

APPLICATION

For fixed installations, indoors and outdoors, in low voltage electricity systems. Generally used for the distribution of electrical energy in urban networks, power or switching stations, industrial plants, as well as in switchgears, in applications.

STANDARDS

IEC 60502-1	Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1.2 kV) up to 30 kV (Um = 36 kV).
IEC 60228	Conductors of insulated cables

CONSTRUCTION DETAILS

Conductor Material	Plain annealed Copper conductor to ASTM B3. Stranded Class (2) of IEC 60228.										
Conductor Insulation	Extruded PVC (Poly Vinyl Chloride) compound.										
Insulation color	<table> <tr> <th>No. of cores</th><th>Core Identification</th></tr> <tr> <td>2 Cores</td><td>Red, Black</td></tr> <tr> <td>3 Cores</td><td>Red, Yellow, Blue</td></tr> <tr> <td>4 Cores</td><td>Red, Yellow, Blue, Black</td></tr> <tr> <td>5 Cores</td><td>Red, Yellow, Blue, Black, Green/Yellow stripe</td></tr> </table>	No. of cores	Core Identification	2 Cores	Red, Black	3 Cores	Red, Yellow, Blue	4 Cores	Red, Yellow, Blue, Black	5 Cores	Red, Yellow, Blue, Black, Green/Yellow stripe
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5 Cores	Red, Yellow, Blue, Black, Green/Yellow stripe										
Assembly	Insulated conductors are laid up/assembled to form a core.										
Filling /Bedding	When required, a non-hygroscopic fillers or Extruded PVC layer compatible with operating temperature of conductor is applied over the assembled cores.										
Outer Sheathing	Extruded Poly Vinyl Chloride (PVC) Type ST1 compound. Flame Retardant and Sunlight Resistant. Black color or upon request.										
Marking (Printing)	ASHPOWER (no. of core) X (size) MM2 CU/PVC/PVC 600/1000 V IEC 60502-1 ASHCABLES KSA + METER MARKING										
Cable Cross sectional drawing	Figure 1										

ELECTRICAL PROPERTY

Rated voltage	600 / 1000V
Voltage Test (Core to Core)	3.5 kV AC for 5 Minutes

PHYSICAL & ENVIRONMENTAL PROPERTIES

Flame Retardant Test	IEC 60332-1-2
Sunlight Resistance	Passes
Minimum Bending Radius	10xCable Outside Diameter
Temperature Range	-10°C to 70°C

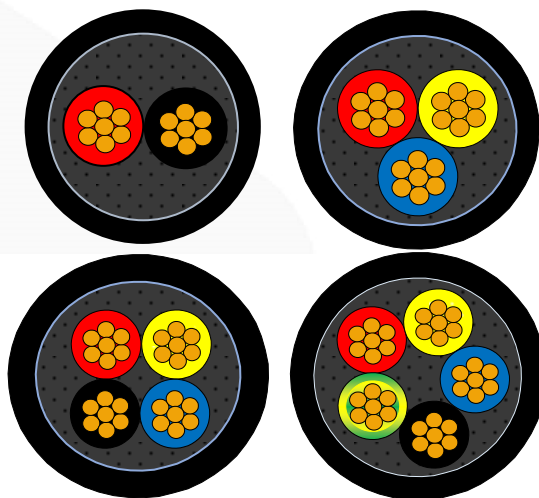
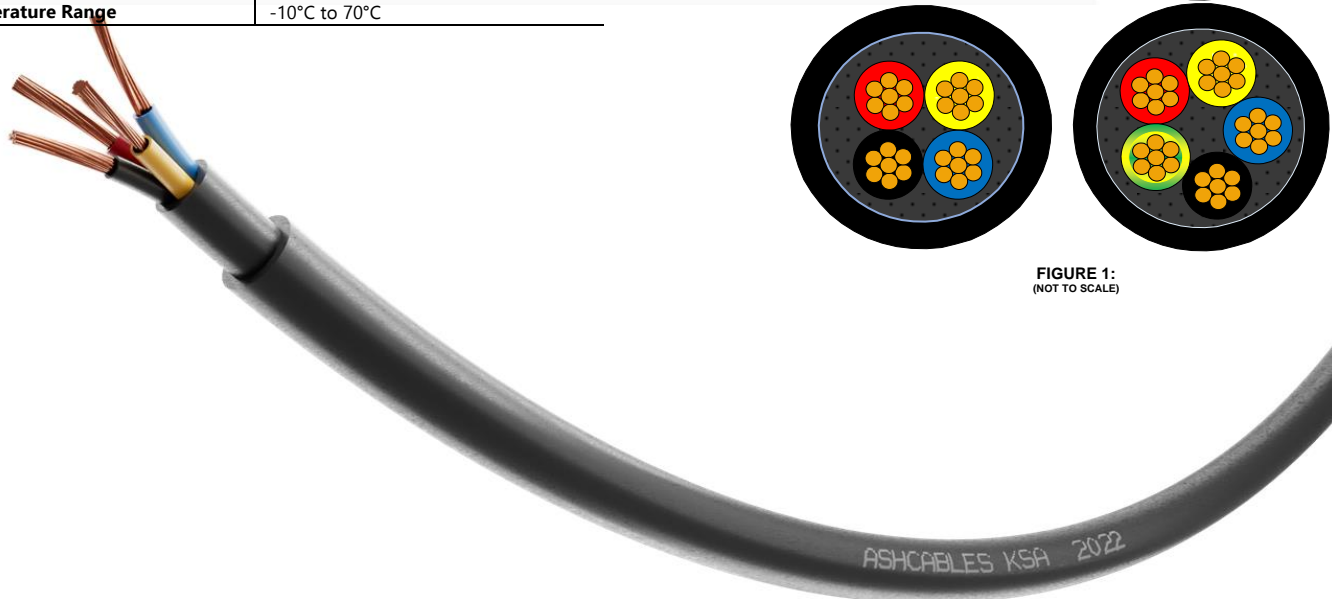


