

**ASH CONTROL**  
**MULTI CORE CU/XLPE/SWA/PVC 0.6/1KV**  
**Sunlight Resistant, Flame Retardant**

**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. Galvanized steel wire armored protection against mechanical damage.

**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**

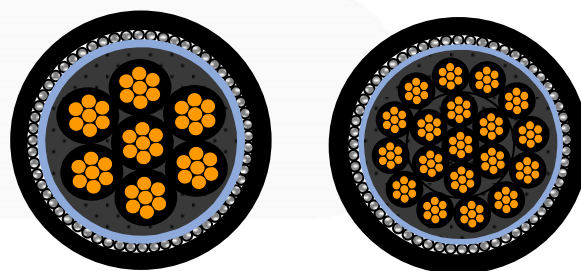
<b>CONDUCTOR</b>	Stranded Annealed Plain Copper Conductor, Class-2 to IEC:60228.	
<b>INSULATION</b>	Extruded XLPE (Cross-linked polyethylene) compound.	
<b>CORES IDENTIFICATION</b>	<b>No. of cores</b>	<b>Core Identification</b>
	3 Cores	Black, Red
	3 Cores	Red, Yellow, Blue
	4 Cores	Red, Yellow, Blue, Black
	5 Cores	Black with numeric print on each core
<b>ASSEMBLY / LAYING-UP</b>	The cores of cables having two-, three-, four- or five- or more cores are laid-up with a suitable direction of lay. A non-hygroscopic polypropylene filler, and binder tape (if required)	
<b>Inner Jacket</b>	Polyvinyl Chloride (PVC), compatible with the operating temperature of the cable.	
<b>ARMOR</b>	Galvanized Steel wire.	
<b>OUTER JACKET</b>	Extruded Poly Vinyl Chloride (PVC) Type ST2 compound. Flame Retardant and Sunlight Resistant. Black color or upon request.	
<b>Marking</b>	ASH CONTROL (NO. OF CORE) X (SIZE MM2) CU/XLPE/SWA/PVC 600/1000 V IEC 60502-1 ASHCABLES KSA + METER MARKING	

**ELECTRICAL PROPERTIES**

<b>Voltage Test</b>	3.5 kV / 5 Minutes
<b>Voltage Rate</b>	600/1000V

**PHYSICAL & ENVIRONMENTAL PROPERTIES**

<b>Flame Retardant Test</b>	IEC 60332-1-2 / IEC 60332-3 Cat. C
<b>Sunlight Resistance</b>	Pass
<b>Minimum Bending Radius</b>	10xCable Outside Diameter
<b>Temperature Range</b>	-30°C to 90°C



**FIGURE 1:**  
(NOT TO SCALE)

**ASH CONTROL**  
**MULTI CORE CU/XLPE/SWA/PVC 0.6/1KV**  
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**DIMENSIONS AND WEIGHTS**

**TWO(2) CORES CU/XLPE/SWA/PVC 600/1000V**

S/N	ASH CABLES Item Code	CABLE	INSULATION	ARMOR	OUTER SHEATH		PACKAGING		Maximum Conductor DC Resistance at 20°C (Ω/KM)
		no. of core X (size)MM2	Thickness Nominal (mm)	Steel Wire Dia. (mm)	Thickness Nominal (mm)	Approx. Overall Diameter (mm)	Net Weight (Kg/Km)	Standard Drum (m) ±5%	
1	C03X-02C00150-WBK6B	2C X 1.5	0.70	0.90	1.80	14.00	375	500/1000	≤12.10
2	C03X-02C00250-WBK6B	2C X 2.5	0.70	0.90	1.80	14.50	415	500/1000	≤7.41
3	C03X-02C00400-WBK6B	2C X 4	0.70	0.90	1.80	16.00	510	500/1000	≤4.61
4	C03X-02C00600-WBK6B	2C X 6	0.70	0.90	1.80	17.10	585	500/1000	≤3.08

**THREE(3) CORES CU/XLPE/SWA/PVC 600/1000V**

S/N	ASH CABLES Item Code	CABLE	INSULATION	ARMOR	OUTER SHEATH		PACKAGING		Maximum Conductor DC Resistance at 20°C (Ω/KM)
		no. of core X (size)MM2	Thickness Nominal (mm)	Steel Wire Dia. (mm)	Thickness Nominal (mm)	Approx. Overall Diameter (mm)	Net Weight (Kg/Km)	Standard Drum (m) ±5%	
1	C03X-03C00150-WBK6B	3C X 1.5	0.70	0.90	1.80	14.50	400	500/1000	≤12.10
2	C03X-03C00250-WBK6B	3C X 2.5	0.70	0.90	1.80	15.40	465	500/1000	≤7.41
3	C03X-03C00400-WBK6B	3C X 4	0.70	0.90	1.80	16.50	554	500/1000	≤4.61
4	C03X-03C00600-WBK6B	3C X 6	0.70	1.25	1.80	17.00	600	500/1000	≤3.08

