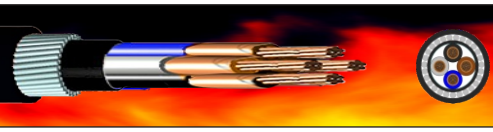
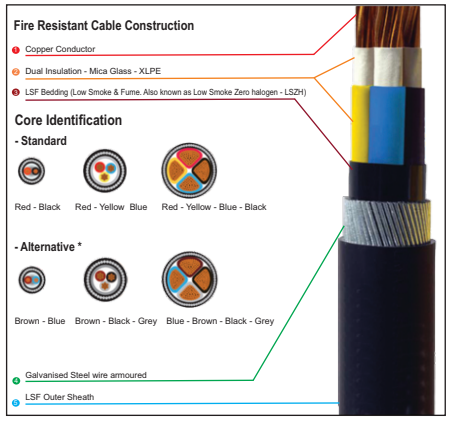


Enhanced Electron Beam Cross Linked Armoured Fire Resistant Cables - FRX 400+

Application

- ✓ Metro Rail, Airport, Schools, Shopping malls, Cinemas, High-rise Buildings and fire prone areas.
- ✓ Indoor and Outdoor uses.

Product Construction



Technical Data

- ✓ Temperature Range : -15°C to +120°C
- ✓ Rated Voltage (U_0/U) : 600/1000V
- ✓ Test Voltage : 3.5kV/5 min
- ✓ Bending Radius : Upto 8 of Cable X OD
- ✓ Specification : BS 7846 & BS 6387

Core Identification

Features

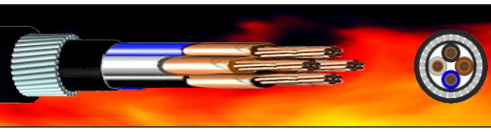
- ✓ Flammability : IEC 60332-1 & IEC 60332-3 Categories A, B & C
- ✓ Resistance to Fire : CWZ of BS : 6387, IEC 60331 & F-2 of BS : 7846
- ✓ Smoke Emission : IEC 61034 - 1 & 2
- ✓ Acid Gas Content : IEC 60754 -1 & 2, BS EN 50267 - 1 & 2
- ✓ **Special Features :**

a) Maintains Circuit Integrity for 3 hours under fire condition.
b) Zero Halogen, Low Smoke and Resistance to flame propagation.
c) Siechem FRX 400+ meets BS 7846 Cat F2 and meets Test requirements as per BS 6387 CWZ, at an enhanced voltage of 600/1000V.
d) Siechem FRX 400+ also meets 60 minute rating (PH60) to BS EN 50200 and a 30 minute rating to BS 8434-1. These tests demonstrate that FRX 400+ also meets the requirements for use in "Standard" installations in accordance with BS 5839-1 : 2002 for fire detection and alarm systems, and Cables with inherently high resistance to attack by fire in accordance with BS 5266-1 : 2005 for emergency lighting.

