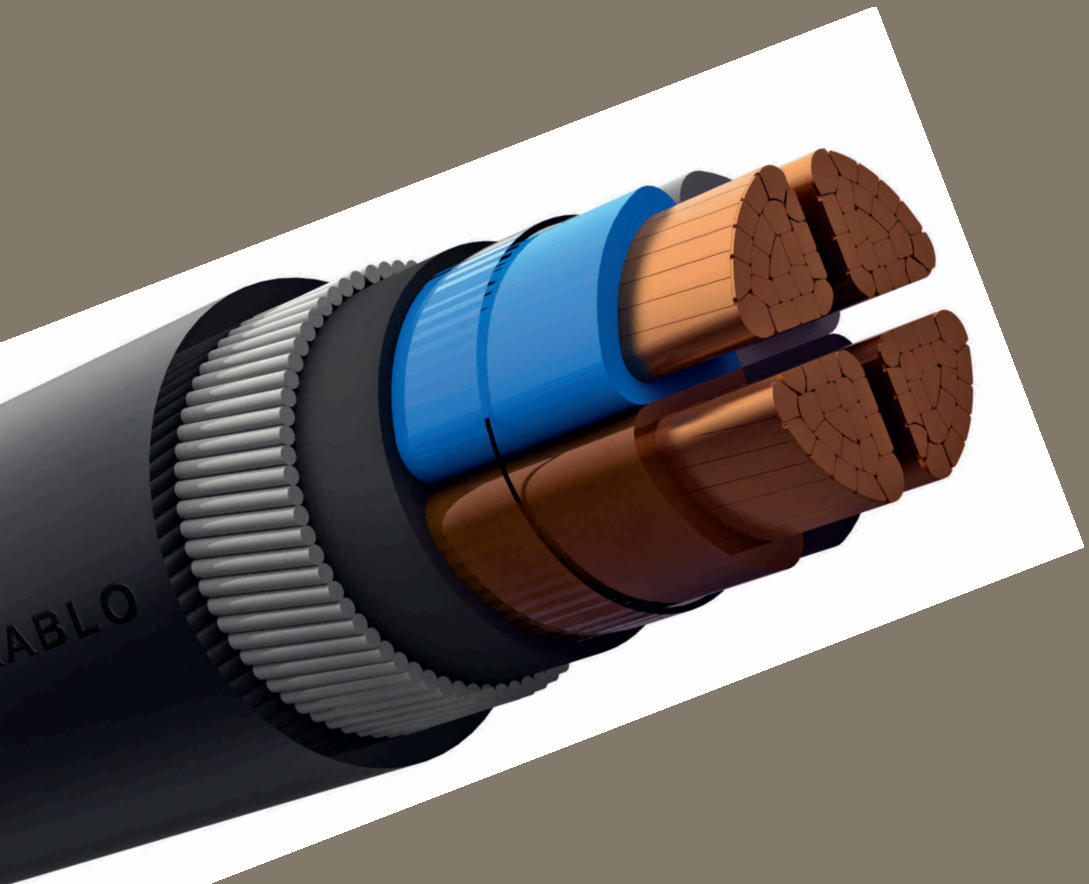

ABLO

BRITISH STANDARD CABLES

TWIN AND EARTH
ARCTIC GRADE
6181Y
6381Y
309_Y HR
CU/XLPE/PVC/AWA/PVC
BS 5467
BS 5467 CONTROL
BS 6724
BS 6724 CONTROL

BRITISH STANDARD CABLES

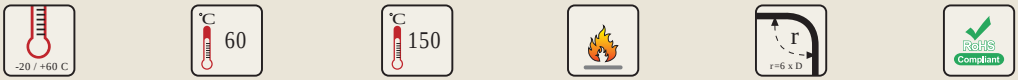
CONSTRUCTION — TWIN AND EARTH

1 Copper conductor (class 1-2)
2 PVC insulation
3 PVC outer sheath

SPECIFICATIONS

Code : TWIN AND EARTH / 624_Y
Standards : BS 6004
Rated voltage : Uo/U=300/500 V

Application :
Used in low mechanical stress applications in dry or humid places, especially at home appliances such as connection cables. Not useful for outdoor applications.



