

Middle East Specialized Cables Co.

POWER CABLE

MULTI CORE, ARMORED FLAME RETARDANT

CU/ XLPE/SWA/PVC

SPECIFICATION: BS 5467 & IEC 60332-1

MESC Doc. No.: TD-U100771-01-00



CONSTRUCTION

Conductor	Circular Stranded Annealed Plain Copper to Class 2 of IEC 60228.
Insulation	Extruded XLPE.
Color Code	Black Core with Number Printing
Cabling/Laying up	Cores are assembled in a concentric layer with wrapped with a polyester tape.
Inner Sheath	Flame Retardant PVC in Black Color compatible to operating temperature of conductor.
Wire Armour	A single layer of galvanized steel wire armor over the inner sheath.
Over sheath	Flame Retardant PVC Type 9 to BS 7655. The color of the sheath shall be Black.
Embossing on outer Sheath (refer note 1)	ELECTRIC CABLE 600/1000V AUX BS 5467 NO. OF CORES X SIZE MESC YEAR LENGTH METER MARKING

Technical Data:

Temperature Range	- 5°C to 50°C (During installation) & - 20°C to 90°C (During Operation)
Voltage Rating	600/1000 Volts
DC Cond. Res. at 20 Deg. C Max. (Ohm/Km)	12.1(1.5mm ²)
AC Cond. Res. at 90 Deg. C Max. (Ohm/Km)	15.43(1.5mm ²)
Inductance at 50 - 60Hz (miliH/Km)	0.336(1.5mm ²)
Inductive Reactance at 50 - 60Hz (Ohm/Km)	0.106(1.5mm ²)
Impedance at 50 - 60Hz & at 90 Deg. C (Ohm/Km)	15.43(1.5mm ²)
Cond. Short Circuit current Rating (Kamp/Sec)	0.21(1.5mm ²)
Voltage Withstand (V/Minute)	3500 RMS / 5 or 8400 DC / 5

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Flame Behavior Characteristics:

Flame retardant	IEC 60332-1
Halogen acid gas (outer sheath)	MAX.17 % (IEC 60754-1)
Limiting Oxygen index (outer sheath)	≥ 30% (ASTM D2863)
Min. Bending Radius	12X Cable Overall Diameter

DIMENSIONAL DATA

SR NO	MESC CODE	CORES	SIZE mm ²	STRAND X DIA n x mm	INSULATION THICKNESS (mm)	INNER SHEATH THICKNESS (mm)	DIA. OVER INN SH. (mm)	SWA DIA Ø mm	DIA. OVER ARMOR (mm)	OUT. SHEATH THICKNESS (mm)	OVERALL DIA. (mm)	APPROX WEIGHT Kg/km
1	7614-12C00150-W0BK8-01	12C	1.5	7 X 0.53	0.6	0.8	13.9	1.25	16.4	1.5	19.5	762.0
2	7614-19C00150-W0BK8-01	19C	1.5	7 X 0.53	0.6	0.8	16.3	1.25	18.8	1.6	22.1	982.0
3	7614-07C00150-W0BK8-01	7C	1.5	7 X 0.53	0.6	0.8	10.6	0.9	12.4	1.4	15.2	453.0
4	7614-27C00150-W0BK8-01	27C	1.5	7 X 0.53	0.6	1.0	20.1	1.6	23.3	1.7	26.7	1430.0
5	7614-37C00150-W0BK8-01	37C	1.5	7 X 0.53	0.6	1.0	22.5	1.6	25.7	1.7	29.2	1738.0

Note:

1. The Marking on outer sheath shall be embossed and the text shall appear on two lines for above 15mm cable diameter and one line for 15mm & below cable diameter along the cable axis approximately equally spaced around the circumference. The letters & figures shall be upright block characters with a minimum height of 3 mm.
2. The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm & +/- 3.0mm above 30mm.