



Design with specification,
manufacture with integrity.

DESIGN TO
PRIORITISE
SAFETY



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FULL BOOKLET



SCAN QR FOR
SEPERATE PAGES



SOUTHERNCABLE.COM.MY

**FIRE
RESISTANT
CABLE**



Southern Cable offers True Fire Resistant Mineral Insulated Cables for armoured and unarmoured designs, single and multicore constructions and a wide range of sheathing and screening options. The fire resistant cable is designed to prioritise safety by maintain circuit integrity within fire condition for any essential equipment.

Southern Cable also manufactures a comprehensive range of Low Smoke Zero Halogen (LSOH) cables. Smoke, heat, toxic fumes are one of the key factors of hindering a safe evacuation. Thus, fire resistant and non-halogenated are designed to cater the hazards situation during fire condition. Commonly use indoors, public areas, hazardous environment and poorly ventilated areas.

The fire resistant cables manufactured by Southern Cable complied to the specification of:

STANDARD SPECIFICATIONS

IEC 60228	Class 2 Conductor Design Guidelines
IEC 60331	Fire Resistant
IEC 60332-1	Flame Retardant
IEC 60332-3	Flame Retardant Cat. A
IEC 60502-1	1kV to 30kV Cable Design Guideline
IEC 60754	Low Smoke Properties
IEC 61034	Halogen Free Properties
BS 6387 - Cat. CWZ	Fire Resistant Properties

For more details on the detailed design guideline, test method and performance requirement on each specification, please refer to the last page of catalogue.

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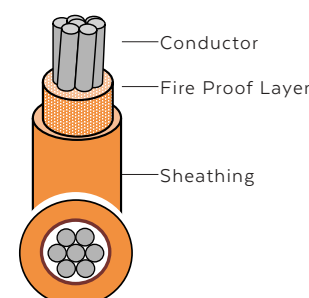
FIRE RESISTANT CABLE (IEC SPECIFICATION)

ONE CORE – ALUMINIUM, MICA GLASS TAPE, PVC SHEATHED CABLE

600/1000V, AL / MGT / PVC

STANDARD SPECIFICATION IEC 60502-1, IEC60331, IEC60332-1, IEC60332-3

CABLE DESCRIPTION Aluminium Conductor, Mica Glass Tape, PVC Sheathed Cables - 1 Core

CABLE SIZES RANGE 1 Core x (16 - 630)mm²
INSULATION COLOURS Orange, other colours is available upon request.

APPLICATION

For general purpose internal wiring of electronic and electrical equipment, installation in surface mounted or embedded conduits or similar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, electrical appliances, switchgear and control gear. Uniform insulation thickness of wire to ensure easy stripping and cutting.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen (IEC 60754, IEC 61034)
- Flame Retardant Cat A, B, C (IEC 60332-3)

STANDARD PACKING

Our fire resistant cable standard packing varies according to sizes, please get in touch with our salesperson for the specific fire resistant cable's standard packing list.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Overall Diameter (Approx)	Cable Copper Weight (Approx)
Nos	mm ²	mm	mm	mm	kg/km
1	16	4.74	1.00	7.3	80
	25	5.97	1.20	8.9	121
	35	7.10		10.0	156
	50	8.10	1.40	11.4	217
	70	9.74		13.1	282
	95	11.46	1.60	15.2	377
	120	12.93		16.7	462
	150	14.33	1.80	18.5	578
	185	16.05	2.00	20.6	701
	240	18.43	2.20	23.4	898
	300	20.64	2.40	26.0	1125
	400	23.34	2.60	29.1	1418
	500	26.21	2.80	32.4	1764
	630	29.80		35.9	2219

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Ampacity in Clipped Direct -3Phase Touching	Voltage Drop	Short Circuit Current for 1 sec
Ω/km	A	mV/A/m	kA
1.91	-	3.9	1.22
1.2	-	2.5	1.90
0.868	-	1.8	2.66
0.641	110	1.34	3.80
0.443	140	0.94	5.32
0.320	170	0.69	7.22
0.253	197	0.55	9.12
0.206	227	0.457	11.40
0.1640	259	0.376	14.07
0.1250	305	0.303	18.25
0.1000	351	0.259	22.81
0.0780	472	0.223	30.41
0.0605	546	0.197	38.02
0.0469	626	0.178	47.90

SHAPE OF CONDUCTOR

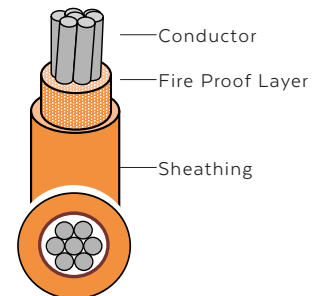
16 - 630 sqmm Compacted

FIRE RESISTANT CABLE (IEC SPECIFICATION)

ONE CORE – ALUMINIUM, MICA GLASS TAPE, LSOH SHEATHED CABLE

600/1000V, AL / MGT / LSOH

STANDARD SPECIFICATION	IEC 60502-1, IEC60331, IEC60332-1, IEC60332-3
CABLE DESCRIPTION	Aluminium Conductor, Mica Glass Tape, LSOH Sheathed Cables - 1 Core
CABLE SIZES RANGE	1 Core x (16 - 630)mm ²
INSULATION COLOURS	Orange, other colours is available upon request.


APPLICATION

For general purpose internal wiring of electronic and electrical equipment, installation in surface mounted or embedded conduits or similar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, electrical appliances, switchgear and control gear. Uniform insulation thickness of wire to ensure easy stripping and cutting.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen (IEC 60754, IEC 61034)
- Flame Retardant Cat A, B, C (IEC 60332-3)

STANDARD PACKING

Our fire resistant cable standard packing varies according to sizes, please get in touch with our salesperson for the specific fire resistant cable's standard packing list.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Overall Diameter (Approx)	Cable Copper Weight (Approx)
Nos	mm ²	mm	mm	mm	kg/km
1	16	4.74	1.00	7.3	80
	25	5.97	1.20	8.9	121
	35	7.10		10.0	156
	50	8.10	1.40	11.4	217
	70	9.74		13.1	282
	95	11.46	1.60	15.2	377
	120	12.93		16.7	462
	150	14.33	1.80	18.5	578
	185	16.05	2.00	20.6	701
	240	18.43	2.20	23.4	898
	300	20.64	2.40	26.0	1125
	400	23.34	2.60	29.1	1418
	500	26.21	2.80	32.4	1764
	630	29.80		35.9	2219

ELECTRICAL DATA

Max. Conductor Resistance, DC at 20°C	Ampacity in Clipped Direct -3Phase Touching	Voltage Drop	Short Circuit Current for 1 sec
Ω/km	A	mV/A/m	kA
1.91	-	3.9	1.22
1.2	-	2.5	1.90
0.868	-	1.8	2.66
0.641	110	1.34	3.80
0.443	140	0.94	5.32
0.320	170	0.69	7.22
0.253	197	0.55	9.12
0.206	227	0.457	11.40
0.1640	259	0.376	14.07
0.1250	305	0.303	18.25
0.1000	351	0.259	22.81
0.0780	472	0.223	30.41
0.0605	546	0.197	38.02
0.0469	626	0.178	47.90

