Siechem

Wires & Cables

Sietherm 155 Flexible Multicore EBXL Class F Connecting leads

Sietherm 155 Flexible Multicore Electron Beam Cross Llinked, Halogen-free very high and low temperature resistant cables are designed for Coil winding, Motors, Transformers, Pumps, Magnets, Relays, Electromagnets, Sensor leads, Solenoid walls, Signal systems, Wind mills, Power stations and other Industrial applications.

Salient Features

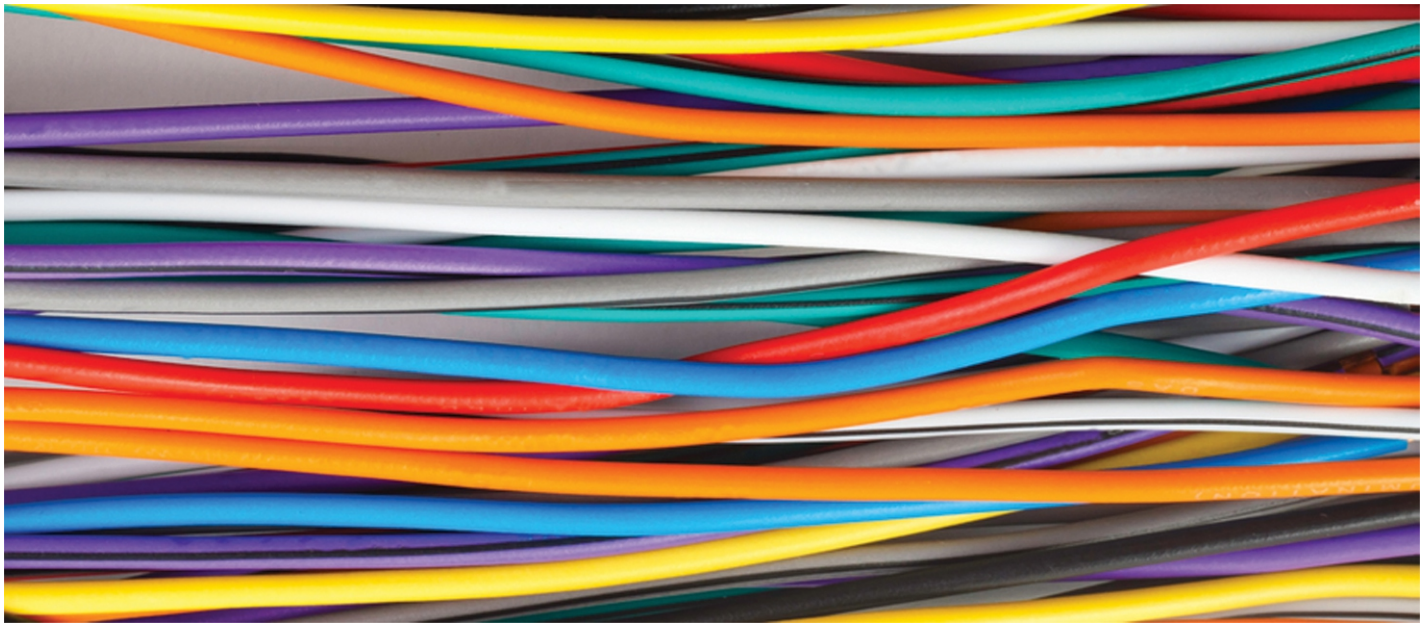
Operating temperature -55^{0}C to +155^{0}C
(Briefly -70^{0}C to +180^{0}C)
Compatible with all common insulating varnishes & impregnation of resins
Fire retardant and Halogen free
Weather resistant
High abrasion resistance
Ozone & UV resistant
Oil & grease resistant
High tracking resistance
Easily strippable & very flexible
Hot pressure resistant
Soldering iron resistant
High current carrying capacity
Short Circuit resistance upto +300^{0}C for 60 Sec.

Electron Beam Accelerator

Multi Core EBXL Cable

Cable Construction

Conductor	:	Tinned Flexible Copper Conductor-Class 5 of EN 60228 (Bare Copper Conductor Optional)
Insulation	:	Sietherm 155 Electron Beam Cross Linked Polyolefin Copolymer Compound
Filler	:	Optional
Separator	:	Polyester Tape
Sheath	:	Sietherm 155 Electron Beam Cross Linked Polyolefin Copolymer Compound
Colour	:	As Per Customer Order



Siechem Wires & Cables Meet EU RoHS Directive

Lead Free	Hg Free	Cd Free	Cr^{6+} Free	PBB Free	PBDE Free

www.siechem.com

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Sietherm 155°C
Class F Connecting leads

Sietherm 155 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 Polyolefin material is suitable for a continuous operating temperature range of -55°C to +155°C and the high short circuit rating upto 300°C, enables with higher overloading capacity and significantly improved cable life, safety and trouble free services for decades. The cables have withstood at continuous operating temperature of 155°C for 20,000 hours without deterioration of the insulation layer.

