

ASH POWER

MULTI CORES CU/ XLPE / PVC 600/1000 VOLTS

Flame Retardant & Sunlight Resistant

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

CONSTRUCTION DETAILS

Conductor Material	Plain annealed Copper conductor to ASTM B3. Stranded Class (2) of IEC 60228.	
Conductor Insulation	Extruded XLPE (Cross linked Polyethylene) compound.	
Insulation color	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
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 ST2 compound. Flame Retardant and Sunlight Resistant. Black color or upon request.	
Marking (Printing)	ASHPOWER (no. of core) X (size) MM2 CU/XLPE/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 / IEC 60332-3 Cat. C
Sunlight Resistance	Passes
Minimum Bending Radius	10xCable Outside Diameter
Temperature Range	-10°C to 70°C

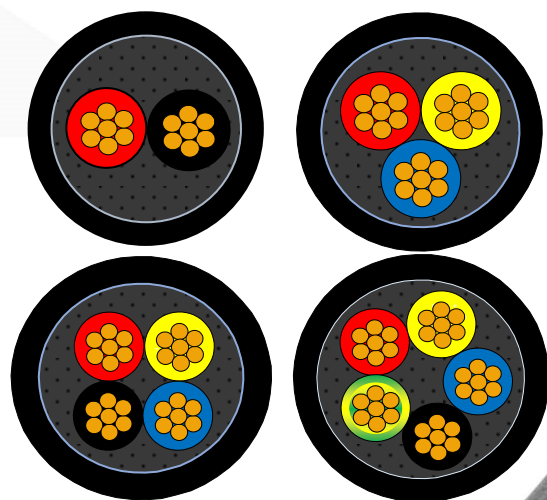


FIGURE 1:
(NOT TO SCALE)

ASH POWER

MULTI CORES CU/ XLPE / PVC 600/1000 VOLTS

Flame Retardant & Sunlight Resistant

DIMENSIONAL DATA SHEET

TWO(2) CORES CU/XLPE/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.	P13X-02C00150-UBK6B	2CX1.5 MM2	0.70	1.80	10.20	125	500/1000	12.10
2	P13X-02C00250-UBK6B	2CX2.5 MM2	0.70	1.80	11.00	165	500/1000	7.41
3	P13X-02C00400-UBK6B	2CX4 MM2	0.70	1.80	13.30	240	500/1000	4.61
4	P13X-02C00600-UBK6B	2CX6 MM2	0.70	1.80	13.80	306	500/1000	3.08
5	P13X-02C01000-UBK6B	2CX10 MM2	0.70	1.80	16.00	430	500/1000	1.83
6	P13X-02C01600-UBK6B	2CX16 MM2	0.70	1.80	19.50	720	500/1000	1.15
7	P13X-02C02500-UBK6B	2CX25 MM2	0.90	1.80	21.80	765	500/1000	0.727

THREE (3) CORES CU/XLPE/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	P13X-03C00150-UBK6B	3CX1.5 MM2	0.70	1.80	10.80	160	500/1000	12.10
2	P13X-03C00250-UBK6B	3CX2.5 MM2	0.70	1.80	11.60	210	500/1000	7.41
3	P13X-03C00400-UBK6B	3CX4 MM2	0.70	1.80	13.80	300	500/1000	4.61
4	P13X-03C00600-UBK6B	3CX6 MM2	0.70	1.80	15.05	380	500/1000	3.08
5	P13X-03C01000-UBK6B	3CX10 MM2	0.70	1.80	17.00	545	500/1000	1.83
6	P13X-03C01600-UBK6B	3CX16 MM2	0.70	1.80	21.30	895	500/1000	1.15
7	P13X-03C02500-UBK6B	3CX25 MM2	0.90	1.80	22.80	1125	500/1000	0.727

FOUR(4)CORES CU/XLPE/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	P13X-04C00150-UBK6B	4CX1.5 MM2	0.70	1.80	11.50	190	500/1000	12.10
2	P13X-04C00250-UBK6B	4CX2.5 MM2	0.70	1.80	12.50	240	500/1000	7.41
3	P13X-04C00400-UBK6B	4CX4 MM2	0.70	1.80	14.70	350	500/1000	4.61
4	P13X-04C00600-UBK6B	4CX6 MM2	0.70	1.80	16.20	470	500/1000	3.08
5	P13X-04C01000-UBK6B	4CX10 MM2	0.70	1.80	18.50	670	500/1000	1.83
6	P13X-04C01600-UBK6B	4CX16 MM2	0.70	1.80	23.10	1080	500/1000	1.15
7	P13X-04C02500-UBK6B	4CX25 MM2	0.90	1.80	25.30	1435	500/1000	0.727

FIVE(5) CORES CU/XLPE/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	P13X-05C00150-UBK6B	5CX1.5 MM2	0.70	1.80	12.50	230	500/1000	12.10
2	P13X-05C00250-UBK6B	5CX2.5 MM2	0.70	1.80	13.50	290	500/1000	7.41
3	P13X-05C00400-UBK6B	5CX4 MM2	0.70	1.80	15.30	410	500/1000	4.61
4	P13X-05C00600-UBK6B	5CX6 MM2	0.70	1.80	17.50	625	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.