SOUTHERN CABLE

Design with specification,
manufacture with intergrity.

LOW VOLTAGE CABLES

DESIGN FOR
BUILDING & CONSTRUCTION

SCAN QR FOR FULL BOOKLET

SCAN QR FOR SEPERATE PAGES

SOUTHERNCABLE.COM.MY

Southern Cable manufactures a wide range of low voltage cables based on International Electrotechnical Commission (IEC), Malaysia Standard (MS) and British Standard (BS) specifications. Our low voltage cables are commonly used in final circuits in building, like lighting application, power supply, grounding usage and other fixed wiring usage typically in domestic and light industrial areas.

The low voltage cables are manufactured by Southern Cable complied to the specification of:

STANDARD SPECIFICATIONS

IEC 60227-3	450/750V Non-Sheathed PVC Cable Design Guideline
IEC 60502-1	1kV to 3kV Cable Design Guideline
IEC 60502-2	6kV to 30kV Cable Design Guideline
MS 2112-3	Malaysia Non-Sheathed PVC Cable Design Guideline
MS 2112-4	Malaysia Sheathed PVC Cable Design Guideline
BS 6004	300/500V Cable Design Guideline
BS 6346	600/1000V Cable Design Guideline

IEC 60502-1

TEST METHOD

Class 2 conductor cables for rated voltage from 1kV (U_m=1,2kV) up to 3kV (U_m=3,6kV) with extruded solid insulation.

Cat. A	Systems in which any phase conductor that comes in contact with earth or an earth conductor is disconnected from the system within 1 minute
Cat. B	Systems which, under fault conditions, are operated for a short time with one phase earthed (not exceeding 8hrs on any occasion and no more than 125hrs per annum)
Cat. C	All systems which do not fall into category A or B

IEC 60502-2

DESIGN GUIDELINE

Class 2 conductor cables for rated voltage from 6kV (U_m=7,2kV) up to 30kV (U_m=36kV) with extruded solid insulation.

CONTENT PAGE

PVC INSULATED AMOURED LOW VOLTAGE CABLE

PVC INSULATED ARMOURED LOW VOLTAGE AUXILARY CABLE

BRITISH STANDARD

IEC STANDARD

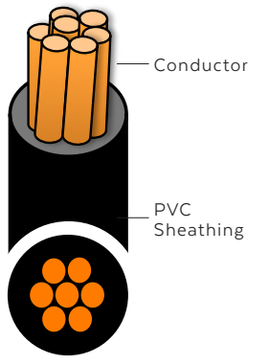
XLPE INSULATED LOW VOLTAGE CABLE

SOUTHERN CABLE

Design with specification,
manufacture with integrity.

SINGLE CORE — COPPER, PVC SHEATHED CABLE

450/750V, CU / PVC



STANDARD SPECIFICATION	IEC 60227-3, MS2112-3
CABLE DESCRIPTION	Copper Conductor, PVC Sheathed Cables - 1 Core
CABLE SIZES RANGE	1 Core x (1.5 - 630)mm²
SHEATHING COLOURS	Black, 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 similiar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, eletrical 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
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	kg/km
1	1.5	1.59	0.70	3.1	23
	2.5	2.01	0.80	3.7	36
	4	2.55		4.3	52
	6	3.12		4.8	74
	10	3.80	1.00	5.9	119
	16	4.74		6.8	179
	25	5.97	1.20	8.5	281
	35	7.10		9.6	380
	50	8.10	1.40	11.0	556
	70	9.74		12.6	786
	95	11.46	1.60	14.8	1085
	120	12.93		16.2	1369
	150	14.33	1.80	18.0	1718
	185	16.05	2.00	20.2	2141
	240	18.43	2.20	22.9	2776
	300	20.64	2.40	25.5	3544
	400	23.34	2.60	28.6	4517
	500	26.21	2.80	31.9	5675
	630	29.80	2.80	35.5	7307

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit-3 Phase	Ampacity in Clipped Direct -3 Phase Touching
Ω/km	kA	A	A
12.10	0.17	15.5	18
7.41	0.29	21	25
4.61	0.46	28	33
3.08	0.86	36	43
1.83	1.15	50	59
1.15	1.84	68	79
0.727	2.88	89	104
0.524	4.03	110	129
0.387	5.75	134	167
0.268	8.05	171	214
0.193	10.93	207	261
0.153	13.80	239	303
0.124	17.25	262	349
0.0991	21.28	296	400
0.0754	27.60	346	472
0.0601	34.50	394	545
0.0470	46.00	467	634
0.0366	57.50	533	723
0.0283	72.45	611	826

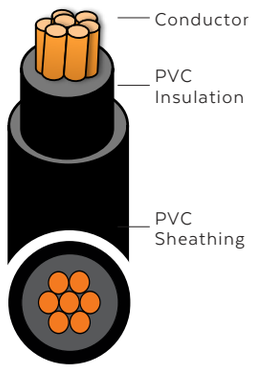
SHAPE OF CONDUCTOR

1.5 - 6 sqmm Circular

10 - 630 sqmm Compacted

SINGLE CORE – COPPER, PVC INSULATED, PVC SHEATHED CABLE

600/1000V
CU / PVC / PVC



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, PVC Insulated, PVC Sheathed Cables - 1 Core
CABLE SIZES RANGE	1 Core x (1.5 - 630)mm²
SHEATHING COLOURS	Black, 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 similiar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, eletrical 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
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	kg/km
1	1.5	1.59	0.80	1.40	6.2	61
	2.5	2.01			6.6	74
	4	2.55	1.00		7.6	101
	6	3.12			8.1	126
	10	3.80			8.8	171
	16	4.74			9.7	236
	25	5.97	1.20		11.4	347
	35	7.10			12.5	450
	50	8.10	1.40		13.9	589
	70	9.74			15.5	804
	95	11.46	1.60		17.9	1085
	120	12.93			19.4	1334
	150	14.33	1.80		21.3	1375
	185	16.05	2.00		23.6	2024
	240	18.43	2.20		26.5	2600
	300	20.64	2.40		29.3	3270
	400	23.34	2.60		32.6	4142
	500	26.21	2.60		35.7	5178
	630	29.80	2.60		39.6	6617

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit-3 Phase	Ampacity in Clipped Direct -3 Phase Touching
Ω/km	kA	A	A
12.10	0.17	15.5	18
7.41	0.29	21	25
4.61	0.46	28	33
3.08	0.86	36	43
1.83	1.15	50	59
1.15	1.84	68	79
0.727	2.88	89	104
0.524	4.03	110	129
0.387	5.75	134	167
0.268	8.05	171	214
0.193	10.93	207	261
0.153	13.80	239	303
0.124	17.25	262	349
0.0991	21.28	296	400
0.0754	27.60	346	472
0.0601	34.50	394	545
0.0470	46.00	467	634
0.0366	57.50	533	723
0.0283	72.45	611	826

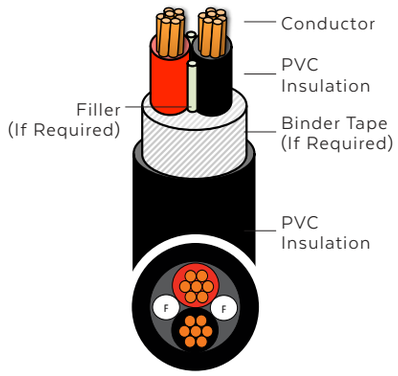
SHAPE OF CONDUCTOR

1.5 - 6 sqmm Circular

10 - 630 sqmm Compacted

TWO CORE – COPPER, PVC INSULATED, PVC SHEATHED CABLE

600/1000V
CU / PVC / PVC



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, XLPE Insulated, PVC Sheathed Cables - 2 Core
CABLE SIZES RANGE	2 Core x (1.5 - 400)mm²
SHEATHING COLOURS	Black, 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 similiar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, eletrical 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
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	kg/km
2	1.5	1.59	0.80	1.80	9.9	119
	2.5	2.01			10.7	148
	4	2.55	1.00		12.6	209
	6	3.12			13.7	263
	10	3.80			15.1	361
	16	4.74			17.0	502
	25	5.97	1.20		20.7	769
	35	7.10			23.0	999
	50	8.10	1.40		25.8	1309
	70	9.74			29.3	1801
	95	11.46	1.60	1.90	33.9	2458
	120	12.93		2.02	37.1	3033
	150	14.33	1.80	2.16	40.9	3208
	185	16.05	2.00	2.33	45.5	4630
	240	18.43	2.20	2.56	51.5	5961
	300	20.64	2.40	2.77	57.2	7493
	400	23.34	2.60	3.01	63.9	9492

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit- 1 Phase	Ampacity in Free Air - 1 Phase
Ω/km	kA	A	A
12.10	0.17	16.5	22
7.41	0.29	23	30
4.61	0.46	30	40
3.08	0.86	38	51
1.83	1.15	52	70
1.15	1.84	69	94
0.727	2.88	90	119
0.524	4.03	111	148
0.387	5.75	133	180
0.268	8.05	168	232
0.193	10.93	201	282
0.153	13.80	232	328
0.124	17.25	258	379
0.0991	21.28	294	434
0.0754	27.60	344	514
0.0601	34.50	394	593
0.0470	46.00	470	715

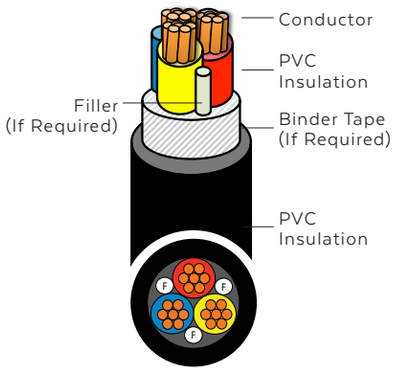
SHAPE OF CONDUCTOR

1.5 - 6 sqmm Circular

10 - 630 sqmm Compacted

THREE CORE – COPPER, PVC INSULATED, PVC SHEATHED CABLE

600/1000V
CU / PVC / PVC



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, XLPE Insulated, PVC Sheathed Cables - 3 Core
CABLE SIZES RANGE	3 Core x (1.5 - 400)mm²
SHEATHING COLOURS	Black, 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 similiar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, eletrical 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
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	kg/km
3	1.5	1.59	0.80	1.80	10.5	145
	2.5	2.01			11.4	185
	4	2.55	1.00		13.4	265
	6	3.12			14.6	341
	10	3.80			16.1	480
	16	4.74			18.1	679
	25	5.97	1.20		22.1	1042
	35	7.10			24.7	1367
	50	8.10	1.40		28.0	1804
	70	9.74			31.7	2503
	95	11.46	1.60		36.7	3421
	120	12.93			40.0	4239
	150	14.33	1.80		44.2	4439
	185	16.05	2.00		49.1	6490
	240	18.43	2.20		55.5	8362
	300	20.64	2.40		61.5	10530
	400	23.34	2.60		68.7	13363

