

Siechem

Wires & Cables

PW 125 EBXL ZHLS + FR + HR + 125°C 1100 V Single and Multicore Flexible Cables

PW 125 Flexible Single and 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)

Flame retardant and Halogen free, Very low smoke

Non Toxic

Weather resistant

High abrasion resistance

Ozone & UV resistant

Oil & grease resistant

High tracking resistance

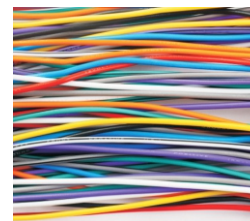
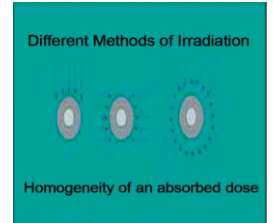
Easily strippable & very flexible

Hot pressure resistant

Soldering iron resistant

High current carrying capacity

Short Circuit resistance upto +280°C for 60 sec.



Cable Construction (Generally as per IS 694, FRLS)

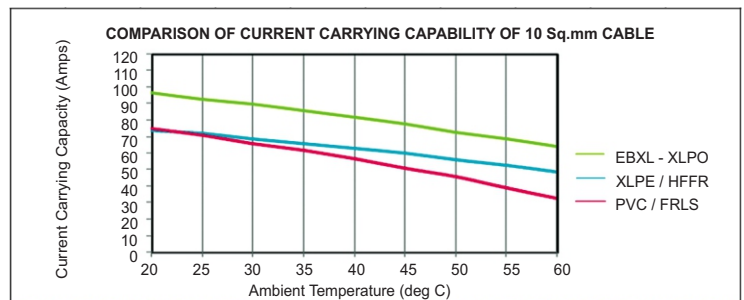
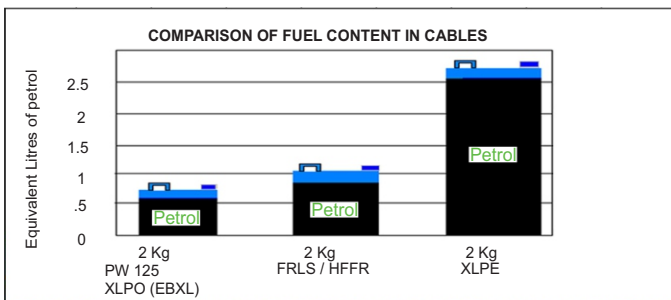
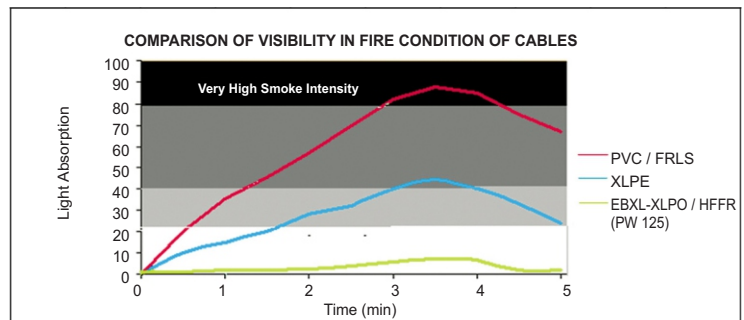
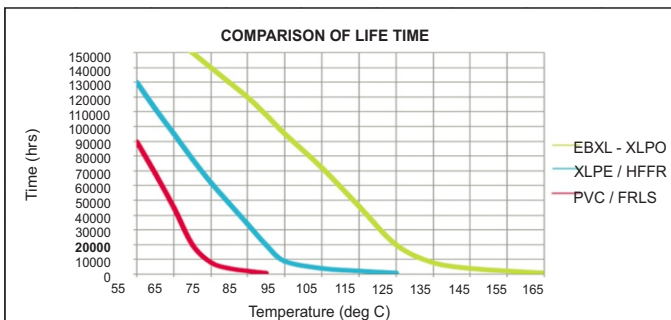
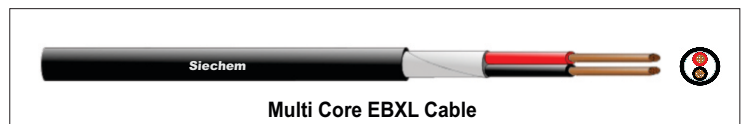
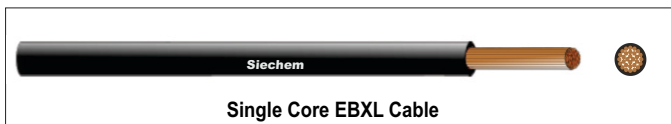
Conductor : Flexible Bare Copper Conductor as per IS 8130, BS 6360, IEC 60228 & BS EN 60228

Insulation : EBXL - ZHLS + FR+HR + 125°C

Separator : Polyester Tape (for multicore cable)

Sheath : EBXL - ZHLS + FR+HR + 125°C (for multicore cable)

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	

ELECTRON BEAM CROSS-LINKED SINGLE AND 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°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.

