

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

### Construction:

- Conductor : Aluminium conductor complying with IS : 8130 - 1984  
 Insulation : Electron Beam Cross Linked Polyethylene 120°C  
 Armour : Galvanised mild steel wire / strips  
 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.

### 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.

### 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

<b>ISO</b> <b>9001</b>	<b>ISO</b> <b>14001</b>	<b>OHSAS</b> <b>18001</b>	<b>AS</b> <b>9100</b>	<b>ISO</b> <b>45001</b>	<b>TUV</b> 
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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		Diameter 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 µF/Km	Current Rating For EBXL - XLPE Cables (120°C)						Short Circuit Rating for 1 sec KA
		Nos		mm		mm		mm		mm		Kg/Km		Amps				Amps		Amps				
		3.5Core	4Core	3.5Core	4Core	3.5Core	4Core	3.5Core	4Core	3.5Core	4Core	3.5Core	4Core	3.5Core	4Core			3.5Core	4Core	3.5Core	4Core	3.5Core	4Core	
656ER19XX	4		1	0.7	0.3			1.4		1.24		17		570		7.41	0.22	44	37	38	0.38			
656ER23XX	6		1	0.7	0.3			1.4		1.24		18		650		4.61	0.25	54	45	49	0.57			
656ER27XX	10		1	0.7	0.3			1.4		1.4		20		770		3.08	0.31	71	59	69	0.94			
657WF28XX	16		6	0.7	0.3			4x0.8		1.4		21		730		1.91	0.36	92	76	91	1.5			
657WF30XX	25	6	6	0.9	0.9	0.3	0.3	4x0.8	4x0.8	1.4	1.4	23.0	24	870	950	1.20	0.41	117	117	97	97	114	114	2.4
657WF32XX	35	6	6	0.9	0.9	0.3	0.3	4x0.8	4x0.8	1.4	1.4	25.0	26	1000	1100	0.868	0.47	141	141	116	116	142	142	3.3
657WF34XX	50	6	6	1.0	1.0	0.3	0.3	4x0.8	4x0.8	1.4	1.56	28.0	29	1250	1320	0.641	0.50	168	168	136	136	173	173	4.7
657WF37XX	70	12	12	1.1	1.1	0.4	0.4	4x0.8	4x0.8	1.56	1.56	33.0	33	1600	1730	0.443	0.53	207	207	168	168	221	221	6.6
657WF38XX	95	15	15	1.1	1.1	0.4	0.4	4x0.8	4x0.8	1.56	1.56	36.0	36	1940	2130	0.320	0.61	246	246	199	199	269	269	9.0
657WF41XX	120	15	15	1.2	1.2	0.4	0.5	4x0.8	4x0.8	1.72	1.72	39.0	40	2350	2650	0.253	0.63	278	278	224	224	311	311	11.3
657WF42XX	150	15	15	1.4	1.4	0.5	0.5	4x0.8	4x0.8	1.72	1.88	44.0	45	2700	3080	0.206	0.64	315	315	255	255	360	360	14.2
657WF44XX	185	30	30	1.6	1.6	0.5	0.5	4x0.8	4x0.8	1.88	2.04	49.0	50	3300	3700	0.164	0.65	354	354	284	284	411	411	17.5
657WF46XX	240	30	30	1.7	1.7	0.6	0.6	4x0.8	4x0.8	2.04	2.20	56.0	56	4150	4700	0.125	0.66	408	408	326	326	484	484	22.6
657WF48XX	300	30	30	1.8	1.8	0.6	0.7	4x0.8	4x0.8	2.20	2.36	59.0	62	4950	5590	0.100	0.67	462	462	369	369	558	558	28.3
657WF49XX	400	53	53	2.0	2.0	0.7	0.7	4x0.8	4x0.8	2.52	2.68	67.0	68	6180	6950	0.0778	0.67	513	513	410	410	619	619	37.7

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

