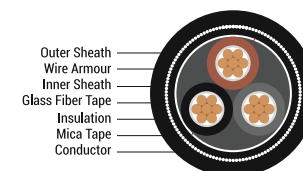


FIRE SURVIVAL CABLES

UNYIELDING BACKBONE
OF YOUR FIRE SYSTEM

FIRE SURVIVAL CABLE (BS 7846)

REACH | RoHS | CE | CPR Compliant



APPLICATION

These cables offer the advantages of an armoured 600/1000V rated, low smoke zero halogen (LSZH) cable with circuit integrity. They are intended for use in installations where vital circuits are required to continue operation in the event of the outbreak of fire. It is particularly suited for use in public buildings and constructions (such as hospitals, theatres, shopping developments, tunnels, mass transit railways, oil & petrochemical plants, power stations and computer installations) where the danger to life, equipment and structures may be greatly increased in the event of a power failure due to fire.

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Coimbatore : 09025 168 457, **Guwahati** : 09365 287 997, **Gurugram** : 0124-6549 100, **Indore** : 0731-3515 577, **Jaipur** : 0141-2741 417,
Kochi : 0484-2378 783, **Kolkata** : 033-6607 1233, **Lucknow** : 0522-3516 188 / 89, **Madurai** : 0452-2913 639, **Pune** : 07485 989 082,
Raipur : 0771-4051 518, **Secunderabad** : 040-2780 4098, **Silvassa** : 0260-2641 332 / 333, **Sonipat** : 0130-2986 986,
Surat : 09376 507 543, **Trichy** : 0431-2903 906, **Vijaywada** : 09966 999 626, **Zirakpur** : 07486 870 737.

STANDARD

BS 7846

TECHNICAL DATA

Voltage Rating: 600 / 1000V

Operating Temperature Range: -40°C to + 90°C

(The cable should not be flexed when either the ambient or cable temperature is below 0°C)

Minimum Bending Radius: 12 x overall diameter of cable

CABLE CONSTRUCTION

Construction: Plain annealed stranded copper conductors.

Conductor: For sizes up to and including 16mm² are offered in circular . Shaped conductors are offered from 25 mm² and onwards.

Insulation: Mica (fire - resistant) tapes, covered by an extruded layer of cross - linked polyethylene.

Bedding: An extruded layer of thermoplastic low smoke zero halogen (LSZH) compound.

Armour: Single layer of galvanized steel wires.

Sheath: Thermoplastic low smoke zero halogen (LSZH) compound.

CABLE TECHNICAL DATA

Part Number	Nominal Cross Sectional Area (Sq. mm)	Insulation Thickness (mm)	Nominal Armour Wire Diameter (mm)	Approx. Diameter Under Armour (mm)	Approx. Overall Diameter (mm)	Approx. Cable Weight (kg/km)	Max. DC Conductor Resist-ance at 20°C (Ω/km)	Max. AC Conductor Resist-ance at 90°C (Ω/km)	Reactance at 50Hz (Ω/km)	AC Impedance at 90°C (Ω/km)	Max. Arm. Resistance at 20°C (Ω/km)
2 Core											
100300201105	1.5*	0.6	0.9	8.5	13.0	415	12.1	15.428	0.104	15.428	10.7
100300201205	2.5*	0.7	0.9	10	14.5	495	7.41	9.448	0.101	9.448	8.8
100300200004	4*	0.7	0.9	11	15.5	575	4.61	5.878	0.099	5.878	7.9
100300200006	6*	1	0.9	12.5	17.0	658	3.08	3.927	0.094	3.928	7.0
100300200010	10*	1	0.9	14.0	19.0	828	1.83	2.333	0.093	2.335	6.0
100300200016	16	1	1.25	16.0	21.5	1005	1.15	1.466	0.088	1.469	3.8
100300200025	25	1	1.25	15.5	21.2	1105	0.727	0.927	0.082	0.93	3.7
100300200035	35	1	1.6	17.5	24.0	1555	0.524	0.668	0.077	0.673	2.5
100300200050	50	1	1.6	20.0	26.5	1855	0.387	0.494	0.076	0.5	2.3
100300200070	70	1.1	1.6	23.0	30.0	2455	0.268	0.342	0.075	0.349	2.0
100300200095	95	1.1	2.0	26.0	34.0	3345	0.193	0.247	0.074	0.258	1.4
100300200120	120	1.2	2.0	29.0	37.0	3898	0.153	0.196	0.072	0.209	1.3
100300200150	150	1.4	2.0	32.0	40.0	4645	0.124	0.16	0.073	0.176	1.2
100300200185	185	1.6	2.5	36.0	45.5	5945	0.0991	0.128	0.073	0.148	0.82
100300200240	240	1.7	2.5	40.0	50.0	7345	0.0754	0.099	0.072	0.122	0.73
100300200300	300	1.8	2.5	44.0	54.5	8695	0.0601	0.08	0.072	0.107	0.67
100300200400	400	2	2.5	49.5	60.0	10745	0.047	0.064	0.071	0.096	0.59

