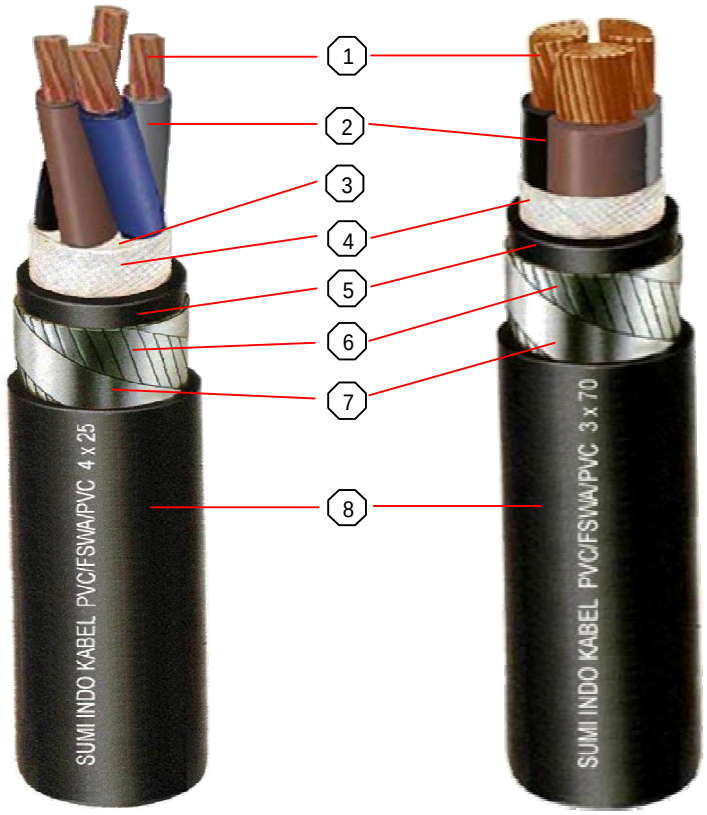
600/1000 V PVC INSULATED, FLAT STEEL WIRE ARMOURED AND PVC SHEATHED CABLES

PVC/FSWA/PVC (acc. to IEC 60502-1)



Constructions :

1. Conductor (Annealed Copper)
2. Insulation (PVC Compound)
3. Filler (Polyprophylene yarn,or extruded filler up to request)
4. Binding tape (Manufacturer's option)
5. Inner Covering (PVC Compound)
6. Galvanized Flat Steel Wire armour
7. Galvanized Steel Tape binding
8. Outer sheath (PVC Compound)

Note : Special application upon request

* Available product in accordance to : SPLN, ICEA/NEMA, AS standard or other requirement.
* Flame retardant test acc to IEC 60332-3 Cat. A, B or C.
* Anti termite performance.
* Tin coated Copper conductor.
* Polyethylene / Low smoke Halogen Free sheathed

600/1000 V PVC INSULATED, FLAT STEEL WIRE ARMOURED AND PVC SHEATHED CABLES
PVC/FSWA/PVC (IEC 60502-1)

CONSTRUCTION

Conductor : Plain Annealed Copper
(to IEC 60228 class 1 or 2)
Insulation : PVC Compound type A
Filler : Suitable material
Inner covering : PVC Compound
Armour : Galvanized Flat Steel Wire+Steel tape open helix
Sheath : PVC Compound type ST1
Colour Ident. : Insulation - Brown, Blue
Sheath - Black

TECHNICAL DATA

Voltage
Uo/U - 600/1000 V
Operating Temperature
Maximum 70°C

TWO CORES

Conductor				Nominal Thickness of Insulation	Thickness of Inner covering (approx.)	Nominal thickness of Galv. Flat Steel wire	Minimum thickness of Galv. Steel tape	Nominal Thickness of Sheath	Overall diameter of cable (approx.)	Weight of cable (approx.)	Maximum Conductor Resistance at 20°C
Nominal Cross-section area	Shape of Cond.	number of wire	Diameter of Conductor (approx.)								
mm²		Number	mm	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
1.5	RE	1	1.38	0.8	1.0	0.8	0.3	1.8	14.0	410	12.1
1.5	RM	7	1.6	0.8	1.0	0.8	0.3	1.8	14.5	420	12.1
2.5	RE	1	1.78	0.8	1.0	0.8	0.3	1.8	15.0	445	7.41
2.5	RM	7	2.0	0.8	1.0	0.8	0.3	1.8	15.5	480	7.41
4	RE	1	2.26	1.0	1.0	0.8	0.3	1.8	17.0	570	4.61
4	RM	7	2.6	1.0	1.0	0.8	0.3	1.8	17.5	585	4.61
6	RM	7	3.1	1.0	1.0	0.8	0.3	1.8	18.5	675	3.08
10	RM	7	4.1	1.0	1.0	0.8	0.3	1.8	20.5	830	1.83
16	RM	7	5.1	1.0	1.0	0.8	0.3	1.8	22.5	1040	1.15
25	RM	7	6.4	1.2	1.0	0.8	0.3	1.8	26.0	1365	0.727
35	RM	7	7.6	1.2	1.0	0.8	0.3	1.8	28.0	1675	0.524
50	RM	19	9.2	1.4	1.0	0.8	0.3	1.8	32.0	2135	0.387
70	RM	19	10.9	1.4	1.0	0.8	0.3	1.9	35.5	2695	0.268
95	RM	19	12.6	1.6	1.2	0.8	0.3	2.1	41.0	3485	0.193
120	RM	37	14.2	1.6	1.2	0.8	0.3	2.2	44.5	4150	0.153
150	RM	37	15.9	1.8	1.2	0.8	0.3	2.3	49.0	4995	0.124
185	RM	37	17.6	2.0	1.4	0.8	0.3	2.4	53.5	5970	0.0991
240	RM	61	20.3	2.2	1.4	0.8	0.3	2.6	60.0	7540	0.0754
300	RM	61	22.7	2.4	1.6	0.8	0.3	2.8	66.5	9180	0.0601