SHAPE OF CONDUCTOR

16 - 630 sqmm Compacted

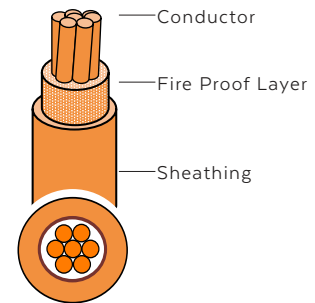
FIRE RESISTANT CABLE (IEC SPECIFICATION)

ONE CORE – COPPER CONDUCTOR, MICA GLASS TAPE, PVC SHEATHED CABLES

600/1000V, CU / MGT / PVC

STANDARD SPECIFICATION IEC 60502-1, IEC60331, IEC60332-1, IEC60332-3

CABLE DESCRIPTION Copper Conductor, Mica Glass Tape, PVC Sheathed Cables - 1 Core

CABLE SIZES RANGE 1 Core x (1.5 - 630)mm²
INSULATION COLOURS Orange, other colours is available upon request.

APPLICATION

For general purpose internal wiring of electronic and electrical equipment, installation in surface mounted or embedded conduits or similar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, electrical appliances, switchgear and control gear. Uniform insulation thickness of wire to ensure easy stripping and cutting.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen (IEC 60754, IEC 61034)
- Flame Retardant Cat A, B, C (IEC 60332-3)

STANDARD PACKING

Our fire resistant cable standard packing varies according to sizes, please get in touch with our salesperson for the specific fire resistant cable's standard packing list.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Overall Diameter (Approx)	Cable Copper Weight (Approx)
Nos	mm ²	mm	mm	mm	kg/km
1	1.5	1.59	0.80	3.7	28
	2.5	2.01		4.2	39
	4	2.55	1.00	5.1	60
	6	3.12		5.7	81
	10	3.80		6.3	123
	16	4.74	1.20	7.3	183
	25	5.97		8.9	285
	35	7.10	1.40	10.0	383
	50	8.10		11.4	514
	70	9.74	1.60	13.1	722
	95	11.46		15.2	994
	120	12.93	1.80	16.7	1238
	150	14.33		18.5	1268
	185	16.05	2.00	20.6	1904
	240	18.43	2.20	23.4	2459
	300	20.64	2.40	26.0	3110
	400	23.34	2.60	29.1	3957
	500	26.21	2.80	32.4	4965
	630	29.80		35.9	6383

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Ampacity in Clipped Direct -3 Phase Touching	Voltage Drop	Short Circuit Current for 1 sec
Ω/km	A	mV/A/m	kA
12.10	18	25	0.21
7.41	25	15	0.36
4.61	33	9.6	0.57
3.08	43	6.4	0.86
1.83	59	3.8	1.43
1.15	79	2.4	2.29
0.727	104	1.52	3.58
0.524	129	1.10	5.01
0.387	167	0.82	7.15
0.268	214	0.579	10.02
0.193	261	0.432	13.59
0.153	303	0.354	17.17
0.124	349	0.302	21.46
0.0991	400	0.258	26.47
0.0754	472	0.220	34.34
0.0601	545	0.198	42.93
0.0470	634	0.181	57.23
0.0366	723	0.170	71.54
0.0283	826	0.160	90.14

SHAPE OF CONDUCTOR

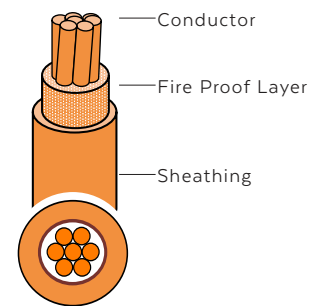
1.5 - 6 sqmm Circular
10 - 630 sqmm Compacted

FIRE RESISTANT CABLE (IEC SPECIFICATION)

ONE CORE – COPPER CONDUCTOR, MICA GLASS TAPE, LSOH SHEATHED CABLES

600/1000V, CU / MGT / LSOH

STANDARD SPECIFICATION	IEC 60502-1, IEC60331, IEC60332-1, IEC60332-3, IEC60754, IEC61034
CABLE DESCRIPTION	Copper Conductor, Mica Glass Tape, LSOH Sheathed Cables - 1 Core
CABLE SIZES RANGE	1 Core x (1.5 - 630)mm ²
INSULATION COLOURS	Orange, other colours is available upon request.


APPLICATION

For general purpose internal wiring of electronic and electrical equipment, installation in surface mounted or embedded conduits or similar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, electrical appliances, switchgear and control gear. Uniform insulation thickness of wire to ensure easy stripping and cutting.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen (IEC 60754, IEC 61034)
- Flame Retardant Cat A, B, C (IEC 60332-3)

STANDARD PACKING

Our fire resistant cable standard packing varies according to sizes, please get in touch with our salesperson for the specific fire resistant cable's standard packing list.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Overall Diameter (Approx)	Cable Copper Weight (Approx)
Nos	mm ²	mm	mm	mm	kg/km
1	1.5	1.59	0.80	3.7	28
	2.5	2.01		4.2	39
	4	2.55	1.00	5.1	60
	6	3.12		5.7	81
	10	3.80		6.3	123
	16	4.74	1.20	7.3	183
	25	5.97		8.9	285
	35	7.10	1.40	10.0	383
	50	8.10		11.4	514
	70	9.74	1.60	13.1	722
	95	11.46		15.2	994
	120	12.93	1.80	16.7	1238
	150	14.33		18.5	1268
	185	16.05	2.00	20.6	1904
	240	18.43	2.20	23.4	2459
	300	20.64	2.40	26.0	3110
	400	23.34	2.60	29.1	3957
	500	26.21	2.80	32.4	4965
	630	29.80		35.9	6383

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Ampacity in Clipped Direct -3 Phase Touching	Voltage Drop	Short Circuit Current for 1 sec
Ω/km	A	mV/A/m	kA
12.10	18	25	0.21
7.41	25	15	0.36
4.61	33	9.6	0.57
3.08	43	6.4	0.86
1.83	59	3.8	1.43
1.15	79	2.4	2.29
0.727	104	1.52	3.58
0.524	129	1.10	5.01
0.387	167	0.82	7.15
0.268	214	0.579	10.02
0.193	261	0.432	13.59
0.153	303	0.354	17.17
0.124	349	0.302	21.46
0.0991	400	0.258	26.47
0.0754	472	0.220	34.34
0.0601	545	0.198	42.93
0.0470	634	0.181	57.23
0.0366	723	0.170	71.54
0.0283	826	0.160	90.14

SHAPE OF CONDUCTOR

1.5 - 6 sqmm Circular
10 - 630 sqmm Compacted

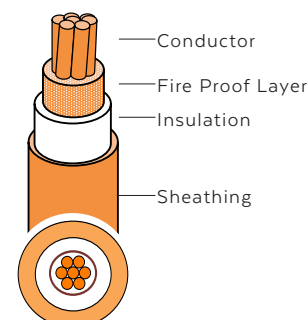
FIRE RESISTANT CABLE (IEC SPECIFICATION)

ONE CORE – COPPER, MICA GLASS TAPE, XLPE INSULATED, NON-ARMOURED, PVC SHEATHED CABLE

600/1000V, CU / MGT / XLPE / PVC

STANDARD SPECIFICATION IEC 60502-1, IEC60331, IEC60332-1, IEC60332-3

CABLE DESCRIPTION Copper Conductor, Mica Glass Tape, XLPE Insulated, Non-Armoured, PVC Sheathed Cables - 1 Core

CABLE SIZES RANGE 1 Core x (1.5 - 630)mm²
INSULATION COLOURS Orange, other colours is available upon request.