**FOUR(4) CORES CU/XLPE/SWA/PVC 600/1000V**

S/N	ASH CABLES Item Code	CABLE	INSULATION	ARMOR	OUTER SHEATH		PACKAGING		Maximum Conductor DC Resistance at 20°C (Ω/KM)
		no. of core X (size)MM2	Thickness Nominal (mm)	Steel Wire Dia. (mm)	Thickness Nominal (mm)	Approx. Overall Diameter (mm)	Net Weight (Kg/Km)	Standard Drum (m) ±5%	
1	C03X-04C00150-WBK6B	4C X 1.5	0.70	0.90	1.80	15.50	440	500/1000	≤12.10
2	C03X-04C00250-WBK6B	4C X 2.5	0.70	0.90	1.80	16.50	525	500/1000	≤7.41
3	C03X-04C00400-WBK6B	4C X 4	0.70	0.90	1.80	17.50	575	500/1000	≤4.61
4	C03X-04C00600-WBK6B	4C X 6	0.70	1.25	1.80	18.50	775	500/1000	≤3.08

**FIVE(5) CORES CU/XLPE/SWA/PVC 600/1000V**

S/N	ASH CABLES Item Code	CABLE	INSULATION	ARMOR	OUTER SHEATH		PACKAGING		Maximum Conductor DC Resistance at 20°C (Ω/KM)
		no. of core X (size)MM2	Thickness Nominal (mm)	Steel Wire Dia. (mm)	Thickness Nominal (mm)	Approx. Overall Diameter (mm)	Net Weight (Kg/Km)	Standard Drum (m) ±5%	
1	C03X-05C00150-WBK6B	5C X 1.5	0.70	0.90	1.80	16.20	485	500/1000	≤12.10
2	C03X-05C00250-WBK6B	5C X 2.5	0.70	0.90	1.80	17.30	575	500/1000	≤7.41
3	C03X-05C00400-WBK6B	5C X 4	0.70	0.90	1.80	18.70	750	500/1000	≤4.61
4	C03X-05C00600-WBK6B	5C X 6	0.70	1.25	1.80	20.30	910	500/1000	≤3.08

**SIX(6) CORES CU/XLPE/SWA/PVC 600/1000V**

S/N	ASH CABLES Item Code	CABLE	INSULATION	ARMOR	OUTER SHEATH		PACKAGING		Maximum Conductor DC Resistance at 20°C (Ω/KM)
		no. of core X (size)MM2	Thickness Nominal (mm)	Steel Wire Dia. (mm)	Thickness Nominal (mm)	Approx. Overall Diameter (mm)	Net Weight (Kg/Km)	Standard Drum (m) ±5%	
1	C03X-06C00150-WBK6B	6C X 1.5	0.70	0.90	1.80	17.30	550	500/1000	≤12.10
2	C03X-06C00250-WBK6B	6C X 2.5	0.70	0.90	1.80	18.50	650	500/1000	≤7.41
3	C03X-06C00400-WBK6B	6C X 4	0.70	1.25	1.80	20.80	910	500/1000	≤4.61
4	C03X-06C00600-WBK6B	6C X 6	0.70	1.60	1.80	22.50	1130	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.

## ASH CONTROL

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Sunlight Resistant, Flame Retardant

#### SEVEN(7) CORES CU/XLPE/SWA/PVC 600/1000V

S/N	ASH CABLES Item Code	CABLE	INSULATION	ARMOR	OUTER SHEATH		PACKAGING		Maximum Conductor DC Resistance at 20°C (Ω/KM)
		Cross Sectional Area Nominal (mm <sup>2</sup> )	Thickness Nominal (mm)	Steel Wire Dia. (mm)	Thickness Nominal (mm)	Approx. Overall Diameter (mm)	Net Weight (Kg/Km)	Standard Drum (m) ±5%	
1	C03X-07C00150-WBK6B	7C X 1.5	0.70	0.90	1.80	17.70	570	500/1000	≤12.10
2	C03X-07C00250-WBK6B	7C X 2.5	0.70	1.25	1.80	19.10	770	500/1000	≤7.41
3	C03X-07C00400-WBK6B	7C X 4	0.70	1.25	1.80	20.60	950	500/1000	≤4.61
4	C03X-07C00600-WBK6B	7C X 6	0.70	1.60	1.80	22.70	1210	500/1000	≤3.08

