

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

### Construction:

- Conductor : Annealed Plain Copper conductor complying with IS : 8130 - 1984  
 Insulation : Electron Beam Cross Linked Polyethylene 120°C  
 Armour : Galvanised mild steel round wire / flat strip  
 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)

Also as per BS 5467 but, with 120°C Operating temperature

### 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

### 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.

### 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.

ISO 9001	ISO 14001	OHSAS 18001	AS 9100	ISO 45001	TUV
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Part Number	Cond Area Sq.mm	Cond. Min. No. of Wires		Thickness of EBXL XLPE Insulation (Nom.)		Min. Thickness of PVC Inner Sheath		Dimension of Arm Wire / Strip (Nom.)		Thickness of Outer Sheath (Min.)		Approx. Overall Diameter		Approx. Net Wt. of Cable		Max. D.C Resistance at 20°C Ohm/Km	Approx. Capacitance per phase		Current Rating For EBXL - XLPE Cables (120°C)						Short Circuit Rating for 1 sec KA
		Nos		mm		mm		mm		mm		Kg/Km		µF/Km			Direct in Ground		In Duct		In Air				
		Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps		Amps	Amps	Amps	Amps	Amps	Amps			
666ER13XX	1.5	3.5Core	4Core	0.7	0.3	3.5Core	4Core	3.5Core	4Core	1.4	1.24	15	458	12.1	0.15	33	33	26	27	0.21					
666ER16XX	2.5	1	0.7	0.3	1.4	1.24	16	549	7.41	0.18	44	37	38	0.36											
666ER19XX	4	1	0.7	0.3	1.4	1.24	17	680	4.61	0.22	55	47	49	0.57											
666ER23XX	6	1	0.7	0.3	1.4	1.24	18	790	3.08	0.25	69	57	64	0.86											
667ER27XX	10	6	0.7	0.3	1.4	1.4	20	1030	1.83	0.31	92	74	88	1.4											
667WF28XX	16	6	0.7	0.3	4x0.8	1.4	21	1070	1.15	0.36	118	97	118	2.3											
667WF30XX	25	6	6	0.9	0.9	0.3	0.3	4x0.8	4x0.8	1.40	1.4	23.0	24	1409	1532	0.727	0.41	0.41	151	151	123	123	151	151	3.6
667WF32XX	35	6	6	0.9	0.9	0.3	0.3	4x0.8	4x0.8	1.40	1.4	25.0	26	1765	1982	0.524	0.47	0.47	183	183	149	149	199	199	5.0
667WF34XX	50	6	6	1.0	1.0	0.3	0.3	4x0.8	4x0.8	1.40	1.56	28.0	29	2320	2507	0.387	0.50	0.50	215	215	174	174	228	228	7.1
667WF37XX	70	12	12	1.1	1.1	0.4	0.4	4x0.8	4x0.8	1.56	1.56	33.0	33	3112	3459	0.268	0.53	0.53	267	267	215	215	291	291	10.0
667WF38XX	95	15	15	1.1	1.1	0.4	0.4	4x0.8	4x0.8	1.56	1.56	36.0	36	4018	4462	0.193	0.61	0.61	316	316	255	255	352	352	13.6
667WF41XX	120	18	18	1.2	1.2	0.4	0.5	4x0.8	4x0.8	1.72	1.72	39.0	40	5035	5560	0.153	0.63	0.63	360	360	287	287	410	410	17.1
667WF42XX	150	18	18	1.4	1.4	0.5	0.5	4x0.8	4x0.8	1.72	1.88	44.0	45	5950	6768	0.124	0.64	0.64	407	407	324	324	472	472	21.4
667WF44XX	185	30	30	1.6	1.6	0.5	0.5	4x0.8	4x0.8	1.88	2.04	49.0	50	7340	8264	0.0991	0.65	0.65	456	456	362	362	540	540	26.4
667WF46XX	240	34	34	1.7	1.7	0.6	0.6	4x0.8	4x0.8	2.04	2.20	56.0	56	9400	10373	0.0754	0.66	0.66	527	527	417	417	637	637	34.3
667WF48XX	300	34	34	1.8	1.8	0.6	0.7	4x0.8	4x0.8	2.20	2.36	59.0	62	11237	12940	0.0601	0.67	0.67	593	593	470	470	735	735	42.9
667WF49XX	400	53	53	2.0	2.0	0.7	0.7	4x0.8	4x0.8	2.52	2.68	67.0	68	14720	16981	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.

