

## Section 2 - PVC Insulated Cables

### Unarmoured Cables

#### 450/750 V PVC INSULATED WIRE (Cu/PVC)

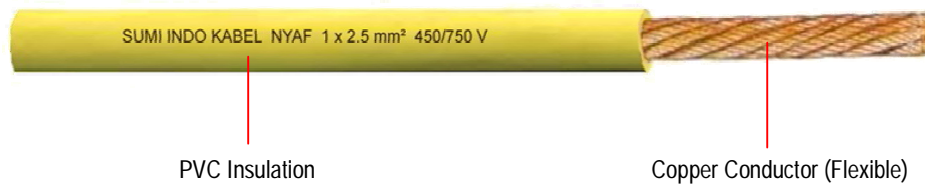
acc. to IEC 60227



Colour of Insulation : Red, White, Black, Green, Brown, Blue, Yellow, Grey, Green-yellow

#### 450/750 V PVC INSULATED WIRE (Cu/PVC Flexible)

acc. to IEC 60227



Colour of Insulation : Red, White, Black, Green, Brown, Blue, Yellow, Grey, Green-yellow

**Note : Special application upon request**

- \* Available product in accordance to : SPLN or other requirement.
- \* Tin coated Copper conductor.

### 450/750 V PVC INSULATED WIRE CU/PVC (IEC 60227)

**CONSTRUCTION**

**Conductor** : Plain Annealed Copper  
(to IEC 60228 class 1 or 2)

**Insulation** : PVC Compound type C

**Colour Ident.** : Red, White, Black, Green, Grey  
Brown, Blue, Yellow, Green-yellow

**TECHNICAL DATA**

**Voltage**  
U<sub>0</sub>/U - 450/750 V

**Operating Temperature**  
Maximum 70°C

Conductor				Nominal Thickness of Insulation	Nominal Overall Diameter (Approx.)	Weight of wire (Approx.)	Maximum Conductor Resistance at 20°C	Minimum Insulation Resistance at 70°C	AC Test Voltage
Nominal Cross- section area	Shape of conductor	Number of wire	Diameter of Conductor (approx.)						
mm <sup>2</sup>		Number	mm	mm	mm	kg/km	Ω/km	M .km	V/5 min
1.5	RE	1	1.38	0.7	3.0	25	12.1	0.011	2500
1.5	RM	7	1.6	0.7	3.2	25	12.1	0.010	2500
2.5	RE	1	1.78	0.8	3.6	35	7.41	0.010	2500
2.5	RM	7	2.0	0.8	3.8	35	7.41	0.009	2500
4	RE	1	2.26	0.8	4.1	50	4.61	0.0085	2500
4	RM	7	2.6	0.8	4.4	55	4.61	0.0077	2500
6	RE	1	2.77	0.8	4.6	70	3.08	0.0070	2500
6	RM	7	3.1	0.8	4.9	75	3.08	0.0065	2500
10	RE	1	3.57	1.0	5.8	115	1.83	0.0070	2500
10	RM	7	4.1	1.0	6.3	120	1.83	0.0065	2500
16	RM	7	5.1	1.0	7.3	180	1.15	0.0050	2500
25	RM	7	6.4	1.2	9.0	280	0.727	0.0050	2500
35	RM	7	7.6	1.2	10.5	380	0.524	0.0040	2500
50	RM	19	9.2	1.4	12.5	530	0.387	0.0045	2500
70	RM	19	10.9	1.4	14.0	730	0.268	0.0035	2500
95	RM	19	12.6	1.6	16.5	985	0.193	0.0035	2500
120	RM	37	14.2	1.6	18.0	1220	0.153	0.0032	2500
150	RM	37	15.9	1.8	20.0	1525	0.124	0.0032	2500
185	RM	37	17.6	2.0	22.0	1875	0.0991	0.0032	2500
240	RM	61	20.3	2.2	25.5	2465	0.0754	0.0032	2500
300	RM	61	22.7	2.4	28.0	3055	0.0601	0.0030	2500
400	RM	61	25.7	2.6	31.5	3930	0.0470	0.0028	2500

Note \*) RE : Round Solid Class 1  
RM : Circular Stranded Class 2

**450/750 V PVC INSULATED WIRE  
CU/PVC-Flexible (IEC 60227)**

**CONSTRUCTION**

**Conductor** : Plain Annealed Copper  
(to IEC 60228 class 5)

**Insulation** : PVC Compound type C

**Colour Ident.** : Red, White, Black, Green, Grey  
Brown, Blue, Yellow, Green-yellow

**TECHNICAL DATA**

**Voltage**  
U<sub>0</sub>/U - 450/750 V

**Operating Temperature**  
Maximum 70°C

Conductor			Nominal Thickness of Insulation	Nominal Overall Diameter (Approx.)	Weight of wire (Approx.)	Maximum Conductor Resistance at 20°C	Minimum Insulation Resistance at 70°C	AC Test Voltage
Nominal Cross-section area	Maximum Diameter of wire	Diameter of Conductor (approx.)						
mm <sup>2</sup>	mm	mm	mm	mm	kg/km	/km	MΩ.km	V/5 min
1.5	0.26	1.6	0.7	3.2	25	13.30	0.010	2500
2.5	0.26	2.0	0.8	3.8	35	7.98	0.009	2500
4	0.31	2.6	0.8	4.4	50	4.95	0.007	2500
6	0.31	3.5	0.8	5.3	75	3.30	0.006	2500
10	0.41	4.6	1.0	6.8	130	1.91	0.0056	2500
16	0.41	5.7	1.0	7.9	190	1.21	0.0046	2500
25	0.41	7.1	1.2	9.7	290	0.78	0.0044	2500
35	0.41	8.4	1.2	11.0	395	0.554	0.0038	2500
50	0.41	10.1	1.4	13.5	550	0.386	0.0037	2500
70	0.51	12.0	1.4	15.0	760	0.272	0.0032	2500
95	0.51	13.7	1.6	17.5	1010	0.206	0.0032	2500
120	0.51	15.5	1.6	19.5	1270	0.161	0.0029	2500
150	0.51	17.6	1.8	22.0	1605	0.129	0.0029	2500
185	0.51	19.2	2.0	24.0	1915	0.106	0.0029	2500
240	0.51	22.0	2.2	27.0	2495	0.0801	0.0028	2500