LUTZE DRIVEFLEX® is ideal for use with any Variable Frequency Drives and servo drive and motor combination for stationary applications. AutomationDirect is proud to offer the full line of DRIVEFLEX® cable from 18AWG up to 8AWG. This cable is available in bulk lengths starting as low as 10ft up to over 1000 feet for most part numbers.

DRIVEFLEX® is rated Tray Cable - Exposed Run (TCER-JP) meaning that it can be used with or without conduit, making the installations more cost-effective by reducing the cost of labor and materials. The XHHW-2 jacket is oil and sunlight resistant and suitable for dry, damp, wet and direct burial locations. Carrying multiple approvals and ratings, LUTZE DRIVEFLEX® cable can be used for most all stationary drive and motor application.

Features

- Flexible fine wire stranded tinned copper conductors for improved electrical characteristics and reduced oxidation
- Black with white numbers and one green/yellow ground
- Thermoset XLPE insulation type XHHW-2, Wet/Dry
- Shielded with tinned copper braid with 85% optical coverage, and drain wire
- Type XHHW-2 insulation offering smaller ODs for general VFD applications
- TC-ER-JP for use with cable trays without conduit, which can reduce installation costs in industrial environments
- Sunlight resistant
- Direct burial
- Talc and silicone free
- Black jacket similar to RAL 9005
- Cut to length in 1 foot increments
- Minimum cut lengths as low as 10 feet*
- Made in USA



Please Note: Our prices on Servo Cable are closely tied to the market price for copper. This allows us to offer the best savings possible if conditions are favorable; however, it also means that our prices may increase if market conditions warrant.



Click on the above thumbnail or go to <https://www.automationdirect.com/VID-WD-0016> for a short introduction on our cut to length cable



DRIVEFLEX® XLPE VFD Cable Specifications







Conductors Gauge & Stranding	18AWG (19 Strands) to 8AWG (168 Strands), tinned Copper	Approvals**	UL Type Flexible Motor Supply Flexible VFD Servo Cable, TC-ER-JP WTTC DP-1 Meets NEC 336, 392 Class I & 11, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 AWM 20886 Submersible Pump (≥AWG14) c(UL)TTC CIC FT4 UL 1277
Shield	Foil tape, tinned copper braid with 80% optical coverage, and drain wire		
Voltage Rating	600V UL TC ER JP 600V UL MTW 1000V WTTC 1000V Flexible Motor Supply 1000V UL AWM 105C		
Outer Jacket Material	Thermoset XLPE		
Outer Jacket Color	Black with white print		
Temperature Ratings	-40°F to +221°F (-40°C to +105°C)	Sample Print Legend	WWW.LUTZE.COM PART# A106XXXX DRIVEFLEX® AWGXX-XX XHHW-2 -- E352875 FLEXIBLE VFD SERVO CABLE 90C WET OR DRY 1000V OR WTTC 1000V 90C DRY OR (UL) TYPE TC-ER-JP 90C 600V SUN RES DIR BUR OIL RES II OR DP-1 OR SUBMERISBLE PUMP CABLE OR AWM 105C 1000V OR c(UL) TYPE CIC CONTROL XLPE FT4 SHIELDED -- CE ROHS CE-46 1421 MADE IN USA xxxxxxFT
Conductor Insulation	Black with white numbers and one green/yellow ground Thermoset XLPE insulation		

* See web store for minimum and maximum cut lengths

** To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com

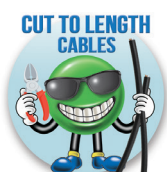


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VFD 4-Conductor Cable Selection															
Part Number	Number of Conductors (includes ground)	AWG	Conductor OD inches	Strand	Power Conductors (AWG)	Ground (AWG)	Minimum Cut Length (ft)	Nom. Insulation Thickness PVC/Nylon (mils)	Nominal Jacket Thickness (mils)	Nominal OD inches	*Ampacity NEC 310.16 Amps		Min. Bend Radius inches	Approximate Weight (lb/ft)	Price per foot
											75°C	90°C			
															
A1061804-1	4	18	0.112	19/30	18	18	20	0.032	45	0.415	7	14	2.5	0.124	\$3.33
															
A1061604-1	4	16	0.123	26/30	16	16	20	0.032	60	0.425	10	18	2.6	0.159	\$3.73
															
A1061404-1	4	14	0.138	41/30	14	14	20	0.032	60	0.456	15	20	2.7	0.214	\$4.40
															
A1061204-1	4	12	0.160	65/30	12	12	20	0.032	60	0.510	25	30	3.1	0.321	\$5.69
															
A1061004-1	4	10	0.194	105/30	10	10	20	0.032	80	0.650	35	40	3.9	0.490	\$9.22
															
A1060804-1	4	8	0.268	168/30	8	8	20	0.032	80	0.810	50	55	4.9	0.490	\$14.03

* Ampacity based on NFPA 79 12.5.1 up to and including 2000 volts, not more than 3 current-carrying conductors, ambient 86°F (30°C)

All dimensions are nominal and subject to normal manufacturing tolerances.



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DRIVEFLEX® XLPE VFD Cable Specifications Continued						
Part Number	Nom. Capacitance Conductor to Shield (pF/ft.)	Nom. Capacitance Conductor to Conductor (pF/ft.)	Nom. Conductor DC Resistance @ 20°C (Ohm/1000 ft.)	Nominal Outer Shield DC Resistance @ 20°C (Ohm/1000 ft.)	Impedance (ohms)	Max. Operating Voltage - UL
<u>A1061804-1</u>	21.9	38.4	6.2	2.6	90.2	1000V
<u>A1061604-1</u>	24.0	43.3	4.16	2.4	81.6	1000V
<u>A1061404-1</u>	26.0	42.7	2.82	1.8	69.1	1000V
<u>A1061204-1</u>	29.0	52.50	1.77	1.0	49.0	1000V
<u>A1061004-1</u>	29.2	48.0	1.110	0.8	40.9	1000V
<u>A1060804-1</u>	26.2	45.0	0.7	0.8	52.4	1000V



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