APPLICATION

For general purpose internal wiring of electronic and electrical equipment, installation in surface mounted or embedded conduits or similar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, electrical appliances, switchgear and control gear. Uniform insulation thickness of wire to ensure easy stripping and cutting.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen (IEC 60754, IEC 61034)
- Flame Retardant Cat A, B, C (IEC 60332-3)

STANDARD PACKING

Our fire resistant cable standard packing varies according to sizes, please get in touch with our salesperson for the specific fire resistant cable's standard packing list.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Copper Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	kg/km
1	1.5	1.59	0.70	1.40	6.4	48
	2.5	2.01			6.8	63
	4	2.55			7.4	82
	6	3.12			7.9	106
	10	3.80			8.6	150
	16	4.74			9.6	213
	25	5.97	0.90		11.2	331
	35	7.10			12.3	434
	50	8.10			13.5	572
	70	9.74	1.10	1.45	15.5	806
	95	11.46		1.55	17.4	1083
	120	12.93		1.60	19.2	1360
	150	14.33		1.65	21.1	1433
	185	16.05	1.60	1.70	23.3	2124
	240	18.43	1.70	1.80	26.1	2731
	300	20.64	1.80	1.85	28.6	3427
	400	23.34	2.00	2.00	32.0	4401
	500	26.21	2.20	2.10	35.4	5548
	630	29.80	2.40	2.25	39.7	7203

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Current Carrying Capacity In Air at 30°C	Voltage Drop	Short Circuit Current for 1 sec
Ω/km	A	mV/A/m	kA
12.10	-	27	0.21
7.41		16	0.36
4.61		10	0.57
3.08		6.8	0.86
1.83		4	1.43
1.15		2.5	2.29
0.727	135	1.60	3.58
0.524	169	1.15	5.01
0.387	207	0.87	7.15
0.268	268	0.61	10.02
0.193	328	0.45	13.59
0.153	383	0.37	17.17
0.124	444	0.31	21.46
0.099	510	0.26	26.47
0.075	607	0.22	34.34
0.060	703	0.195	42.93
0.047	823	0.175	57.23
0.037	946	0.160	71.54
0.028	1088	0.150	90.14

SHAPE OF CONDUCTOR

1.5 - 630 sqmm Compacted

FIRE RESISTANT CABLE (IEC SPECIFICATION)

TWO CORE – COPPER, MICA GLASS TAPE, XLPE INSULATED, NON-ARMOURED, PVC SHEATHED CABLE

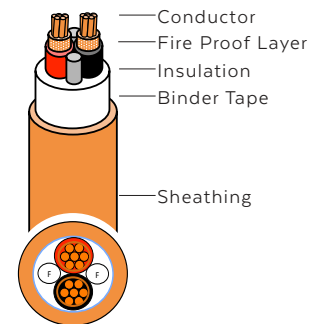
600/1000V, CU / MGT / XLPE / PVC

STANDARD SPECIFICATION IEC 60502-1, IEC60331, IEC60332-1, IEC60332-3

CABLE DESCRIPTION Copper Conductor, Mica Glass Tape, XLPE Insulated, Non-Armoured, PVC Sheathed Cables - 2 Core

CABLE SIZES RANGE 2 Core x (1.5 - 400)mm²

INSULATION COLOURS Orange, other colours is available upon request.


APPLICATION

For general purpose internal wiring of electronic and electrical equipment, installation in surface mounted or embedded conduits or similar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, electrical appliances, switchgear and control gear. Uniform insulation thickness of wire to ensure easy stripping and cutting.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen (IEC 60754, IEC 61034)
- Flame Retardant Cat A, B, C (IEC 60332-3)

STANDARD PACKING

Our fire resistant cable standard packing varies according to sizes, please get in touch with our salesperson for the specific fire resistant cable's standard packing list.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Copper Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	kg/km
2	1.5	1.59	0.70	1.80	10.4	124
	2.5	2.01			11.2	153
	4	2.55			12.3	197
	6	3.12			13.4	252
	10	3.80			14.8	349
	16	4.74			16.7	490
	25	5.97	0.90		20.4	730
	35	7.10			22.6	956
	50	8.10			25.0	1239
	70	9.74	1.10		29.0	1734
	95	11.46		1.86	32.7	2331
	120	12.93	1.20	1.99	36.3	2915
	150	14.33	1.40	2.14	40.2	3066
	185	16.05	1.60	2.31	44.8	4461
	240	18.43	1.70	2.51	50.3	5723
	300	20.64	1.80	2.70	55.5	7180
	400	23.34	2.00	2.95	62.2	9124

ELECTRICAL DATA

Max. Conductor Resistance, DC at 20°C	Current Carrying Capacity In Air at 30°C	Voltage Drop	Short Circuit Current for 1 sec
Ω/km	A	mV/A/m	kA
12.10	26	31	0.21
7.41	36	19	0.36
4.61	49	12	0.57
3.08	63	7.9	0.86
1.83	86	4.7	1.43
1.15	115	2.9	2.29
0.727	149	1.90	3.58
0.524	185	1.35	5.01
0.387	225	1.00	7.15
0.268	289	0.69	10.02
0.193	352	0.52	13.59
0.153	410	0.42	17.17
0.124	473	0.35	21.46
0.099	542	0.29	26.47
0.075	641	0.24	34.34
0.060	741	0.210	42.93
0.047	865	0.190	57.23

SHAPE OF CONDUCTOR

1.5 - 6 sqmm Circular
10 - 400 sqmm Compacted Round

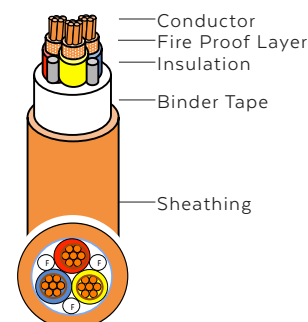
FIRE RESISTANT CABLE (IEC SPECIFICATION)

THREE CORE – COPPER, MICA GLASS TAPE, XLPE INSULATED, NON-ARMOURED, PVC SHEATHED CABLE

600/1000V, CU / MGT / XLPE / PVC

STANDARD SPECIFICATION IEC 60502-1, IEC60331, IEC60332-1, IEC60332-3

CABLE DESCRIPTION Copper Conductor, Mica Glass Tape, XLPE Insulated, Non-Armoured, PVC Sheathed Cables - 3 Core

CABLE SIZES RANGE 3 Core x (1.5 - 400)mm²
INSULATION COLOURS Orange, other colours is available upon request.