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit - 3 Phase	Ampacity in Free Air - 3 Phase
Ω/km	kA	A	A
12.10	0.17	15	18.5
7.41	0.29	20	25
4.61	0.46	27	34
3.08	0.86	34	43
1.83	1.15	46	60
1.15	1.84	62	80
0.727	2.88	80	101
0.524	4.03	99	126
0.387	5.75	118	153
0.268	8.05	149	196
0.193	10.93	179	238
0.153	13.80	206	276
0.124	17.25	225	319
0.0991	21.28	255	364
0.0754	27.60	297	430
0.0601	34.50	339	497
0.0470	46.00	402	597

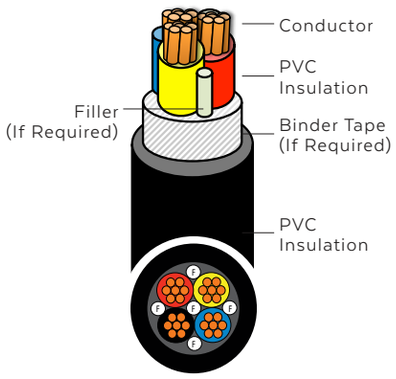
SHAPE OF CONDUCTOR

1.5 - 6 sqmm Circular

10 - 630 sqmm Compacted

FOUR CORE – COPPER, PVC INSULATED, PVC SHEATHED CABLE

600/1000V
CU / PVC / PVC



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, PVC Insulated, PVC Sheathed Cables - 4 Core
CABLE SIZES RANGE	4 Core x (1.5 - 400)mm²
SHEATHING COLOURS	Black, 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 similiar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, eletrical 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
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	kg/km
4	1.5	1.59	0.80	1.80	11.3	177
	2.5	2.01			12.3	228
	4	2.55	1.00		14.6	332
	6	3.12			16.0	431
	10	3.80			17.6	613
	16	4.74			19.9	874
	25	5.97	1.20		24.5	1346
	35	7.10			27.4	1780
	50	8.10	1.40		31.0	2374
	70	9.74			35.3	3294
	95	11.46	1.60		40.7	4513
	120	12.93			44.5	5591
	150	14.33	1.80		49.2	5846
	185	16.05	2.00		54.7	8565
	240	18.43	2.20		61.8	11043
	300	20.64	2.40		68.6	13917
	400	23.34	2.60		76.6	17664

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit - 3 Phase	Ampacity in Free Air - 3 Phase
Ω/km	kA	A	A
12.10	0.17	15	18.5
7.41	0.29	20	25
4.61	0.46	27	34
3.08	0.86	34	43
1.83	1.15	46	60
1.15	1.84	62	80
0.727	2.88	80	101
0.524	4.03	99	126
0.387	5.75	118	153
0.268	8.05	149	196
0.193	10.93	179	238
0.153	13.80	206	276
0.124	17.25	225	319
0.0991	21.28	255	364
0.0754	27.60	297	430
0.0601	34.50	339	497
0.0470	46.00	402	597

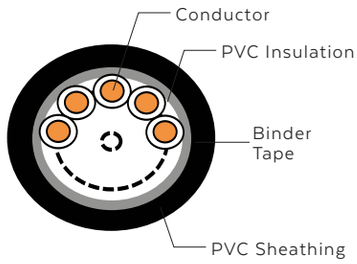
SHAPE OF CONDUCTOR

1.5 - 6 sqmm Circular

10 - 630 sqmm Compacted

MULTICORE – COPPER, PVC INSULATED, PVC SHEATHED CABLE (1.5MM² AUXILIARY CONTROL CABLE)

600/1000V CU / PVC / PVC



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, PVC Insulated, PVC Sheathed Cables - Multicore
CABLE SIZES RANGE	(2 - 27) Core x 1.5mm²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Control cables are multi-conductor cables used in automation and instrumentation applications. Control cables can measure and regulate transmissions of automated processes.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

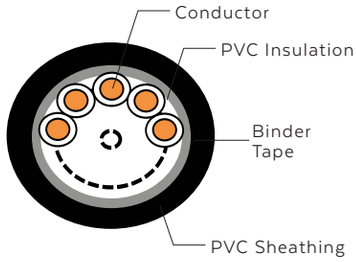
Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	kg/km
2	1.50	1.59	0.80	1.80	9.9	119
3					10.5	145
4					11.3	177
5					12.3	222
6					13.3	257
7						266
8					14.3	300
9					15.3	333
10					16.6	369
11						394
12					17.1	421
13					17.9	453
14						478
15					18.4	507
16					18.9	537
17					19.8	584
18						609
19						618
20					20.8	651
21						676
22					21.9	709
23						734
24					23.2	774
25						799
26						824
27					23.7	853

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit	Ampacity in Free Air
Ω/km	kA	A	A
12.10	0.17	16.5	22
		15	18.5
		15	18.5
		N/A	N/A

MULTICORE – COPPER, PVC INSULATED, PVC SHEATHED CABLE (1.5MM² AUXILIARY CONTROL CABLE)

600/1000V CU / PVC / PVC



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, PVC Insulated, PVC Sheathed Cables - Multicore
CABLE SIZES RANGE	(28 - 50) Core x 1.5mm²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Control cables are multi-conductor cables used in automation and instrumentation applications. Control cables can measure and regulate transmissions of automated processes.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

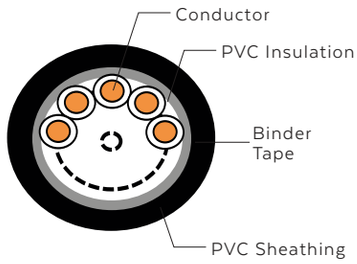
Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	kg/km
28	1.50	1.59	0.80	1.80	23.7	878
29					24.7	916
30						941
31					25.6	989
32						1004
33						1029
34					26.7	1063
35						1088
36						1113
37					27.7	1137
38						1172
39						1196
40						1221
41					28.8	1262
42						1287
43						1312
44					30.2	1355
45						1380
46						1404
47						1429
48					30.8	1466
49					31.7	1499
50						1524

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit	Ampacity in Free Air
Ω/km	kA	A	A
12.10	0.17	N/A	N/A

MULTICORE – COPPER, PVC INSULATED, PVC SHEATHED CABLE (2.5MM² AUXILIARY CONTROL CABLE)

600/1000V CU / PVC / PVC



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, PVC Insulated, PVC Sheathed Cables - Multicore
CABLE SIZES RANGE	(2 - 27) Core x 2.5mm²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Control cables are multi-conductor cables used in automation and instrumentation applications. Control cables can measure and regulate transmissions of automated processes.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

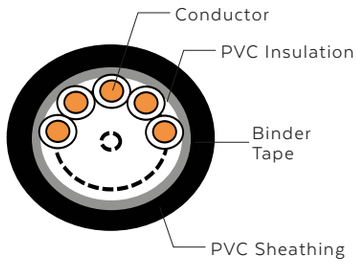
Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	kg/km
2	2.5	1.59	0.80	1.80	10.7	148
3					11.4	185
4					12.3	228
5					13.4	288
6					14.5	338
7						351
8					15.7	396
9					16.8	441
10					18.2	489
11						525
12					18.8	563
13					19.8	607
14						642
15					20.3	682
16					20.8	724
17					21.9	789
18						824
19						837
20					23.2	887
21						923
22					24.4	974
23						1010
24					26.0	1063
25						1098
26						1134
27					26.5	1174

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit	Ampacity in Free Air
Ω/km	kA	A	A
7.41	0.29	23.0	30
		20	25
		20	25
		N/A	N/A

MULTICORE – COPPER, PVC INSULATED, PVC SHEATHED CABLE (2.5MM² AUXILIARY CONTROL CABLE)

600/1000V CU / PVC / PVC



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, PVC Insulated, PVC Sheathed Cables - Multicore
CABLE SIZES RANGE	(28 - 50) Core x 2.5mm²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Control cables are multi-conductor cables used in automation and instrumentation applications. Control cables can measure and regulate transmissions of automated processes.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

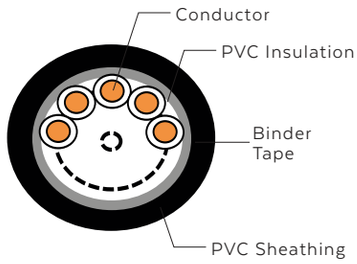
Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	kg/km
28	2.5	1.59	0.80	1.80	26.5	1210
29					27.6	1261
30						1296
31					28.6	1364
32						1382
33						1418
34					29.9	1465
35						1500
36						1536
37						1571
38					31.1	1625
39						1661
40						1696
41					32.3	1750
42						1786
43						1821
44					33.9	1878
45						1914
46						1949
47						1985
48					34.4	2026
49					35.5	2080
50						2116

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit	Ampacity in Free Air
Ω/km	kA	A	A
7.41	0.29	N/A	N/A

MULTICORE – COPPER, PVC INSULATED, PVC SHEATHED CABLE (4.0MM² AUXILIARY CONTROL CABLE)

600/1000V CU / PVC / PVC



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, PVC Insulated, PVC Sheathed Cables - Multicore
CABLE SIZES RANGE	(2 - 27) Core x 4.0mm²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Control cables are multi-conductor cables used in automation and instrumentation applications. Control cables can measure and regulate transmissions of automated processes.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

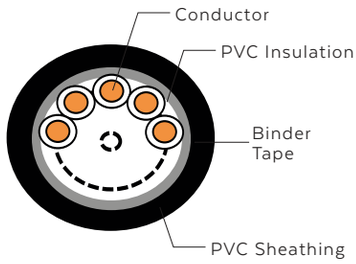
Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	kg/km
2	4.0	2.55	0.80	1.80	12.6	209
3					13.4	265
4					14.6	332
5					15.9	419
6					17.3	511
7						521
8					18.8	589
9					20.2	658
10					22.0	730
11						786
12					22.7	847
13					24.0	919
14						976
15					24.7	1043
16					25.4	1107
17					26.9	1227
18						1284
19						1293
20					28.5	1369
21						1426
22					30.0	1503
23						1559
24					32.0	1647
25						1703
26						1760
27					32.7	1824

