

Enhanced Electron Beam Cross Linked Unarmoured Fire Resistant Cables - FRX 200+

Application

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

Product Construction

- ✓ Conductor : Plain annealed Copper solid or stranded circular conductor complying with BS 6360 class 1 or 2.
- ✓ Insulation : Dual Insulation Mica Glass - XLPE
- ✓ Bedding : Polymeric LSOH Material
- ✓ Outer Sheath : Robust Polymeric LSOH Material

Technical Data

- ✓ Temperature Range : -15°C to +120°C
- ✓ Rated Voltage (U₀/U) : 600/1000V
- ✓ Test Voltage : 3.5kV/5 min
- ✓ Bending Radius : Upto 8 of Cable X OD
- ✓ Specification : Gen. BS 7846 & BS 6387

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

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

✓ **Special Features :**

- Maintains Circuit Integrity for 3 hours under fire condition.
- Zero Halogen, Low Smoke and Resistance to flame propagation.
- Siechem FRX 200+ meets BS 7846 Cat F2 and meets Test requirements as per BS 6387 CWZ, at an enhanced voltage of 600/1000V.
- Siechem FRX 200+ also meets 60 minute rating (PH60) to BS EN 50200 and a 30 minute rating to BS 8434-1. These tests demonstrate that FRX 200+ 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.

Approvals	Accreditations	Certifications

Part Number	Area mm ²	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 DC or Single 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									
7191002	1.0	10.3	135	18.1	34	31	31	44	0.14
7191302	1.5	10.8	154	12.1	43	39	38	29	0.20
7191602	2.5	11.6	188	7.41	56	51	51	18	0.35
7191902	4	13.1	248	4.61	73	65	65	11	0.57
Three Core									
7191003	1.0	10.7	150	18.1	25	22	21	44	0.14
7191303	1.5	11.3	172	12.1	33	30	29	29	0.20
7191603	2.5	12.1	215	7.41	44	40	39	18	0.35
7191903	4	13.8	287	4.61	57	52	52	11	0.57
Four Core									
7191004	1.0	11.4	170	18.1	25	22	21	44	0.14
7191304	1.5	12.1	198	12.1	33	30	29	29	0.20
7191604	2.5	13.0	251	7.41	44	40	39	18	0.35
7191904	4	14.9	340	4.61	57	52	52	11	0.57

** We have obtained various approvals, accreditations, and certifications — some of which may not be relevant to this catalog.