PW125 SINGLE CORE FLEXIBLE CABLES

Part No	Size	No. of Strands /Nom. Strand dia.	Nominal Insulation thickness	Maximum Overall Cable Diameter	Max. DC resistance at 20° C	Current Rating
	mm ²	Nos/mm	mm	mm	(Ω/km)	Amps
11206XX	0.5	16/0.20	0.6	2.6	39.0	21
11208XX	0.75	24/0.20	0.6	2.8	26.0	24
11210XX	1	32/0.20	0.6	3.0	19.5	29
11213XX	1.5	30/0.25	0.6	3.4	13.3	36
11216XX	2.5	50/0.25	0.7	4.1	7.98	49
11219XX	4	56/0.30	0.8	4.8	4.95	66
11223XX	6	84/0.30	0.8	5.3	3.30	85
11227XX	10	80/0.40	1.0	7.0	1.91	121
11228XX	16	126/0.40	1.0	8.1	1.21	163
11230XX	25	196/0.40	1.2	10.2	0.780	219
11232XX	35	276/0.40	1.2	11.7	0.554	272
11234XX	50	396/0.40	1.4	13.9	0.386	344
11237XX	70	360/0.50	1.4	16.0	0.272	439
11238XX	95	475/0.50	1.6	18.2	0.206	523
11241XX	120	608/0.50	1.6	20.2	0.161	621
11242XX	150	756/0.50	1.8	22.5	0.129	723
11244XX	185	925/0.50	2.0	24.9	0.106	825
11246XX	240	1221/0.50	2.2	28.4	0.0801	996
11248XX	300	1525/0.50	2.4	31.0	0.0641	1150

Other Brands PVC / FR / FRLS Current Rating
Amps
4
7
12
16
22
29
37
51
65
90
110
137
215
260
305
355
415
500
585

PW 125 MULTICORE FLEXIBLE CABLES

Current rating	3 & 4 Core	2 Core	1 Core	Max. DC resistance at 20° C	Maximum Overall diameter	Nominal Sheath thickness	Nom. Insulation thickness	No. of strands / Nom. Wire dia	Nominal Area	Part Number
	Amp	Amp	Amp	ohm/km	mm	mm	mm	No./mm	Sq. mm	
	17	19	23	26.0	8.4	0.9	0.6	24/0.20	0.75	13508XX
	20	23	29	19.5	8.8	0.9	0.6	32/0.20	1.0	13510XX
	25	29	39	13.3	10.4	1.0	0.6	30/0.25	1.5	13513XX
	34	39	53	7.98	12.0	1.0	0.7	50/0.25	2.5	13516XX
	46	53	68	4.95	13.6	1.0	0.8	56/0.30	4	13519XX
	60	68	97	3.30	15.5	1.2	0.8	84/0.30	6	13523XX
	85	97	130	1.91	19.5	1.4	1.0	80/0.40	10	13527XX
	114	130	175	1.21	23.0	1.4	1.0	126/0.40	16	13528XX
	153	175	218	0.780	25.6	1.5	1.2	196/0.40	25	13530XX
	190	218	275	0.554	29.3	1.6	1.2	276/0.40	35	13532XX
	241	275	346	0.386	34.6	2.0	1.4	396/0.40	50	13534XX

ELECTRICAL & MECHANICAL PROPERTIES

S.No.	Parameters	Specified values.
1	Voltage Rating	1100 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

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

Note:

- Siechem wires meet EU RoHS norms.
- Current rating calculated at ambient air temperature of 30°C
- PW 125 is 1.1kV grade. For CE marking, UL/CSA approved for less than 1.1 kV, Please send RFQ with UL/CSA style nos to quote.

Note : XX* :For Singlecore, please add last two digits in the part number as per the colour code given hereunder replacing XX while ordering.

Red - 01	Yellow - 02	Blue - 03	Black - 04	Green - 05	Yellow-Green - 06	Grey - 07	Brown - 08	White - 09	Orange - 10	Violet - 11
Chocolate - 12	Tan - 13	Charcoal - 14	LT Blue - 15	DK Grey - 16	LT Green - 17	DK Green - 18	DK Blue - 19	Purple - 20	Pink - 21	Green-Yellow-29

Note : XX* : For Multicore, please add last two digits in the part number as per the number of cores given hereunder replacing XX while ordering.

Two core - 02	Three core - 03	Four core - 04
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TECHNICAL DETAILS

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 %

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

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Siechem
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Approvals & Licenses											
ISO 9001	ISO 14001	IATF 16949	OHSAS 18001	AS 9100	ISO 45001	UL	CE	BS	TUV	ROSO	DOQA
BSI	ESMA	INDIAN	CE	REACH	RoHS	BS	BS	BS	BS	BS	BS

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