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit	Ampacity in Free Air
Ω/km	kA	A	A
4.61	0.46	23.0	30
		20	25
		20	25
		N/A	N/A

MULTICORE – COPPER, PVC INSULATED, PVC SHEATHED CABLE (4.0MM² AUXILIARY CONTROL CABLE)

600/1000V CU / PVC / PVC



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, PVC Insulated, PVC Sheathed Cables - Multicore
CABLE SIZES RANGE	(28 - 50) Core x 4.0mm²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Control cables are multi-conductor cables used in automation and instrumentation applications. Control cables can measure and regulate transmissions of automated processes.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

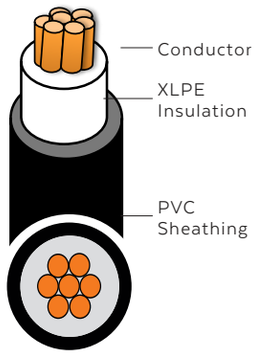
Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	kg/km
28	4.0	1.59	0.80	1.80	32.7	1880
29					34.0	1957
30						2013
31					35.4	2138
32						2153
33						2210
34					36.9	2284
35						2340
36						2397
37						2454
38					38.5	2534
39						2591
40						2648
41					40.0	2729
42						2785
43						2842
44					41.9	2928
45						2984
46						3041
47						3097
48					42.7	3172
49					43.9	3243
50						3299

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit	Ampacity in Free Air
Ω/km	kA	A	A
4.61	0.46	N/A	N/A

SINGLE CORE – COPPER, XLPE INSULATED, PVC SHEATHED CABLE

600/1000V
CU / XLPE / PVC



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, XLPE Insulated, PVC Sheathed Cables - 1 Core
CABLE SIZES RANGE	1 Core x (1.5 - 630)mm²
SHEATHING COLOURS	Black, 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 similiar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, eletrical 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
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	kg/km
1	1.5	1.59	0.70	1.40	5.9	51
	2.5	2.01			6.3	64
	4	2.55			6.9	83
	6	3.12			7.4	107
	10	3.80			8.1	150
	16	4.74			9.0	214
	25	5.97	0.90		10.7	319
	35	7.10			11.8	422
	50	8.10	1.00		13.0	579
	70	9.74	1.10	1.45	14.9	810
	95	11.46		1.55	16.9	1099
	120	12.93	1.20	1.60	18.6	1395
	150	14.33	1.40	1.65	20.5	1732
	185	16.05	1.60	1.70	22.8	2127
	240	18.43	1.70	1.80	25.5	2737
	300	20.64	1.80	1.85	28.0	3466
	400	23.34	2.00	2.00	31.4	4406
	500	26.21	2.20	2.10	34.9	5525
	630	29.80	2.40	2.25	39.2	7141

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit - 3 Phase	Ampacity in Clipped Direct - 3 Phase Touching
Ω/km	kA	A	A
12.10	0.21	20	23
7.41	0.36	28	31
4.61	0.57	37	41
3.08	0.86	48	45
1.83	1.43	66	74
1.15	2.29	88	99
0.727	3.58	117	130
0.524	5.01	144	161
0.387	7.15	175	209
0.268	10.02	222	268
0.193	13.59	269	326
0.153	17.17	312	379
0.124	21.46	342	436
0.0991	26.47	384	500
0.0754	34.34	450	590
0.0601	42.93	514	681
0.0470	57.23	584	793
0.0366	71.54	666	904
0.0283	90.14	764	1033

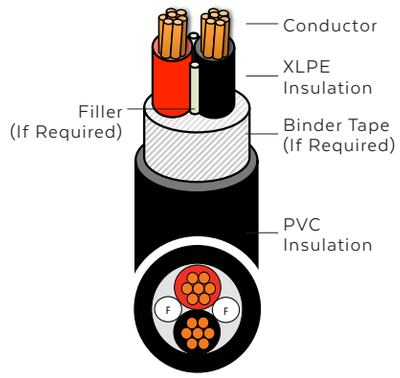
SHAPE OF CONDUCTOR

1.5 - 6 sqmm Circular

10 - 630 sqmm Compacted

TWO CORE – COPPER, XLPE INSULATED, PVC SHEATHED CABLE

600/1000V
CU / XLPE / PVC



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, XLPE Insulated, PVC Sheathed Cables - 2 Core
CABLE SIZES RANGE	2 Core x (1.5 - 400)mm²
SHEATHING COLOURS	Black, 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 similiar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, eletrical 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
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	kg/km
2	1.5	1.59	0.70	1.80	9.6	112
	2.5	2.01			10.4	140
	4	2.55			11.5	184
	6	3.12			12.6	237
	10	3.80			14.0	333
	16	4.74			15.9	472
	25	5.97	0.90		19.6	710
	35	7.10			22.0	937
	50	8.10	1.00		24.6	1231
	70	9.74	1.10	1.90	28.4	1722
	95	11.46		2.05	32.2	2319
	120	12.93	1.20	2.15	35.7	2896
	150	14.33	1.40	2.30	39.6	3659
	185	16.05	1.60	2.45	44.2	4435
	240	18.43	1.70	2.60	49.6	5681
	300	20.64	1.80	2.80	54.8	7135
	400	23.34	2.00	3.00	61.4	9059

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit - 3 Phase	Ampacity in Free Air - 3 Phase
Ω/km	kA	A	A
12.10	0.21	22	26
7.41	0.36	30	36
4.61	0.57	40	49
3.08	0.86	51	63
1.83	1.43	69	86
1.15	2.29	91	115
0.727	3.58	110	149
0.524	5.01	146	185
0.387	7.15	175	225
0.268	10.02	221	289
0.193	13.59	265	352
0.153	17.17	305	410
0.124	21.46	334	473
0.0991	26.47	384	542
0.0754	34.34	459	641
0.0601	42.93	532	741
0.0470	57.23	625	865

SHAPE OF CONDUCTOR

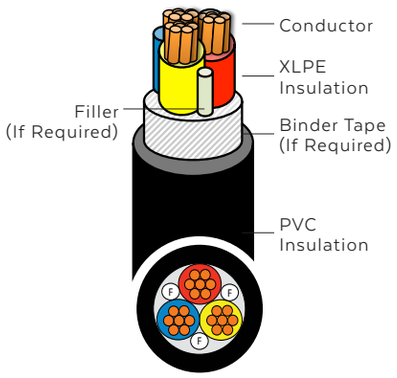
1.5 - 6 sqmm Circular

10 - 400 sqmm Compacted

THREE CORE – COPPER, XLPE INSULATED, PVC SHEATHED CABLE

600/1000V
CU / XLPE / PVC

STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, XLPE Insulated, PVC Sheathed Cables - 3 Core
CABLE SIZES RANGE	3 Core x (1.5 - 400)mm²
SHEATHING COLOURS	Black, 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 similiar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, eletrical 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
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	kg/km
3	1.5	1.59	0.70	1.80	10.0	145
	2.5	2.01			10.9	185
	4	2.55			12.0	265
	6	3.12			13.2	341
	10	3.80			14.7	480
	16	4.74			16.7	679
	25	5.97	0.90		20.7	1042
	35	7.10			23.2	1367
	50	8.10	1.00		25.7	1804
	70	9.74	1.10		30.0	2503
	95	11.46	1.10	1.91	34.0	3421
	120	12.93	1.20	2.05	37.9	4239
	150	14.33	1.40	2.21	42.1	4439
	185	16.05	1.60	2.39	47.0	6490
	240	18.43	1.70	2.61	53.0	8362
	300	20.64	1.80	2.82	58.7	10530
	400	23.34	2.00	3.09	65.9	13363

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit - 3 Phase	Ampacity in Free Air - 3 Phase
Ω/km	kA	A	A
12.10	0.21	19.5	23
7.41	0.36	26	32
4.61	0.57	35	42
3.08	0.86	44	54
1.83	1.43	60	75
1.15	2.29	80	100
0.727	3.58	105	127
0.524	5.01	128	158
0.387	7.15	154	192
0.268	10.02	194	246
0.193	13.59	233	298
0.153	17.17	268	346
0.124	21.46	300	399
0.0991	26.47	340	456
0.0754	34.34	398	538
0.0601	42.93	455	621
0.0470	57.23	536	741

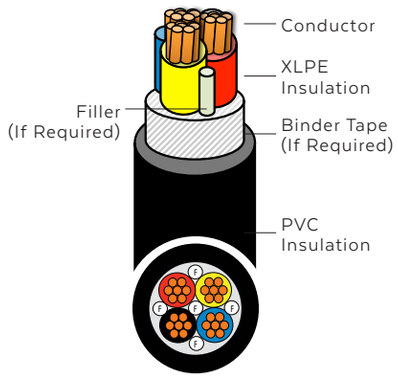
SHAPE OF CONDUCTOR

1.5 - 6 sqmm Circular

10 - 400 sqmm Compacted

FOUR CORE – COPPER, XLPE INSULATED, PVC SHEATHED CABLE

600/1000V
CU / XLPE / PVC



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, XLPE Insulated, PVC Sheathed Cables - 4 Core
CABLE SIZES RANGE	4 Core x (1.5 - 400)mm²
SHEATHING COLOURS	Black, 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 similiar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, eletrical 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
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	kg/km
4	1.5	1.59	0.70	1.80	10.8	158
	2.5	2.01			11.8	206
	4	2.55			13.1	281
	6	3.12			14.4	375
	10	3.80			16.1	551
	16	4.74			18.4	805
	25	5.97	0.90		22.8	1234
	35	7.10			25.5	1646
	50	8.10	1.00		28.6	2185
	70	9.74	1.10	1.88	33.4	3101
	95	11.46		2.05	37.9	4210
	120	12.93	1.20	2.21	42.2	5290
	150	14.33	1.40	2.39	46.9	5489
	185	16.05	1.60	2.59	52.5	8141
	240	18.43	1.70	2.84	59.2	10486
	300	20.64	1.80	3.07	65.5	13213
	400	23.34	2.00	3.37	73.5	16838