#### EIGHT(8) CORES CU/XLPE/SWA/PVC 600/1000V

S/N	ASH CABLES Item Code	CABLE	INSULATION	ARMOR	OUTER SHEATH		PACKAGING		Maximum Conductor DC Resistance at 20°C (Ω/KM)
		no. of core X (size)MM2	Thickness Nominal (mm)	Steel Wire Dia. (mm)	Thickness Nominal (mm)	Approx. Overall Diameter (mm)	Net Weight (Kg/Km)	Standard Drum (m) ±5%	
1	C03X-08C00150-WBK6B	8C X 1.5	0.70	0.90	1.80	18.50	620	500/1000	≤12.10
2	C03X-08C00250-WBK6B	8C X 2.5	0.70	1.25	1.80	20.60	875	500/1000	≤7.41
3	C03X-08C00400-WBK6B	8C X 4	0.70	1.25	1.80	22.50	1075	500/1000	≤4.61
4	C03X-08C00600-WBK6B	8C X 6	0.70	1.60	1.80	24.50	1350	500/1000	≤3.08

#### NINE(9) CORES CU/XLPE/SWA/PVC 600/1000V

S/N	ASH CABLES Item Code	CABLE	INSULATION	ARMOR	OUTER SHEATH		PACKAGING		Maximum Conductor DC Resistance at 20°C (Ω/KM)
		no. of core X (size)MM2	Thickness Nominal (mm)	Steel Wire Dia. (mm)	Thickness Nominal (mm)	Approx. Overall Diameter (mm)	Net Weight (Kg/Km)	Standard Drum (m) ±5%	
1	C03X-09C00150-UXXXB	9C X 1.5	0.70	0.90	1.80	19.50	700	500/1000	≤12.10
2	C03X-09C00250-UXXXB	9C X 2.5	0.70	1.25	1.80	22.00	965	500/1000	≤7.41
3	C03X-09C00400-UXXXB	9C X 4	0.70	1.25	1.80	24.00	1205	500/1000	≤4.61
4	C03X-09C00600-UXXXB	9C X 6	0.70	1.60	1.80	26.00	1500	500/1000	≤3.08

#### TEN(10) CORES CU/XLPE/SWA/PVC 600/1000V

S/N	ASH CABLES Item Code	CABLE	INSULATION	ARMOR	OUTER SHEATH		PACKAGING		Maximum Conductor DC Resistance at 20°C (Ω/KM)
		no. of core X (size)MM2	Thickness Nominal (mm)	Steel Wire Dia. (mm)	Thickness Nominal (mm)	Approx. Overall Diameter (mm)	Net Weight (Kg/Km)	Standard Drum (m) ±5%	
1	C03X-10C00150-WBK6B	10C X 1.5	0.70	0.90	1.80	20.30	715	500/1000	≤12.10
2	C03X-10C00250-WBK6B	10C X 2.5	0.70	1.25	1.80	22.50	1010	500/1000	≤7.41
3	C03X-10C00400-WBK6B	10C X 4	0.70	1.60	1.80	25.50	1390	500/1000	≤4.61
4	C03X-10C00600-WBK6B	10C X 6	0.70	1.60	1.80	27.00	1605	500/1000	≤3.08

#### TWELVE(12) CORES CU/XLPE/SWA/PVC 600/1000V

S/N	ASH CABLES Item Code	CABLE	INSULATION	ARMOR	OUTER SHEATH		PACKAGING		Maximum Conductor DC Resistance at 20°C (Ω/KM)
		no. of core X (size)MM2	Thickness Nominal (mm)	Steel Wire Dia. (mm)	Thickness Nominal (mm)	Approx. Overall Diameter (mm)	Net Weight (Kg/Km)	Standard Drum (m) ±5%	
1	C03X-12C00150-WBK6B	12C X 1.5	0.70	1.25	1.80	21.20	900	500/1000	≤12.10
2	C03X-12C00250-WBK6B	12C X 2.5	0.70	1.25	1.80	23.10	1080	500/1000	≤7.41
3	C03X-12C00400-WBK6B	12C X 4	0.70	1.60	1.80	26.00	1500	500/1000	≤4.61
4	C03X-12C00600-WBK6B	12C X 6	0.70	1.60	1.80	27.80	1750	500/1000	≤3.08

