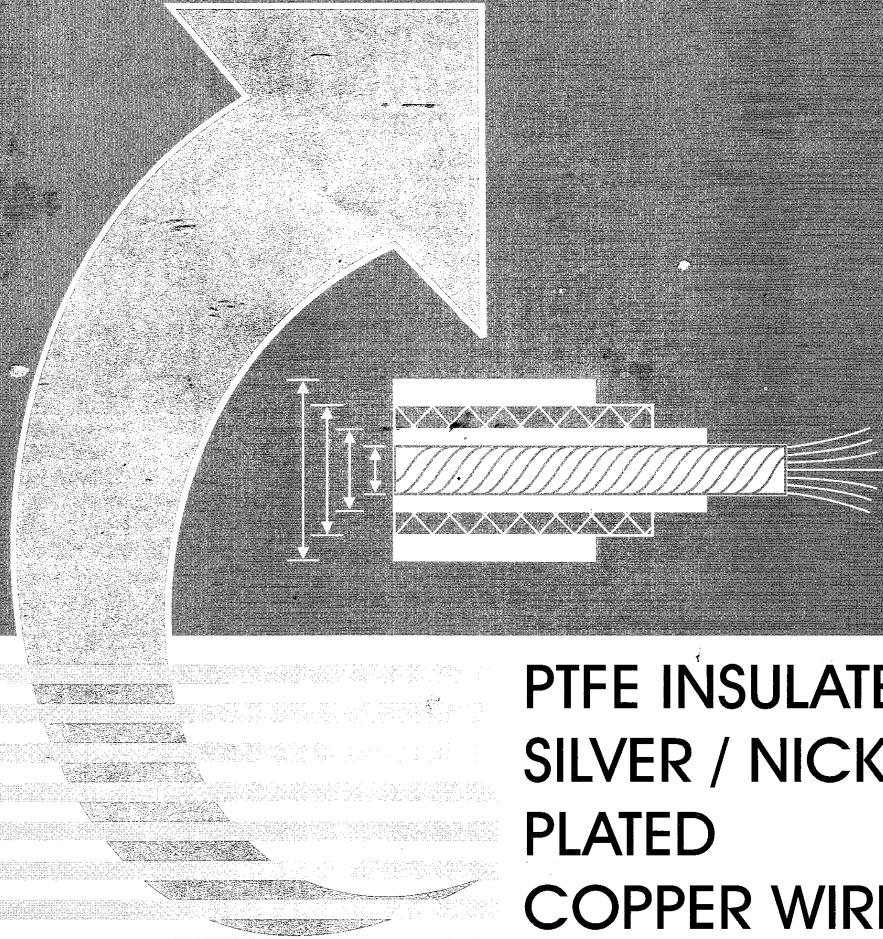


K.flex

PRODUCT PROFILE

WIRES & CABLES



**PTFE INSULATED
SILVER / NICKLE
PLATED
COPPER WIRES,
CABLES &
PTFE SLEEVES.**

PRODUCT RANGE

HOOK-UP WIRES # RF CO-AXIAL CABLES
TRI-AXIAL CABLES # MULTI CORE TWISTED CABLES
TWISTED & SHIELDED CABLES # TWISTED SHIELDED & PTFE/PVC JACKETED CABLES # DOUBLE SHIELDED CABLES
MULTI PAIR CABLES # TWIN PARALLEL BALOON WIRE
SLEEVES # PTFE TAPE # PTFE HOSES # ETC.

PTFE INSULATED SILVER PLATED
COPPER WIRES -65° to 265°
PTFE INSULATED NICKLE PLATED
COPPER WIRES -65°C to 200°C

OPERATING TEMPERATURES

RUNNING VOLTAGE

TYPE ET : 250 VOLTS AC RMS
TYPE E : 600 VOLTS AC RMS
TYPE EE : 1000 VOLTS AC RMS

LOW DIELECTRIC CONSTANT # LOW DISSIPATION FACTOR (<.0003) # HIGH OPERATING TEMPERATURES # EXCELLENT THERMAL STABILITY # SUITABLE FOR WIDE FREQUENCY RANGE :DC TO ABOVE 10000 MHZ # HIGH SURFACE RESISTANCE # INERT TO CHEMICAL ATTACK # HIGH VOLUME RESISTIVITY # FLAME PROOF # HIGH MECHANICAL STRENGTH # FAIR CORONA RESISTANCE # SUITABLE TO HIGH DENSITY WIRING # INERT TO FUNGUS AND MOULD GROWTH

GENERAL CHARACTERISTICS

ADVANTAGES OVER EXTRUDED WIRES

THESE ARE PTFE TAPE WRAPPED WIRES HAVING UNIFORM INSULATION THICKNESS AROUND THE CENTRAL CONDUCTOR AS COMPARED TO THE WIRES INSULATED BY EXTRUSION PROCESS. ALSO PTFE IS HIGHER GRADE INSULATING POLYMER AS COMPARED TO OTHER FLUOROCARBONS BEING USED IN EXTRUSION PROCESS; AND AS SUCH IT HAS MUCH GREATER PERFECTION.

