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ALUMINUM ALLOY WIRES - Type "AL57" AS PER SS 424 08 11

Diameter			Max. Resistivity at 20°C	Temperature Coefficient of Resistance	Elongation on 250mm	Min. Tensile Strength	Density
Over	Upto & Including	Tolerance					
(mm)	(mm)	(mm)	(Ω-mm^2/Km)	(/°C)	(%)	(N/mm^2)	(g/cm^3)
2.00	2.50	± 0.03	30.50 (Individual) 30.00 (Average)	0.0038	1.60	300	2.700
2.50	3.00	± 0.03			1.60	290	2.700
3.00	3.50	± 0.03			2.00	275	2.700
3.50	4.00	± 0.04			2.40	265	2.700
4.00	4.50	± 0.04			2.70	255	2.700
4.50	5.00	± 0.05			2.70	245	2.700

ALUMINUM ALLOY WIRES - Type "AL59" AS PER SS 424 08 13

Diameter			Max. Resistivity at 20°C	Temperature Coefficient of Resistance	Elongation on 250mm	Min. Tensile Strength	Density
Over	Upto & Including	Tolerance					
(mm)	(mm)	(mm)	(Ω-mm^2/Km)	(/°C)	(%)	(N/mm^2)	(g/cm^3)
2.00	2.50	± 0.03	29.30 (Individual) 29.05 (Average)	0.0038	2.00	250	2.700
2.50	3.00	± 0.03			2.00	250	2.700
3.00	3.50	± 0.03			2.00	250	2.700
3.50	4.00	± 0.04			2.00	240	2.700
4.00	4.50	± 0.04			2.00	230	2.700
4.50	5.00	± 0.05			2.00	230	2.700

ALUMINUM ALLOY WIRES - Type "AAAC 1120" AS PER AS 1531

Diameter			Max. Resistivity at 20°C	Temperature Coefficient of Resistance	Elongation on 250mm	Min. Tensile Strength	Density
Nom	Min	Max					
(mm)	(mm)	(mm)	(Ω-mm^2/Km)	(/°C)	(%)	(N/mm^2)	(g/cm^3)
2.500	2.475	2.525	29.30	0.0039	0.80	250	2.700
2.750	2.723	2.778			1.00	250	2.700
3.000	2.970	3.030			1.00	250	2.700
3.250	3.218	3.283			1.00	250	2.700
3.500	3.468	3.535			1.20	240	2.700
3.750	3.713	3.788			1.20	240	2.700
4.500	4.455	4.545			1.40	230	2.700
4.750	4.703	4.798			1.40	230	2.700

Note : Wires are available in all sizes as per customer requirement.

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THERMAL RESISTANT ALUMINUM ALLOY WIRES - AS PER IEC 62004

Type	Diameter			Max. Resistivity at 20°C	Temperature Coefficient of Resistance	Elongation on 250mm	Min. Tensile Strength	Continous allowable operating temperature	Maximum emergency temperature
	Over	Upto & Including	Tolerance						
	(mm)	(mm)	(mm)	(Ω-mm²/Km)	(/°C)	(%)	N/mm²	(°C)	(°C)
AT 1	-	2.60	± 0.03	28.735	0.004	1.50	169	150	180
	2.60	2.90	± 0.03			1.60	166		
	2.90	3.50	± 0.03			1.70	162		
	3.50	3.80	± 0.04			1.80	162		
	3.80	4.00	± 0.04			1.90	159		
	4.00	4.50	± 0.04			2.00	159		
AT 2	-	2.60	± 0.03	31.347	0.0036	1.50	248	150	180
	2.60	2.90	± 0.03			1.60	245		
	2.90	3.50	± 0.03			1.70	241		
	3.50	3.80	± 0.04			1.80	241		
	3.80	4.00	± 0.04			1.90	238		
	4.00	4.50	± 0.04			2.00	225		
AT 3	-	2.30	± 0.03	28.735	0.004	1.50	176	210	240
	2.30	2.60	± 0.03			1.50	169		
	2.60	2.90	± 0.03			1.60	166		
	2.90	3.50	± 0.03			1.70	162		
	3.50	3.80	± 0.04			1.80	162		
	3.80	4.00	± 0.04			1.90	159		
	4.00	4.50	± 0.04			2.00	159		
AT 4	-	2.60	± 0.03	29.726	0.0038	1.50	169	230	310
	2.60	2.90	± 0.03			1.60	165		
	2.90	3.50	± 0.03			1.70	162		
	3.50	3.80	± 0.04			1.80	162		
	3.80	4.00	± 0.04			1.90	159		
	4.00	4.50	± 0.04			2.00	159		

* Density : 2.703 g/cm^3, Coefficient of linear expansion : 23.0x10^{-6} /°C