CONSTRUCTION — ARCTIC GRADE

1 Copper conductor (class 5)
2 PVC insulation (cold resistant)
3 PVC outer sheath (cold resistant)

SPECIFICATIONS

Code : ARCTIC GRADE
Standards : BS 7919
Rated voltage : Uo/U=300/500 V

Application :
Used in low mechanical stress applications in dry or humid places, especially at home appliances such as connection cables. Insulation and outer sheath compound are resistant to low temperature which makes cable usable at sub-zero temperature conditions.

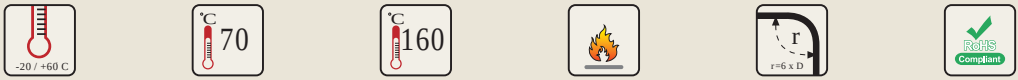
CONSTRUCTION 6181Y

1 Copper conductor (class 1-2)
2 PVC insulation
3 PVC outer sheath

SPECIFICATIONS

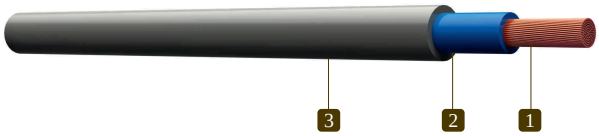
Code : 6181Y
Standards : BS 6004
Rated voltage : Uo/U=300/500 V

Application :
Used in low mechanical stress application in dry or humid places such as manufacturing facilities and office etc. over and under plaster.



CONSTRUCTION 6381Y

1 Copper conductor (class 5)
2 PVC insulation
3 PVC outer sheath



SPECIFICATIONS

Code : 6381Y
Standards : BS 6004
Rated voltage : Uo/U=300/500 V

Application :
Used in low mechanical stress application in dry or humid places such as manufacturing facilities and office etc. over and under plaster.

CONSTRUCTION

309_Y HR

1 Copper conductor (class 5)
2 PVC insulation (heat resistant)
3 PVC outer sheath (heat resistant)

SPECIFICATIONS

Code : 309_Y HR
Standards : BS 6500
Rated voltage : Uo/U=300/500 V

Application :
Used in low mechanical stress applications in dry or humid places, especially at home appliances such as connection cables. Outer sheath compound is resistant to high temperature which makes cable usable at very hot conditions.

Temperature Range

Max. Operation Temperature

Short Circuit Temperature


Flame Retardant IEC 60332 -1-2


Flexible

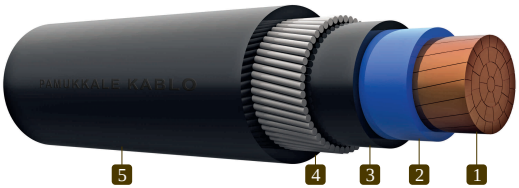
Min. Bending Radius

RoHS

CONSTRUCTION

CU/XLPE/PVC/AWA/PVC

1 Copper conductor (class 2)
2 XLPE insulation
3 PVC separation sheath
4 Aluminium wire
5 PVC outer sheath



SPECIFICATIONS

Code : Cu/XLPE/PVC/AWA/PVC
Standards : BS 5467
Rated voltage : Uo/U= 0.6/1 kV

Application :
Mainly used in populated areas, power and switching stations and underground. Through its armoured structure, cables is completely protected from mechanical damage.

