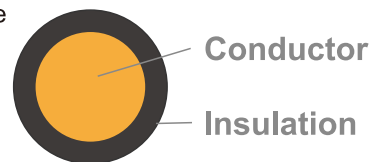


PVC-Insulated Wire

- **Standard(s)** [IV] CNS 679 ■ Complies with the CNS 15663 (Restriction of Hazardous Substances; RoHS) standard
- **Application** Circuit wiring in general electrical equipment, building and indoor wiring, machine power distribution wiring.
- **Characteristics** Excellent electrical and mechanical properties, as well as resistance to combustion, chemicals, and oil.
- **Insulation colors:** Black, white, red, green, yellow, blue, orange, and purple.



Construction and properties table / Single wire 600V

External diameter of conductor	Insulation thickness	Finished external diameter (approx.)	Maximum conductor resistance (Soft-drawn copper) (20°C)	Test voltage	Minimum insulation resistance				Reference values		
					IV		HIV				
					20°C	60°C	20°C	75°C	IV	HIV	
mm	mm		Ω/km	V/1min	MΩ·km				kg/km		m
0.8	0.8	2.4	35.7	1500	50	0.2	---	---	11	10	300
1.0	0.8	2.6	22.8	1500	50	0.2	---	---	14	13	
1.2	0.8	2.8	15.8	1500	50	0.2	50	0.05	18	17	
1.6	0.8	3.2	8.92	1500	50	0.2	50	0.05	27	26	
2.0	0.8	3.6	5.65	1500	50	0.15	50	0.05	39	38	

Construction and properties table / Stranded wire 600V

Conductor			Nominal thickness of insulation	Finished external diameter (approx.)	Maximum conductor resistance (Soft-drawn copper) (20°C)	Test voltage	Minimum insulation resistance				Reference values		
Nominal cross-sectional area	Number of strands/strand diameter	External diameter (approx.)					IV		HIV		Approximate weight		Standard length
							20°C	60°C	20°C	75°C			
mm ²	strand/mm	mm	mm	mm	Ω/km	V/1min	MΩ·km				kg/km	m	
1.25	7/0.45	1.4	0.8	3.0	16.5	1500	50	0.2	50	0.05	19	18	300
2.0	7/0.6	1.8	0.8	3.4	9.24	1500	50	0.2	50	0.05	29	28	
3.5	7/0.8	2.4	0.8	4.0	5.20	1500	50	0.15	50	0.05	45	44	
5.5	7/1.0	3.0	1.0	5.0	3.33	1500	50	0.15	50	0.05	71	68	
8	7/1.2	3.6	1.2	6.0	2.31	1500	50	0.15	50	0.05	101	98	
	Round compact	3.4	1.2	5.8	2.29	1500	50	0.15	---	---	99	---	
14	7/1.6	4.8	1.4	7.6	1.30	2000	40	0.1	40	0.04	173	168	
	Round compact	4.4	1.4	7.2	1.31	2000	40	0.1	---	---	166	---	
22	7/2.0	6.0	1.6	9.2	0.824	2000	40	0.1	40	0.04	263	256	200
	Round compact	5.5	1.6	8.7	0.832	2000	40	0.1	---	---	255	---	
30	7/2.3	6.9	1.6	10.5	0.623	2000	40	0.1	---	---	336	328	100
	Round compact	6.4	1.6	9.6	0.610	2000	40	0.1	---	---	327	---	
38	7/2.6	7.8	1.8	11.5	0.487	2500	40	0.1	40	0.04	429	419	
	Round compact	7.3	1.8	10.7	0.481	2500	40	0.1	---	---	411	---	
50	19/1.8	9.0	1.8	13.0	0.378	2500	30	0.1	---	---	535	525	300
	Round compact	8.4	1.8	12.0	0.366	2500	30	0.1	---	---	520	---	
60	19/2.0	10.0	1.8	14.0	0.303	2500	30	0.07	30	0.03	647	636	
	Round compact	9.3	1.8	12.7	0.305	2500	30	0.07	---	---	628	---	
80	19/2.3	11.5	2.0	15.5	0.229	2500	30	0.07	---	---	851	837	
	Round compact	10.7	2.0	14.7	0.229	2500	30	0.07	---	---	833	---	
100	19/2.6	13.0	2.0	17.0	0.180	2500	30	0.07	30	0.03	1,066	1,050	
	Round compact	12.0	2.0	15.8	0.183	2500	30	0.07	---	---	1,032	---	
125	19/2.9	14.5	2.2	19.0	0.144	3000	20	0.07	---	---	1,324	1,304	
	Round compact	13.5	2.2	17.6	0.146	3000	20	0.07	---	---	1,287	---	
150	37/2.3	16.1	2.2	21.0	0.118	3000	20	0.05	20	0.02	1,597	1,576	200
	Round compact	14.7	2.2	19.1	0.122	3000	20	0.05	---	---	1,546	---	
200	37/2.6	18.2	2.4	23.0	0.0922	3000	20	0.05	20	0.02	2,031	2,006	
	Round compact	17.0	2.4	21.4	0.0915	3000	20	0.05	---	---	1,954	---	
250	61/2.3	20.7	2.4	26.0	0.0722	3000	20	0.05	20	0.02	2,581	2,552	
	Round compact	19.0	2.4	23.7	0.0739	3000	20	0.05	---	---	2,473	---	
325	61/2.6	23.4	2.6	29.0	0.0565	3500	20	0.05	20	0.02	3,283	3,248	
	Round compact	21.7	2.6	26.5	0.0568	3500	20	0.05	---	---	3,150	---	
400	61/2.9	26.1	2.6	32.0	0.0454	3500	20	0.05	20	0.02	4,040	4,001	
	Round compact	24.1	2.6	29.2	0.0462	3500	20	0.05	---	---	3,898	---	
500	61/3.2	28.8	2.8	35.0	0.0373	3500	20	0.05	20	0.02	4,908	4,861	
	Round compact	26.9	2.8	32.3	0.0369	3500	20	0.05	---	---	4,732	---	



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