

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°C to +155°C
(Briefly -70°C to +180°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°C for 60 Sec.



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
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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 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		
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	Voltagess For Cross- Section ≥ 0.75 mm² Rated Voltage Cond.Earth U ₀ 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 ₀ Maximum Permitted Operating Voltage Cond.Cond	600 V AC 1000V AC 720 V AC 1200 V AC 900 V DC 1800 V DC 3500 V AC
3	Voltagess For Cross- Section < 0.75 mm² Rated Voltage Cond.Earth U ₀ Rated Voltage Cond. U Maximum Permitted Operating Voltage Cond.Earth Maximum Permitted Operating Voltage Cond. U _m Maximum Permitted Operating Voltage Cond.Earth V ₀ Maximum Permitted Operating Voltage Cond.Cond	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 mm ² = 450/750 V ≥0.75 mm ² = 600/1000 V
6	Test Voltage	Minimum ≤0.5 mm ² = 2500 V ≥0.75 mm ² = 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

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 & Licenses											
ISO 9001	ISO 14001	IAFT 16949	OHSAS 18001	AS 9100	ISO 45001	UL	CE	RA	RS	TUV	RDSO
Ugadi Register	ESMA	INZ Indian Navy	CE	REACH	RAHS	IRS	DDQA				

FACTORY

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

Tel : +91 413 2671 070 / 2671 071

Fax : +91 413 2671 072

Email : admn@siechem.com

Web : www.siechem.com