Temperature Range

Max. Operating Temperature

Short Circuit Temperature


Flame Retardant IEC 60332 -1-2


BASEC Certificate

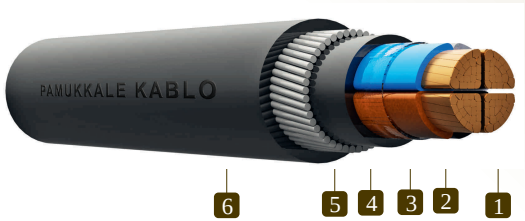

Mechanical Resistance

Min. Bending Radius

RoHS

CONSTRUCTION

1 Copper conductor (class 2)
2 XLPE insulation
3 Polyester tape
4 PVC Bedding
5 Galvanized round steel wire
6 PVC outer sheath



SPECIFICATIONS

Code : CU/XLPE/SWA/PVC
Standards : BS 5467
Rated Voltage : Uo/U= 0.6/1 kV

Application :
Mainly used in populated areas, power and switching stations and underground. Through its steel wire armoured structure, cable is completely protected from mechanical damage risk.

Temperature Range

Max. Operating Temperature

Short Circuit Temperature


Flame Retardant IEC 60332 -1-2

BASEC Certificate


Mechanical Resistance

Min. Bending Radius

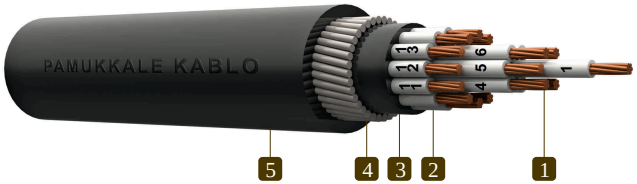
RoHS

PHYSICAL AND ELECTRICAL PROPERTIES

Nominal cross-section	Overall diameter approx.	Net weight approx.	Standart delivery length	Delivery drum type	Conductor DC resistance at 20°C	Current carrying capacity in (30°C)	
						Earth	Air
mm^2	mm	kg/km	m	cm	Ω / km (max.)	A	A
3x1.5 rm	12	300	1000	80	12.1	31	24
3x2.5 rm	14	390	1000	90	7.41	40	32
3x4 rm	15	470	1000	90	4.61	52	42
3x6 rm	16	580	1000	100	3.08	64	53
3x10 rm	19	860	1000	110	1.83	86	74
3x16 rm	21	1130	1000	120	1.15	112	98
3x25 rm	26	1700	1000	140	0.727	145	133
3x35 rm	28	2100	1000	150	0.524	174	162
4x1.5 rm	13	335	1000	80	12.1	31	24
4x2.5 rm	15	440	1000	90	7.41	40	32
4x4 rm	16	550	1000	100	4.61	52	42
4x6 rm	18	770	1000	110	3.08	64	53
4x10 rm	20	1000	1000	120	1.83	86	74
4x16 rm	23	1350	1000	130	1.15	112	98
4x25 rm	28	2040	1000	150	0.727	145	133
4x35 rm	30	2560	1000	150	0.524	174	162
4x50 sm	32	2900	1000	160	0.387	206	197
4x70 sm	38	4100	1000	200	0.268	254	250
4x95 sm	41	5250	1000	200	0.193	305	308
4x120 sm	46	6780	500	180	0.153	348	359
4x150 sm	50	8100	500	200	0.124	392	412
4x185 sm	55	9800	500	210	0.0991	444	475
4x240 sm	61	12250	500	220	0.0754	517	564
4x300 sm	63	14900	500	220	0.0601	585	649
5x1.5 rm	14	400	1000	90	12.1	31	24
5x2.5 rm	16	510	1000	100	7.41	40	32
5x4 rm	17	640	1000	100	4.61	52	42
5x6 rm	20	890	1000	120	3.08	64	53
5x10 rm	23	1200	1000	130	1.83	86	74
5x16 rm	27	1780	1000	140	1.15	112	98
5x25 rm	30	2430	1000	150	0.727	145	133

CONSTRUCTION

1 Copper conductor (class 2)
2 XLPE insulation
3 PVC Bedding
4 Galvanized round steel wire
5 PVC outer sheath



SPECIFICATIONS

Code : Cu/XLPE/SWA/PVC
Standards : BS 5467
Rated Voltage : Uo/U=0.6/1 kV

Application :
Used as control cables in energy panels of power centres and industrial buildings etc. internally, externally or underground in where hard working conditions are necessary.