APPLICATION

For general purpose internal wiring of electronic and electrical equipment, installation in surface mounted or embedded conduits or similar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, electrical appliances, switchgear and control gear. Uniform insulation thickness of wire to ensure easy stripping and cutting.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen (IEC 60754, IEC 61034)
- Flame Retardant Cat A, B, C (IEC 60332-3)

STANDARD PACKING

Our fire resistant cable standard packing varies according to sizes, please get in touch with our salesperson for the specific fire resistant cable's standard packing list.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Copper Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	kg/km
3	1.5	1.59	0.70	1.80	10.9	150
	2.5	2.01			11.8	190
	4	2.55			13.0	250
	6	3.12			14.2	325
	10	3.80			15.7	463
	16	4.74			17.7	663
	25	5.97	0.90		21.7	1000
	35	7.10			24.1	1322
	50	8.10			26.8	1733
	70	9.74	1.10		31.1	2444
	95	11.46		1.95	35.1	3300
	120	12.93	1.20	2.09	38.9	4134
	150	14.33	1.40	2.25	43.1	4310
	185	16.05	1.60	2.43	48.1	6338
	240	18.43	1.70	2.65	54.1	8146
300	20.64	1.80	2.86	59.7	10241	
400	23.34	2.00	3.13	66.9	13029	

ELECTRICAL DATA

Max. Conductor Resistance, DC at 20°C	Current Carrying Capacity In Air at 30°C	Voltage Drop	Short Circuit Current for 1 sec
Ω/km	A	mV/A/m	kA
12.10	23	27	0.21
7.41	32	16	0.36
4.61	42	10	0.57
3.08	54	6.8	0.86
1.83	75	4.0	1.43
1.15	100	2.5	2.29
0.727	127	1.65	3.58
0.524	158	1.15	5.01
0.387	192	0.87	7.15
0.268	246	0.60	10.02
0.193	298	0.45	13.59
0.153	346	0.37	17.17
0.124	399	0.30	21.46
0.099	456	0.26	26.47
0.075	538	0.21	34.34
0.060	621	0.185	42.93
0.047	741	0.165	57.23

SHAPE OF CONDUCTOR

1.5 - 6 sqmm Circular
10 - 400 sqmm Compact Round

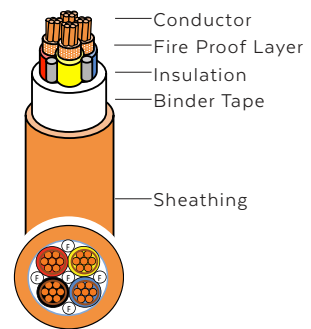
FIRE RESISTANT CABLE (IEC SPECIFICATION)

FOUR CORE – COPPER, MICA GLASS TAPE, XLPE INSULATED, NON-ARMOURED, PVC SHEATHED CABLE

600/1000V, CU / MGT / XLPE / PVC

STANDARD SPECIFICATION IEC 60502-1, IEC60331, IEC60332-1, IEC60332-3

CABLE DESCRIPTION Copper Conductor, Mica Glass Tape, XLPE Insulated, Non-Armoured, PVC Sheathed Cables - 4 Core

CABLE SIZES RANGE 4 Core x (1.5 - 400)mm²
INSULATION COLOURS Orange, other colours is available upon request.

APPLICATION

For general purpose internal wiring of electronic and electrical equipment, installation in surface mounted or embedded conduits or similar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, electrical appliances, switchgear and control gear. Uniform insulation thickness of wire to ensure easy stripping and cutting.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen (IEC 60754, IEC 61034)
- Flame Retardant Cat A, B, C (IEC 60332-3)

STANDARD PACKING

Our fire resistant cable standard packing varies according to sizes, please get in touch with our salesperson for the specific fire resistant cable's standard packing list.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Copper Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	kg/km
4	1.5	1.59	0.70	1.80	12.8	209
	2.5	2.01			14.0	270
	4	2.55			15.4	364
	6	3.12			17.0	481
	10	3.80			18.8	702
	16	4.74			21.3	1020
	25	5.97	0.90		26.2	1556
	35	7.10			29.5	2091
	50	8.10	1.00	1.87	33.0	2768
	70	9.74	1.10	2.07	38.4	3916
	95	11.46		2.26	43.4	5305
	120	12.93	1.20	2.44	48.3	6655
	150	14.33	1.40	2.63	53.5	6900
	185	16.05	1.60	2.86	59.7	10218
	240	18.43	1.70	3.14	67.2	13146
	300	20.64	1.80	3.40	74.3	16552
	400	23.34	2.00	3.73	83.3	21075

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Current Carrying Capacity In Air at 30°C	Voltage Drop	Short Circuit Current for 1 sec
Ω/km	A	mV/A/m	kA
12.10	23	27	0.21
7.41	32	16	0.36
4.61	42	10	0.57
3.08	54	6.8	0.86
1.83	75	4.0	1.43
1.15	100	2.5	2.29
0.727	127	1.65	3.58
0.524	158	1.15	5.01
0.387	192	0.87	7.15
0.268	246	0.60	10.02
0.193	298	0.45	13.59
0.153	346	0.37	17.17
0.124	399	0.30	21.46
0.0991	456	0.26	26.47
0.0754	538	0.21	34.34
0.0601	621	0.185	42.93
0.0470	741	0.165	57.23

SHAPE OF CONDUCTOR

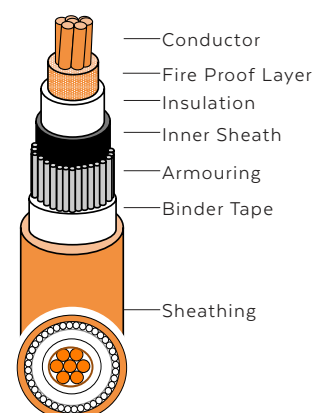
1.5 - 6 sqmm Circular
10 - 400 sqmm Compacted Round

FIRE RESISTANT CABLE (IEC SPECIFICATION)

ONE CORE – COPPER, MICA GLASS TAPE, XLPE INSULATED, ALUMINIUM WIRE ARMoured, PVC SHEATHED CABLE

600/1000V, CU / MGT / XLPE / AWA / PVC

STANDARD SPECIFICATION	IEC 60502-1, IEC60331, IEC60332-1, IEC60332-3
CABLE DESCRIPTION	Copper Conductor, Mica Glass Tape, XLPE Insulated, Aluminium Wire Armoured, PVC Sheathed Cables - 1 Core
CABLE SIZES RANGE	1 Core x (16 - 630)mm ²
INSULATION COLOURS	Orange, other colours is available upon request.


