

Siechem

Wires & Cables

Sietherm 125 Flexible Single Core EBXL Cables

Sietherm 125 Flexible Single core Electron Beamed Cross Linked, Halogen-free very high and low temperature resistant cables are used for internal wiring for high rise Buildings, Shopping Malls, Public Buildings, Petro Chemical Plants, Fire prone areas, Fuel Dispensing Bunks, Airports, Crowded Public places, Schools, Power Stations, Sensor leads, Solenoid valves, Hospitals, Signal Systems, heaters, Lighting fixtures, Plant and Machinery, Outdoor Traffic systems, Motor Winding, White goods, Control panels, Switchboards & Industrial applications etc.

Salient Features

Operating temperature -40°C to $+125^{\circ}\text{C}$ (20,000 hours)

(Briefly -55°C to $+145^{\circ}\text{C}$)

Fire retardant and Halogen free

Weather resistant

High abrasion resistance

Ozone & UV resistant

Oil & grease resistant

High tracking resistance

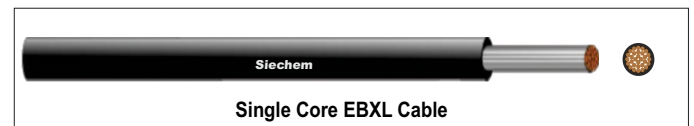
Easily strippable & very flexible

Hot pressure resistant

Soldering iron resistant

High current carrying capacity

Short Circuit resistance upto $+280^{\circ}\text{C}$ for 60 Sec.



Cable Construction

Conductor : Tinned Flexible Copper Conductor-Class 5 & Class 6 of EN 60228 (Bare Copper Conductor Optional)

Insulation : EBXL 125 Electron Beam Cross Linked Polyolefin compound

Colour : As per customer order



Siechem Wires & Cables Meet EU RoHS Directive						Halogen Free
Lead Free	Hg Free	Cd Free	Cr ⁶⁺ Free	PBB Free	PBDE Free	

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ELECTRON BEAM SINGLE CORE FLEXIBLE CABLES

Siechem EBXL insulation material has very low calorific value of combustion and do not support fire. This material contains low smoke, halogen free, no emission of corrosive gases and least toxic. The specially formulated material is suitable for a continuous operating temperature range of -40°C to +125°C and the high short circuit rating of more than 280°C enables with higher overloading capacity and significantly improved cable life, safety and trouble free services for decades. The cables have withstood at maximum continuous operating temperature of 125°C for 20,000 hours without deterioration of the insulation layer.

SIETHERM 125 SINGLE CORE FLEXIBLE CABLES

Part No.	Size (Sq.mm ²)	No. of Stands / Max. Stand Dia. (mm)	Nominal Insulation Thickness (mm)	Overall Cable Diameter		Max. DC Resistance at 20° C ATC (Ohm/Km)	Nom. Cable Weight (kg/km)	Current Rating (Amps)
				Min	Max			
18003XX*	0.25	19 X 0.13	0.4	1.35	1.55	85.9	4.8	9
18070XX*	0.34	19 X 0.16	0.4	1.5	1.7	52.1	6.1	15
18006XX*	0.5	19 X 0.19	0.4	1.6	1.8	40.1	7.2	19
18008XX*	0.75	24 X 0.21	0.5	2.1	2.3	26.7	11.0	24
18010XX*	1	32 X 0.21	0.6	2.5	2.7	20.0	14.8	29
18013XX*	1.5	30 X 0.26	0.6	2.6	2.8	13.7	20	36
18016XX*	2.5	50 X 0.26	0.7	3.4	3.6	8.21	32	49
18019XX*	4	56 X 0.31	0.7	3.95	4.25	5.09	47	66
18023XX	6	176 X 0.21	0.85	4.8	5.1	3.39	70	85
18027XX	10	288 X 0.21	0.85	6	6.3	1.95	103	121
18028XX	16	464 X 0.21	0.95	7.2	7.5	1.24	158	163
18030XX	25	720 X 0.21	1.1	8.7	9.1	0.795	240	219
18032XX	35	1008 X 0.21	1.2	10.1	10.5	0.565	330	272
18034XX	50	648 X 0.31	1.3	11.85	12.35	0.393	468	344
18037XX	70	928 X 0.31	1.5	14.15	14.65	0.277	649	439
18038XX	95	1256 X 0.31	1.6	15.7	16.3	0.210	860	523
18041XX	120	1592 X 0.31	1.9	18.3	18.9	0.164	1102	621
18042XX	150	1984 X 0.31	1.9	20.2	20.8	0.132	1355	723
18044XX	185	1400 X 0.41	2.0	21.9	22.5	0.108	1655	825
18046XX	240	1816 X 0.41	2.1	25.1	25.7	0.0817	2120	996
18048XX	300	2379 X 0.41	2.15	27.2	27.9	0.0654	2675	1150
18049XX	400	3172 X 0.41	2.15	30.7	31.4	0.0495	3430	1473

TECHNICAL DETAILS

ELECTRICAL & MECHANICAL PROPERTIES

S.No.	Parameters	Specified values.
1	Voltage Rating	600/1000 V
2	Operating Temperature	-40°C to 125°C
3	Short Circuit Temperature	280°C
4	Test Voltage	3.5 kV for 5 minutes
5	Ageing Temperature	150°C for 7 days
6	Minimum Bending radius Outer diameter ≤ 12 mm Outer diameter > 12 mm	3 X D 4 X D

FIRE PROPERTIES

S.No.	Parameters	Specified values.
1	Flammability	IEC 60332 - 1
2	Smoke Emission	> 70% Absorption
3	Toxicity Index EN 45545-2	< 6
4	Assessment of Halogen pH Conductivity	> 4.3 < 10 μS/mm
5	Amount of Halogen Acid Gas HCl & HBr HF	< 0.5 % < 0.1 %

TEST STANDARDS.

- Conductor : IEC / EN 60228, Class 6 / *Class 5
- Thermal ageing : EN / IEC 60811
- Environmental properties : BS EN / IEC 60811
- Flame propagation : BS EN / IEC 60332 -1, BS EN 50266

- Mineral / Fuel / Acid & Alkaline resistance : BSEN 50305
- Assessment of halogen : BS EN 50267 / IEC 754
- Smoke emission : BS EN 61034
- Toxicity : BS EN 50305

Note : Siechem wires meet EU RoHS norms.

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