ELECTRONIC TEST EQUIPMENTS # COMPUTORS
ELECTRONIC EQUIPMENTS FOR AIR CRAFT, MARINE, RADAR, SATELLITES, AEROSPACE RESEARCH # POWER CONTROL EQUIPMENTS
LEAD CELLS & PRESSURE TRANSDUCERS # HEAT SENSING LEADS # ATOMIC POWER STATIONS
HIGH PERFORMANCE ELECTRICAL MACHINES
FURNACE & OVEN WIRING # HIGH TEMPERATURE ELECTONIC CONTROL VALVES # TELEPHONE EXCHANGES # REFRIGERATION EQUIPMENTS
LIFTS # INFRA RED SENSING EQUIPMENTS # ETC.

APPLICATIONS

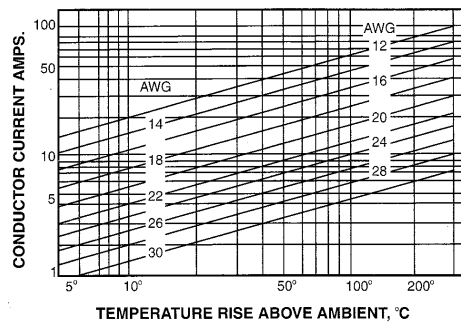
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WIRES & CABLES

PTFE / TEFLON INSULATED SILVER PLATED COPPER WIRES

S. No.	Size	No. of strands/ dia. Of strand (mm)	Parameters of conductor (Nominal)			Current Rating [☆] (in amps)		Nominal Dia. of Insulated Wire		
			Dia (mm)	Cross section (Sq. Mm.)	Resistance ohm/ km at 20°C	30°C	200°C	ET	E	EE
1.	32/7/40	7/0.08	0.24	0.0340	570.9	2.5	6.0	0.56	0.74	1.00
2.	30/1	1/0.25	0.25	0.0507	356.4	2.5	6.0	0.56	0.75	1.00
3.	30/7/38	7/0.10	0.30	0.0568	332.3	2.5	6.0	0.61	0.81	1.07
4.	28/1	1/0.32	0.32	0.0806	224.4	3.5	8.0	0.63	0.84	1.09
5.	28/7/36	7/0.13	0.39	0.0887	210.5	3.5	8.0	0.69	0.89	1.14
6.	26/1	1/0.40	0.40	0.1282	140.9	4.0	10.0	0.71	0.90	1.15
7.	26/7/34	7/0.16	0.48	0.1409	133.7	4.0	10.0	0.79	0.99	1.24
8.	26/19/38	19/0.10	0.50	0.1540	126.7	4.0	10.0	0.79	0.99	1.24
9.	24/1	1/0.50	0.50	0.2047	88.4	6.0	15.0	0.81	1.00	1.25
10.	24/7/32	7/0.20	0.60	0.2270	83.2	6.0	15.0	0.91	1.12	1.37
11.	24/19/36	19/0.13	0.65	0.2407	80.2	6.0	15.0	0.91	1.12	1.37
12.	22/1	1/0.65	0.65	0.3243	56.1	7.0	18.0	0.95	1.15	1.40
13.	22/7/30	7/0.25	0.75	0.3547	52.5	7.0	18.0	1.07	1.27	1.52
14.	22/19/34	19/0.16	0.80	0.3820	49.8	7.0	18.0	1.07	1.27	1.52
15.	20/1	1/0.80	0.80	0.5168	34.7	9.0	22.0	1.10	1.30	1.53
16.	20/7/28	7/0.32	0.98	0.5630	33.0	9.0	22.0	1.27	1.47	1.73
17.	20/19/32	19/0.20	1.00	0.6162	30.3	9.0	22.0	1.27	1.47	1.73
18.	18/7/26	7/0.40	1.20	0.8969	20.7	15.0	35.0	-	1.75	2.00
19.	18/19/30	19/0.25	1.25	0.9627	19.1	15.0	35.0	-	1.75	2.00
20.	16/19/29	19/0.29	1.45	1.2293	14.9	19.0	45.0	-	2.03	2.25
21.	16/37/32	37/0.20	1.40	1.2000	15.0	19.0	45.0	-	2.00	2.20
22.	15/19/28	19/0.32	1.60	1.5272	12.5	22.0	50.0	-	2.15	2.40
23.	14/19/27	19/0.36	1.80	1.9412	9.5	25.0	60.0	-	2.42	2.69
24.	14/37/30	37/0.25	1.75	1.8886	10.0	25.0	60.0	-	2.35	2.60
25.	13/19/26	19/0.40	2.00	2.3864	7.8	30.0	75.0	-	2.60	2.85
26.	12/19/25	19/0.45	2.25	3.0848	6.0	35.0	90.0	-	2.90	3.17
27.	12/37/28	37/0.32	2.24	2.9742	6.5	35.0	90.0	-	2.85	3.12
28.	11/19/24	19/0.50	2.50	3.7287	5.0	-	-	-	3.15	3.40
29.	10/19/22	19/0.65	3.25	6.3015	3.0	-	-	-	3.80	4.10
30.	10/37/26	37/0.40	2.80	4.7397	3.9	-	-	-	3.40	3.68

☆ Current VS Temperature Rise- Ten Mil Insulation.



For wires of circular cross-section suspended horizontally in still air. Heat transfer is by convection and radiation. Emmissivity of the surface is taken 0.9-J1 of Teflon (PTFE)