APPLICATION

For general purpose internal wiring of electronic and electrical equipment, installation in surface mounted or embedded conduits or similar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, electrical appliances, switchgear and control gear. Uniform insulation thickness of wire to ensure easy stripping and cutting.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen (IEC 60754, IEC 61034)
- Flame Retardant Cat A, B, C (IEC 60332-3)

STANDARD PACKING

Our fire resistant cable standard packing varies according to sizes, please get in touch with our salesperson for the specific fire resistant cable's standard packing list.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Inner Sheath Diameter (Approx)	Aluminium Wire Diameter	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	mm	mm	mm	kg/km
1	16	4.74	0.70	1.00	8.7	1.04	1.80	14.4	368
	25	5.97	0.90	1.00	10.3	1.04	1.80	16.1	495
	35	7.10	0.90	1.00	11.4	1.25	1.80	17.6	633
	50	8.10	1.00	1.00	12.6	1.25	1.80	18.8	780
	70	9.74	1.10	1.00	14.5	1.25	1.80	20.7	1029
	95	11.46	1.10	1.00	16.2	1.60	1.80	23.4	1376
	120	12.93	1.20	1.00	17.9	1.60	1.80	25.1	1678
	150	14.33	1.40	1.00	19.7	1.60	1.80	27.0	2038
	185	16.05	1.60	1.00	21.8	1.60	1.90	29.4	2418
	240	18.43	1.70	1.00	24.4	1.60	2.00	32.1	3025
	300	20.64	1.80	1.00	26.8	2.00	2.10	35.5	3810
	400	23.34	2.00	1.20	30.3	2.00	2.20	39.2	4774
	500	26.21	2.20	1.20	33.6	2.00	2.35	42.8	5879
	630	29.80	2.40	1.20	37.6	2.00	2.45	47.0	7438

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Current Carrying Capacity In Air at 30°C	Voltage Drop	Short Circuit Current for 1 sec
Ω/km	A	mV/A/m	kA
1.15	-	-	2.29
0.727	-	-	3.58
0.524	-	-	5.01
0.387	222	0.87	7.15
0.268	285	0.62	10.02
0.193	346	0.47	13.59
0.153	402	0.39	17.17
0.124	462	0.33	21.46
0.0991	524	0.28	26.47
0.0754	612	0.24	34.34
0.0601	700	0.210	42.93
0.0470	767	0.195	57.23
0.0366	851	0.180	71.54
0.0283	935	0.170	90.14

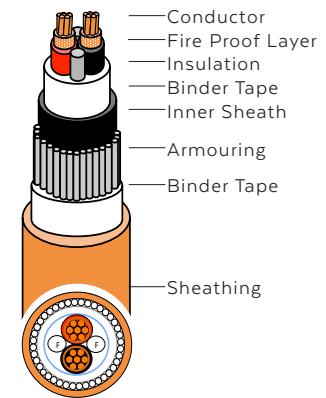
SHAPE OF CONDUCTOR

16 - 630 sqmm Compacted

FIRE RESISTANT CABLE (IEC SPECIFICATION)

TWO CORE – COPPER, MICA GLASS TAPE, XLPE INSULATED, STEEL WIRE ARMoured, PVC SHEATHED CABLE 600/1000V, CU / MGT / XLPE / SWA / PVC

STANDARD SPECIFICATION	IEC 60502-1, IEC60331, IEC60332-1, IEC60332-3
CABLE DESCRIPTION	Copper Conductor, Mica Glass Tape, XLPE Insulated, Steel Wire Armoured, PVC Sheathed Cables - 2 Core
CABLE SIZES RANGE	2 Core x (1.5 - 400)mm ²
INSULATION COLOURS	Orange, other colours is available upon request.


APPLICATION

For general purpose internal wiring of electronic and electrical equipment, installation in surface mounted or embedded conduits or similar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, electrical appliances, switchgear and control gear. Uniform insulation thickness of wire to ensure easy stripping and cutting.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen (IEC 60754, IEC 61034)
- Flame Retardant Cat A, B, C (IEC 60332-3)

STANDARD PACKING

Our fire resistant cable standard packing varies according to sizes, please get in touch with our salesperson for the specific fire resistant cable's standard packing list.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Inner Sheath Diameter (Approx)	Steel Wire Diameter	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Copper Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	mm	mm	mm	kg/km
2	1.5	1.59	0.70	1.00	9.2	0.90	1.80	14.6	359
	2.5	2.01			10.0			15.5	405
	4	2.55			11.1			17.2	562
	6	3.12			12.2	1.25		18.4	646
	10	3.80			13.6			19.8	782
	16	4.74			15.5			22.6	1106
	25	5.97	0.90		18.7	1.60	1.79	26.0	1423
	35	7.10			21.0		1.87	28.5	1722
	50	8.10			1.00		23.4	1.95	31.0
	70	9.74	1.10		1.20	27.5	2.00	2.12	36.3
	95	11.46		30.9		2.24		39.9	3686
	120	12.93	1.20	34.2		2.36		43.5	4408
	150	14.33	1.40	1.40	38.2	2.50	2.53	48.9	5734
	185	16.05	1.60		42.5		2.68	53.4	6689
	240	18.43	1.70		47.6		2.86	58.9	8152
	300	20.64	1.80	1.60	52.9		3.04	64.5	9864
	400	23.34	2.00		59.1		3.26	71.1	12028

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Current Carrying Capacity In Air at 30°C	Current Carrying Capacity In Ground at 20°C	Voltage Drop	Short Circuit Current for 1 sec
Ω/km	A	A	mV/A/m	kA
12.10	29	25	31	0.21
7.41	39	33	19	0.36
4.61	52	43	12	0.57
3.08	66	53	7.9	0.86
1.83	90	71	4.7	1.43
1.15	115	91	2.9	2.29
0.727	152	116	1.90	3.58
0.524	188	139	1.35	5.01
0.387	228	164	1.00	7.15
0.268	291	203	0.69	10.02
0.193	354	239	0.52	13.59
0.153	410	271	0.42	17.17
0.124	472	306	0.35	21.46
0.099	539	343	0.29	26.47
0.075	636	395	0.24	34.34
0.060	732	446	0.210	42.93
0.047	847	-	0.190	57.23

SHAPE OF CONDUCTOR

1.5 - 6 sqmm Circular
10 - 400 sqmm Compacted Round

FIRE RESISTANT CABLE (IEC SPECIFICATION)

THREE CORE – COPPER, MICA GLASS TAPE, XLPE INSULATED, STEEL WIRE ARMoured, PVC SHEATHED CABLE

600/1000V, CU / MGT / XLPE / SWA / PVC

STANDARD SPECIFICATION

IEC 60502-1, IEC60331, IEC60332-1, IEC60332-3

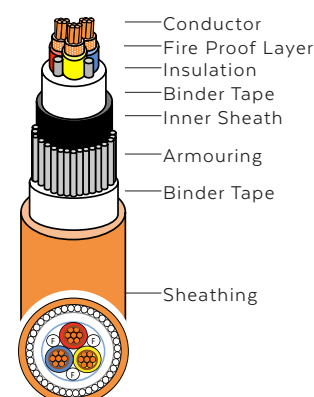
CABLE DESCRIPTION

Copper Conductor, Mica Glass Tape, XLPE Insulated, Steel Wire Armoured, PVC Sheathed Cables – 3 Core

CABLE SIZES RANGE

3 Core x (1.5 – 400)mm²
INSULATION COLOURS

Orange, other colours is available upon request.