Note : RE : Round Solid Class 1
RM : Circular Stranded Class 2

600/1000 V PVC INSULATED, FLAT STEEL WIRE ARMOURED AND PVC SHEATHED CABLES PVC/FSWA/PVC (IEC 60502-1)

CONSTRUCTION

Conductor : Plain Annealed Copper (to IEC 60228 class 1 or 2)
Insulation : PVC Compound type A
Filler : Suitable material
Inner covering : PVC Compound
Armour : Galvanized Flat Steel Wire+Steel tape open helix
Sheath : PVC Compound type ST1
Colour Ident. : Insulation - Brown, Black, Grey
Sheath - Black

TECHNICAL DATA

Voltage
Uo/U - 600/1000 V
Operating Temperature
Maximum 70°C

THREE CORES

Conductor				Nominal Thickness of Insulation	Thickness of Inner covering (approx.)	Nominal thickness of Galv. Flat Steel wire	Minimum thickness of Galv. Steel tape	Nominal Thickness of Sheath	Overall diameter of cable (approx.)	Weight of cable (approx.)	Maximum Conductor Resistance at 20°C
Nominal Cross-section area	Shape of Cond.	number of wire	Diameter of Conductor (approx.)								
mm²	-	Number	mm	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
1.5	RE	1	1.38	0.8	1.0	0.8	0.3	1.8	14.5	440	12.1
1.5	RM	7	1.6	0.8	1.0	0.8	0.3	1.8	15.0	450	12.1
2.5	RE	1	1.78	0.8	1.0	0.8	0.3	1.8	15.5	510	7.41
2.5	RM	7	2.0	0.8	1.0	0.8	0.3	1.8	16.0	525	7.41
4	RE	1	2.26	1.0	1.0	0.8	0.3	1.8	17.5	635	4.61
4	RM	7	2.6	1.0	1.0	0.8	0.3	1.8	18.0	650	4.61
6	RM	7	3.1	1.0	1.0	0.8	0.3	1.8	19.0	760	3.08
10	RM	7	4.1	1.0	1.0	0.8	0.3	1.8	21.5	985	1.83
16	RM	7	5.1	1.0	1.0	0.8	0.3	1.8	23.5	1230	1.15
25	RM	7	6.4	1.2	1.0	0.8	0.3	1.8	27.0	1685	0.727
35	RM	7	7.6	1.2	1.0	0.8	0.3	1.8	30.0	2090	0.524
50	SM	19	6.8	1.4	1.0	0.8	0.3	1.9	28.5	2385	0.387
70	SM	19	8.2	1.4	1.2	0.8	0.3	2.0	32.0	3150	0.268
95	SM	19	9.7	1.6	1.2	0.8	0.3	2.2	37.0	4185	0.193
120	SM	37	10.9	1.6	1.2	0.8	0.3	2.3	39.5	4905	0.153
150	SM	37	11.9	1.8	1.4	0.8	0.3	2.4	43.0	5890	0.124
185	SM	37	13.6	2.0	1.4	0.8	0.3	2.6	47.5	7215	0.0991
240	SM	37	15.8	2.2	1.6	0.8	0.3	2.8	54.0	9460	0.0754
300	SM	37	17.5	2.4	1.6	0.8	0.3	2.9	58.5	11520	0.0601

Note : RE : Round Solid Class 1
RM : Circular Stranded Class 2
SM : Three Segmental Stranded Compacted Class 2

600/1000 V PVC INSULATED, FLAT STEEL WIRE ARMOURED AND PVC SHEATHED CABLES
PVC/FSWA/PVC (IEC 60502-1)

CONSTRUCTION

Conductor : Plain Annealed Copper
(to IEC 60228 class 1 or 2)
Insulation : PVC Compound type A
Filler : Suitable material
Inner covering : PVC Compound
Armour : Galvanized Flat Steel Wire+Steel tape open helix
Sheath : PVC Compound type ST1
Colour Ident. : Insulation - Brown, Black, Grey, Blue
Sheath - Black