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

ISO 9001 | ISO 14001 | AS 9100 | ISO 45001 | REACH | RoHS | CE

Part Number	Area mm²	Nominal Diameter of Armour wires mm	Approximate Diameter under Armour mm	Approximate Overall Diameter mm	Approximate Cable Weight Kg/km	Maximum Conductor Resistance at 20°C ohms/km	Current Rating for 120°C Operating Temperature (Calculated for 40°C Ambient Air Temperature)			Voltage Drop Three Phase AC mV/A/m	Short Circuit Rating (1 sec) of Conductor KA
							Direct in Ground Amps	In Duct Amps	In Air Amps		
Two Core											
7221302	1.5	0.9	8.3	12.9	310	12.1	43	39	38	31.0	0.20
7221602	2.5	0.9	9.6	14.1	380	7.41	56	51	51	19.0	0.35
7221902	4	0.9	10.6	15.2	450	4.61	73	65	65	12.0	0.57
7222302	6	0.9	12.0	16.4	530	3.08	92	83	79	7.9	0.86
7222702	10	0.9	14.0	18.6	630	1.83	120	108	104	4.7	1.4
7222802	16	0.9	15.9	21.4	920	1.15	151	135	134	2.9	2.2
7223002	25	1.25	18.3	23.7	1200	0.727	198	178	173	1.90	3.6
7223202	35	1.6	20.9	27.2	1600	0.524	234	211	203	1.35	5.0
7223402	50	1.6	21.2	28.0	2000	0.387	273	255	281	1.00	7.1
7223702	70	1.6	23.7	30.7	2400	0.268	343	309	317	0.69	10.0
7223802	95	2.0	27.3	35.3	3300	0.193	408	368	387	0.52	13.6
7224102	120	2.0	28.4	36.6	3800	0.153	451	417	432	0.42	17.2
7224202	150	2.0	30.9	39.3	4400	0.124	511	472	495	0.35	21.4
7224402	185	2.5	34.4	44.2	5700	0.0991	576	530	576	0.29	26.5
7224602	240	2.5	38.0	48.0	7200	0.0754	660	606	680	0.24	34.3
7224802	300	2.5	41.6	51.8	8300	0.0601	745	683	770	0.21	42.9
7224902	400	2.5	45.3	55.9	10500	0.047	803	770	872	0.19	57.2
Three Core											
7221303	1.5	0.9	8.8	13.4	340	12.1	33	30	29	27.0	0.20
7221603	2.5	0.9	10.2	14.8	430	7.41	44	40	39	16.0	0.35
7221903	4	0.9	11.5	16.1	510	4.61	57	52	52	10.0	0.57
7222303	6	0.9	12.8	17.4	620	3.08	72	65	65	6.8	0.86
7222703	10	1.25	14.8	20.3	930	1.83	95	86	82	4.0	1.4
7222803	16	1.25	17.1	22.8	1210	1.15	126	113	117	2.5	2.2
7223003	25	1.6	20.8	27.4	1800	0.727	159	143	143	1.65	3.6
7223203	35	1.6	22.4	29.2	2100	0.524	190	170	182	1.15	5.0
7223403	50	1.6	26.2	33.0	2600	0.387	224	202	211	0.87	7.1



Part Number	Area mm^2	Nominal Diameter of Armour wires mm	Approximate Diameter under Armour mm	Approximate Overall Diameter mm	Approximate Cable Weight Kg/km	Maximum Conductor Resistance at 20°C ohms/km	Current Rating for 120°C Operating Temperature (Calculated for 40°C Ambient Air Temperature)			Voltage Drop Three Phase AC mV/A/m	Short Circuit Rating (1 sec) of Conductor KA
							Direct in Ground Amps	In Duct Amps	In Air Amps		
7223703	70	1.6	30.0	37.0	3400	0.268	274	247	257	0.60	10.0
7223803	95	2.0	32.4	40.6	4500	0.193	329	296	312	0.45	13.6
7224103	120	2.0	35.4	43.8	5500	0.153	373	335	359	0.37	17.2
7224203	150	2.5	38.4	48.0	6900	0.124	417	376	413	0.30	21.4
7224403	185	2.5	42.2	52.0	8200	0.0991	469	423	476	0.26	26.5
7224603	240	2.5	46.9	57.1	10200	0.0754	541	486	211	0.21	34.3
7224803	300	2.5	52.6	63.0	12200	0.0601	603	543	624	0.185	42.9
7224903	400	2.5	58.7	69.5	15000	0.047	677	610	710	0.165	57.2
Four Core											
7221304	1.5	0.9	9.7	14.3	390	12.1	33	30	29	27.0	0.20
7221604	2.5	0.9	11.4	16.0	490	7.41	44	40	39	16.0	0.35
7221904	4	0.9	12.7	17.3	590	4.61	57	52	52	10.0	0.57
7222304	6	1.25	14.1	19.6	830	3.08	72	65	65	6.8	0.86
7222704	10	1.25	16.3	21.8	1040	1.83	95	86	82	4.0	1.4
7222804	16	1.25	18.9	24.6	1370	1.15	126	113	117	2.5	2.2
7223004	25	1.6	22.5	29.1	2100	0.727	159	143	143	1.65	3.6
7223204	35	1.6	25.4	32.2	2500	0.524	190	170	182	1.15	5.0
7223404	50	1.6	28.0	35.0	3200	0.387	224	202	211	0.87	7.1
7223704	70	2.0	32.0	40.2	4500	0.268	274	247	257	0.60	10.0
7223804	95	2.0	35.6	44.0	5600	0.193	329	296	312	0.45	13.6
7224104	120	2.5	38.8	48.4	7200	0.153	373	335	359	0.37	17.2
7224204	150	2.5	42.7	52.5	8500	0.124	417	376	413	0.30	21.4
7224404	185	2.5	46.9	57.1	10300	0.0991	469	423	476	0.26	26.5
7224604	240	2.5	52.3	62.7	12800	0.0754	541	486	211	0.21	34.3
7224804	300	2.5	58.8	69.6	15600	0.0601	603	543	624	0.185	42.9
7224904	400	3.15	65.3	78.0	20400	0.0470	677	610	710	0.165	57.2