APPLICATION

For general purpose internal wiring of electronic and electrical equipment, installation in surface mounted or embedded conduits or similar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, electrical appliances, switchgear and control gear. Uniform insulation thickness of wire to ensure easy stripping and cutting.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen (IEC 60754, IEC 61034)
- Flame Retardant Cat A, B, C (IEC 60332-3)

STANDARD PACKING

Our fire resistant cable standard packing varies according to sizes, please get in touch with our salesperson for the specific fire resistant cable's standard packing list.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Inner Sheath Diameter (Approx)	Steel Wire Diameter	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Copper Weight (Approx)		
Nos	mm ²	mm	mm	mm	mm	mm	mm	mm	kg/km		
3	1.5	1.59	0.70	1.00	9.7	0.9	1.80	15.2	396		
	2.5	2.01			10.6	1.25		16.8	541		
	4	2.55			11.8			17.9	632		
	6	3.12			13.0			19.2	739		
	10	3.80			14.5	20.7		920			
	16	4.74			16.5	23.6		1314			
	25	5.97	0.90	20.0	1.60	27.4		1735			
	35	7.10		22.4		1.90	30.0	2138			
	50	8.10		25.0		2.00	32.8	2633			
	70	9.74	1.10	1.20	29.4	2.00	2.15	38.2	3751		
	95	11.46			33.1		2.30	42.3	4738		
	120	12.93			1.20		36.7	2.45	47.2	6132	
	150	14.33	1.40	1.40	41.0		2.50	2.60	51.7	7414	
	185	16.05	1.60		45.5			2.75	56.6	8708	
	240	18.43	1.70		1.60			51.5	2.95	63.0	10807
	300	20.64	1.80					56.7	3.15	68.6	13105
	400	23.34	2.00	63.4		3.15	3.45	77.1	17009		

ELECTRICAL DATA

Max. Conductor Resistance, DC at 20°C	Current Carrying Capacity In Air at 30°C	Current Carrying Capacity In Ground at 20°C	Voltage Drop	Short Circuit Current for 1 sec
Ω/km	A	A	mV/A/m	kA
12.10	25	21	27	0.21
7.41	33	28	16	0.36
4.61	44	36	10	0.57
3.08	56	44	6.8	0.86
1.83	78	58	4.0	1.43
1.15	99	75	2.5	2.29
0.727	131	96	1.65	3.58
0.524	162	115	1.15	5.01
0.387	197	135	0.87	7.15
0.268	251	167	0.60	10.02
0.193	304	197	0.45	13.59
0.153	353	223	0.37	17.17
0.124	406	251	0.30	21.46
0.0991	463	281	0.26	26.47
0.0754	546	324	0.21	34.34
0.0601	628	365	0.185	42.93
0.0470	728	-	0.165	57.23

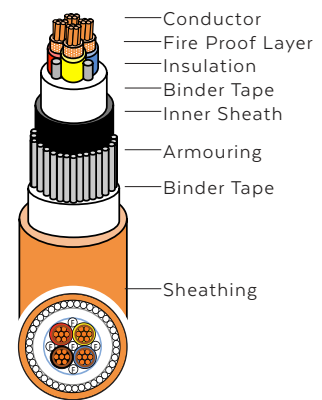
SHAPE OF CONDUCTOR

1.5 – 6 sqmm Circular
10 – 400 sqmm Compact Round

FIRE RESISTANT CABLE (IEC SPECIFICATION)

FOUR CORE – COPPER, MICA GLASS TAPE, XLPE INSULATED, STEEL WIRE ARMoured, PVC SHEATHED CABLE **600/1000V, CU / MGT / XLPE / SWA / PVC**

STANDARD SPECIFICATION	IEC 60502-1, IEC60331, IEC60332-1, IEC60332-3
CABLE DESCRIPTION	Copper Conductor, Mica Glass Tape, XLPE Insulated, Steel Wire Armoured, PVC Sheathed Cables - 4 Core
CABLE SIZES RANGE	4 Core x (1.5 - 400)mm ²
INSULATION COLOURS	Orange, other colours is available upon request.


APPLICATION

For general purpose internal wiring of electronic and electrical equipment, installation in surface mounted or embedded conduits or similar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, electrical appliances, switchgear and control gear. Uniform insulation thickness of wire to ensure easy stripping and cutting.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen (IEC 60754, IEC 61034)
- Flame Retardant Cat A, B, C (IEC 60332-3)

STANDARD PACKING

Our fire resistant cable standard packing varies according to sizes, please get in touch with our salesperson for the specific fire resistant cable's standard packing list.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Inner Sheath Diameter (Approx)	Steel Wire Diameter	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Copper Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	mm	mm	mm	kg/km
4	1.5	1.59	0.70	1.00	10.6	1.25	1.80	16.8	531
	2.5	2.01			11.6			17.8	608
	4	2.55			12.9			19.1	719
	6	3.12			14.3			20.6	855
	10	3.80			15.9			23.1	1215
	16	4.74			18.2	1.60	1.75	25.5	1554
	25	5.97	0.90	22.2	1.90		29.7	2096	
	35	7.10		24.9	2.00		32.6	2608	
	50	8.10	1.00	1.20	28.2	2.00	2.15	37.0	3534
	70	9.74	1.10		32.6		2.30	41.8	4623
	95	11.46			36.8	2.50	2.50	47.3	6295
	120	12.93	1.20	1.40	41.2		2.65	52.1	7681
	150	14.33	1.40		45.5		2.80	56.7	9251
	185	16.05	1.60		1.60		51.1	3.15	3.00
	240	18.43	1.70	57.3		3.20	69.3		13604
	300	20.64	1.80	63.1		3.45	76.9		17443
	400	23.34	2.00	70.6		3.70	84.9		21460

ELECTRICAL DATA

Max. Conductor Resistance, DC at 20°C	Current Carrying Capacity In Air at 30°C	Current Carrying Capacity In Ground at 20°C	Voltage Drop	Short Circuit Current for 1 sec
Ω/km	A	A	mV/A/m	kA
12.10	25	21	27	0.21
7.41	33	28	16	0.36
4.61	44	36	10	0.57
3.08	56	44	6.8	0.86
1.83	78	58	4.0	1.43
1.15	99	75	2.5	2.29
0.727	131	96	1.65	3.58
0.524	162	115	1.15	5.01
0.387	197	135	0.87	7.15
0.268	251	167	0.60	10.02
0.193	304	197	0.45	13.59
0.153	353	223	0.37	17.17
0.124	406	251	0.30	21.46
0.0991	463	281	0.26	26.47
0.0754	546	324	0.21	34.34
0.0601	628	365	0.185	42.93
0.0470	728	-	0.165	57.23