Temperature Range

Max. Operating Temperature

Short Circuit Temperature


Flame Retardant IEC 60332 -1-2

BASEC Certificate


Mechanical Resistance

Min. Bending Radius

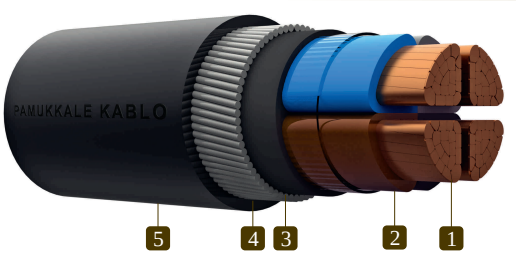
RoHS

PHYSICAL AND ELECTRICAL PROPERTIES

Nominal cross-section	Overall diameter approx.	Net weight approx.	Delivery drum type for 1000 m. cable	Conductor DC resistance at 20°C	Current carrying capacity in (30°C)	
					Earth	Air
mm²	mm	kg/km	m	Ω / km (max.)	A	A
7x1.5 rm	15	450	90	12.1	31	24
10x1.5 rm	18	615	110	12.1	31	24
12x1.5 rm	19	775	110	12.1	31	24
14x1.5 rm	20	820	120	12.1	31	24
19x1.5 rm	22	975	120	12.1	31	24
21x1.5 rm	24	1200	130	12.1	31	24
24x1.5 rm	26	1380	140	12.1	31	24
30x1.5 rm	28	1550	150	12.1	31	24
40x1.5 rm	30	1875	150	12.1	31	24
7x2.5 rm	17	590	100	7.41	40	32
10x2.5 rm	20	810	120	7.41	40	32
12x2.5 rm	22	1020	120	7.41	40	32
14x2.5 rm	24	1230	130	7.41	40	32
19x2.5 rm	26	1460	140	7.41	40	32
21x2.5 rm	27	1600	140	7.41	40	32
24x2.5 rm	29	1850	150	7.41	40	32
30x2.5 rm	31	2080	160	7.41	40	32
40x2.5 rm	35	2750	180	7.41	40	32

CONSTRUCTION

1 Copper conductor (class 2)
2 XLPE insulation
3 LSZH bedding
4 Galvanized round steel wire
5 LSZH outer sheath



SPECIFICATIONS

Code : Cu/XLPE/LSZH/SWA/LSZH
Standards : BS 6724
Rated Voltage : Uo/U=0.6/1 kV

Application :
These cables can withstand mechanical stress. Used in places which are subject to fire danger such as hotels, hospitals, shopping centers, power plants, information technology centers and in places where human groups are carried by railway systems and also where valuable equipments are kept. These cables do not conduct flame during fire, do not create high smoke density, do not create corrosive ambients and therefore provides increased protection. Can be used internally, externally or in underground.

