

## 3.5 & 4 Core Copper Conductor EBXL-XLPE 120°C Insulated, HR PVC Sheathed, (UA) UV Resistant Power Cable

### Construction:

- Conductor : Annealed Plain Copper conductor complying with IS : 8130 - 1984  
 Insulation : Electron Beam Cross Linked Polyethylene 120°C  
 Jacket : PVC ST 2 & UV Resistant complying with IS : 5831 - 1984. (Colour Black)  
 Optional : 105°C HR PVC (UV)  
 Specification : IS : 7098 (P-1) / 1988 (with enhanced operating temperature)

### Applications

- PV Power cables  
 Transmission and distribution of Power  
 Industrial units  
 Commercial and residential places  
 Indoor and outdoor uses  
 Cable ducts, cable trays and conduits  
 Direct burial.

### Technical Data

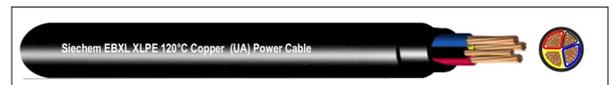
- Operating Temperature : -15°C to +120°C  
 High Insulation resistance at elevated temperature  
 Short Circuit Temperature : 250°C  
 Bending radius (min) : 12 x Cable dia  
 Test Voltage : 3 kV for 5 mins.

**Siechem**  
 offers 120°C  
 EBXL XLPE as against 90°C  
 offered by rest of the  
 competition

### Features

- Electron Beam Cross Linked. Does not melt or drip  
 Enhanced Mechanical, Electrical, Thermal & Weathering properties.  
 Flame retardant  
 Excellent UV and Ozone resistant.  
 Specially designed for PV Power cable segment.

<b>ISO 9001</b>	<b>ISO 14001</b>	<b>OHSAS 18001</b>	<b>AS 9100</b>	<b>ISO 45001</b>	<b>TUV</b> 
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Part Number	Cond Area	Cond. Min. No. of Wires		Thickness of EBXL XLPE Insulation (Nom.)		Min. Thickness of PVC Inner Sheath		Thickness of Outer Sheath (Nom.)		Approx. Overall Diameter		Approx. Net Wt. of Cable		Max. D.C Resistance at 20°C	Approx. Capacitance per phase		Current Rating For EBXL - XLPE Cables (120°C)						Short Circuit Rating for 1sec
		Sq.mm	Nos	mm		mm		mm		mm		Kg/Km			Ohm/Km	µF/Km		Direct in Ground		In Duct		In Air	
			3.5Core	4Core	3.5Core	4Core	3.5Core	4Core	3.5Core	4Core	3.5Core	4Core	3.5Core	4Core		3.5Core	4Core	Amps		Amps		Amps	
662E13XX*	1.5		1		0.7		0.3		1.8		12		200	12.1		0.15		33		26		27	0.21
662E16XX	2.5		1		0.7		0.3		1.8		13		250	7.41		0.18		44		37		38	0.36
662E19XX	4		1		0.7		0.3		1.8		15		260	4.61		0.22		55		47		49	0.57
662E23XX	6		1		0.7		0.3		1.8		16		350	3.08		0.25		69		57		64	0.86
663E27XX	10		6		0.7		0.3		1.8		18		500	1.83		0.31		92		74		88	1.4
663W28XX	16		6		0.7		0.3		1.8		19		760	1.15		0.36		118		97		118	2.3
663W30XX	25	6	6	0.9	0.9	0.3	0.3	2.0	2.0	22.0	22	1033	1200	0.727	0.41	0.41	151	151	123	123	151	151	3.6
663W32XX	35	6	6	0.9	0.9	0.3	0.3	2.0	2.0	24.0	25	1410	1578	0.524	0.47	0.47	183	183	149	149	199	199	5.0
663W34XX	50	6	6	1.0	1.0	0.3	0.3	2.0	2.0	27.0	28	1848	2049	0.387	0.50	0.50	215	215	174	174	228	228	7.1
663W37XX	70	12	12	1.1	1.1	0.4	0.4	2.2	2.2	32.0	32	2629	2969	0.268	0.53	0.53	267	267	215	215	291	291	10.0
663W38XX	95	15	15	1.1	1.1	0.4	0.4	2.2	2.2	35.0	35	3416	3910	0.193	0.61	0.61	316	316	255	255	352	352	13.6
663W41XX	120	18	18	1.2	1.2	0.5	0.5	2.2	2.4	38.0	39	4330	4854	0.153	0.63	0.63	360	360	287	287	410	410	17.1
663W42XX	150	18	18	1.4	1.4	0.5	0.5	2.4	2.6	42.0	44	5290	6050	0.124	0.64	0.64	407	407	324	324	472	472	21.4
663W44XX	185	30	30	1.6	1.6	0.5	0.5	2.6	2.8	47.0	48	6595	7440	0.0991	0.65	0.65	456	456	362	362	540	540	26.4
663W46XX	240	34	34	1.7	1.7	0.6	0.6	2.8	3.0	54.0	54	8448	9620	0.0754	0.66	0.66	527	527	417	417	637	637	34.3
663W48XX	300	34	34	1.8	1.8	0.6	0.7	3.0	3.2	57.0	60	10347	12100	0.0601	0.67	0.67	593	593	470	470	735	735	42.9
663W49XX	400	53	53	2.0	2.0	0.7	0.7	3.4	3.6	65.0	66	13930	15800	0.0470	0.67	0.67	660	660	523	523	816	816	57.1

Note : To identify the number of cores in the cables, replace XX by 3H - for 3.5 Core Cable & 04 - for 4 Core Cable.