Part Number	Nominal Cross Sectional Area (Sq. mm)	Insulation Thickness (mm)	Nominal Armour Wire Diameter (mm)	Approx. Diameter Under Armour (mm)	Approx. Overall Diameter (mm)	Approx. Cable Weight (kg/km)	Max. DC Conductor Resist-ance at 20°C (Ω/km)	Max. AC Conductor Resist-ance at 90°C (Ω/km)	Reactance at 50Hz (Ω/km)	AC Impedance at 90°C (Ω/km)	Max. Arm. Resistance at 20°C (Ω/km)
3 Core											
100300301105	1.5*	0.6	0.9	9.0	13.5	423	12.1	15.428	0.104	15.428	10.2
100300301205	2.5*	0.7	0.9	10.5	15.0	544	741	9.448	0.101	9.448	8.2
100300300004	4*	0.7	0.9	11.5	16.5	644	4.61	5.878	0.099	5.878	7.5
100300300006	6*	0.7	0.9	13.0	17.5	738	3.08	3.927	0.094	3.925	6.6
100300300010	10*	0.7	1.25	15.0	20.5	1085	1.83	2.333	0.093	2.335	4.0
100300300016	16	0.7	1.25	17.0	22.5	1313	1.15	1.466	0.088	1.469	3.6
100300300025	25	0.9	1.6	20.0	26.5	1803	0.727	0.927	0.082	0.93	2.5
100300300035	35	0.9	1.6	22.0	29.0	2202	0.524	0.668	0.077	0.673	2.3
100300300050	50	1	1.6	22.5	29.5	2453	0.387	0.494	0.076	0.5	2.0
100300300070	70	1.1	1.6	26.0	33.0	3202	0.268	0.342	0.075	0.349	1.8
100300300095	95	1.1	2.0	30.0	38.0	4455	0.193	0.247	0.074	0.258	1.3
100300300120	120	1.2	2.0	33.0	41.5	5305	0.153	0.196	0.072	0.209	1.2
100300300150	150	1.4	2.5	37.0	46.5	6705	0.124	0.16	0.073	0.176	0.78
100300300185	185	1.6	2.5	41.0	51.0	8052	0.0991	0.128	0.073	0.148	0.71
100300300240	240	1.7	2.5	46.0	56.0	9953	0.0754	0.099	0.072	0.122	0.63
100300300300	300	1.8	2.5	51.0	61.0	12053	0.0601	0.08	0.072	0.107	0.58
100300300400	400	2.0	2.5	57.0	67.5	14803	0.047	0.064	0.071	0.096	0.52

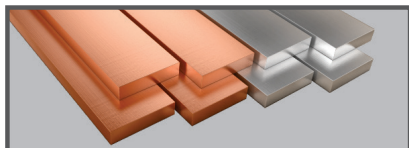
CABLE TECHNICAL DATA

Part Number	Nominal Cross Sectional Area (Sq. mm)	Insulation Thickness (mm)	Nominal Armour Wire Diameter (mm)	Approx. Diameter Under Armour (mm)	Approx. Overall Diameter (mm)	Approx. Cable Weight (kg/km)	Max. DC Conductor Resist-ance at 20°C (Ω/km)	Max. AC Conductor Resist-ance at 90°C (Ω/km)	Reactance at 50Hz (Ω/km)	AC Impedance at 90°C (Ω/km)	Max. Arm. Resistance at 20°C (Ω/km)
4 Crore											
100300401105	1.5*	0.6	0.9	10	14.8	522	12.1	15.428	0.104	15.428	9.5
100300401205	2.5*	0.7	0.9	11.5	16.0	618	7.41	9.448	0.101	9.448	7.7
100300400004	4*	0.7	0.9	13	17.8	725	4.61	5.878	0.099	5.878	6.8
100300400006	6*	0.7	1.25	14.5	20.0	985	3.08	3.927	0.094	3.925	4.3
100300400010	10*	0.7	1.25	16.5	22.0	1255	1.83	2.333	0.093	2.335	3.7
100300400016	16	0.7	1.25	19	24.5	1635	1.15	1.466	0.088	1.469	3.2
100300400025	25	0.9	1.6	22	28.5	2145	0.727	0.927	0.082	0.930	2.3
100300400035	35	0.9	1.6	24.5	31.5	2645	0.524	0.668	0.077	0.673	2
100300400050	50	1.0	1.6	26	33.2	3103	0.387	0.494	0.076	0.500	1.8
100300400070	70	1.1	2.0	30.5	39.2	4405	0.268	0.342	0.075	0.349	1.2
100300400095	95	1.1	2.0	34.5	43.2	5653	0.193	0.247	0.074	0.258	1.1
100300400120	120	1.2	2.5	38.5	48.6	7252	0.153	0.196	0.072	0.209	0.76
100300400150	150	1.4	2.5	42.5	53.0	8553	0.124	0.16	0.073	0.176	0.68
100300400185	185	1.6	2.5	47.5	58.0	10304	0.0991	0.128	0.073	0.148	0.61
100300400240	240	1.7	2.5	53.5	64.5	12895	0.0754	0.099	0.072	0.122	0.54
100300400300	300	1.8	2.5	59.0	70.3	15545	0.0601	0.08	0.072	0.107	0.49
100300400400	400	2.0	3.15	66.5	79.8	20245	0.047	0.064	0.071	0.096	0.35

Note :
* Class 2 stranded circular (non compacted) conductor.



WORLD OF EXCELLENCE



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