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit - 3 Phase	Ampacity in Free Air - 3 Phase
Ω/km	kA	A	A
12.10	0.21	19.5	23
7.41	0.36	26	32
4.61	0.57	35	42
3.08	0.86	44	54
1.83	1.43	60	75
1.15	2.29	80	100
0.727	3.58	105	127
0.524	5.01	128	158
0.387	7.15	154	192
0.268	10.02	194	246
0.193	13.59	233	298
0.153	17.17	268	346
0.124	21.46	300	399
0.0991	26.47	340	456
0.0754	34.34	398	538
0.0601	42.93	455	621
0.0470	57.23	536	741

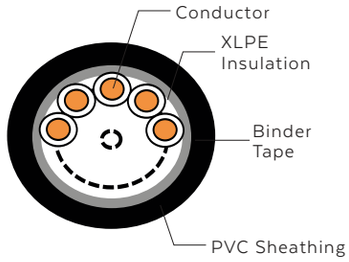
SHAPE OF CONDUCTOR

1.5 - 6 sqmm Circular

10 - 400 sqmm Compacted

MULTICORE – COPPER, XLPE INSULATED, PVC SHEATHED CABLE (1.5MM² AUXILIARY CONTROL CABLE)

600/1000V CU / XLPE / PVC



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, XLPE Insulated, PVC Insulated, PVC Sheathed Cables - Multicore
CABLE SIZES RANGE	(2 - 27) Core x 1.5mm²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Control cables are multi-conductor cables used in automation and instrumentation applications. Control cables can measure and regulate transmissions of automated processes.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

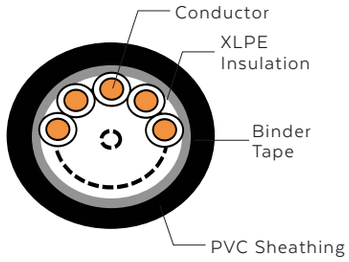
Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	kg/km
2	1.5	1.59	0.70	1.80	9.6	112
3					10.0	145
4					10.8	158
5					11.7	193
6					12.7	220
7						228
8					13.6	255
9					14.6	284
10					15.8	314
11						334
12					16.2	356
13					17.0	384
14						405
15					17.4	428
16					17.9	455
17					18.8	490
18						510
19						517
20					20.3	554
21						574
22					21.2	602
23						622
24					22.5	657
25						677
26						697
27					23.1	726

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit	Ampacity in Free Air
Ω/km	kA	A	A
12.10	0.21	22	26
		19.5	23
		19.5	23
		N/A	N/A

MULTICORE – COPPER, XLPE INSULATED, PVC SHEATHED CABLE (1.5MM² AUXILIARY CONTROL CABLE)

600/1000V CU / XLPE / PVC



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, XLPE Insulated, PVC Insulated, PVC Sheathed Cables - Multicore
CABLE SIZES RANGE	(28 - 50) Core x 1.5mm²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Control cables are multi-conductor cables used in automation and instrumentation applications. Control cables can measure and regulate transmissions of automated processes.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

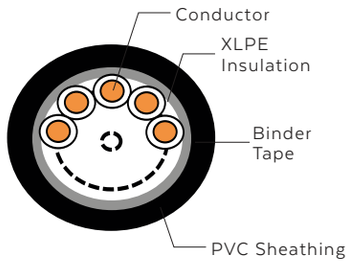
Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	kg/km
28	1.5	1.59	0.70	1.80	21.1	746
29					23.9	775
30						795
31					24.9	840
32						852
33						873
34					25.9	901
35						922
36						942
37						962
38					26.8	990
39						1011
40						1031
41					27.9	1067
42						1087
43						1107
44					29.2	1144
45						1164
46						1184
47						1204
48					29.7	1229
49					30.6	1266
50						1286

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit	Ampacity in Free Air
Ω/km	kA	A	A
12.10	0.21	N/A	N/A

MULTICORE – COPPER, XLPE INSULATED, PVC SHEATHED CABLE (2.5MM² AUXILIARY CONTROL CABLE)

600/1000V CU / XLPE / PVC



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, XLPE Insulated, PVC Insulated, PVC Sheathed Cables - Multicore
CABLE SIZES RANGE	(2 - 27) Core x 2.5mm²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Control cables are multi-conductor cables used in automation and instrumentation applications. Control cables can measure and regulate transmissions of automated processes.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

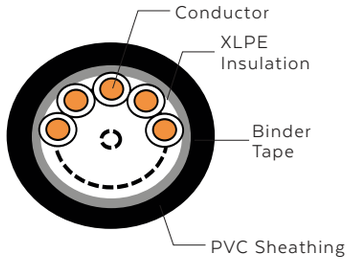
Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	kg/km
2	2.5	1.59	0.70	1.80	10.4	140
3					10.9	185
4					11.8	206
5					12.9	255
6					13.9	295
7						306
8					15.0	345
9					16.1	384
10					17.4	425
11						455
12					18.0	487
13					18.9	527
14						557
15					19.4	590
16					20.4	637
17					21.4	688
18						718
19						728
20					22.6	773
21						802
22					23.8	848
23						877
24					25.2	924
25						954
26						984
27					25.8	1018

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit	Ampacity in Free Air
Ω/km	kA	A	A
7.41	0.36	30	36
		26	32
		26	32
		N/A	N/A

MULTICORE – COPPER, XLPE INSULATED, PVC SHEATHED CABLE (2.5MM² AUXILIARY CONTROL CABLE)

600/1000V CU / XLPE / PVC



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, XLPE Insulated, PVC Insulated, PVC Sheathed Cables - Multicore
CABLE SIZES RANGE	(28 - 50) Core x 2.5mm²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Control cables are multi-conductor cables used in automation and instrumentation applications. Control cables can measure and regulate transmissions of automated processes.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

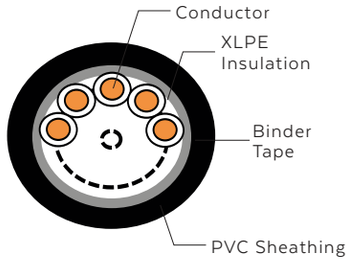
Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	kg/km
28	2.5	1.59	0.70	1.80	25.8	1048
29					26.8	1095
30						1125
31					27.9	1187
32						1205
33						1234
34					29.0	1274
35						1304
36						1333
37						1363
38					30.1	1403
39						1434
40						1464
41					31.3	1512
42						1541
43						1571
44					32.7	1621
45						1651
46						1681
47						1711
48					33.4	1541
49					34.3	1796
50						1825

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit	Ampacity in Free Air
Ω/km	kA	A	A
12.10	0.21	N/A	N/A

MULTICORE – COPPER, XLPE INSULATED, PVC SHEATHED CABLE (4.0MM² AUXILIARY CONTROL CABLE)

600/1000V CU / XLPE / PVC



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, XLPE Insulated, PVC Insulated, PVC Sheathed Cables - Multicore
CABLE SIZES RANGE	(2 - 27) Core x 4.0mm²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Control cables are multi-conductor cables used in automation and instrumentation applications. Control cables can measure and regulate transmissions of automated processes.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

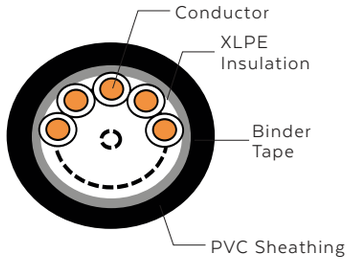
Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	kg/km
2	4.0	2.55	0.70	1.80	11.5	184
3					12.0	265
4					13.1	281
5					14.3	350
6					15.5	413
7						428
8					16.8	483
9					18.0	539
10					20.1	606
11						652
12					20.8	705
13					22.0	768
14					22.0	814
15					22.5	863
16					23.2	926
17					24.5	1009
18						1054
19						1069
20					25.8	1132
21						1178
22					27.2	1242
23						1287
24					28.9	1353
25						1399
26						1444
27					29.5	1496

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit	Ampacity in Free Air
Ω/km	kA	A	A
4.61	0.57	40	49
		35	42
		35	42
		N/A	N/A

MULTICORE – COPPER, XLPE INSULATED, PVC SHEATHED CABLE (4.0MM² AUXILIARY CONTROL CABLE)

600/1000V CU / XLPE / PVC



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, XLPE Insulated, PVC Insulated, PVC Sheathed Cables - Multicore
CABLE SIZES RANGE	(28 - 50) Core x 4.0mm²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Control cables are multi-conductor cables used in automation and instrumentation applications. Control cables can measure and regulate transmissions of automated processes.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

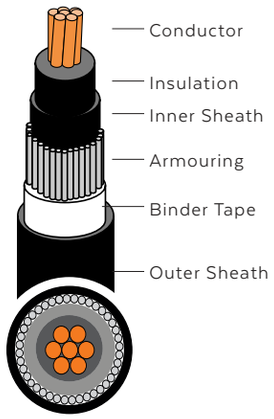
Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	kg/km
28	4.0	2.55	0.70	1.80	29,5	1541
29					30.6	1607
30						1653
31					31.9	1744
32						1769
33						1814
34					33.2	1871
35						1916
36						1961
37						2007
38					34.5	2073
39						2119
40						2165
41					35.9	2232
42						2278
43						2323
44					37.6	2394
45						2439
46						2484
47						2530
48					38.2	2582
49					39.4	2661
50						2707

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit	Ampacity in Free Air
Ω/km	kA	A	A
4.61	0.57	N/A	N/A

SINGLE CORE — COPPER, PVC INSULATED, ALUMINIUM WIRE ARMOURED, PVC SHEATHED CABLE

600/1000 CU / PVC / AWA / PVC



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, PVC Insulated, Aluminium Wire Armoured, PVC Sheathed Cables - 1 Core
CABLE SIZES RANGE	1 Core x (10 - 630)mm²
SHEATHING COLOURS	Black, 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 similiar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, eletrical 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
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

No. of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Inner Sheath Diameter (Approx)	Aluminium Wire Armoured Diameter	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	mm	mm	mm	kg/km
1	10	3.80	1.00	1.0	7.9	1.04	1.8	13.8	310
	16	4.74			8.8			14.8	388
	25	5.97	1.20		10.5	1.25		16.8	542
	35	7.10			11.6			18.0	666
	50	8.10	1.40		13.0			19.4	871
	70	9.74			14.6			21.0	1135
	95	11.46	1.60		16.8	1.60		24.0	1535
	120	12.93			18.2			25.5	1860
	150	14.33	1.80		20.0			27.5	2260
	185	16.05	2.00		22.2			29.7	2745
	240	18.43	2.20		24.9			32.7	3462
	300	20.64	2.40	1.2	27.9	2.00		36.8	4440
	400	23.34	2.60		31.0			40.1	5523
	500	26.21			34.3			43.6	6801
	630	29.80		1.4	38.3	2.50		48.9	8774

