

Siechem

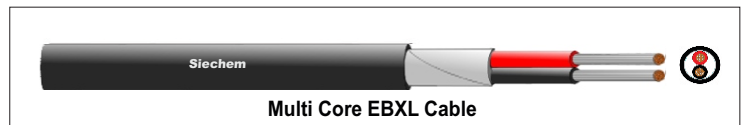
Wires & Cables

Sietherm 125 Flexible Multicore EBXL Cables

Sietherm 125 Flexible Multicore Electron Beam 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.

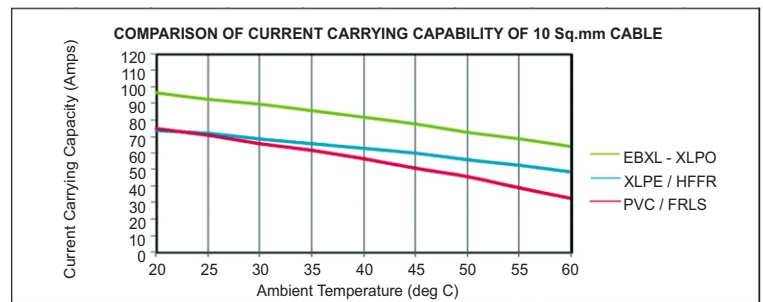
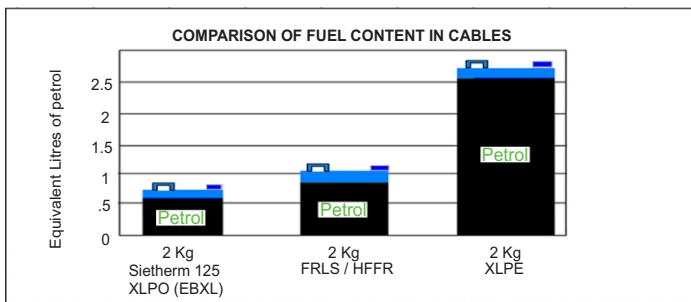
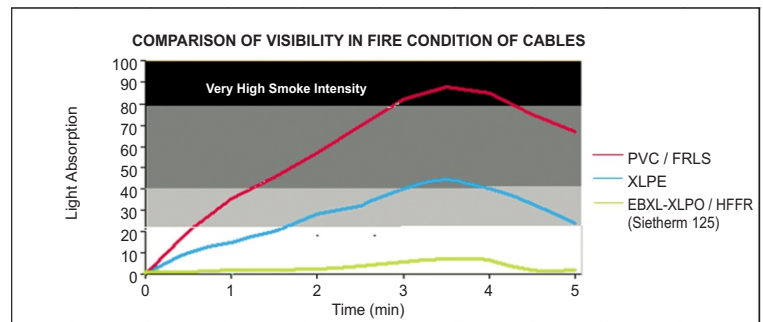
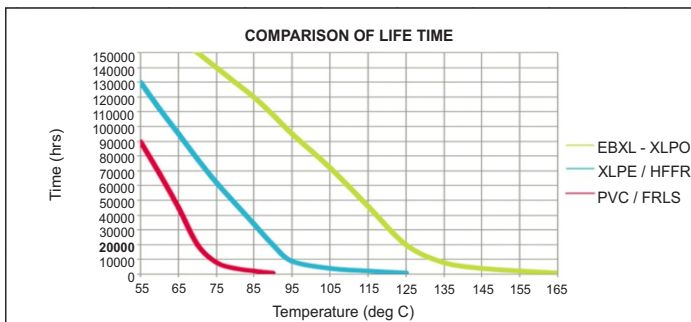
Salient Features

- Operating temperature -40°C to +125°C (20,000 hours)
(Briefly -55°C to +145°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°C for 60 Sec.