SHAPE OF CONDUCTOR

1.5 - 6 sqmm Circular
10 - 400 sqmm Compacted Round

FIRE RESISTANT CABLE (BS SPECIFICATION)

ONE CORE – COPPER, MICA GLASS TAPE, XLPE INSULATED, NON-ARMOURED, PVC SHEATHED CABLE

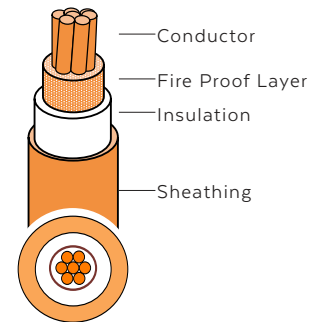
600/1000V, CU / MGT / XLPE / PVC

STANDARD SPECIFICATION IEC 60502-1, IEC60331, BS6387 CWZ, IEC 60332-1, IEC 60332-3

CABLE DESCRIPTION Copper Conductor, Mica Glass Tape, XLPE Insulated, Non-Armoured, PVC Sheathed Cables - 1 Core

CABLE SIZES RANGE 1 Core x (1.5 - 630)mm²

INSULATION COLOURS Orange, other colours is available upon request.


APPLICATION

For general purpose internal wiring of electronic and electrical equipment, installation in surface mounted or embedded conduits or similar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, electrical appliances, switchgear and control gear. Uniform insulation thickness of wire to ensure easy stripping and cutting.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen (IEC 60754, IEC 61034)
- Flame Retardant Cat A, B, C (IEC 60332-3)

STANDARD PACKING

Our fire resistant cable standard packing varies according to sizes, please get in touch with our salesperson for the specific fire resistant cable's standard packing list.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Copper Weight (Approx)	
Nos	mm ²	mm	mm	mm	mm	kg/km	
1	1.5	1.59	0.70	1.40	7.0	57	
	2.5	2.01			7.4	69	
	4	2.55			8.0	88	
	6	3.12			8.5	112	
	10	3.80			9.2	156	
	16	4.74			10.2	220	
	25	5.97	0.90	1.45	11.8	339	
	35	7.10			12.9	442	
	50	8.10			14.1	581	
	70	9.74	1.10		16.1	816	
	95	11.46			18.0	1094	
	120	12.93			19.8	1372	
	150	14.33	1.40		1.65	21.7	1447
	185	16.05	1.60		1.70	23.9	2139
	240	18.43	1.70		1.80	26.7	2747
	300	20.64	1.80		1.85	29.2	3445
	400	23.34	2.00	2.00	32.6	4421	
	500	26.21	2.20	2.10	36.0	5572	
	630	29.80	2.40	2.25	40.3	7230	

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Current Carrying Capacity In Air at 30°C	Voltage Drop	Short Circuit Current for 1 sec
Ω/km	A	mV/A/m	kA
12.10	-	27	0.21
7.41		16	0.36
4.61		10	0.57
3.08		6.8	0.86
1.83		4	1.43
1.15		2.5	2.29
0.727	135	1.60	3.58
0.524	169	1.15	5.01
0.387	207	0.87	7.15
0.268	268	0.61	10.02
0.193	328	0.45	13.59
0.153	383	0.37	17.17
0.124	444	0.31	21.46
0.0991	510	0.26	26.47
0.0754	607	0.22	34.34
0.0601	703	0.195	42.93
0.0470	823	0.175	57.23
0.0366	946	0.160	71.54
0.0283	1088	0.150	90.14

SHAPE OF CONDUCTOR

1.5 - 6 sqmm Circular
10 - 630 sqmm Compacted

FIRE RESISTANT CABLE (BS SPECIFICATION)

ONE CORE – COPPER, MICA GLASS TAPE, XLPO INSULATED, NON-ARMOURED, LSOH SHEATHED CABLE (FRMI)

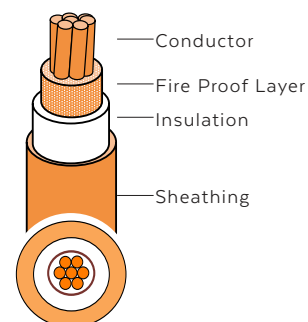
600/1000V, CU / MGT / XLPO / LSOH

STANDARD SPECIFICATION IEC 60502-1, IEC60331, BS6387 CWZ, IEC60332-1, IEC60332-3, IEC60754, IEC61034

CABLE DESCRIPTION Copper Conductor, Mica Glass Tape, XLPO Insulated, Non-Armoured, LSOH Sheathed Cables - 1 Core

CABLE SIZES RANGE 1 Core x (1.5 - 630)mm²

INSULATION COLOURS Orange, other colours is available upon request.


APPLICATION

For general purpose internal wiring of electronic and electrical equipment, installation in surface mounted or embedded conduits or similar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, electrical appliances, switchgear and control gear. Uniform insulation thickness of wire to ensure easy stripping and cutting.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen (IEC 60754, IEC 61034)
- Flame Retardant Cat A, B, C (IEC 60332-3)

STANDARD PACKING

Our fire resistant cable standard packing varies according to sizes, please get in touch with our salesperson for the specific fire resistant cable's standard packing list.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Copper Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	kg/km
1	1.5	1.59	0.70	1.40	7.0	61
	2.5	2.01			7.4	74
	4	2.55			8.0	93
	6	3.12			8.5	118
	10	3.80			9.2	163
	16	4.74			10.2	227
	25	5.97	0.90	1.45	11.8	350
	35	7.10			12.9	455
	50	8.10			14.1	597
	70	9.74	1.10	1.55	16.1	836
	95	11.46		1.60	18.0	1117
	120	12.93	1.20	1.65	19.8	1401
	150	14.33	1.40	1.70	21.7	1484
	185	16.05	1.60	1.80	23.9	2185
	240	18.43	1.70	1.85	26.7	2803
	300	20.64	1.80	2.00	29.2	3511
	400	23.34	2.00	2.10	32.6	4503
	500	26.21	2.20	2.25	36.0	5672
	630	29.80	2.40		40.3	7353

ELECTRICAL DATA

Max. Conductor Resistance, DC at 20°C	Current Carrying Capacity In Air at 30°C	Voltage Drop	Short Circuit Current for 1 sec
Ω/km	A	mV/A/m	kA
12.10	-	27	0.21
7.41	-	16	0.36
4.61	-	10	0.57
3.08	-	6.8	0.86
1.83	-	4	1.43
1.15	-	2.5	2.29
0.727	135	1.60	3.58
0.524	169	1.15	5.01
0.387	207	0.87	7.15
0.268	268	0.61	10.02
0.193	328	0.45	13.59
0.153	383	0.37	17.17
0.124	444	0.31	21.46
0.0991	510	0.26	26.47
0.0754	607	0.22	34.34
0.0601	703	0.195	42.93
0.0470	823	0.175	57.23
0.0366	946	0.160	71.54
0.0283	1088	0.150	90.14