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit	Ampacity in Free Air
Ω/km	kA	A	A
1.83	1.15	-	-
1.15	1.84		
0.727	2.88		
0.524	4.03		
0.387	5.75	179	181
0.268	8.05	225	231
0.193	10.93	269	280
0.153	13.80	309	324
0.124	17.25	352	373
0.0991	21.28	399	425
0.0754	27.60	465	501
0.0601	34.50	515	567
0.0470	46.00	575	657
0.0366	57.50	622	731
0.0283	72.45	669	809

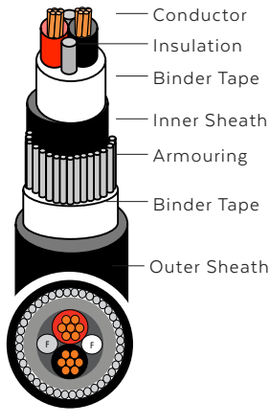
SHAPE OF CONDUCTOR

10 - 630 sqmm Circular Compacted

TWO CORE – COPPER, PVC INSULATED, STEEL WIRE ARMOURED, PVC SHEATHED CABLE

600/1000 CU / PVC / SWA / PVC

STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, PVC Insulated, Steel Wire Armoured, PVC Sheathed Cables - 2 Core
CABLE SIZES RANGE	2 Core x (1.5 - 400)mm²
SHEATHING COLOURS	Black, 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 similiar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, eletrical 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
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

No. of Core	Nominal Sectional Area	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Inner Sheath Diameter (Approx)	Gal. Steel Wire Armoured Diameter	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	mm	mm	kg/km
2	1.5	0.80	1.0	8.7	0.90	1.8	14.3	340
	2.5	0.80		9.5			15.2	380
	4	1.00		11.4	1.25		17.8	490
	6	1.00		12.5			18.9	570
	10	1.00		13.9			20.3	680
	16	1.00		15.8	1.60		22.9	870
	25	1.20		19.0			26.4	1310
	35	1.20		21.3			28.8	1570
	50	1.40		24.1			31.0	1970
	70	1.40	1.2	23.1			31.0	2700
	95	1.60		26.9	2.00		35.5	3500
	120	1.60		28.9			37.5	4110
	150	1.80	1.4	31.7			40.5	4830
	185	2.00		35.7	2.50		46.0	6240
	240	2.20		40.1			50.5	7810
	300	2.40	1.6	44.7			55.5	9320
	400	2.60		49.1			60.5	11420

ELECTRICAL DATA

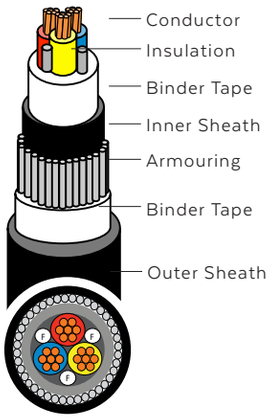
Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit	Ampacity in Free Air
Ω/km	kA	A	A
12.10	0.17	22	22
7.41	0.29	31	29
4.61	0.46	41	37
3.08	0.86	53	46
1.83	1.15	72	60
1.15	1.84	97	78
0.727	2.88	128	99
0.524	4.03	157	119
0.387	5.75	190	140
0.268	8.05	241	173
0.193	10.93	291	204
0.153	13.80	336	231
0.124	17.25	386	261
0.0991	21.28	439	292
0.0754	27.60	516	336
0.0601	34.50	592	379
0.0470	46.00	683	-

SHAPE OF CONDUCTOR

1.5 - 6 sqmm	Circular
10 - 50 sqmm	Compacted
70 - 400 sqmm	Shape

THREE CORE – COPPER, PVC INSULATED, STEEL WIRE ARMOURED, PVC SHEATHED CABLE

600/1000 CU / PVC / SWA / PVC



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, PVC Insulated, Steel Wire Armoured, PVC Sheathed Cables - 3 Core
CABLE SIZES RANGE	3 Core x (1.5 - 400)mm²
SHEATHING COLOURS	Black, 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 similiar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, eletrical 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
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

No. of Core	Nominal Sectional Area	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Inner Sheath Diameter (Approx)	Gal. Steel Wire Armoured Diameter	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	mm	mm	kg/km
3	1.5	0.80	1.0	9.2	0.90	1.8	14.8	370
	2.5			10.1	1.25		16.4	430
	4	1.00		12.1			18.5	560
	6			13.3			19.7	660
	10			14.8			21.2	820
	16			16.8	1.60		24.0	1070
	25	1.20		20.3			27.8	1670
	35			22.8			30.4	2050
	50	1.40		23.8			31.0	2610
	70			27.2	2.00		35.5	3650
	95	1.60	1.2	31.6			40.0	4720
	120			33.7			42.0	5560
	150	1.80		37.0	2.50		47.0	7010
	185	2.00	1.4	41.6			52.0	8490
	240	2.20		47.2			58.0	10750
	300	2.40	1.6	52.0			63.0	12870
	400	2.60		57.6	3.15		70.5	16680

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit	Ampacity in Free Air
Ω/km	kA	A	A
12.10	0.17	19	18
7.41	0.29	26	24
4.61	0.46	35	30
3.08	0.86	45	38
1.83	1.15	62	50
1.15	1.84	83	64
0.727	2.88	110	82
0.524	4.03	135	98
0.387	5.75	163	116
0.268	8.05	207	143
0.193	10.93	251	169
0.153	13.80	290	192
0.124	17.25	332	217
0.0991	21.28	378	243
0.0754	27.60	445	280
0.0601	34.50	510	316
0.0470	46.00	590	-

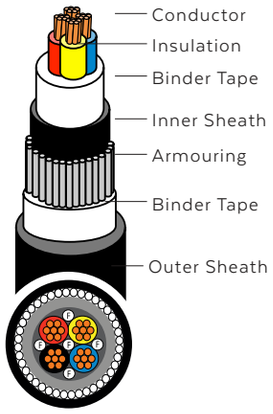
SHAPE OF CONDUCTOR

1.5 - 6 sqmm	Circular
10 - 50 sqmm	Compacted
70 - 400 sqmm	Shape

FOUR CORE – COPPER, PVC INSULATED, STEEL WIRE ARMOURED, PVC SHEATHED CABLE

600/1000 CU / PVC / SWA / PVC

STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, PVC Insulated, Steel Wire Armoured, PVC Sheathed Cables - 4 Core
CABLE SIZES RANGE	4 Core x (1.5 - 400)mm²
SHEATHING COLOURS	Black, 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 similiar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, eletrical 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
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

No. of Core	Nominal Sectional Area	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Inner Sheath Diameter (Approx)	Gal. Steel Wire Armoured Diameter	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	mm	mm	kg/km
4	1.5	0.80	1.0	10.0	0.90	1.8	14.8	430
	2.5			11.0	1.25		16.4	500
	4	1.00		13.3			18.5	650
	6			14.7			19.7	790
	10			16.3			21.2	980
	16			18.6	1.60		24.0	1560
	25	1.20		22.5			27.8	2030
	35			25.3			30.4	2520
	50	1.40	1.2	26.6	2.00		34.5	3480
	70			30.1			38.5	4520
	95	1.60		34.6	2.50		44.5	6220
	120		1.5	37.8			47.5	7440
	150	1.80		42.0			52.5	8880
	185	2.00	1.6	47.3			58.0	10830
	240	2.20		52.9			64.0	13650
	300	2.40		59.0	3.15		72.0	17240
	400	2.60	1.8	66.0			79.5	21390

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Conduit	Ampacity in Free Air
Ω/km	kA	A	A
12.10	0.17	19	18
7.41	0.29	26	24
4.61	0.46	35	30
3.08	0.86	45	38
1.83	1.15	62	50
1.15	1.84	83	64
0.727	2.88	110	82
0.524	4.03	135	98
0.387	5.75	163	116
0.268	8.05	207	143
0.193	10.93	251	169
0.153	13.80	290	192
0.124	17.25	332	217
0.0991	21.28	378	243
0.0754	27.60	445	280
0.0601	34.50	510	316
0.0470	46.00	590	-

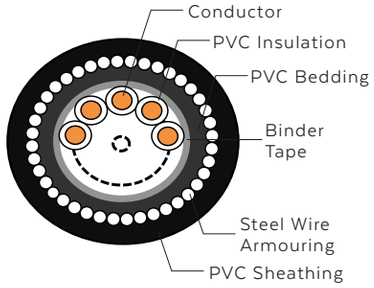
SHAPE OF CONDUCTOR

1.5 - 6 sqmm	Circular
10 - 50 sqmm	Compacted
70 - 400 sqmm	Shape

BRITISH STANDARD

MULTICORE – COPPER, PVC INSULATED, STEEL WIRE ARMOUR, PVC SHEATHED CABLE (1.5MM² AUXILIARY CONTROL CABLE)

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



STANDARD SPECIFICATION	BS 6346
CABLE DESCRIPTION	Copper Conductor, PVC Insulated, Steel Wire Armour, PVC Sheathed Cables - Multicore
CABLE SIZES RANGE	(5 - 19) Core x 1.5mm²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Control cables are multi-conductor cables used in automation and instrumentation applications. Control cables can measure and regulate transmissions of automated processes. Especially - Substation Power Project

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Diameter (Approx)	Nominal Insulation Thickness	Norminal Bedding Thickness	Bedding Diameter (Approx)	Nominal Galvanized Steel Wire	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm	mm	mm	mm	mm	mm	mm	kg/km
5	1.59	0.60	0.80	10.2	0.9	1.4	14.4	390
6				11.1			15.3	440
7								450
8				12.0		1.50	16.4	510
9				12.9	1.25		18.0	650
10				14.0			19.1	700
11								720
12				14.5			19.6	760
13				14.8		1.60	20.1	800
14				15.3			20.6	840
15				15.7			21.0	880
16				16.1			21.4	910
17				16.6			21.9	960
18				17.0			22.3	990
19								1000