FIGURE 1:
(NOT TO SCALE)



DIMENSIONAL DATA SHEET

TWO(2) CORES CU/PVC/PVC 600/1000V

S.No	ASH CABLES Item Code	CONDUCTOR	INSULATION	OUTER SHEATH		PACKAGING		Maximum Conductor DC Resistance at 20°C (Ω/KM)
		no. of core X (size)MM2	Thickness Nominal (mm)	Thickness Nominal (mm)	Approx. Overall Diameter (mm)	Net Weight (Kg/Km)	Standard Drum (m) ±5%	
1.	P131-02C00150-UBK6A	2CX1.5 MM2	0.80	1.80	10.50	145	500/1000	12.10
2	P131-02C00250-UBK6A	2CX2.5 MM2	0.80	1.80	11.10	175	500/1000	7.41
3	P131-02C00400-UBK6A	2CX4 MM2	1.00	1.80	13.50	260	500/1000	4.61
4	P131-02C00600-UBK6A	2CX6 MM2	1.00	1.80	14.20	316	500/1000	3.08
5	P131-02C01000-UBK6A	2CX10 MM2	1.00	1.80	16.10	440	500/1000	1.83
6	P131-02C01600-UBK6A	2CX16 MM2	1.00	1.80	20.40	735	500/1000	1.15

THREE (3) CORES CU/PVC/PVC 600/1000V

S.No	ASH CABLES Item Code	CONDUCTOR	INSULATION	OUTER SHEATH		PACKAGING		Maximum Conductor DC Resistance at 20°C (Ω/KM)
		no. of core X (size)MM2	Thickness Nominal (mm)	Thickness Nominal (mm)	Approx. Overall Diameter (mm)	Net Weight (Kg/Km)	Standard Drum (m) ±5%	
1	P131-03C00150-UBK6A	3CX1.5 MM2	0.80	1.80	10.90	170	500/1000	12.10
2	P131-03C00250-UBK6A	3CX2.5 MM2	0.80	1.80	11.70	205	500/1000	7.41
3	P131-03C00400-UBK6A	3CX4 MM2	1.00	1.80	13.80	305	500/1000	4.61
4	P131-03C00600-UBK6A	3CX6 MM2	1.00	1.80	15.10	390	500/1000	3.08
5	P131-03C01000-UBK6A	3CX10 MM2	1.00	1.80	17.10	550	500/1000	1.83
6	P131-03C01600-UBK6A	3CX16 MM2	1.00	1.80	21.50	900	500/1000	1.15

FOUR(4)CORES CU/PVC/PVC 600/1000V

S.No	ASH CABLES Item Code	CONDUCTOR	INSULATION	OUTER SHEATH		PACKAGING		Maximum Conductor DC Resistance at 20°C (Ω/KM)
		no. of core X (size)MM2	Thickness Nominal (mm)	Thickness Nominal (mm)	Approx. Overall Diameter (mm)	Net Weight (Kg/Km)	Standard Drum (m) ±5%	
1	P131-04C00150-UBK6A	4CX1.5 MM2	0.80	1.80	11.70	200	500/1000	12.10
2	P131-04C00250-UBK6A	4CX2.5 MM2	0.80	1.80	12.60	250	500/1000	7.41
3	P131-04C00400-UBK6A	4CX4 MM2	1.00	1.80	14.90	365	500/1000	4.61
4	P131-04C00600-UBK6A	4CX6 MM2	1.00	1.80	16.40	480	500/1000	3.08
5	P131-04C01000-UBK6A	4CX10 MM2	1.00	1.80	18.60	685	500/1000	1.83
6	P131-04C01600-UBK6A	4CX16 MM2	1.00	1.80	23.30	1090	500/1000	1.15

FIVE(5) CORES CU/PVC/PVC 600/1000V

S.No	ASH CABLES Item Code	CONDUCTOR	INSULATION	OUTER SHEATH		PACKAGING		Maximum Conductor DC Resistance at 20°C (Ω/KM)
		no. of core X (size)MM2	Thickness Nominal (mm)	Thickness Nominal (mm)	Approx. Overall Diameter (mm)	Net Weight (Kg/Km)	Standard Drum (m) ±5%	
1	P131-05C00150-UXX6A	5CX1.5 MM2	0.80	1.80	12.70	240	500/1000	12.10
2	P131-05C00250-UXX6A	5CX2.5 MM2	0.80	1.80	13.70	300	500/1000	7.41
3	P131-05C00400-UXX6A	5CX4 MM2	1.00	1.80	15.50	415	500/1000	4.61
4	P131-05C00600-UXX6A	5CX6 MM2	1.00	1.80	17.70	633	500/1000	3.08

Dimensions and Weights are subject for manufacturing Tolerance.

Cable Dia. Tolerance:

±2.0mm for outer diameter of ≤ 25 mm.

±2.5mm for outer diameter of ≥ 26 mm.