



• Introduction

Eastful has developed advanced Variable Frequency Drive (VFD) Cable that excel in voltage impact resistance, capable of enduring pulse voltages during frequency conversion. Designed for use in power transmission systems connecting variable frequency drives to AC motors with rated voltages of 0.6/1kV, these symmetrically shielded cables offer outstanding shielding capabilities against electrostatic coupling, electromagnetic induction, electromagnetic waves, poor grounding, and electromagnetic interference.

• Application

Paper Manufacturing: In paper mills, VFD cables are used to control the speed of conveyor belts, pumps, and fans, ensuring efficient operation and energy savings.

Metallurgy: In metal processing plants, VFD cables are employed to regulate the speed of rolling mills, crushers, and other heavy machinery, enhancing productivity and reducing energy consumption.

Metal Processing: For metalworking applications, VFD cables provide precise control over machine tools, welding equipment, and other processes, improving accuracy and reducing waste.

Mining: In mining operations, VFD cables are used to control the speed of conveyor belts, hoists, and pumps, optimizing the extraction process and minimizing downtime.

Food Processing: In food and beverage production facilities, VFD cables are utilized to control the speed of mixers, conveyors, and packaging machines, ensuring consistent product quality and maximizing throughput.

• Performance

Rated voltage $U_0/U(U_m)$: 0.6/1KV.

Maximum continuous operating temperature of conductor: 90°C

Maximum short-circuit temperature (Max. duration 5 Sec.): 250°C

Minimum ambient temperature for installation: 0°C

Minimum bending radius when installation: 15xO.D

• Construction

Conductor: bare copper or tinned copper

Insulation: XLPE/PVC

Screen: copper tape(CTS), or copper wire

Inner covering(optional): lapped binder tape or extruded Polyvinyl Chloride (PVC)

Armour(optional): galvanized steel tape(DSTA), or galvanized round steel wire(SWA)

Outer sheath: PVC

• Specification

-Flame Retardant to IEC60332

-Fire Resistant to IEC60331

-Low Smoke Zero Halogen(LSZH) to IEC61034, IEC60754

-Anti-termite/Anti-rodent

• Eastful Cable Lab



We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.

CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

• Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rheinland and CCS.



• National Green Factory



Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China.

We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

Technical Parameters

Model	Name
This is customized product and can be designed according to customers' request.	Copper Core XLPE Insulated PVC Sheathed Copper Wire Shielded VFD Power Cable
	Aluminum Core XLPE Insulated PVC Sheathed Copper Wire Shielded VFD Power Cable
	Aluminum Alloy Core XLPE Insulated PVC Sheathed Copper Wire Shielded VFD Power Cable
	Copper Core PVC Insulated PVC Sheathed Copper Wire Shielded VFD Power Cable
	Aluminum Core PVC Insulated PVC Sheathed Copper Wire Shielded VFD Power Cable
	Aluminum Alloy Core PVC Insulated PVC Sheathed Copper Wire Shielded VFD Power Cable
	Copper Core XLPE Insulated PVC Sheathed Copper Tape Shielded VFD Power Cable
	Aluminum Core XLPE Insulated PVC Sheathed Copper Tape Shielded VFD Power Cable
	Aluminum Alloy Core XLPE Insulated PVC Sheathed Copper Tape Shielded VFD Power Cable
	Copper Core PVC Insulated PVC Sheathed Copper Tape Shielded VFD Power Cable
	Aluminum Core PVC Insulated PVC Sheathed Copper Tape Shielded VFD Power Cable
	Aluminum Alloy Core PVC Insulated PVC Sheathed Copper Tape Shielded VFD Power Cable

Model	No. of Cores	Nominal Voltage	Nominal Cross Section Area
		kV	mm ²
ALL	1	0.6/1	15~630
	3+1		4~300
	3+3		4~300

Product Data Sheet										
Nominal Cross Section Area		Conductor Dia.		Insulation Thickness		Copper Tape Shield Thickness		Outer Sheath Thickness	Approx. Cable Dia.	Approx. Cable Weight
Phase	Earth	Phase	Earth	Phase	Earth	Individual	Overall			
mm ²		mm		mm		mm		mm	mm	kg/km
2.5	0.5	2.01	0.8	0.7	0.5	--	Min.0.05	1.8	13.4	390.2
4	0.75	2.55	0.99	0.7	0.5	--	Min.0.05	1.8	14.8	484.1
6	1	3.12	1.14	0.7	0.6	--	Min.0.05	1.8	16.1	590.3
10	1.5	4.05	1.4	0.7	0.7	--	Min.0.05	1.8	18.4	793.3
16	2.5	5.13	1.8	0.7	0.7	Min.0.05	Min.0.05	1.8	21.4	1129.5
25	4	6	2.28	0.9	0.7	Min.0.05	Min.0.05	1.8	24.5	1545.9
35	6	7	2.79	0.9	0.7	Min.0.05	Min.0.05	1.8	26.9	1968.5
50	10	8.2	4.2	1	0.7	Min.0.05	Min.0.05	1.8	30.3	2636.6
70	10	9.9	4.2	1.1	0.7	Min.0.05	Min.0.05	1.8	34.9	3382.4
95	16	11.6	5.3	1.1	0.7	Min.0.05	Min.0.05	1.8	39	4407.8
120	25	13	6.7	1.2	0.9	Min.0.05	Min.0.05	1.8	42.9	5538
150	35	14.4	7.9	1.4	0.9	Min.0.05	Min.0.05	2.5	48.7	7015.3
185	35	16.2	7.9	1.6	0.9	Min.0.05	Min.0.05	2.7	54.5	8332.7
240	50	18.6	9.5	1.7	1.1	Min.0.05	Min.0.05	2.9	61.2	10685