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C
Ω/km
12.1

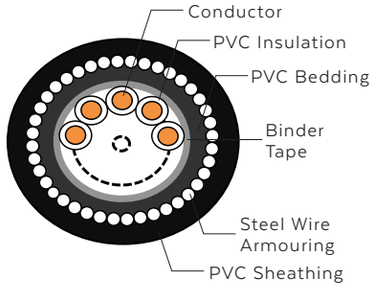
SHAPE OF CONDUCTOR

5 - 19 Core Circular Stranded

BRITISH STANDARD

MULTICORE – COPPER, PVC INSULATED, STEEL WIRE ARMOUR, PVC SHEATHED CABLE (1.5MM² AUXILIARY CONTROL CABLE)

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



STANDARD SPECIFICATION	BS 6346
CABLE DESCRIPTION	Copper Conductor, PVC Insulated, Steel Wire Armour PVC Sheathed Cables - Multicore
CABLE SIZES RANGE	(20 - 50) Core x 1.5mm²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Control cables are multi-conductor cables used in automation and instrumentation applications. Control cables can measure and regulate transmissions of automated processes. Especially - Substation Power Project

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Diameter (Approx)	Nominal Insulation Thickness	Nominal Bedding Thickness	Bedding Diameter (Approx)	Nominal Galvanized Steel Wire	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm	mm	mm	mm	mm	mm	mm	kg/km
20	1.59	0.60	0.80	17.6	1.25	1.60	22.9	1060
21				17.9			23.2	1090
22				18.9	1.60	1.70	25.1	1300
23				19.3			25.5	1350
24				20.4			26.6	1400
25								1430
26								1450
27				20.9			27.1	1490
28								1510
29				21.1			27.4	1540
30				21.7			27.9	1580
37				23.4		1.80	29.8	1810
40				24.3			30.7	1930
48				26.9		1.90	33.5	2230
50								2270

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C
Ω/km
12.1

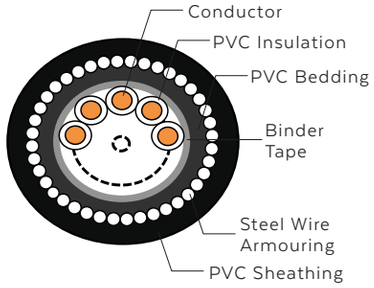
SHAPE OF CONDUCTOR

20 - 50 Core Circular Stranded

BRITISH STANDARD

MULTICORE – COPPER, PVC INSULATED, STEEL WIRE ARMOUR, PVC SHEATHED CABLE (2.5MM² AUXILIARY CONTROL CABLE)

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



STANDARD SPECIFICATION	BS 6346
CABLE DESCRIPTION	Copper Conductor, PVC Insulated, Steel Wire Armour, PVC Sheathed Cables - Multicore
CABLE SIZES RANGE	(5 - 19) Core x 2.5mm²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Control cables are multi-conductor cables used in automation and instrumentation applications. Control cables can measure and regulate transmissions of automated processes. Especially - Substation Power Project

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Diameter (Approx)	Nominal Insulation Thickness	Nominal Bedding Thickness	Bedding Diameter (Approx)	Nominal Galvanized Steel Wire	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm	mm	mm	mm	mm	mm	mm	kg/km
5	2.01	0.70	0.80	11.8	0.80	1.50	16.2	510
6				12.9			18.0	650
7								670
8				14.0			19.1	760
9				15.1		1.60	20.4	850
10				16.5			21.8	920
11								950
12				17.1			22.4	1000
13				17.4			22.7	1050
14			1.00	18.4	1.0	1.70	24.6	1260
15				18.9			25.1	1330
16				19.5			25.7	1380
17				20.0			26.3	1440
18				20.5			26.8	1490
19								1510

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C
Ω/km
7.41

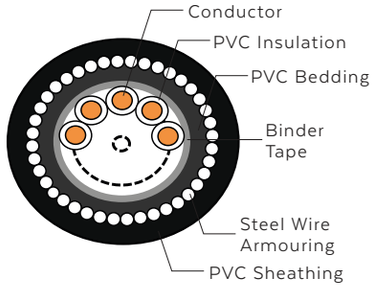
SHAPE OF CONDUCTOR

5 - 19 Core Circular Stranded

BRITISH STANDARD

MULTICORE – COPPER, PVC INSULATED, STEEL WIRE ARMOUR, PVC SHEATHED CABLE (2.5MM² AUXILIARY CONTROL CABLE)

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



STANDARD SPECIFICATION	BS 6346
CABLE DESCRIPTION	Copper Conductor, PVC Insulated, Steel Wire Armour PVC Sheathed Cables - Multicore
CABLE SIZES RANGE	(20 - 50) Core x 2.5mm²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Control cables are multi-conductor cables used in automation and instrumentation applications. Control cables can measure and regulate transmissions of automated processes. Especially - Substation Power Project

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Diameter (Approx)	Nominal Insulation Thickness	Nominal Bedding Thickness	Bedding Diameter (Approx)	Nominal Galvanized Steel Wire	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm	mm	mm	mm	mm	mm	mm	kg/km
20	2.01	0.70	1.00	1.0	1.60	1.80	27.6	1590
21							28.1	1650
22							28.7	1710
23							29.2	1770
24							30.6	1860
25								1890
26								1920
27							31.1	1980
28								2010
29						1.90	31.6	32.3
30							32.3	2140
37						2.00	34.4	2460
40			1.20	1.20	2.00		36.9	2880
48						2.10	40.2	3330
50								3400

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C
Ω/km
7.41

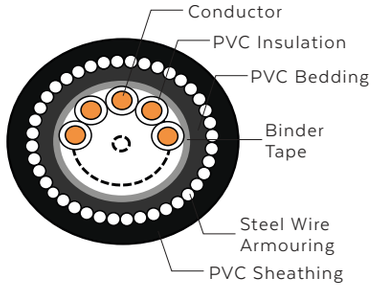
SHAPE OF CONDUCTOR

20 - 50 Core Circular Stranded

BRITISH STANDARD

MULTICORE – COPPER, PVC INSULATED, STEEL WIRE ARMOUR, PVC SHEATHED CABLE (4.0MM² AUXILIARY CONTROL CABLE)

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



STANDARD SPECIFICATION	BS 6346
CABLE DESCRIPTION	Copper Conductor, PVC Insulated, Steel Wire Armour, PVC Sheathed Cables - Multicore
CABLE SIZES RANGE	(5 - 19) Core x 4.0mm²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Control cables are multi-conductor cables used in automation and instrumentation applications. Control cables can measure and regulate transmissions of automated processes.
Especially - Substation Power Project

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Diameter (Approx)	Nominal Insulation Thickness	Nominal Bedding Thickness	Bedding Diameter (Approx)	Nominal Galvanized Steel Wire	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm	mm	mm	mm	mm	mm	mm	kg/km
5	2.55	0.80	0.80	13.8	1.25	1.50	18.9	750
6				15.1		1.60	20.4	860
7								890
8				16.5			21.8	1000
9			1.00	18.2	1.60	1.70	24.4	1280
10				19.9			26.1	1380
11								1430
12				20.6			26.8	1510
13				20.9			27.1	1580
14				21.7		1.80	28.1	1670
15				22.3			28.7	1760
16				22.9			29.4	1820
17				23.6			30.1	1930
18				24.2			30.7	2000
19								2020

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C
Ω/km
4.61

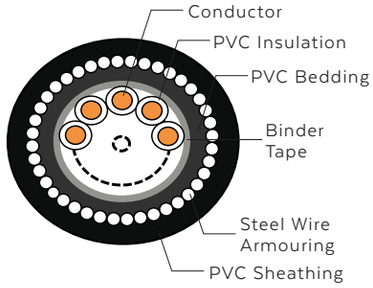
SHAPE OF CONDUCTOR

5 - 19 Core Circular Stranded

BRITISH STANDARD

MULTICORE – COPPER, PVC INSULATED, STEEL WIRE ARMOUR, PVC SHEATHED CABLE (4.0MM² AUXILIARY CONTROL CABLE)

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



STANDARD SPECIFICATION	BS 6346
CABLE DESCRIPTION	Copper Conductor, PVC Insulated, Steel Wire Armour PVC Sheathed Cables - Multicore
CABLE SIZES RANGE	(20 - 50) Core x 4.0mm²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Control cables are multi-conductor cables used in automation and instrumentation applications. Control cables can measure and regulate transmissions of automated processes. Especially - Substation Power Project

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Diameter (Approx)	Nominal Insulation Thickness	Nominal Bedding Thickness	Bedding Diameter (Approx)	Nominal Galvanized Steel Wire	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm	mm	mm	mm	mm	mm	mm	kg/km
20	2.55	0.80	1.00	25.0	1.60	1.90	31.7	2130
21				25.6		2.00	32.4	2220
22				26.4			33.2	2320
23				26.9			33.7	2410
24				28.6			35.4	2510
25								2560
26			1.20	29.0	2.00		36.6	2880
27				29.7			37.3	2960
28								3010
29				30.0			37.7	3100
30				30.8			38.4	3180
37				33.3		2.10	41.2	3660
40				34.7			42.5	3900
48				38.4		2.20	46.4	4540
50								4640

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C
Ω/km
4.61

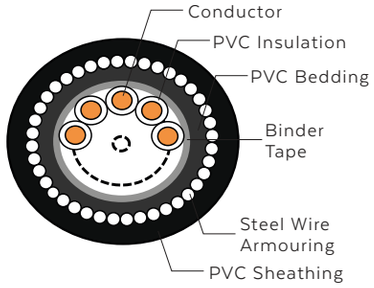
SHAPE OF CONDUCTOR

20 - 50 Core Circular Stranded

IEC STANDARD

MULTICORE – COPPER, PVC INSULATED, STEEL WIRE ARMOUR, PVC SHEATHED CABLE (1.5MM² AUXILIARY CONTROL CABLE)

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



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, PVC Insulated, Steel Wire Armour, PVC Sheathed Cables - Multicore
CABLE SIZES RANGE	(2 - 18) Core x 1.5mm²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Control cables are multi-conductor cables used in automation and instrumentation applications. Control cables can measure and regulate transmissions of automated processes.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Diameter (Approx)	Nominal Insulation Thickness	Nominal Bedding Thickness	Bedding Diameter (Approx)	Nominal Galvanized Steel Wire	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm	mm	mm	mm	mm	mm	mm	kg/km
2	1.59	0.80	1.00	8.7	0.90	1.80	14.0	340
3				9.3			14.5	370
4				10.1			15.5	430
5				11.1			16.5	480
6				12.1			17.5	540
7								550
8				13.2			18.5	610
9				14.2			19.5	680
10				15.5			21.0	730
11								760
12				16.0			21.5	800
13				16.3				830
14				16.9			22.5	870
15				17.4				920
16				17.9			23.0	950
17				18.4	1.60		25.0	1270
18				18.9			25.5	1310

