

**ASH VFD POWER
 MULTI CORE CU/ XLPE/ SCREENED/ PVC 600/1000 V
 LOW VOLTAGE CABLES**

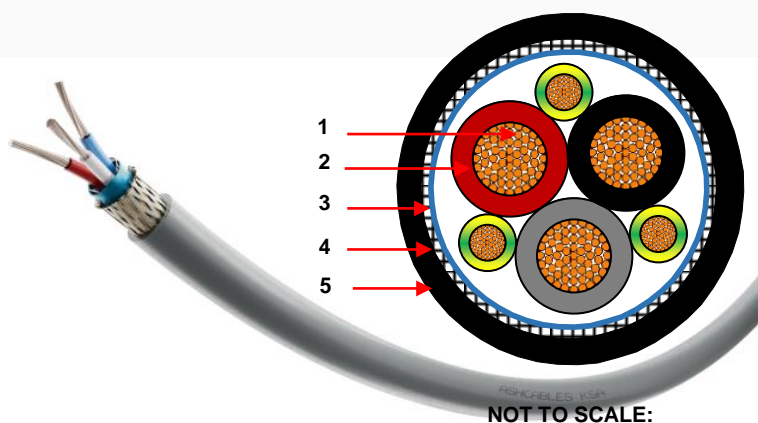
APPLICATION:

VFD (Variable frequency Drive) cables are connecting cable between frequency converter and motors. This power supply cable is used for the frequency converters and assures electromagnetic compatibility in plants and buildings Handling equipment, they are particularly suitable for use with industrial pumps, Ventilators, conveyor belts and air-conditioning installations and similar applications.

CONSTRUCTION DETAILS

Reference Standard	IEC 60502-1, IEC 60228, IEC 60332-1-2, IEC 60332-3-24						
Rated voltage	600 / 1000V						
Conductor Material	Plain annealed Copper conductor, Flexible Class (5) of IEC 60228.						
Conductor Insulation	Extruded Cross-linked polyethylene compound.						
Insulation color	<table border="1"> <thead> <tr> <th>No. of cores</th> <th>Core Identification</th> </tr> </thead> <tbody> <tr> <td>3 conductors + 3 earth conductors</td> <td>brown, black, grey and Green/Yellow(s) interstices or Red, Yellow, Blue and Green/Yellow(s) interstices</td> </tr> <tr> <td>4 Cores</td> <td>brown, black, grey, Green/Yellow(s) or Red, Yellow, Blue and Green/Yellow(s)</td> </tr> </tbody> </table>	No. of cores	Core Identification	3 conductors + 3 earth conductors	brown, black, grey and Green/Yellow(s) interstices or Red, Yellow, Blue and Green/Yellow(s) interstices	4 Cores	brown, black, grey, Green/Yellow(s) or Red, Yellow, Blue and Green/Yellow(s)
	No. of cores	Core Identification					
3 conductors + 3 earth conductors	brown, black, grey and Green/Yellow(s) interstices or Red, Yellow, Blue and Green/Yellow(s) interstices						
4 Cores	brown, black, grey, Green/Yellow(s) or Red, Yellow, Blue and Green/Yellow(s)						
Assembly	Insulated conductors are laid up to form a core and non-hygroscopic filler (if required) Polyester wrapping tape (if required)						
Overall Shield	Aluminum-Polyester (AL-PET foil) laminated tape (100% coverage).						
Overall Screen and other options.	Annealed Tinned copper wire braiding. (coverage upon request)						
	Other screening options (upon request) 1. Copper tape screen 2. Copper wire screening						
Outer Sheathing	Extruded Poly vinyl Chloride (PVC) Flame Retardant and U.V resistant. (Black color), Low Smoke Zero Halogen (upon request)						
Marking (Printing)	ASH VFD (no. of core x size mm ²) + (size) MM ² CU/XLPE/PVC SCREENED 600/1000V ASHCABLES KSA (YEAR OF MANUFACTURE) (METER MARKING)						
Cable Cross sectional drawing	Figure 1						

Figure 1



- | | |
|----|---|
| 1. | PLAIN COPPER FLEXIBLE (CLASS 5) CONDUCTOR |
| 2. | XLPE INSULATION |
| 3. | SHIELDING (AL-PET) |
| 4. | TINNED COPPER WIRE BRAID SCREENING |
| 5. | PVC FR JACKET |

Note: Special requirements are available upon request.