#### FIFTEEN(15) CORES CU/XLPE/SWA/PVC 600/1000V

S/N	ASH CABLES Item Code	CABLE	INSULATION	ARMOR	OUTER SHEATH		PACKAGING		Maximum Conductor DC Resistance at 20°C (Ω/KM)
		no. of core X (size)MM2	Thickness Nominal (mm)	Steel Wire Dia. (mm)	Thickness Nominal (mm)	Approx. Overall Diameter (mm)	Net Weight (Kg/Km)	Standard Drum (m) ±5%	
1	C03X-15C00150-WBK6B	15C X 1.5	0.70	1.25	1.80	23.00	1020	500/1000	≤12.10
2	C03X-15C00250-WBK6B	15C X 2.5	0.70	1.60	1.80	25.70	1405	500/1000	≤7.41
3	C03X-15C00400-WBK6B	15C X 4	0.70	1.60	1.80	28.20	1740	500/1000	≤4.61
4	C03X-15C00600-WBK6B	15C X 6	0.70	1.60	1.80	30.30	2070	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.

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Sunlight Resistant, Flame Retardant

#### SIXTEEN(16) CORES CU/XLPE//SWA/PVC 600/1000V

S/N	ASH CABLES Item Code	CABLE	INSULATION	ARMOR	OUTER SHEATH		PACKAGING		Maximum Conductor DC Resistance at 20°C (Ω/KM)
		no. of core X (size)MM2	Thickness Nominal (mm)	Steel Wire Dia. (mm)	Thickness Nominal (mm)	Approx. Overall Diameter (mm)	Net Weight (Kg/Km)	Standard Drum (m) ±5%	
1	C03X-16C00150-WBK6B	16C X 1.5	0.70	1.25	1.80	23.10	1050	500/1000	≤12.10
2	C03X-16C00250-WBK6B	16C X 2.5	0.70	1.60	1.80	25.80	1440	500/1000	≤7.41
3	C03X-16C00400-WBK6B	16C X 4	0.70	1.60	1.80	28.40	1800	500/1000	≤4.61
4	C03X-16C00600-WBK6B	16C X 6	0.70	1.60	1.80	30.50	215	500/1000	≤3.08

#### EIGHTEEN (18) CORES CU/XLPE/SWA/PVC 600/1000V

S/N	ASH CABLES Item Code	CABLE	INSULATION	ARMOR	OUTER SHEATH		PACKAGING		Maximum Conductor DC Resistance at 20°C (Ω/KM)
		no. of core X (size)MM2	Thickness Nominal (mm)	Steel Wire Dia. (mm)	Thickness Nominal (mm)	Approx. Overall Diameter (mm)	Net Weight (Kg/Km)	Standard Drum (m) ±5%	
1	C03X-18C00150-WBK6B	18C X 1.5	0.70	1.60	1.80	23.80	1170	500/1000	≤12.10
2	C03X-18C00250-WBK6B	18C X 2.5	0.70	1.60	1.80	26.00	1440	500/1000	≤7.41
3	C03X-18C00400-WBK6B	18C X 4	0.70	1.60	1.90	28.90	1840	500/1000	≤4.61
4	C03X-18C00600-WBK6B	18C X 6	0.70	1.60	1.90	32.00	2350	500/1000	≤3.08

#### NINETEEN (19) CORES CU/XLPE/SWA/PVC 600/1000V

S/N	ASH CABLES Item Code	CABLE	INSULATION	ARMOR	OUTER SHEATH		PACKAGING		Maximum Conductor DC Resistance at 20°C (Ω/KM)
		Cross Sectional Area Nominal (mm2)	Thickness Nominal (mm)	Steel Wire Dia. (mm)	Thickness Nominal (mm)	Approx. Overall Diameter (mm)	Net Weight (Kg/Km)	Standard Drum (m) ±5%	
1	C03X-19C00150-WBK6B	19C X 1.5	0.70	1.60	1.80	24.00	1200	500/1000	≤12.10
2	C03X-19C00250-WBK6B	19C X 2.5	0.70	1.60	1.80	26.20	1490	500/1000	≤7.41
3	C03X-19C00400-WBK6B	19C X 4	0.70	1.60	1.90	30.00	1960	500/1000	≤4.61
4	C03X-19C00600-WBK6B	19C X 6	0.70	1.60	1.90	32.20	2500	500/1000	≤3.08