TECHNICAL DATA

Voltage
Uo/U - 600/1000 V
Operating Temperature
Maximum 70°C

FOUR CORES

Conductor				Nominal Thickness of Insulation	Thickness of Inner covering (approx.)	Nominal thickness of Galv. Flat Steel wire	Minimum thickness of Galv. Steel tape	Nominal Thickness of Sheath	Overall diameter of cable (approx.)	Weight of cable (approx.)	Maximum Conductor Resistance at 20°C
Nominal Cross-section area	Shape of Cond.	number of wire	Diameter of Conductor (approx.)								
mm²	-	Number	mm	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
1.5	RE	1	1.38	0.8	1.0	0.8	0.3	1.8	15.5	500	12.1
1.5	RM	7	1.6	0.8	1.0	0.8	0.3	1.8	16.0	510	12.1
2.5	RE	1	1.78	0.8	1.0	0.8	0.3	1.8	16.5	560	7.41
2.5	RM	7	2.0	0.8	1.0	0.8	0.3	1.8	17.0	605	7.41
4	RE	1	2.26	1.0	1.0	0.8	0.3	1.8	18.5	735	4.61
4	RM	7	2.6	1.0	1.0	0.8	0.3	1.8	19.5	755	4.61
6	RM	7	3.1	1.0	1.0	0.8	0.3	1.8	20.5	890	3.08
10	RM	7	4.1	1.0	1.0	0.8	0.3	1.8	23.0	1160	1.83
16	RM	7	5.1	1.0	1.0	0.8	0.3	1.8	25.5	1500	1.15
25	RM	7	6.4	1.2	1.0	0.8	0.3	1.8	29.5	2055	0.727
35	RM	7	7.6	1.2	1.0	0.8	0.3	1.9	32.5	2570	0.524
50	SM	19	8.1	1.4	1.2	0.8	0.3	2.0	32.5	3045	0.387
70	SM	19	9.7	1.4	1.2	0.8	0.3	2.1	36.0	3995	0.268
95	SM	19	11.4	1.6	1.2	0.8	0.3	2.3	41.5	5310	0.193
120	SM	37	12.9	1.6	1.4	0.8	0.3	2.4	45.0	6290	0.153
150	SM	37	14.2	1.8	1.4	0.8	0.3	2.6	49.0	7570	0.124
185	SM	37	16.0	2.0	1.6	0.8	0.3	2.7	54.5	9310	0.0991
240	SM	37	18.2	2.2	1.6	0.8	0.3	3.0	60.5	12120	0.0754
300	SM	37	20.6	2.4	1.6	0.8	0.3	3.2	66.5	14865	0.0601

Note : RE : Round Solid Class 1
RM : Circular Stranded Class 2
SM : Four Segmental Stranded Compacted Class 2

600/1000 V PVC INSULATED, FLAT STEEL WIRE ARMOURED AND PVC SHEATHED CABLES
PVC/FSWA/PVC (IEC 60502-1)

CONSTRUCTION

Conductor : Plain Annealed Copper (to IEC 60228 class 1 or 2)
Insulation : PVC Compound type A
Filler : Suitable material
Inner covering : PVC Compound
Armour : Galvanized Flat Steel Wire+Steel tape open helix
Sheath : PVC Compound type ST1
Colour Ident. : Insulation - Brown, Black, Grey, Blue, Green / Yellow Stripe
Sheath - Black

TECHNICAL DATA

Voltage
Uo/U - 600/1000 V
Operating Temperature
Maximum 70°C

FIVE CORES

Conductor				Nominal Thickness of Insulation	Thickness of Inner covering (approx.)	Nominal thickness of Galv. Flat Steel wire	Minimum thickness of Galv. Steel tape	Nominal Thickness of Sheath	Overall diameter of cable (approx.)	Weight of cable (approx.)	Maximum Conductor Resistance at 20°C
Nominal Cross-section area	No./ Diameter of wire (approx.)		Diameter of Conductor (approx.)								
mm²	No./mm		mm	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
1.5	RE	1	1.38	0.8	1.0	0.8	0.3	1.8	16.5	540	12.1
1.5	RM	7	1.6	0.8	1.0	0.8	0.3	1.8	17.0	580	12.1
2.5	RE	1	1.78	0.8	1.0	0.8	0.3	1.8	17.5	635	7.41
2.5	RM	7	2.0	0.8	1.0	0.8	0.3	1.8	18.0	655	7.41
4	RE	1	2.26	1.0	1.0	0.8	0.3	1.8	20.0	835	4.61
4	RM	7	2.6	1.0	1.0	0.8	0.3	1.8	21.0	860	4.61
6	RM	7	3.1	1.0	1.0	0.8	0.3	1.8	22.0	1025	3.08
10	RM	7	4.1	1.0	1.0	0.8	0.3	1.8	25.0	1340	1.83
16	RM	7	5.1	1.0	1.0	0.8	0.3	1.8	27.5	1745	1.15
25	RM	7	6.4	1.2	1.0	0.8	0.3	1.8	32.0	2415	0.727
35	RM	7	7.6	1.2	1.0	0.8	0.3	1.9	35.5	3070	0.524
50	RM	19	9.2	1.4	1.2	0.8	0.3	2.1	41.5	4015	0.387

Note : RE : Round Solid Class 1
RM : Circular Stranded Class 2