-Fire Resistant cables with MICA- IEC 60331.

-Armoring options: Steel wire armor or Double Steel tape Armor.

-Special jacket materials (LSZH, PVC LSF/FRLS)

ASH VFD POWER MULTI CORE CU/ XLPE/ SCREENED/ PVC 600/1000 V LOW VOLTAGE CABLES

DIMENSIONAL DATA SHEET

S/N	ASH ITEM CODE	No. of cores X size (MM2)	APPRX. CABLE DIA. (mm)	Approx. Cable Weight (kg/km)	DC Resistance at 20°C	Std. Length (mts)
1	PV5X-03G00615-CBK6B	3 x 6 + 3 G 1.5	15.20	485	3.30	500/1000
2	PV5X-03C01015-CBK6B	3 x 10 + 3 G 1.5	16.00	610	1.91	500/1000
3	PV5X-03C01660-CBK6B	3 x 16 + 3 G 6	22.50	1015	1.21	500/1000
4	PV5X-03G02540-CBK6B	3 x 25 + 3 G 4	23.40	1235	0.780	500/1000
5	PV5X-03G03560-CBK6B	3 x 35 + 3 G 6	25.30	1600	0.554	500/1000
6	PV5X-03G05010-CBK6B	3 x 50 + 3 G 10	28.20	2135	0.386	500
7	PV5X-03G07010-CBK6B	3 x 70 + 3 G 10	31.60	2665	0.272	500
8	PV5X-03G09516-CBK6B	3 x 95 + 3 G 16	35.50	3550	0.206	500
9	PV5X-03G12016-CBK6B	3 x 120 + 3 G 16	39.80	4450	0.161	300
10	PV5X-03G15025-CBK6B	3 x 150 + 3 G 25	45.20	5545	0.129	300
11	PV5X-03G18535-CBK6B	3 x 185 + 3 G 35	48.90	6765	0.106	300
12	PV5X-04G00150-CBK6B	4 x 1.5	12.00	230	13.30	500/1000
13	PV5X-04G00250-CBK6B	4 x 2.5	13.10	300	7.98	500/1000
14	PV5X-04G00400-CBK6B	4 x 4	14.00	485	4.95	500/1000
15	PV5X-04G00600-CBK6B	4 x 6	15.50	630	3.30	500/1000
16	PV5X-04G01000-CBK6B	4 x 10	17.50	880	1.91	500/1000
17	PV5X-04G01600-CBK6B	4 x 16	20.70	1300	1.21	500/1000
18	PV5X-04G02500-CBK6B	4 x 25	25.20	1860	0.780	500/1000
19	PV5X-04G03500-CBK6B	4 x 35	27.80	2610	0.554	500
20	PV5X-04G05000-CBK6B	4 x 50	32.50	2950	0.386	500
21	PV5X-04G07000-CBK6B	4 x 70	37.70	3950	0.272	500
22	PV5X-04G09500-CBK6B	4 x 95	42.30	5300	0.206	500
23	PV5X-04G12000-CBK6B	4 x 120	45.80	6600	0.161	300
24	PV5X-04G15000-CBK6B	4 x 150	53.00	7050	0.129	300
25	PV5X-04G18500-CBK6B	4 x 185	58.90	8380	0.106	300

Dimensions and Weights are subject for manufacturing Tolerance.

ELECTRICAL PROPERTY

Conductor DC Resistance @ 20°C	As per Table 1
Voltage Test	3500 V for 5 minutes
Voltage Rating	600/1000 V

FLAME BEHAVIOUR, MECHANICAL & ENVIRONMENTAL PROPERTY

Operating Temperature	-20°C to 90°C
Bending Radius	12 X Cable Outer Diameter
Flame Retardance	Flame Retardant IEC 60332-1-2

PACKING	500/1000 mts in cable Wooden Drum or any other customer requirement
	Each reels/drum shall be marked with ASH cables standard practice.