SHAPE OF CONDUCTOR

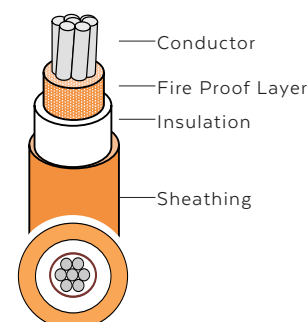
1.5 - 6 sqmm Circular
10 - 630 sqmm Compacted

FIRE RESISTANT CABLE (BS SPECIFICATION)

ONE CORE – ALUMINIUM, MICA GLASS TAPE, XLPO INSULATED, NON-ARMOURED, LSOH SHEATHED CABLE

600/1000V, AL / MGT / XLPO / LSOH

STANDARD SPECIFICATION	IEC 60502-1, IEC60331, BS6387 CWZ, IEC60332-1, IEC60332-3, IEC60754, IEC61034
CABLE DESCRIPTION	Aluminium Conductor, Mica Glass Tape, XLPO Insulated, Non-Armoured, LSOH Sheathed Cables - 1 Core
CABLE SIZES RANGE	1 Core x (16 - 630)mm ²
INSULATION COLOURS	Orange, other colours is available upon request.


APPLICATION

For general purpose internal wiring of electronic and electrical equipment, installation in surface mounted or embedded conduits or similar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, electrical appliances, switchgear and control gear. Uniform insulation thickness of wire to ensure easy stripping and cutting.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen (IEC 60754, IEC 61034)
- Flame Retardant Cat A, B, C (IEC 60332-3)

STANDARD PACKING

Our fire resistant cable standard packing varies according to sizes, please get in touch with our salesperson for the specific fire resistant cable's standard packing list.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Aluminium Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	kg/ km
1	16	4.74	0.70	1.40	10.2	125
	25	5.97	0.90		11.8	188
	35	7.10			12.9	230
	50	8.10	1.00		14.1	293
	70	9.74	1.10	1.45	16.1	397
	95	11.46		1.55	18.0	507
	120	12.93	1.20	1.60	19.8	630
	150	14.33	1.40	1.65	21.7	713
	185	16.05	1.60	1.70	23.9	998
	240	18.43	1.70	1.80	26.7	1263
	300	20.64	1.80	1.85	29.2	1552
	400	23.34	2.00	2.00	32.6	1998
	500	26.21	2.20	2.10	36.0	2514
	630	29.80	2.40	2.25	40.3	3245

ELECTRICAL DATA

Max. Conductor Resistance, DC at 20°C	Current Carrying Capacity In Air at 30°C	Voltage Drop	Short Circuit Current for 1 sec
Ω/km	A	mV/A/m	kA
1.91	99	4.90	1.51
1.200	130	3.09	2.36
0.868	141	2.24	3.31
0.641	159	1.45	4.72
0.443	206	0.98	6.61
0.320	253	0.73	8.98
0.253	296	0.59	11.34
0.206	343	0.47	14.17
0.164	395	0.39	17.48
0.125	471	0.32	22.68
0.1000	544	0.270	28.35
0.0780	638	0.230	37.79
0.0605	743	0.200	47.24
0.0469	849	0.185	59.52

SHAPE OF CONDUCTOR

16 - 630 sqmm Compacted Round

[illegible]

IEC 60331

TEST METHOD
Flame of 750°C and test voltage of the rated voltage of the cable shall be applied for 90 min with 15 min of cooling period.
PERFORMANCE REQUIREMENT
The voltage is maintained and the conductor does not rupture.

IEC 60332 - 1

TEST METHOD	
The cable being aflamed with propane-airburner (1 kW flame) for specified time related to overall diameter	
$\Phi \leq 25$	60s
$\Phi 25 - 50$	120s
$\Phi 51 - 75$	240s
$\Phi \geq 75$	480s
PERFORMANCE REQUIREMENT	
The carbonisation not exceeding 50mm	

IEC 60332 - 3

TEST METHOD	
Cat. A	Non-metallic volume per meter of specimen (7 litre)
Cat. B	Non-metallic volume per meter of specimen (3.5 liter)
Cat. C	Non-metallic volume per meter of specimen (1.5 liter)

PERFORMANCE REQUIREMENT
The charred portion should be less than 2.5m

IEC 60754

TEST METHOD		
STEP 1 Specimen being placed in "combustion boat" (76x15x10 mm) and heated at temperature of 800 ± 100C for 20 minutes.	STEP 2 Amount of halogen acid, is expressed in milligrams of hydrochloric acid per gram: $\% \text{ Weight} = \frac{(36.5 \times (B-A) \times M \times 1000/200)}{m} \times 100$	STEP 3 The pH value and conductivity are calculated as below: $\text{pH} = \log_{10} \frac{\sum i w_i}{\sum i (w_i / 10^x)}$ $\text{Conductivity} = \frac{\sum i c \times w_i}{\sum i w_i}$
PERFORMANCE REQUIREMENT		
The carbonisation not exceeding 50mm		
A = volume of 0.1M ammonium thiocyanate solution used in the test B = volume of 0.1M ammonium thiocyanate solution used in the blank test m = mass of the sample taken grams M = molarity of ammonium thiocyanate solution	x = pH value of each non-metallic material i c = conductivity of each non-metallic material i w _i = weight of each metallic material i per unit length of the cable	

IEC 61034

TEST METHOD	
STEP 1 A 1 meter sample of cable is placed in a 3m smoke chamber. The sample is subjected to the flame burning alcohol.	STEP 2 The smoke produced in the chamber is measured by a photocell.
PERFORMANCE REQUIREMENT	
The minimum light transmittance recorded should be 60%.	

BS 6387

TEST METHOD	
Cat. C	Flame of 950°C and test voltage of the rated voltage of the cable shall be applied for 3 hour.
Cat. W	Flame of 650°C and test voltage of the rated voltage of the cable shall be applied for 15 min. Water shall be sprayed on burnt area and flame shall be applied for a further 15 min.
Cat. Z, F2	Flame of 950°C and test voltage of the rated voltage of the cable shall be applied for 15 min. During this duration a shock producing device is applied for striking the wall on which the cable is mounted.

PERFORMANCE REQUIREMENT
The voltage is maintained and the conductor does not rupture.

HEAD OFFICE & FACTORY

Lot 42, Jalan Merbau Pulas,
Kawasan Perusahaan Kuala Ketil,
09300 Kuala Ketil, Baling, Kedah.

CUSTOMER SERVICE

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QUALITY ACCREDITATION



MS ISO 9001:2015
QMS 00688



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