#### TWENTY (20) CORES CU/XLPE/SWA/PVC 600/1000V

S/N	ASH CABLES Item Code	CABLE	INSULATION	ARMOR	OUTER SHEATH		PACKAGING		Maximum Conductor DC Resistance at 20°C (Ω/KM)
		no. of core X (size)MM2	Thickness Nominal (mm)	Steel Wire Dia. (mm)	Thickness Nominal (mm)	Approx. Overall Diameter (mm)	Net Weight (Kg/Km)	Standard Drum (m) ±5%	
1	C03X-20C00150-WBK6B	20C X 1.5	0.70	1.60	1.80	25.00	1280	500/1000	≤12.10
2	C03X-20C00250-WBK6B	20C X 2.5	0.70	1.60	1.80	28.00	1710	500/1000	≤7.41
3	C03X-20C00400-WBK6B	20C X 4	0.70	1.60	1.90	31.00	2000	500/1000	≤4.61
4	C03X-20C00600-WBK6B	20C X 6	0.70	1.60	2.05	35.00	2750	500/1000	≤3.08

#### TWENTY FOUR (24) CORES CU/XLPE/SWA/PVC 600/1000V

S/N	ASH CABLES Item Code	CABLE	INSULATION	ARMOR	OUTER SHEATH		PACKAGING		Maximum Conductor DC Resistance at 20°C (Ω/KM)
		no. of core X (size)MM2	Thickness Nominal (mm)	Steel Wire Dia. (mm)	Thickness Nominal (mm)	Approx. Overall Diameter (mm)	Net Weight (Kg/Km)	Standard Drum (m) ±5%	
1	C03X-24C00150-WBK6B	24C X 1.5	0.70	1.60	1.80	28.00	1550	500/1000	≤12.10
2	C03X-24C00250-WBK6B	24C X 2.5	0.70	1.60	1.90	30.50	1890	500/1000	≤7.41
3	C03X-24C00400-WBK6B	24C X 4	0.70	1.60	2.05	35.00	2500	500/1000	≤4.61
4	C03X-24C00600-WBK6B	24C X 6	0.70	2.00	2.15	38.00	3250	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.

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**TWENTY FIVE (25) CORES CU/XLPE/SWA/PVC 600/1000V**

S/N	ASH CABLES Item Code	CABLE	INSULATION	ARMOR	OUTER SHEATH		PACKAGING		Maximum Conductor DC Resistance at 20°C (Ω/KM)
		no. of core X (size)MM2	Thickness Nominal (mm)	Steel Wire Dia. (mm)	Thickness Nominal (mm)	Approx. Overall Diameter (mm)	Net Weight (Kg/Km)	Standard Drum (m) ±5%	
1	C03X-25C00150-WBK6B	25C X 1.5	0.70	1.60	1.80	28.50	1610	500/1000	≤12.10
2	C03X-25C00250-WBK6B	25C X 2.5	0.70	1.60	1.90	31.50	2000	500/1000	≤7.41
3	C03X-25C00400-WBK6B	25C X 4	0.70	2.00	2.05	37.50	2690	500/1000	≤4.61
4	C03X-25C00600-WBK6B	25C X 6	0.70	2.00	2.15	40.00	3550	500/1000	≤3.08

**THIRTY (30) CORES CU/XLPE/SWA/PVC 600/1000V**

S/N	ASH CABLES Item Code	CABLE	INSULATION	ARMOR	OUTER SHEATH		PACKAGING		Maximum Conductor DC Resistance at 20°C (Ω/KM)
		no. of core X (size)MM2	Thickness Nominal (mm)	Steel Wire Dia. (mm)	Thickness Nominal (mm)	Approx. Overall Diameter (mm)	Net Weight (Kg/Km)	Standard Drum (m) ±5%	
1	C03X-30C00150-WBK6B	30C X 1.5	0.70	1.60	1.80	30.10	1800	500/1000	≤12.10
2	C03X-30C00250-WBK6B	30C X 2.5	0.70	1.60	1.90	33.50	2250	500/1000	≤7.41
3	C03X-30C00400-WBK6B	30C X 4	0.70	2.00	2.10	38.50	2950	500/1000	≤4.61

**THIRTY SEVEN (37) CORES CU/XLPE/SWA/PVC 600/1000V**

S/N	ASH CABLES Item Code	CABLE	INSULATION	ARMOR	OUTER SHEATH		PACKAGING		Maximum Conductor DC Resistance at 20°C (Ω/KM)
		no. of core X (size)MM2	Thickness Nominal (mm)	Steel Wire Dia. (mm)	Thickness Nominal (mm)	Approx. Overall Diameter (mm)	Net Weight (Kg/Km)	Standard Drum (m) ±5%	
1	C03X-37C00150-WBK6B	37C X 1.5	0.70	1.60	1.90	32.00	1950	500/1000	≤12.10
2	C03X-37C00250-WBK6B	37C X 2.5	0.70	2.00	2.05	35.50	2650	500/1000	≤7.41
3	C03X-37C00400-WBK6B	37C X 4	0.70	2.00	2.15	40.50	3500	500/1000	≤4.61

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.