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Ampacity in Ground	Ampacity in Free Air
Ω/km	A	A
12.1	22	22
	29	31
	29	31
	N/A	N/A

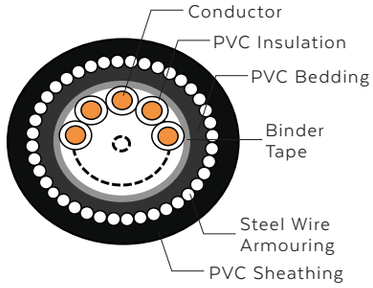
SHAPE OF CONDUCTOR

2 - 18 Core Circular Stranded

IEC STANDARD

MULTICORE – COPPER, PVC INSULATED, STEEL WIRE ARMOUR, PVC SHEATHED CABLE (1.5MM² AUXILIARY CONTROL CABLE)

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



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, PVC Insulated, Steel Wire Armour PVC Sheathed Cables - Multicore
CABLE SIZES RANGE	(19 - 50) Core x 1.5mm²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Control cables are multi-conductor cables used in automation and instrumentation applications. Control cables can measure and regulate transmissions of automated processes.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Diameter (Approx)	Nominal Insulation Thickness	Nominal Bedding Thickness	Bedding Diameter (Approx)	Nominal Galvanized Steel Wire	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm	mm	mm	mm	mm	mm	mm	kg/km
19	1.59	0.80	1.00	18.9	1.60	1.80	25.5	1320
20				19.5			26.5	1380
21				19.9				1430
22				20.6			27.5	1480
23				21.0				1530
24				22.3			29.0	1590
25								1620
26								1640
27				22.8			29.5	1690
28								1720
29				23.1			30.0	1760
30				23.7			30.5	1810
37				25.7			32.5	2080
40				26.7			33.5	2210
48				29.6	2.00		37.5	2790
50								2840

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Ampacity in Ground	Ampacity in Free Air
Ω/km	A	A
12.1	N/A	N/A

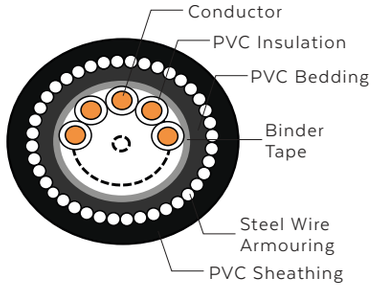
SHAPE OF CONDUCTOR

19 - 50 Core Circular Stranded

IEC STANDARD

MULTICORE – COPPER, PVC INSULATED, STEEL WIRE ARMOUR, PVC SHEATHED CABLE (2.5MM² AUXILIARY CONTROL CABLE)

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



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, PVC Insulated, Steel Wire Armour, PVC Sheathed Cables - Multicore
CABLE SIZES RANGE	(2 - 18) Core x 1.5mm²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Control cables are multi-conductor cables used in automation and instrumentation applications. Control cables can measure and regulate transmissions of automated processes.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Diameter (Approx)	Nominal Insulation Thickness	Nominal Bedding Thickness	Bedding Diameter (Approx)	Nominal Galvanized Steel Wire	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm	mm	mm	mm	mm	mm	mm	kg/km
2	2.01	0.80	1.00	9.6	0.90	1.80	15.0	380
3				10.2			15.5	430
4				11.2			16.5	500
5				12.2			17.5	570
6				13.4			18.5	640
7								660
8				14.5			20.0	740
9				15.7			21.0	830
10				17.2			22.5	890
11								920
12				17.8			23.0	980
13				18.1	1.60		25.0	1280
14				18.8			25.5	1360
15				19.3			26.0	1420
16				19.9			26.5	1470
17				20.5			27.0	1550
18				21.0			27.5	1590

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Ampacity in Ground	Ampacity in Free Air
Ω/km	A	A
7.41	29	31
	24	26
	24	26
	N/A	N/A

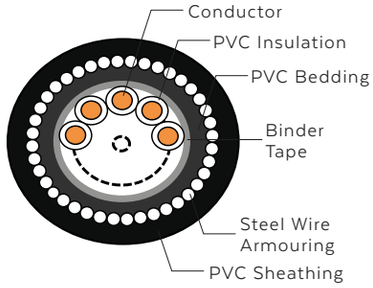
SHAPE OF CONDUCTOR

2 - 18 Core Circular Stranded

IEC STANDARD

MULTICORE – COPPER, PVC INSULATED, STEEL WIRE ARMOUR, PVC SHEATHED CABLE (2.5MM² AUXILIARY CONTROL CABLE)

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



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, PVC Insulated, Steel Wire Armour PVC Sheathed Cables - Multicore
CABLE SIZES RANGE	(19 - 50) Core x 2.5mm²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Control cables are multi-conductor cables used in automation and instrumentation applications. Control cables can measure and regulate transmissions of automated processes.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Diameter (Approx)	Nominal Insulation Thickness	Nominal Bedding Thickness	Bedding Diameter (Approx)	Nominal Galvanized Steel Wire	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm	mm	mm	mm	mm	mm	mm	kg/km
19	2.01	0.80	1.00	21.0	1.60	1.80	27.5	1610
20				21.7			28.5	1690
21				22.2			29.0	1740
22				22.9			29.5	1810
23				23.3			30.0	1870
24				24.8			32.0	1970
25								2010
26								2050
27				25.4			32.5	2100
28								2140
29				25.7				2200
30				26.4			33.5	2250
37				28.6			36.0	2600
40				29.8			37.5	3000
48				33.4	2.00		41.5	3540
50							42.0	3630

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Ampacity in Ground	Ampacity in Free Air
Ω/km	A	A
7.41	N/A	N/A

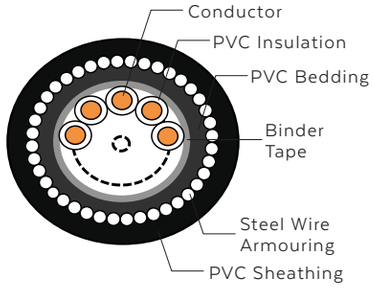
SHAPE OF CONDUCTOR

19 - 50 Core Circular Stranded

IEC STANDARD

MULTICORE – COPPER, PVC INSULATED, STEEL WIRE ARMOUR, PVC SHEATHED CABLE (4.0MM² AUXILIARY CONTROL CABLE)

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



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, PVC Insulated, Steel Wire Armour, PVC Sheathed Cables - Multicore
CABLE SIZES RANGE	(2 - 18) Core x 4.0mm²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Control cables are multi-conductor cables used in automation and instrumentation applications. Control cables can measure and regulate transmissions of automated processes.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Diameter (Approx)	Nominal Insulation Thickness	Nominal Bedding Thickness	Bedding Diameter (Approx)	Nominal Galvanized Steel Wire	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm	mm	mm	mm	mm	mm	mm	kg/km
2	2.55	1.00	1.00	11.5	0.90	1.80	17.0	490
3				12.2			17.5	560
4				13.4			19.0	650
5				14.8			20.0	760
6				16.2	1.60		21.5	860
7								890
8				17.6			24.5	1270
9				19.1			26.0	1400
10				21.0			27.5	1520
11								1570
12				21.7			28.5	1650
13				22.1			29.0	1740
14				22.9			29.5	1810
15				23.6			30.5	1920
16				24.3			31.0	1990
17				25.1		1.90	32.0	2110
18				25.7			32.5	2190

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Ampacity in Ground	Ampacity in Free Air
Ω/km	A	A
4.61	37	41
	30	35
	30	35
	N/A	N/A

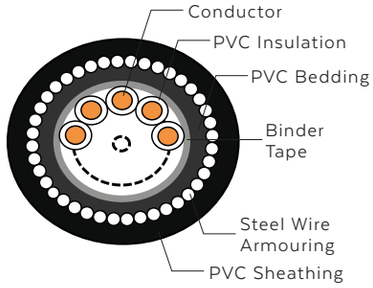
SHAPE OF CONDUCTOR

2 - 18 Core Circular Stranded

IEC STANDARD

MULTICORE – COPPER, PVC INSULATED, STEEL WIRE ARMOUR, PVC SHEATHED CABLE (4.0MM² AUXILIARY CONTROL CABLE)

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



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, PVC Insulated, Steel Wire Armour PVC Sheathed Cables - Multi Core
CABLE SIZES RANGE	(20 - 50) Core x 4.0mm²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Control cables are multi-conductor cables used in automation and instrumentation applications. Control cables can measure and regulate transmissions of automated processes.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Diameter (Approx)	Nominal Insulation Thickness	Nominal Bedding Thickness	Bedding Diameter (Approx)	Nominal Galvanized Steel Wire	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm	mm	mm	mm	mm	mm	mm	kg/km
19	2.55	1.00	1.00	25.7	1.60	1.80	32.5	2220
20				26.5			33.5	2330
21				27.1			34.0	2400
22				28.1	2.00		36.0	2780
23				28.6			36.5	2850
24			1.20	30.9			39.0	3050
25								3110
26								2170
27				31.6			39.5	3260
28								3310
29				32.0			40.0	3380
30				32.8			41.0	3490
37				35.6			44.0	4030
40				37.0			45.5	4310
48			1.40	41.5	2.50		51.0	5460
50								5580

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Ampacity in Ground	Ampacity in Free Air
Ω/km	A	A
4.61	N/A	N/A

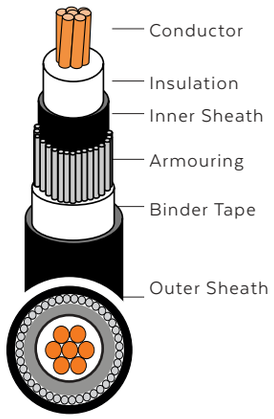
SHAPE OF CONDUCTOR

19 - 50 Core Circular Stranded

SINGLE CORE — COPPER, XLPE INSULATED, ALUMINIUM WIRE ARMOURED, PVC SHEATHED CABLE

600/1000V
CU / XLPE / AWA / PVC

STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, XLPE Insulated, Aluminium Wire Armoured, PVC Sheathed Cables - 1 Core
CABLE SIZES RANGE	1 Core x (10 - 630)mm²
SHEATHING COLOURS	Black, 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 similiar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, eletrical 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
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