SIETHERM 155 MUITICORE 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		
1890304	4 x 0.25	19/0.12	0.13	0.35	0.8	5.1	5.7	85.9	40
1897003	3 x 0.34	19/0.15	0.16	0.35	0.8	4.8	5.4	57.2	36
1890602	2 x 0.5	19/0.18	0.19	0.35	0.8	4.9	5.5	40.1	36
1890603	3 x 0.5	19/0.18	0.19	0.35	0.9	5.3	5.9	40.1	45
1890608	8 x 0.5	19/0.18	0.19	0.35	1.1	8.45	9.05	40.1	108
1890616	16 x 0.5	19/0.18	0.19	0.35	1.1	10	10.8	40.1	185
1890803	3 x 0.75	24/0.20	0.21	0.5	0.7	6.4	7.0	26.7	61
1890804	4 x 0.75	24/0.20	0.21	0.5	0.9	7.2	7.8	26.7	82
1891002	2 x 1	32/0.20	0.21	0.6	0.8	6.7	7.3	20.0	65
1891003	3 x 1	32/0.20	0.21	0.6	0.9	7.3	7.9	20.0	83
1891302	2 x 1.5	30/0.25	0.26	0.6	0.8	7.2	7.8	13.7	78
1891303	3 x 1.5	30/0.25	0.26	0.6	0.8	7.6	8.2	13.7	98
1891304	4 x 1.5	30/0.25	0.26	0.6	0.9	8.5	9.1	13.7	127
1891305	5 x 1.5	30/0.25	0.26	0.6	0.9	9.7	10.5	13.7	161
1891603	3 x 2.5	50/0.25	0.26	0.65	1.1	9.6	10.2	8.21	156
1891604	4 x 2.5	50/0.25	0.26	0.65	1.2	10.6	11.4	8.21	200
1891605	5 x 2.5	50/0.25	0.26	0.65	1.2	11.5	12.3	8.21	249

TECHNICAL DETAILS

S.No.	Parameters	Values
1	Temperature Range	-55°C - + 155°C
2	**Voltages For Cross- Section ≥ 0.75 mm²** Rated Voltage Cond.Earth U_o Rated Voltage Cond.Cond U Maximum Permitted Operating Voltage Cond.Earth Maximum Permitted Operating Voltage Cond.Cond U_m Maximum Permitted Operating Voltage Cond.Earth V_o Maximum Permitted Operating Voltage Cond.Cond Test Voltage	 600 V AC 1000V AC 720 V AC 1200 V AC 900 V DC 1800 V DC 3500 V AC
3	**Voltages For Cross- Section < 0.75 mm²** Rated Voltage Cond.Earth U_o Rated Voltage Cond.Cond U Maximum Permitted Operating Voltage Cond.Earth Maximum Permitted Operating Voltage Cond.Cond. U_m Maximum Permitted Operating Voltage Cond.Earth V_o Maximum Permitted Operating Voltage Cond.Cond Test Voltage	 450 V AC 750 V AC 480 V AC 825 V AC 620 V DC 1240 V DC 2500 V AC
4	Minimum Bending Radius: Outer Diameter ≤ 12mm Outer Diameter > 12mm	3 X D 4 X D
5	Nominal Voltage	Minimum ≤0.5 mm² = 450/750 V ≥0.75 mm² = 600/1000 V
6	Test Voltage	Minimum ≤0.5 mm² = 2500 V ≥0.75 mm² = 3500 V

Fire Test:-

- Assessment of Halogen : EN 50267-2-2
- Toxicity : EN 50305
- Smoke Emission : EN 61034 P-2
- Flame Propagation : EN 60332 P-1
- Siechem Wires meet EU RoHS norms.
- Conductor : Class 5 EN 60228
- Thermal Ageing : 180°C for 10 days
- Cold Bend Test : EN 60811 P-1
- Abrasion Resistance : EN 50305
- Fuel / Mineral / Acid & Alkaline Resistance : EN 50305

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Approvals	Accreditations	Certifications

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