Cable Construction

- Conductor : Tinned Flexible Copper Conductor-Class 5 of EN 60228 (Bare Copper Conductor Optional)
- Insulation : EBXL 125 Electron Beam Cross Linked Polyolefin Compound
- Filler : Optional
- Separator : Polyester Tape
- Sheath : 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	

Siechem

Wires & Cables

ELECTRON BEAM CROSS-LINKED MULTICORE 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 $+125^{\circ}\text{C}$ 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 MULTICORE FLEXIBLE CABLES

Part Number	No. of Core X Size (NosxSq.mm)	No. of Strands / Nom. Strand Dia. (Nos/mm)	Maximum Diameter of Wire in Conductor (mm)	Nominal Insulation Thickness (mm)	Nominal Sheath Thickness (mm)	Overall Cable Diameter (mm)		Max. DC Resistance at 20°C ATC (Ohm/km)	Nom Weight (kg/km)
						Min	Max		
1810304	4 x 0.25	19/0.12	0.13	0.35	0.8	5.1	5.7	88.5	40
1810604	4 x 0.5	19/0.18	0.19	0.35	0.8	5.8	6.4	40.1	62
1810802	2 x 0.75	24/0.20	0.21	0.5	0.9	6.3	6.9	26.7	63
1810803	3 x 0.75	24/0.20	0.21	0.5	0.9	7.0	7.6	26.7	75
1810804	4 x 0.75	24/0.20	0.21	0.5	1.0	7.4	8.0	26.7	90
1810805	5 x 0.75	24/0.20	0.21	0.5	1.1	8.3	8.9	26.7	110
1811002	2 x 1	32/0.20	0.21	0.6	1.0	7.2	7.8	20.0	75
1811003	3 x 1	32/0.20	0.21	0.6	1.0	7.6	8.2	20.0	91
1811302	2 x 1.5	30/0.25	0.26	0.6	0.9	7.5	8.1	13.7	87
1811303	3 x 1.5	30/0.25	0.26	0.6	0.9	8.0	8.6	13.7	110
1811304	4 x 1.5	30/0.25	0.26	0.6	0.9	8.9	9.5	13.7	137
1811305	5 x 1.5	30/0.25	0.26	0.6	1.1	10.0	10.8	13.7	170
1811307	7 x 1.5	30/0.25	0.26	0.6	1.4	11.9	12.7	13.7	242
1811602	2 x 2.5	50/0.25	0.26	0.7	0.9	8.8	9.4	8.21	130
1811603	3 x 2.5	50/0.25	0.26	0.7	1.1	9.7	10.5	8.21	170
1811604	4 x 2.5	50/0.25	0.26	0.7	1.2	10.9	11.7	8.21	210
1811605	5 x 2.5	50/0.25	0.26	0.7	1.3	12.0	12.8	8.21	255
1811904	4 x 4	56/0.30	0.31	0.75	1.3	12.6	13.4	5.09	300
1811905	5 x 4	56/0.30	0.31	0.75	1.4	14.2	15.0	5.09	268
1812704	4 x 10	80/0.40	0.41	1.0	1.8	18.5	19.5	1.95	700
1812705	5 x 10	80/0.40	0.41	1.0	2.0	20.9	21.9	1.95	840

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 $< 10 \mu\text{S/mm}$
5	Amount of Halogen Acid Gas HCl & HBr HF	$< 0.5\%$ $< 0.1\%$

TEST STANDARDS.

- Conductor : IEC / EN 60228, 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.

HEAD OFFICE

26/27, Errabalu Chetty Street,
Chennai - 600 001. India.

Tel : +91 44 2522 6141 / 2522 0859

Fax : +91 44 2522 2871

Email: sales@siechem.com

Web : www.siechem.com

Siechem Technologies Pvt. Ltd.

Approvals	Accreditations	Certifications

Factories

Unit I

RS 104/8 & 105/7, Sedarapet Main Road,
Pondicherry - 605 101. India.

Unit II

RS 107/6 Sedarapet Main Road,
Pondicherry - 605 101. India.

Tel : +91 413 2671 070 / 2671 071

Email : admn@siechem.com

Web : www.siechem.com