No. of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Inner Sheath Diameter (Approx)	Alumini-um Wire Armoured Diameter	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	mm	mm	mm	kg/km
1	10	3.80	0.70	1.00	7.5	1.04	1.80	13.50	311
	16	4.74			8.0			14.50	398
	25	5.97	0.90		10.0			16.00	551
	35	7.10			11.5	1.25		17.50	711
	50	8.10	1.00		12.5			18.50	912
	70	9.74	1.10		14.0			20.50	1221
	95	11.46			16.0	1.60		23.00	1635
	120	12.93	1.20		17.5			25.00	2009
	150	14.33	1.40		19.5			26.50	2453
	185	16.05	1.60		21.5		1.90	29.00	2982
	240	18.43	1.70		24.0		2.00	32.00	3763
	300	20.64	1.80		26.5	2.00	2.10	35.50	4750
	400	23.34	2.00	1.20	30.0		2.20	39.00	5978
	500	26.21	2.20		33.5		2.35	42.50	7399
	630	29.80	2.40		37.5	2.50	2.45	49.00	9398

ELECTRICAL DATA

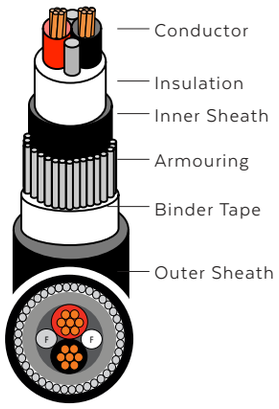
Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity Clipped Direct - 3 Phase	Ampacity in Free Air - 3 Phase
Ω/km	kA	A	A
1.83	1.43	-	-
1.15	2.29		
0.727	3.58		
0.524	5.01		
0.387	7.15	220	222
0.268	10.02	277	285
0.193	13.59	333	346
0.153	17.17	383	402
0.124	21.46	437	463
0.0991	26.47	496	529
0.0754	34.34	579	625
0.0601	42.93	662	720
0.0470	57.23	717	815
0.0366	71.54	791	918
0.0283	90.14	861	1027

SHAPE OF CONDUCTOR

10 - 630 sqmm Compacted

TWO CORE – COPPER, XLPE INSULATED, STEEL WIRE ARMOURED, PVC SHEATHED CABLE

600/1000V
CU / XLPE / SWA / PVC



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, XLPE Insulated, Steel Wire Armoured, PVC Sheathed Cable - 2 Core
CABLE SIZES RANGE	2 Core x (1.5 - 300)mm²
SHEATHING COLOURS	Black, 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 similiar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, eletrical 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
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

No. of Core	Nominal Sectional Area	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Inner Sheath Diameter (Approx)	Gal. Steel Wire Armoured Diameter	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	mm	mm	kg/km
2	1.5	0.7	1.0	8.3	0.90	1.8	13.5	320
	2.5			9.1			14.5	370
	4			10.2	1.25		16.5	500
	6			11.3			17.5	590
	10			12.7			19.0	730
	16			14.6			21.0	920
	25	0.9		17.8	1.60		25.0	1210
	35			20.1			27.5	1460
	50	1.0		19.5			26.0	1790
	70	1.1		22.6			29.5	2360
	95		1.2	24.6	2.00		33.5	3220
	120	1.2		25.6			36.0	3850
	150	1.4		28.0			39.0	4550
	185	1.6	1.4	30.8	2.50		44.5	5870
	240	1.7		38.6			48.5	7320
	300	1.8	1.6	42.6			53.0	8720
	400	2.0		47.0			58.0	10750

ELECTRICAL DATA

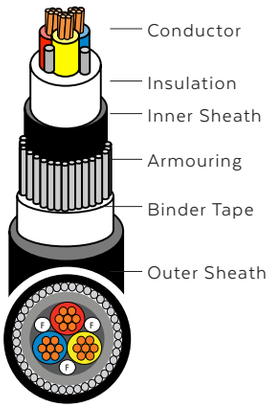
Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Free Air - 3 Phase	Ampacity in Ground - 1 Phase
Ω/km	kA	A	A
12.10	0.21	29	25
7.41	0.36	39	33
4.61	0.57	52	43
3.08	0.86	66	53
1.83	1.43	90	71
1.15	2.29	115	91
0.727	3.58	152	116
0.524	5.01	188	139
0.387	7.15	228	164
0.268	10.02	291	203
0.193	13.59	354	239
0.153	17.17	410	271
0.124	21.46	472	306
0.0991	26.47	539	343
0.0754	34.34	636	395
0.0601	42.93	732	446
0.0470	57.23	847	-

SHAPE OF CONDUCTOR

1.5 - 6 sqmm	Circular
10 - 50 sqmm	Compacted
70 - 400 sqmm	Shape

THREE CORE – COPPER, XLPE INSULATED, STEEL WIRE ARMOURED, PVC SHEATHED CABLE

600/1000V
CU / XLPE / SWA / PVC



STANDARD SPECIFICATION	IEC 60502-2, TNB Spec
CABLE DESCRIPTION	Copper Conductor, XLPE Insulated, Steel Wire Armoured, PVC Sheathed Cable - 3 Core
CABLE SIZES RANGE	3 Core x (1.5 - 400)mm²
SHEATHING COLOURS	Black, 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 similiar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, eletrical 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
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

No. of Core	Nominal Sectional Area	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Inner Sheath Diameter (Approx)	Gal. Steel Wire Armoured Diameter	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	mm	mm	kg/km
3	1.5	0.7	1.0	8.8	0.90	1.8	14.8	360
	2.5			9.7			16.4	480
	4			10.8	1.25		18.5	570
	6			12.0			19.7	680
	10			13.5			21.2	860
	16			15.5	1.60		24.0	1110
	25	0.9		19.1			27.8	1550
	35			21.5			30.4	1920
	50	1.0		22.6			29.0	2400
	70	1.1	1.2	26.6	2.00		34.0	3420
	95			30.1			38.0	4390
	120	1.2		32.6			41.0	5230
	150	1.4	1.4	35.9	2.50		45.5	6640
	185	1.6		40.3			50.0	8020
	240	1.7	1.6	45.4			55.5	10140
	300	1.8		49.5			60.5	12080
	400	2.0		55.2	3.15		66.5	15020

ELECTRICAL DATA

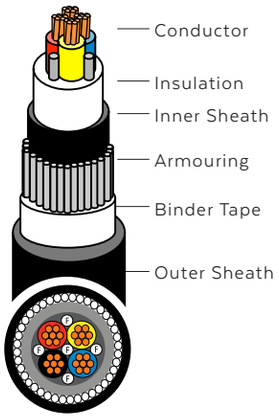
Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Free Air - 3 Phase	Ampacity in Ground - 1 Phase
Ω/km	kA	A	A
12.10	0.21	25	21
7.41	0.36	33	28
4.61	0.57	44	36
3.08	0.86	56	44
1.83	1.43	78	58
1.15	2.29	99	75
0.727	3.58	131	96
0.524	5.01	162	115
0.387	7.15	197	135
0.268	10.02	251	167
0.193	13.59	304	197
0.153	17.17	353	223
0.124	21.46	406	251
0.0991	26.47	463	281
0.0754	34.34	546	324
0.0601	42.93	628	365
0.0470	57.23	728	-

SHAPE OF CONDUCTOR

1.5 - 6 sqmm	Circular
10 - 50 sqmm	Compacted
70 - 400 sqmm	Shape

FOUR CORE – COPPER, XLPE INSULATED, STEEL WIRE ARMOURED, PVC SHEATHED CABLE

600/1000V
CU / XLPE / SWA / PVC



STANDARD SPECIFICATION	IEC 60502-1
CABLE DESCRIPTION	Copper Conductor, XLPE Insulated, Steel Wire Armoured, PVC Sheathed Cable - 4 Core
CABLE SIZES RANGE	4 Core x (1.5 - 400)mm²
SHEATHING COLOURS	Black, 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 similiar closed systems. Commonly use for protected installation in or on lighting fitting inside electronic, eletrical 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
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

No. of Core	Nominal Sectional Area	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Inner Sheath Diameter (Approx)	Gal. Steel Wire Armoured Diameter	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Cable Weight (Approx)
Nos	mm²	mm	mm	mm	mm	mm	mm	kg/km
4	1.5	0.7	1.0	9.6	0.90	1.8	14.8	407
	2.5			10.6			16.4	478
	4			11.9	1.25		18.5	678
	6			13.2			19.7	816
	10			14.9			21.2	1041
	16			17.2	1.60		24.0	1506
	25	0.9		21.1			27.8	2054
	35			23.8			30.4	2565
	50	1.0		24.9			32.0	2970
	70	1.1	1.2	29.5	2.00		37.5	4270
	95	1.1		33.1			41.5	5450
	120	1.2	1.4	36.6	2.50		46.5	7010
	150	1.4		40.9			51.0	8400
	185	1.6		45.6			56.0	10180
	240	1.7	1.6	51.1			62.0	12900
	300	1.8		56.6			67.5	15470
	400	2.0	1.8	63.5	3.15		76.5	20230

ELECTRICAL DATA

Max. Conductor Resistance. DC at 20°C	Conductor Short Circuit Current for 1 sec	Ampacity in Free Air - 3 Phase	Ampacity in Ground - 1 Phase
Ω/km	kA	A	A
12.10	0.21	25	21
7.41	0.36	33	28
4.61	0.57	44	36
3.08	0.86	56	44
1.83	1.15	78	58
1.15	1.84	99	75
0.727	2.88	131	96
0.524	4.03	162	115
0.387	5.75	197	135
0.268	8.05	251	167
0.193	10.93	304	197
0.153	13.80	353	223
0.124	17.25	406	251
0.0991	21.28	463	281
0.0754	27.60	546	324
0.0601	34.50	628	365
0.0470	46.00	728	-

SHAPE OF CONDUCTOR

1.5 - 6 sqmm	Circular
10 - 50 sqmm	Compacted
70 - 400 sqmm	Shape

HEAD OFFICE & FACTORY

Lot 42, Jalan Merbau Pulas,
Kawasan Perusahaan Kuala Ketil,
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CUSTOMER SERVICE

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