Temperature Range

Max. Operating Temperature

Short Circuit Temperature


Flame Retardant IEC 60332 -1-2


Flame Retardant IEC 60332 -3-24 Cat.C

Halogen Free IEC 60754-1/2


Low Smoke Emission IEC 61034-1/2

Min. Bending Radius

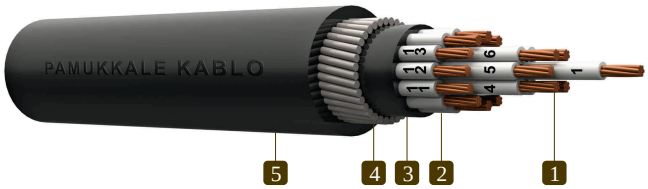
RoHS

PHYSICAL AND ELECTRICAL PROPERTIES

Nominal cross-section	Overall diameter approx.	Net weight approx.	Delivery length	Delivery drum type	Conductor DC resistance at 20°C	Current carrying capacity in (30°C)	
						Earth	Air
mm^2	mm	kg/km	m	cm	Ω / km (max.)	A	A
3x1.5 rm	12	300	1000	80	12,1	31	24
3x2.5 rm	14	380	1000	90	7,41	40	32
3x4 rm	15	470	1000	90	4,61	52	42
3x6 rm	16	570	1000	100	3,08	64	53
3x10 rm	19	860	1000	110	1,83	86	74
3x16 rm	21	1120	1000	120	1,15	112	98
3x25 rm	26	1700	1000	140	0,727	145	133
3x35 rm	28	2100	1000	150	0,524	174	162
3x50 sm	30	2400	1000	150	0,387	206	197
4x1.5 rm	13	330	1000	80	12,1	31	24
4x2.5 rm	15	440	1000	90	7,41	40	32
4x4 rm	16	535	1000	100	4,61	52	42
4x6 rm	18	760	1000	110	3,08	64	53
4x10 rm	20	1000	1000	120	1,83	86	74
4x16 rm	23	1330	1000	130	1,15	112	98
4x25 rm	28	2025	1000	150	0,727	145	133
4x35 rm	30	2550	1000	150	0,524	174	162
4x50 sm	32	3100	1000	160	0,387	206	197
4x70 sm	37	4340	1000	180	0,268	254	250
4x95 sm	41	5580	1000	200	0,193	305	308
4x120 sm	46	7200	500	180	0,153	348	359
4x150 sm	50	8750	500	200	0,124	392	412
4x185 sm	55	10550	500	210	0,0991	444	475
4x240 sm	61	13070	500	220	0,0754	517	564
4x300 sm	65	15900	500	240	0,0601	585	649
5x1.5 rm	14	390	1000	90	12,1	31	24
5x2.5 rm	15	494	1000	90	7,41	40	32
5x4 rm	17	625	1000	100	4,61	52	42
5x6 rm	19	875	1000	110	3,08	64	53
5x10 rm	22	1200	1000	120	1,83	86	74
5x16 rm	26	1750	1000	140	1,15	112	98
5x25 rm	30	2400	1000	150	0,727	145	133
5x35 rm	33	3050	1000	160	0,524	174	162

CONSTRUCTION

1 Copper conductor (class 2)
2 XLPE insulation
3 LSZH Bedding
4 Galvanized round steel wire
5 LSZH outer sheath



SPECIFICATIONS

Code : Cu/XLPE/LSZH/SWA/LSZH
Standards : BS 6724
Rated Voltage : Uo/U=0.6/1 kV

Application :
Used as control cables in energy panels of power centres at human densed places or buildings internally, externally or underground. Due to its characteristics; these cables do not conduct flame. Neither high smoke density nor corrosive ambients are are released from these cables during fire.

PHYSICAL AND ELECTRICAL PROPERTIES

Nominal cross-section	Overall diameter approx.	Net weight approx.	Delivery drum type for 1000 m. cable	Conductor DC resistance at 20°C	Current carrying capacity in (30°C)	
					Earth	Air
mm²	mm	kg/km	m	Ω / km (max.)	A	A
7x1.5 rm	15	450	90	12.1	31	24
10x1.5 rm	18	615	110	12.1	31	24
12x1.5 rm	19	775	110	12.1	31	24
14x1.5 rm	20	820	120	12.1	31	24
19x1.5 rm	22	975	120	12.1	31	24
21x1.5 rm	24	1200	130	12.1	31	24
24x1.5 rm	26	1380	140	12.1	31	24
30x1.5 rm	28	1550	150	12.1	31	24
40x1.5 rm	30	1875	150	12.1	31	24
7x2.5 rm	17	590	100	7.41	40	32
10x2.5 rm	20	810	120	7.41	40	32
12x2.5 rm	22	1020	120	7.41	40	32
14x2.5 rm	24	1230	130	7.41	40	32
19x2.5 rm	26	1460	140	7.41	40	32
21x2.5 rm	27	1600	140	7.41	40	32
24x2.5 rm	29	1850	150	7.41	40	32
30x2.5 rm	31	2080	160	7.41	40	32
40x2.5 rm	35	2750	180	7.41	40	32